

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1.
- B. THIS DRAWING COVERS PROCEDURES APPLICABLE TO THE TRANSPORT OF LOOSE AND/OR PALLETIZED UNIT BASIC LOAD ITEMS, SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES, IN/ON TACTICAL TYPE VEHICLES, FOR ON AND/OR OFF HIGHWAY. FOR ADDITIONAL GUIDANCE, SEE AAMC DRAWINGS 19-48-4901/1-CA1702, LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR SEPARATE LOADING PROJECTILES IN/ON TACTICAL VEHICLES; 19-48-4901/2-CA1702, LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR PROPELLING CHARGES IN/ON TACTICAL VEHICLES; 19-48-4901/3-CA1702, LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR COMPLETE ROUNDS IN/ON TACTICAL VEHICLES; AND 19-48-4901/4-CA1702, LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR BOXED AMMUNITION AND COMPONENTS (PALLETIZED AND UNPALLETIZED) IN/ON TACTICAL VEHICLES. SEE NOTE "D" BELOW.
- C. DEPICTED PROCEDURES APPLY TO TACTICAL VEHICLES HAVING FACTORY INSTALLED TIEDOWN ANCHORS AND/OR TACTICAL VEHICLES WHICH HAVE BEEN MODIFIED TO INCLUDE THE UNIVERSALLY APPLICABLE "TIEDOWN KIT" WHICH CONSISTS OF THE TIEDOWN FITTINGS OR ANCHOR DEVICES FOR INSTALLATION IN/ON CARGO BEDS, SIDE WALLS, AND/OR END WALLS, FOR USE WITH WEB STRAP TIEDOWN ASSEMBLIES. SEE PAGE 42 FOR GUIDANCE.
- D. ALL LOADS SHOWN HEREIN ARE TYPICAL AND ARE BASED ON TESTED PROCEDURES FOR OFF HIGHWAY TRANSPORT OF LOOSE AND/OR PALLETIZED ITEMS. COMBINATIONS OF PROCEDURES MAY BE USED IN/ON ANY TACTICAL VEHICLE. HOWEVER, THE APPROVED METHODS SPECIFIED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE.
- E. BECAUSE OF THE FACT THAT ALL LOADS SHOWN HEREIN ARE TYPICAL IT IS MOST LIKELY THAT THE ACTUAL QUANTITY TO BE TRANSPORTED WILL NOT BE DEPICTED. IN ORDER TO MAINTAIN SIMILARITY FROM ONE LOAD TO ANOTHER, INSTALLATIONS WHICH MAKE MULTIPLE SHIPMENTS OF THE SAME ITEM IN THE SAME TYPE OF VEHICLE, SHOULD MAKE AN ACTUAL PENCIL SKETCH OF THE LOAD, USING THE VARIOUS TYPICAL LOADS AND PROCEDURES SHOWN HEREIN FOR GUIDANCE. THIS SKETCH WOULD BE ADVANTAGEOUS FOR MAXIMUM LOADS USING A MINIMUM QUANTITY OF WEB STRAP TIEDOWN ASSEMBLIES.
- F. WEB STRAP TIEDOWN ASSEMBLIES MUST BE SECURELY HOOKED INTO ANCHORING DEVICES ON THE TRANSPORTING VEHICLE AND RATCHETED TIGHT, PRIOR TO MOVING THE VEHICLE. WHEN INSTALLING STRAPS ASSURE THAT THERE ARE NO "TWISTS" AND/OR "KNOTS" IN STRAP. THE STRAP MUST FORM A STRAIGHT "LAY" ON THE RATCHET TAKE-UP SPOOL WHEN TENSIONING. PRIOR TO RATCHETING THE STRAP TIGHT, PULL EXCESS LENGTH OF SLACK STRAP THROUGH THE RATCHET TAKE-UP SPOOL UNTIL ENOUGH STRAP LENGTH REMAINS TO FORM AT LEAST ONE-HALF, BUT NOT MORE THAN ONE AND ONE-HALF WRAPS OF STRAP ON THE RATCHET TAKE-UP SPOOL. AFTER STRAP-TO-STRAP CONTACT HAS BEEN MADE (STRAP-TO-STRAP CONTACT IS MADE BY ROTATING THE TAKE-UP SPOOL UNTIL NO METAL ON THE SPOOL IS SHOWING AND THE STRAP IS IN CONTACT WITH ITSELF).
NOTE: WHEN THE TAKE-UP SPOOL OF THE RATCHET ASSEMBLY IS ROTATED BY MOVING THE RATCHET HANDLE TO TENSION A STRAP ASSEMBLY, TWO THICKNESSES OF STRAP WILL BE WOUND ONTO THE SPOOL AT THE SAME TIME. THEREFORE, THE REQUIREMENT FOR ONE-HALF TO ONE AND ONE-HALF WRAPS OF STRAP ON THE TAKE-UP SPOOL ACTUALLY MEANS ONE-HALF TO ONE AND ONE-HALF OF DOUBLED STRAP. ONE METHOD THAT CAN BE USED TO ENSURE THERE IS ONE-HALF WRAP OF STRAP ON THE RATCHET TAKE-UP SPOOL AFTER STRAP-TO-STRAP CONTACT HAS BEEN MADE, IS TO COUNT THE AUDIBLE "CLICKS" MADE BY THE RATCHET ASSEMBLY AS A WEB STRAP IS BEING RATCHETED. FOR EXAMPLE, IF THE RATCHET ASSEMBLY HAS NINE TEETH, STARTING WITH A BARE TAKE-UP SPOOL, COUNT FOURTEEN "CLICKS" AS THE TAKE-UP SPOOL IS BEING ROTATED. IF THE RATCHET ASSEMBLY HAS ELEVEN TEETH, COUNT SEVENTEEN "CLICKS". AFTER A STRAP ASSEMBLY HAS BEEN PROPERLY TENSIONED, CARE MUST BE EXERCISED TO ASSURE THAT THE TAKE-UP SPOOL LOCKING LATCH (SPRING-LOADED DEVICE WITH A LOCKING BAR ON EACH SIDE OF THE RATCHET ASSEMBLY) IS FULLY SEATED ON BOTH SIDES IN MATCHING LOCKING NOTCHES, WHICH ARE SIMILAR TO SPCKET GEAR TEETH, LOCATED ON EACH END OF THE TAKE-UP SPOOL. AFTER TENSIONING IS COMPLETED, THE LOOSE END OF STRAP MAY BE FOLDED AND SECURED TO THE TENSIONED STRAP WITH TAPE, WIRE, STRING, VELCRO STRIP, OR OTHER MEANS.
- G. ADJUSTABLE SLEEVES, WHEN PROVIDED ON WEB STRAP ASSEMBLIES, WILL BE LOCATED TO PROVIDE A PAD WHERE STRAPS PASS OVER SHARP EDGES, OR RATCHETS AND HOOKS ON PREVIOUSLY INSTALLED WEB STRAP TIEDOWN ASSEMBLIES. METAL PARTS OF A STRAP ASSEMBLY SHOULD BE LOCATED SO AS TO AVOID CONTACT WITH METAL ON UNIT BASIC LOAD ITEMS. IF CONTACT CANNOT BE AVOIDED, A SUITABLE ANTI-CHAFING MATERIAL AS LISTED UNDER THE MATERIAL SPECIFICATIONS BELOW, MUST BE POSITIONED BETWEEN THE METAL PARTS OF A STRAP ASSEMBLY AND THE METAL ON UNIT BASIC LOAD ITEMS, AND IF NECESSARY, TAPED OR TIED IN POSITION.
- H. IF THE SIDE RACKS FOR A SEMITRAILER ARE TO BE TRANSPORTED ON THE LOADED TRAILER, THEY WILL BE STACKED ON THE TRAILER AND SECURED WITH A SUFFICIENT QUANTITY OF WEB STRAP TIEDOWN ASSEMBLIES TO PREVENT LOSS DURING TRANSPORT. NOTE: IF DESIRED, THE SIDE RACKS FOR THE M871 AND M872 SEMITRAILERS MAY BE POSITIONED IN PLACE AFTER THE LOAD HAS BEEN SECURED. AFTER ALL SIDE PANELS AND REAR PANELS ARE IN POSITION, THE STAKES MUST BE SECURELY "PINNED" OR "WIRE-TIED" TO THE STAKE POCKETS TO PREVENT VERTICAL DISPLACEMENT DURING TRANSPORT. ALSO, THE SIDE PANELS MUST BE SECURED AT THE TOP WITH THE CROSS-CHAINS WHICH ARE PROVIDED WITH THE VEHICLE. NOTE: THESE PROCEDURES DO NOT APPLY TO M871 AND M872 SEMITRAILERS WHICH HAVE BEEN MODIFIED WITH DROP SIDES.
(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

STRAP _____: WEBBING, UNIVERSAL TIEDOWN, NEI 5340-00-980-9277, PN 1090080; OR NEI 1670-00-725-1437, PN 1378-013.
ALTERNATIVE: NEI 5340-01-089-4977, PN 11640588, OR NEI 5340-01-204-3009, PN 9392419

ANTI-CHAFING MATERIAL _____: CANVAS, BURLAP, TAPE OR ANY OTHER SUITABLE MATERIAL

(GENERAL NOTES CONTINUED)

- J. THE TIEDOWN PROCEDURES SHOWN WITHIN THIS DRAWING ALSO APPLY TO DROP SIDE VEHICLES HAVING TIEDOWN ANCHORS INSTALLED ON THE DROP SIDES. THE TAILGATE MUST ALWAYS BE IN THE CLOSED POSITION TO HELP STRENGTHEN THE DROP SIDES, WHEN THIS TYPE OF VEHICLE IS BEING USED TO TRANSPORT UNIT BASIC LOAD ITEMS.
- K. DURING LONG HAULS, WHEN POSSIBLE, STRAPS SHOULD BE CHECKED DURING VEHICLE STOPS AND TIGHTENED, IF NECESSARY.
- L. PROCEDURES DEPICTED HEREIN ARE TYPICAL IN NATURE RELATIVE TO ITEM LOCATION IN/ON THE VEHICLES AND THE QUANTITIES SHOWN. ITEM LOCATION AND QUANTITIES OF THE DESIGNATED ITEM MAY BE VARIED TO SATISFY OPERATIONAL REQUIREMENTS, PROVIDED LOADING AND TIEDOWN PRINCIPLES SPECIFIED HEREIN ARE RETAINED.
- M. THE TIEDOWN METHODS WITHIN THIS DRAWING SHOW TWO HOOKS TO BE CONNECTED TO ONE TIEDOWN EYE. THIS IS AUTHORIZED AS SPECIFIED HEREIN.
- N. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THE DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.
- O. ONLY THE CARGO BODIES OR BEDS OF THE TACTICAL VEHICLES HAVE BEEN SHOWN HEREIN TO PREVENT DISTRACTION FROM THE DELINEATED LOADING AND TIEDOWN PROCEDURES, AND ARE SHOWN IN OUTLINE FORM WITH THE STRUCTURAL PORTIONS OMITTED AS NECESSARY TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
- P. WHEN ONE WEB STRAP TIEDOWN ASSEMBLY IS NOT LONG ENOUGH TO SPAN THE DISTANCE DEPICTED, TWO ASSEMBLIES MAY BE HOOKED TOGETHER TO GAIN THE NECESSARY LENGTH.
- Q. RATCHETS ON WEB STRAP TIEDOWN ASSEMBLIES WILL BE POSITIONED AS INSTALLED IN THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 5, THE "SPECIAL NOTES" ON PAGES 6, 7, AND 42, AND THE "LOAD GUIDANCE NOTES" AND "KEY NUMBERS" ON EACH PAGE DEPICTING TIEDOWN PROCEDURES. DUE TO THE DIFFERENT TYPES OF WEB STRAP TIEDOWN ASSEMBLIES, THE RATCHETS ARE NOT SHOWN IN THE TIEDOWN PROCEDURES.
- R. DUE TO VARIOUS REASONS, SUCH AS ROUGH TERRAIN DURING OFF HIGHWAY TRANSPORT, PANIC STOPS, METAL FLOORS ON VEHICLES AND NORMAL STRETCH OF WEB STRAPS, LOADED ITEMS MAY SLIDE SLIGHTLY Laterally AND/OR LONGITUDINALLY DURING TRANSPORT. THIS IS AN ACCEPTABLE CHARACTERISTIC AND IS NOT DETRIMENTAL TO LOAD SECUREMENT.
- S. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE LOADING, TIEDOWN, AND UNLOADING PROCEDURES ON PAGE 5, AND THE "SPECIAL NOTES" SECTIONS ON PAGES 6, 7, AND 42.

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SECUREMENT OF PARTIAL UNIT BASIC LOADS

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LOOSE BOXES IN TRUCK, 1-1/4-TON, M978	9
PALLETIZED BOXES WITH LOOSE BOXES SECURED ON TOP IN TRUCK, 1-1/4-TON, M1008	10
PALLETIZED 8-INCH PC CNTS WITH LOOSE PC CNTS SECURED ON TOP, AND LOOSE BOXES, IN TRUCK, 1-1/4-TON, M1008	11
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LOOSE 8-INCH SLF IN TRAILER, CARGO, 1-1/2-TON, M105	14
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LOOSE TOW MISSILE CNTS IN TRAILER, CARGO, 1-1/2-TON, M105	21
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SECUREMENT OF FULL UNIT BASIC LOADS

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LOOSE BOXES IN TRAILER, CARGO, 1-1/2-TON, M105	25
LOOSE BOXES IN TRUCK, CARGO, 2-1/2-TON, M85 AND/OR M211, AND TRAILER, CARGO, 1-1/2-TON, M105	26, 27
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SECUREMENT OF PARTIAL AND/OR FULL UNIT BASIC LOADS IN THE HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMIT), 10-TON, M977 AND/OR M985

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DETAILS

TIEDOWN ANCHOR DETAILS	42
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NOTE #1:

THE TACTICAL VEHICLES LISTED IN THE INDEX ABOVE AND SHOWN WITHIN THIS DRAWING WERE SELECTED AS TYPICAL ONLY. OTHER TYPES OF VEHICLES MAY BE USED IN LIEU OF THOSE SHOWN AS LONG AS THEY COMPLY WITH GENERAL NOTE "C" ON PAGE 2. SEE THE "LOAD PLANNING GUIDANCE CHART" ON THIS PAGE.

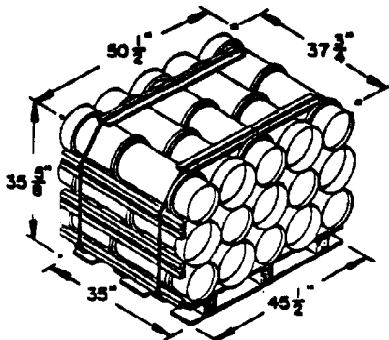
LOAD PLANNING GUIDANCE CHART

WHEN TRANSPORTING UNIT BASIC LOAD ITEMS USE THE FOLLOWING CHART FOR LOAD PLANNING GUIDANCE. ALL OF THE VEHICLES LISTED IN THE CHART ARE NOT SHOWN IN THIS DOCUMENT. OTHER TYPES OF VEHICLES NOT LISTED IN THIS CHART MAY BE USED AS LONG AS THEY COMPLY WITH GENERAL NOTE "C" ON PAGE 2. SEE "NOTE #1" ON THIS PAGE AND "LOADING PLANNING NOTES" BELOW.

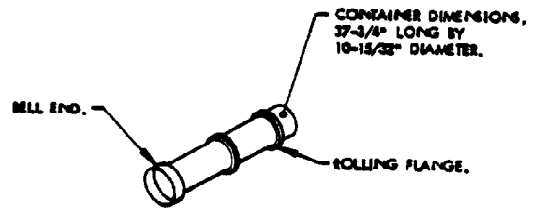
TACTICAL VEHICLE			UNIT BASIC LOAD ITEMS SEE PAGES
M100	ORBITO TRAILER	1/4-TON	13, 18 THRU 22, 24 THRU 33, 38 AND 39
M101	CARGO TRAILER	3/4-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M105	CARGO TRAILER	1-1/2-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M332	AMMO TRAILER	1-1/2-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M127	SEMITRAILER	12-TON	10 THRU 34, 38 THRU 41
M971	SEMITRAILER	22-1/2-TON	10 THRU 34, 38 THRU 41
M972	SEMITRAILER	34-TON	10 THRU 34, 38 THRU 41
M87	CARGO TRUCK	3/4-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M561	CARGO TRUCK	1-1/4-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M715	CARGO TRUCK	1-1/4-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M998	CARGO TRUCK	1-1/4-TON	8 AND 9
M1008	CARGO TRUCK	1-1/4-TON	11 THRU 22, 24 THRU 34, 38 AND 39
M84	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M85	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M86/ M86C	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M138	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M211	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M602	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M21	CARGO TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M47	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M59	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M215	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M342	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M614	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M484	DUMP TRUCK	2-1/2-TON	10 THRU 34, 38 THRU 41
M54	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M55	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M56	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M813	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M814	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M959	CARGO TRUCK	5-TON	10 THRU 34, 38 THRU 41
M61	DUMP TRUCK	5-TON	10 THRU 34, 38 THRU 41
M817	DUMP TRUCK	5-TON	10 THRU 34, 38 THRU 41
M548	CARGO CARRIER	6-TON	10 THRU 34, 38 THRU 41
M520	CARGO TRUCK	8-TON	10 THRU 34, 38 THRU 41
M125	CARGO TRUCK	10-TON	10 THRU 34, 38 THRU 41
M977/ M985	CARGO TRUCK	10-TON	10 THRU 34, 38 THRU 61

LOAD PLANNING NOTES:

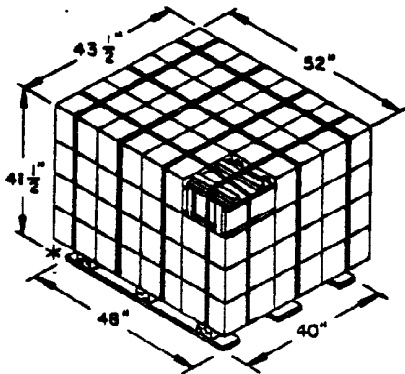
1. LOCATE THE VEHICLE BEING USED IN THE CHART ABOVE AND NOTE THE LOAD GUIDANCE PAGES LISTED IN THE RIGHT SIDE COLUMN.
2. DETERMINE THE QUANTITY OF UNIT BASIC LOAD ITEMS TO BE LOADED IN/ON THE TACTICAL VEHICLE. THE QUANTITY OF ITEMS TO BE LOADED WILL DEPEND ON THE VEHICLE WEIGHT LIMIT, SIZE OF CARGO AREA, AND QUANTITY AND LOCATION OF TIEDOWN ANCHORS.
3. SELECT THE BEST METHOD OF SECURING THE UNIT BASIC LOAD ITEMS FROM THE METHODS SHOWN ON THE REFERENCED PAGES. NOTE: A COMBINATION OF METHODS MAY BE USED IN/ON THE SAME TACTICAL VEHICLE.



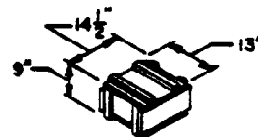
**CHARGE PROPELLING, 3-INCH
PACKED IN PA66 SERIES CONTAINERS**
(1,278 POUNDS)



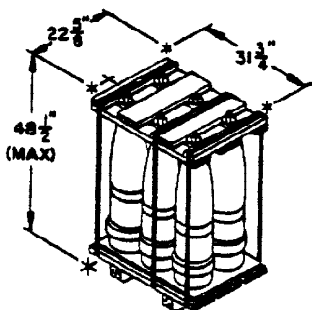
**CHARGE PROPELLING, 3-INCH
PA66 SERIES CONTAINER**
(77 POUNDS)



**HAND GRENADES, PACKED 16 PER
WOODEN BOX PALLETIZED**
(2,132 POUNDS)



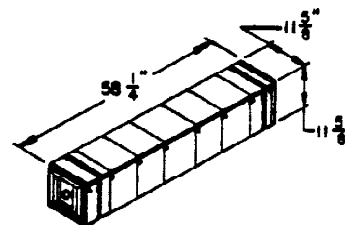
**HAND GRENADES, PACKED
16 PER WOODEN BOX**
(43 POUNDS)



**3-INCH SEPARATE LOADING
PROJECTILES, SIX PER PALLET**
(1,316 POUNDS)

NOTE

THE ITEMS SHOWN ON THIS PAGE WERE
SELECTED AS TYPICAL AND ARE REPRESENTATIVE
OF UNIT BASIC LOAD ITEMS SHOWN WITHIN THIS
DOCUMENT.



TOW GUIDED MISSILE CONTAINER
(87 POUNDS)

1. PRIOR TO LOADING AND/OR UNLOADING, SET BRAKES ON TACTICAL VEHICLE AND DROP TAILGATE. IF LOADING AND/OR UNLOADING TRUCK OR TRAILER, REMOVE SIDE RACKS FROM SEMITRAILERS, AND CANVAS COVER AND BOWS FROM TRUCK OR TRAILER.
2. AFTER ALL LOADING PROCEDURES ARE COMPLETE, CHECK ALL WEB STRAP TIEDOWN ASSEMBLIES FOR MAXIMUM TIGHTNESS AND RATCHET TIGHTER, IF REQUIRED, PRIOR TO FOLDING UP AND SECURING THE LOOSE ENDS OF STRAP. SEE GENERAL NOTE "G" ON PAGE 2.
3. WHEN TWO STRAPS ARE TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, ATTACH THE RATCHET END OF ONE STRAP AND THE NON-RATCHET END OF THE SECOND STRAP TO THE TIEDOWN ANCHOR, PRIOR TO RATCHETING STRAPS TIGHT.
4. IF THE WEB STRAP TIEDOWN ASSEMBLIES BEING USED DO NOT HAVE SWIVEL HOOKS ON EACH END, ASSURE THAT ALL TWISTS ARE OUT OF STRAP PRIOR TO ATTACHING HOOKS TO TIEDOWN ANCHORS.
5. WHEN TRANSPORTING LESS THAN FULL LOADS ON TRUCKS AND/OR SEMI-TRAILERS, DO NOT POSITION PALLETS OR OTHER ITEMS OF LOADING, WITHIN FIVE FEET OF AFT END, IF POSSIBLE, AS THIS IS THE ROUGHEST RIDING AREA IN/ON THE VEHICLE.
6. WHEN USING WEB STRAP TIEDOWN ASSEMBLIES THAT HAVE THE RATCHET AND NON-SWIVEL HOOK ON THE END OF THE STRAP, IT MAY NOT BE POSSIBLE TO PROPERLY OPERATE THE RATCHET IF THE SPACE BETWEEN THE LOAD AND THE VEHICLE SIDE WALL IS LESS THAN 12" AND THE STRAP IS POSITIONED AT A STEEP, NEAR VERTICAL ANGLE. IF THE RATCHET CANNOT BE PROPERLY OPERATED TO ATTAIN A TIGHT STRAP, USE ONE OR MORE OF THE FOLLOWING METHODS:
 - A. HOOK THE RATCHET ENDS OF TWO WEB STRAP TIEDOWN ASSEMBLIES TOGETHER. POSITION THE RATCHETS ON TOP OF THE PALLETIZED UNIT, AND ATTACH THE NON-RATCHET HOOK END OF EACH STRAP TO A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE. MAKE SURE THERE IS A MINIMUM OF ONE-AND-ONE-HALF FEET OF STRAP ON ONE RATCHET, THEN TAKE UP EXCESS SLACK IN REMAINING RATCHET AND RATCHET TIGHT. THIS METHOD REQUIRES TWO WEB STRAP TIEDOWN ASSEMBLIES IN LIEU OF ONE STRAP AT EACH LOCATION A STRAP IS POSITIONED OVER THE TOP OF A LOAD.
 - B. IF A MAXIMUM LOAD IS NOT REQUIRED, THE PALLETIZED UNIT CAN BE POSITIONED ONE WIDE, DOWN THE CENTER OF THE VEHICLE LENGTH, IN LIEU OF TWO WIDE, OR QUANTITY OF ITEMS CAN BE REDUCED TO PROVIDE MORE ROOM BETWEEN LOADING AND SIDE WALL OF VEHICLE.
 - C. ONE PALLETIZED UNIT HAVING A LENGTH OF 40" OR LESS CAN BE POSITIONED Laterally ADJACENT TO THE PALLETIZED UNIT HAVING A LENGTH OF 40" OR MORE, TO REDUCE THE TOTAL LOAD WIDTH. SEE THE LOAD SHOWN ON PAGE 48 FOR EXAMPLE.
 - D. WHEN LOADING Laterally ADJACENT PALLETIZED UNITS ACROSS THE WIDTH OF A VEHICLE HAVING SIDE WALLS, RATCHET OPERATING SPACE CAN BE GAINED BY ATTACHING NON-RATCHET ENDS OF STRAP TO TIEDOWN ANCHORS IN SIDE WALL AND THEN POSITIONING THE PALLETIZED UNITS AS CLOSE TO THAT SIDE WALL AS POSSIBLE, LEAVING EXCESS SPACE BETWEEN THE LOAD AND THE SIDE WALL ON THE OPPOSITE SIDE OF THE VEHICLE WHERE THE RATCHET WILL BE LOCATED. THIS METHOD MAY ALSO BE USED IN VEHICLES HAVING TIEDOWN ANCHORS LOCATED ON THE FLOOR ALONG EACH SIDE OF THE VEHICLE. AFTER ATTACHING NON-RATCHET ENDS OF STRAP TO TIEDOWN ANCHORS IN FLOOR, POSITION THE PALLETIZED UNITS AS CLOSE TO THE TIEDOWN ANCHORS ON THAT SIDE AS POSSIBLE.
 - E. A WEB STRAP ASSEMBLY, SUCH AS N6N 3340-01-089-4997, HAVING A SHORT LENGTH OF STRAP (AT LEAST 15") BETWEEN THE RATCHET AND THE HOOK END MAY BE USED. THIS TYPE OF WEB STRAP POSITIONS THE RATCHET ABOVE THE SIDE WALLS IN CARGO TRUCKS, AND ALLOWS FOR EASY OPERATION OF THE RATCHET HANDLE.
7. IN SOME LOADS IT MAY NOT BE POSSIBLE TO COMPLETELY CLOSE THE RATCHET HANDLE AFTER TENSIONING STRAP DUE TO LOAD, VEHICLE SIDE WALL, OR PREVIOUSLY INSTALLED STRAP INTERFERENCE. ALTHOUGH THIS CONDITION IS NOT DESIRABLE, IT IS PERMISSIBLE, PROVIDED PROPER STRAP TENSION IS ACHIEVED. **NOTE:** WHEN ATTACHING A WEB STRAP TIEDOWN ASSEMBLY THAT HAS THE ONE-PIECE RATCHET AND NON-SWIVEL HOOK ON THE END OF THE STRAP, TO A TIEDOWN ANCHOR ON THE VEHICLE SIDE WALL, IT MAY BE EASIER TO "WORK" THE RATCHET HANDLE IF IT IS POSITIONED ON THE BOTTOM IN LIEU OF THE TOP. THE POSITION OF THE RATCHET HANDLE WILL DEPEND ON THE ANGLE OF THE STRAP AND THE DISTANCE BETWEEN THE LOAD AND THE SIDE WALL OF THE VEHICLE.
8. PALLETIZED UNITS HAVING A LENGTH DIMENSION OF 40" OR MORE CANNOT BE POSITIONED TWO WIDE IN CARGO TRUCKS HAVING AN INSIDE WIDTH OF 80". IF A MAXIMUM LOAD IS REQUIRED, A PALLETIZED UNIT HAVING A LENGTH DIMENSION OF 43" OR LESS CAN BE POSITIONED Laterally ADJACENT TO A PALLETIZED UNIT HAVING A LENGTH DIMENSION OF 40" OR MORE, TO REDUCE THE LOAD WIDTH.
9. LOADING AND/OR UNLOADING PALLETIZED AND/OR LOOSE UNIT BASIC LOAD ITEMS MAY BE ACCOMPLISHED BY USE OF FORKLIFTS, SLINGS, CRANES, AND/OR MANUALLY.
10. IF THE SEPARATE LOADING PROJECTILES ARE TO BE LOADED AND/OR UNLOADED MANUALLY, ON TO OR OFF OF A TACTICAL VEHICLE, THE FOLLOWING PROCEDURES ARE PROVIDED FOR GUIDANCE:
 - A. CUT AND REMOVE THE THREE STEEL UNITIZING STRAPS.
 - B. REMOVE THE COVER ASSEMBLY.
 - C. LIFT THE INDIVIDUAL PROJECTILES OUT OF THE PALLET BASE ASSEMBLY AND SET THEM ASIDE.
 - D. POSITION THE PALLET BASE ASSEMBLY AT THE DESIRED LOCATION IN/ON A TACTICAL VEHICLE OR ON THE GROUND.
 - E. POSITION THE INDIVIDUAL PROJECTILES BACK INTO POSITION ON THE PALLET BASE ASSEMBLY.
 - F. REPLACE THE COVER ASSEMBLY.
 - G. SECURE THE RE-ASSEMBLED PALLETIZED PROJECTILES TO THE TACTICAL VEHICLE WITH WEB STRAP TIEDOWN ASSEMBLIES. SEE THE LOAD ON PAGE 14 FOR EXAMPLE.
11. WHEN SECURING ITEMS IN THE HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV), 1-1/4-TON, M998, USE THE FOLLOWING GUIDANCE:
 - A. WHEN LOADING SMALL QUANTITIES OF BOXED AMMUNITION AND/OR OTHER ITEMS, THE EXISTING "D" RING TIEDOWN ANCHORS MAY BE USED, AS LONG AS THE ANGLE OF THE HOLD-DOWN WEB STRAP DOES NOT EXCEED 45°.
 - B. WHEN LOADING LARGE QUANTITIES OF BOXED AMMUNITION AND/OR OTHER ITEMS, SUCH AS PALLETIZED UNITS, THE EXISTING "D" RING TIEDOWN ANCHORS MUST BE REMOVED AND REPLACED WITH 1/2" SHOULDER EYEBOLTS, M81987, SIZE 1/2", 13 UNC-2A, N6N 3306-00-089-0847. TIGHTEN THE EYEBOLT TO 75 FOOT-POUNDS WHEN PRACTICAL AND THE FINAL ORIENTATION OF THE EYEBOLT SHOULD HAVE THE DIAMETER OF THE EYE PERPENDICULAR TO THE LENGTH OF THE VEHICLE.
12. PALLETIZED AND/OR SKIDDED UNITS MUST NOT BE STACKED MORE THAN ONE HIGH. "LOOSE" ITEMS MAY BE POSITIONED ON TOP OF A PALLETIZED AND/OR SKIDDED UNIT AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES, BUT MUST NOT EXCEED THE LOAD HEIGHT OF THE VEHICLE BEING LOADED. "LOOSE" ITEMS MAY BE STACKED AND/OR BUINDED ON TOP OF SELF AND/OR OTHER ITEMS. STACKS MUST BE STABLE, SECURED TIGHTLY TO VEHICLE FLOOR, AND MUST NOT EXCEED THE LOAD HEIGHT OF THE VEHICLE BEING LOADED.
13. FOR ADDITIONAL GUIDANCE, SEE THE "SPECIAL NOTES" ON PAGES 6, 7, AND 42.

(CONTINUED AT RIGHT)

SPECIAL NOTES:**(SPECIAL NOTES CONTINUED)**

1. THE TYPICAL UNIT BASIC LOADS SHOWN WITHIN THIS DOCUMENT ARE BASED ON TESTED METHODS OF SECURING PALLETIZED UNITS AND/OR LOOSE CONVENTIONAL AMMUNITION ITEMS SUCH AS SEPARATE LOADING PROJECTILES, PROPELLING CHARGE CONTAINERS, AND WOODEN BOXES, IN/ON TACTICAL VEHICLES. THE PROCEDURES SHOWN CAN BE USED IN/ON CARGO TRUCKS, SUCH AS THE M54, 3-TON, AND CARGO TRAILERS, SUCH AS THE M108, 1-1/2-TON, HAVING TIEDOWN ANCHORS LOCATED IN THE SIDE WALLS AND END WALLS. ALSO, THE PROCEDURES SHOWN CAN BE USED ON SEMI-TRAILERS, SUCH AS THE M671, 22-1/2-TON, AND CARGO TRUCKS, SUCH AS THE M777, 10-TON, HEMTT, HAVING TIEDOWN ANCHORS LOCATED ON THE FLOOR. **NOTE:** IF LOADING A "HEMITT", ALSO SEE THE SPECIAL HEMTT LOADING SECTION ON PAGES 42 THRU 61.
2. THE TACTICAL VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY AND OTHER TYPES OF VEHICLES MAY BE USED IN LIEU OF THOSE SHOWN AS LONG AS THEY COMPLY WITH GENERAL NOTE "C" ON PAGE 2.
3. THE UNIT BASIC LOAD ITEMS SHOWN WERE SELECTED AS TYPICAL ONLY AND OTHER UNIT BASIC LOAD ITEMS MAY BE LOADED AND SECURED IN LIEU OF THOSE SHOWN AS LONG AS THE APPROVED PROCEDURES SHOWN WITHIN THIS DOCUMENT ARE FOLLOWED.
4. PRIOR TO LOADING A TACTICAL VEHICLE, SELECT THE QUANTITY AND TYPES OF ITEMS TO BE LOADED. **CAUTION:** DO NOT EXCEED THE OFF-HIGHWAY WEIGHT LIMIT OF THE VEHICLE. SELECT A LOCATION AGAINST AN END WALL OR ANYWHERE WITHIN THE LENGTH OF THE CARGO BED THAT WILL PROVIDE AN ADEQUATE QUANTITY OF TIEDOWN ANCHORS TO SECURE THE LOAD USING THE TIEDOWN PROCEDURES SHOWN WITHIN THIS DOCUMENT.
5. GUIDANCE FOR LOADING AND SECURING PALLETIZED UNITS OF PROPELLING CHARGE CONTAINERS, AND/OR WOODEN BOXES (PALLETIZED UNITS HAVING STEEL UNITIZING STRAPS)
 - A. EACH SINGLE PALLETIZED UNIT AND/OR TWO ADJACENT PALLETIZED UNITS POSITIONED ACROSS THE WIDTH OF THE VEHICLE, AS SHOWN ON PAGE 16, MUST BE SECURED WITH TWO STRAPS ATTACHED TO TIEDOWN ANCHORS ON ONE SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT (S), TO MATING TIEDOWN ANCHORS ON OPPOSITE SIDE OF VEHICLE. **NOTE:** DO NOT POSITION THESE STRAPS ACROSS LOAD ON LONGITUDINAL JOINTS BETWEEN PALLETIZED UNITS. IF THE TIEDOWN ANCHORS ON SIDE OF VEHICLE ARE TOO CLOSE TOGETHER, TOO FAR APART, OR ARE NOT IN A LOCATION WHICH WILL ALLOW ADEQUATE HOLD-DOWN OF PALLETIZED UNIT (S) WHEN STRAPS ARE POSITIONED STRAIGHT OVER TOP OF LOAD. THE TWO HOLD-DOWN STRAPS MAY BE CROSSED OVER THE TOP OF THE PALLETIZED UNIT (S), AS SHOWN IN THE LOAD ON PAGE 16.
 - B. ALL LOADS FROM ONE PALLETIZED UNIT TO A MAXIMUM LOAD OF PALLETIZED UNITS MUST BE SECURED LONGITUDINALLY WITH ONE STRAP AT EACH END, ATTACHED TO A TIEDOWN ANCHOR ON ONE SIDE OF THE VEHICLE AND POSITIONED AROUND THE END (S) OF THE PALLETIZED UNITS, TO A MATING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE, AS SHOWN IN THE LOAD ON PAGE 16. **NOTE:** IF THE LOAD IS POSITIONED AGAINST THE END WALL AS SHOWN ON PAGE 16, ONLY ONE LONGITUDINAL RETAINING STRAP IS REQUIRED AT THE OPPOSITE END. IF THERE IS NOT ENOUGH ROOM BETWEEN LOAD AND SIDE WALL OF VEHICLE FOR THE STRAP RATCHET, HOOK THE RATCHET ENDS OF TWO WEB STRAP TIEDOWN ASSEMBLIES TOGETHER. POSITION THE RATCHETS AT THE END OF THE LOAD AND ATTACH THE NON-RATCHET HOOK END OF EACH STRAP TO A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE. MAKE SURE THERE IS A MINIMUM OF ONE-AND-ONE-HALF WRAPS OF STRAP ON ONE RATCHET, THEN TAKE UP EXCESS STRAP IN REMAINING RATCHET AND RATCHET TIGHT. THIS METHOD REQUIRES TWO WEB STRAP TIEDOWN ASSEMBLIES IN LIEU OF ONE AT EACH LOCATION WHERE A LONGITUDINAL RETAINING STRAP IS REQUIRED. IF A LOAD OF PALLETIZED UNITS FILLS THE CARGO AREA OF A VEHICLE WITH ONLY SIX INCHES OR LESS SPACE REMAINING BETWEEN THE REAR OF THE LOAD AND THE REAR WALL OF THE VEHICLE, NO LONGITUDINAL RETAINING STRAP IS REQUIRED, UNLESS LOAD IS IN A HEMTT.
 - C. WHEN LOADING SEMITRAILERS POSITION THE PALLETIZED UNITS IN SUCH A MANNER THAT THE WEIGHT IS DISTRIBUTED ON THE "KING-PIN" AND/OR THE "REAR AXLES". DO NOT POSITION PALLETIZED UNITS WITHIN FIVE FEET OF THE AFT END OF THE SEMITRAILER, IF POSSIBLE, AS THIS IS THE ROUGHEST RIDING AREA ON THE SEMITRAILER DUE TO REAR DECK OVERHANG.
6. GUIDANCE FOR LOADING AND SECURING "LOOSE" PROPELLING CHARGE CONTAINERS. THE TERM "LOOSE" PROPELLING CHARGE CONTAINERS REFERS TO PROPELLING CHARGE CONTAINERS REMAINING AFTER THE STEEL UNITIZING STRAPS ON A PALLETIZED UNIT HAVE BEEN CUT AND THE PROPELLING CHARGE CONTAINERS REMOVED FROM THE PALLET BASE.
 - A. WHEN POSITIONING LOOSE CONTAINERS IN BUNDLES ON THE FLOOR OF THE VEHICLE, FOLLOW THE PROCEDURES SHOWN ON PAGES 12 AND 17. THE MAXIMUM QUANTITY OF CONTAINERS IN A BUNDLE IS THE QUANTITY THAT CAN BE ENCIRCLED BY THE UNITIZING STRAP AND RATCHETED TIGHT. EACH BUNDLE OF LOOSE CONTAINERS MUST BE UNITIZED WITH TWO STRAPS, AND SECURED WITH TWO STRAPS ATTACHED TO TIEDOWN ANCHORS ON ONE SIDE OF THE VEHICLE, OVER TOP OF BUNDLE, TO MATING TIEDOWN ANCHORS ON OPPOSITE SIDE OF THE VEHICLE. EACH BUNDLE MUST BE SECURED LONGITUDINALLY WITH ONE STRAP AT EACH END, ATTACHED TO A TIEDOWN ANCHOR ON ONE SIDE OF THE VEHICLE, AROUND THE END OF THE BUNDLE, TO A MATING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THE BUNDLE IS POSITIONED AGAINST THE END WALL OF THE VEHICLE, ONLY ONE LONGITUDINAL STRAP IS REQUIRED, AND IF THE BUNDLE IS POSITIONED BETWEEN, AND AGAINST, OTHER BUNDLES OF PROPELLING CHARGE CONTAINERS AND/OR PALLETIZED UNITS, NO LONGITUDINAL STRAPS ARE REQUIRED.
 - B. WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF PALLETIZED UNITS AS SHOWN ON PAGE 11, OR ON TOP OF PALLET BASES AS SHOWN ON PAGE 15, ASSURE THAT ALL LOOSE CONTAINERS ARE SECURED BY MANUALLY GUIDING CONTAINERS INTO A TIGHT CONFIGURATION AS THE TWO HOLD-DOWN STRAPS ARE BEING TIGHTENED. AFTER STRAPS HAVE BEEN RATCHETED TIGHT, CHECK BUNDLE TO MAKE SURE ALL LOOSE CONTAINERS ARE SECURED. **NOTE:** WHEN USING THIS METHOD, POSITION ONE THRU ONE FULL

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- C. WHEN POSSIBLE, POSITION ALL CONTAINERS OF THE SAME SIZE IN ONE BUNDLE. HOWEVER, LOOSE PROPELLING CHARGE CONTAINERS OF DIFFERENT LENGTHS AND DIAMETERS MAY BE MIXED WITHIN THE SAME BUNDLE, AS LONG AS THEY ARE POSITIONED IN SUCH A MANNER THAT ALL OF THE CONTAINERS WITHIN THE COMPLETED BUNDLE ARE HELD TIGHT. GENERALLY, IT IS BEST TO POSITION THE LARGER CONTAINERS ON THE BOTTOM AND THE SMALLER CONTAINERS ON THE TOP. SHORT CONTAINERS SHOULD BE CENTERED ON LONG CONTAINERS AND, WHEN POSSIBLE, POSITION IN SUCH A MANNER THAT THE ROLLING FLANGES AND BELL ENDS WILL "LOCK" IN ON OTHER CONTAINERS AND HELP SECURE THE BUNDLE. MAKE POSITION ADJUSTMENTS TO THE CONTAINERS AS THE UNITIZING STRAPS ARE BEING RATCHETED TIGHT. THE CONTAINERS WILL TEND TO SEEK THEIR OWN POSITION AS THE UNITIZING STRAPS ARE BEING TIGHTENED SO THE COMPLETED BUNDLE MAY NOT BE IN THE SAME CONFIGURATION AS IT WAS PRIOR TO RATCHETING THE UNITIZING STRAPS TIGHT, OR AS SHOWN WITHIN THIS DRAWING. **NOTE:** AFTER A BUNDLE OF MIXED PROPELLING CHARGE CONTAINERS HAS BEEN SECURED IT MAY BE POSSIBLE TO MANUALLY "WIGGLE" A CONTAINER WITHIN THE BUNDLE. THIS IS ACCEPTABLE AS LONG AS THE CONTAINER CANNOT BE MANUALLY PULLED OUT OF THE BUNDLE AND IT STAYS IN PLACE DURING TRANSPORT. FOR EXAMPLE OF MIXED CONTAINERS WITHIN THE SAME BUNDLE, SEE THE LOAD SHOWN ON PAGE 40.
2. GUIDANCE FOR LOADING AND SECURING "LOOSE" BOXED AMMUNITION. THE TERM "LOOSE" BOXES REFERS TO BOXES REMAINING AFTER THE STEEL UNITIZING STRAPS ON A PALLETIZED UNIT HAVE BEEN CUT AND THE BOXED AMMUNITION REMOVED FROM THE PALLET BASE.
 - A. EACH SINGLE LAYER ROW OF THREE OR MORE BOXES, POSITIONED ACROSS THE VEHICLE WIDTH, MUST BE UNITIZED WITH ONE STRAP WHEN THE LONGITUDINAL BOX DIMENSION IS 18" OR LESS AND TWO STRAPS WHEN THE LONGITUDINAL BOX DIMENSION IS GREATER THAN 18".
 - B. EACH STACK OF TWO OR MORE LAYERS OF BOXES, POSITIONED ACROSS THE VEHICLE WIDTH, MUST BE UNITIZED WITH ONE STRAP WHEN THE LONGITUDINAL BOX DIMENSION IS 18" OR LESS AND TWO STRAPS WHEN THE LONGITUDINAL BOX DIMENSION IS GREATER THAN 18". DO NOT STACK BOXES OVER 48" IN HEIGHT AS STACK MUST BE ENCIRCLED BY A WEB STRAP TIEDOWN ASSEMBLY.
 - C. EACH ROW/STACK OF BOXES POSITIONED ACROSS THE VEHICLE WIDTH MUST BE SECURED WITH ONE STRAP OVER THE TOP AND ATTACHED TO THE TIEDOWN ANCHORS ON EACH SIDE OF THE VEHICLE. THIS STRAP SHOULD BE POSITIONED STRAIGHT ACROSS THE TOP OF THE ROW/STACK WHEN POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF VEHICLE TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. THE DIAGONAL STRAP MUST BE POSITIONED IN SUCH A MANNER THAT IT WILL STAY IN PLACE DURING TRANSPORT. CLEATS ON THE TOP LAYER BOXES, WHEN PRESENT, MAY BE USED TO HOLD THE DIAGONAL STRAPS IN PLACE. ALSO, WHEN THE TOP LAYER BOXES HAVE CLEATS, THIS STRAP CAN SOMETIMES BE POSITIONED AT AN ANGLE FROM THE TIEDOWN ANCHOR ON SIDE OF VEHICLE UP AND BEHIND THE BOX CLEATS, ACROSS THE TOP OF THE STACK AND BACK DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE.
 - D. WHEN LOADING LOOSE WOODEN BOXES IN/ON VEHICLES HAVING SIDE WALLS AND END WALLS, ALWAYS POSITION THE LOAD AGAINST THE FORWARD END WALL WHEN POSSIBLE, AND POSITION ONE STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THE LOAD IS POSITIONED AGAINST THE REAR END WALL, FOLLOW THESE SAME PROCEDURES. IF THE LOAD IS POSITIONED AWAY FROM THE END WALLS OR IN/ON A VEHICLE THAT DOES NOT HAVE END WALLS, POSITION ONE STRAP AT EACH END OF THE LOAD, FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. **NOTE:** WOODEN BOXES MUST NOT BE POSITIONED AGAINST THE END WALLS AND/OR SIDE WALLS IN/ON THE HEMTT.
 - E. WHEN STACKS OF LOOSE BOXES ARE POSITIONED AWAY FROM THE FORWARD END WALL OR IN/ON A VEHICLE NOT HAVING END WALLS, THE FOREMOST STACKS MUST BE UNITIZED IN A LONGITUDINAL DIRECTION TO PREVENT THE LOOSE BOXES FROM SLIDING FORWARD AND/OR OUT OF THE STACK, DURING A PANIC STOP. SEE THE HEMTT LOAD ON PAGE 57 FOR EXAMPLE.
 - F. WHEN POSSIBLE A ROW/STACK OF BOXES POSITIONED ACROSS THE VEHICLE WIDTH SHOULD BE ALL THE SAME SIZE. HOWEVER, IF BOXES OF DIFFERENT SIZES ARE BEING POSITIONED IN THE SAME ROW/STACK ACROSS THE WIDTH OF THE VEHICLE, POSITION THE HIGHER BOXES IN THE CENTER OF THE ROW. THE HOLD-DOWN STRAP POSITIONED ACROSS THE TOP OF THE ROW/STACK MUST CONTACT THE HIGH BOXES AT THE CENTER OF THE ROW/STACK AND THE CORNER OF THE LOW BOXES AT EACH END OF THE ROW/STACK.
 - G. WHEN POSITIONING LOOSE BOXES IN A ROW/STACK, AND/OR LOAD, THEY MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER LATERALLY AND LONGITUDINALLY PRIOR TO RATCHETING THE UNITIZING STRAP (S) AND/OR THE HOLD-DOWN STRAPS TIGHT. DO NOT LEAVE SMALL LONGITUDINAL SPACES BETWEEN ROWS/STACKS WHEN LOADING BOXES.
 - H. LOOSE WOODEN BOXES MAY BE POSITIONED ON TOP OF A PALLETIZED UNIT OF WOODEN BOXES AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES AS SHOWN IN THE LOAD ON PAGE 10.

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(SPECIAL NOTES CONTINUED)

(SPECIAL NOTES CONTINUED)

- J. WHEN LOADING LOOSE BOXES AND PALLETIZED UNITS ON THE SAME VEHICLE, IT MAY BE ADVANTAGEOUS TO POSITION THE LOOSE BOXES BEHIND AND AGAINST THE PALLETIZED UNIT.
- K. STACKS OF LOOSE BOXES SHOULD BE STABLE, AND OF A LENGTH AND HEIGHT THAT WILL ALLOW THE STACK TO BE ENGAGED BY ONE WEB STRAP TIEDOWN ASSEMBLY. IF IT IS NECESSARY TO FABRICATE A LARGER STACK, TWO WEB STRAP TIEDOWN ASSEMBLIES MAY BE HOOKED TOGETHER TO GAIN THE NECESSARY LENGTH. POSITION HOOKS AND BATCHETS AT ENDS OR ON TOP OF THE STACK. SEE GENERAL NOTE "P" ON PAGE 2.
- B. GUIDANCE FOR LOADING AND SECURING PALLETIZED 155MM AND/OR 8-INCH SEPARATE LOADING PROJECTILES: (PALLETIZED UNITS HAVE STEEL UNITIZING STRAPS):
 - A. EACH SINGLE PALLETIZED UNIT AND/OR EACH ROW OF PALLETIZED UNITS POSITIONED ACROSS THE WIDTH OF THE VEHICLE AS SHOWN ON PAGE 16, MUST BE SECURED WITH TWO STRAPS ATTACHED TO TIEDOWN ANCHORS ON ONE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT (S) IN ROW, TO MATING TIEDOWN ANCHORS ON THE OPPOSITE SIDE OF THE VEHICLE. THESE TWO STRAPS MUST ALWAYS BE POSITIONED BETWEEN THE OUTERMOST LIFTING RINGS, AS SHOWN IN THE LOAD ON PAGE 16. DO NOT POSITION THESE STRAPS ACROSS LOAD ON LONGITUDINAL JOINTS BETWEEN THE PALLETIZED UNITS.
 - B. ALL LOADS FROM ONE PALLETIZED UNIT TO A MAXIMUM LOAD OF PALLETIZED UNITS MUST BE SECURED LONGITUDINALLY WITH ONE STRAP AT EACH END, ATTACHED TO A TIEDOWN ANCHOR ON ONE SIDE OF THE VEHICLE AND POSITIONED AROUND THE END OF THE PALLETIZED UNIT/LOAD, ON TOP OF THE BASE ASSEMBLY AND TIGHT AGAINST THE BASE OF THE PROJECTILES, TO A MATING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE, AS SHOWN IN THE LOAD ON PAGE 36. ON SOME PALLETIZED UNITS, SUCH AS THE 8", THIS STRAP MUST BE POSITIONED BETWEEN THE STEEL UNITIZING STRAPS AND THE PROJECTILES TO AVOID DAMAGING THE WEB STRAP TIEDOWN ASSEMBLY. NOTE: IF THE PALLETIZED UNIT, OR LOAD, IS POSITIONED AGAINST AN END WALL, AS SHOWN IN THE LOAD ON PAGE 36, ONLY ONE LONGITUDINAL STRAP IS REQUIRED.
 - C. WHEN LOADING SEMITRAILERS POSITION THE PALLETIZED UNITS IN SUCH A MANNER THAT THE WEIGHT IS DISTRIBUTED ON THE "KING-PIN" AND/OR THE "REAR AXLES". DO NOT POSITION PALLETIZED UNITS WITHIN FIVE FEET OF THE AFT END OF THE SEMITRAILER, IF POSSIBLE, AS THIS IS THE ROUGHEST RIDING AREA ON THE SEMITRAILER DUE TO REAR DECK OVERHANG.
 - D. IF A PALLETIZED UNIT AND/OR A ROW OF PALLETIZED UNITS, POSITIONED ACROSS THE VEHICLE WIDTH, IS NOT IN LATERAL ALIGNMENT WITH TIEDOWN ANCHORS ON SIDE OF VEHICLE, THE TWO HOLD-DOWN STRAPS MAY BE CROSSED OVER THE TOP OF THE PALLETIZED UNIT AND/OR ROW OF PALLETIZED UNITS, AS SHOWN IN THE LOAD ON PAGE 50, OR POSITIONED AT AN ANGLE AS SHOWN IN THE LOAD ON PAGE 40.
 - E. IN ORDER TO ACHIEVE A MAXIMUM LOAD, IT MAY BE NECESSARY TO POSITION SOME PALLETIZED UNITS WITH THE LENGTH ACROSS THE VEHICLE WIDTH, AND THE WIDTH ACROSS THE VEHICLE WIDTH, WITHIN THE SAME ROW, AS SHOWN IN THE LOAD ON PAGE 44. IT MAY BE NECESSARY TO UNITIZE THE PALLETIZED UNITS TOGETHER WITH WEB STRAPS TO HELP SECURE THE LOAD, AS SHOWN IN THE LOAD ON PAGE 44.
- 9. GUIDANCE FOR LOADING AND SECURING "LOOSE" 155MM, AND/OR 8-INCH SEPARATE LOADING PROJECTILES. THE TERM "LOOSE" PROJECTILES REFERS TO PROJECTILES REMAINING AFTER THE STEEL UNITIZING STRAPS ON A PALLETIZED UNIT HAVE BEEN CUT AND THE PROJECTILES REMOVED FROM THE PALLET BASE AND COVER ASSEMBLY. SEE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" NOTE 10 ON PAGE 5.
 - A. EACH RE-ASSEMBLED PALLETIZED UNIT (S) POSITIONED ACROSS THE WIDTH OF THE VEHICLE, AS SHOWN IN THE LOAD ON PAGE 17, MUST BE SECURED WITH TWO STRAPS ATTACHED TO TIEDOWN ANCHORS ON ONE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT (S) IN ROW, TO MATING TIEDOWN ANCHORS ON THE OPPOSITE SIDE OF THE VEHICLE. FOR RE-ASSEMBLED PALLETIZED UNITS HAVING LESS THAN EIGHT 155MM OR SIX 8", USE THE PROCEDURES SHOWN ON PAGES 14 AND 17. DO NOT POSITION MORE THAN TWO RE-ASSEMBLED PALLETIZED UNITS ACROSS THE VEHICLE WIDTH.
 - B. EACH RE-ASSEMBLED PALLETIZED UNIT (S), POSITIONED ACROSS THE WIDTH OF THE VEHICLE, AS SHOWN IN THE LOAD ON PAGE 14, MUST BE SECURED LONGITUDINALLY WITH ONE STRAP AT EACH END, ATTACHED TO A TIEDOWN ANCHOR ON ONE SIDE OF THE VEHICLE AND POSITIONED AROUND THE PALLET SKID, TO A MATING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE, AS SHOWN IN THE LOAD ON PAGE 14. DO NOT POSITION THE STRAPS UP ON THE PALLET BASE AND AGAINST THE PROJECTILE AS SHOWN FOR THE PALLETIZED UNITS THAT ARE UNITIZED WITH STEEL STRAPS AS THE WEB STRAPS WILL FORCE THE PROJECTILES OUT OF THE SECUREMENT WELLS IN THE PALLET BASE ASSEMBLY.
 - C. WHEN LOADING ONE, TWO, OR THREE LOOSE PROJECTILES, AS SHOWN IN THE LOAD ON PAGE 15, DO NOT POSITION THE LOAD AGAINST THE TAILGATE AS THIS COULD CAUSE INJURY TO PERSONNEL AND DAMAGE TO VEHICLE AND/OR PROJECTILES WHEN TAILGATE IS LOOSE, OR IF TAILGATE SHOULD COME LOOSE DURING TRANSIT.
 - D. WHEN LOADING THREE LOOSE PROJECTILES, AS SHOWN IN THE LOAD ON PAGE 14, ASSURE THAT THE PROJECTILES REMAIN VERTICAL AND THE SKIDS ON THE PALLET BASE REMAIN FLAT AGAINST THE VEHICLE FLOOR WHILE TIGHTENING THE WEB STRAP TIEDOWN ASSEMBLIES.

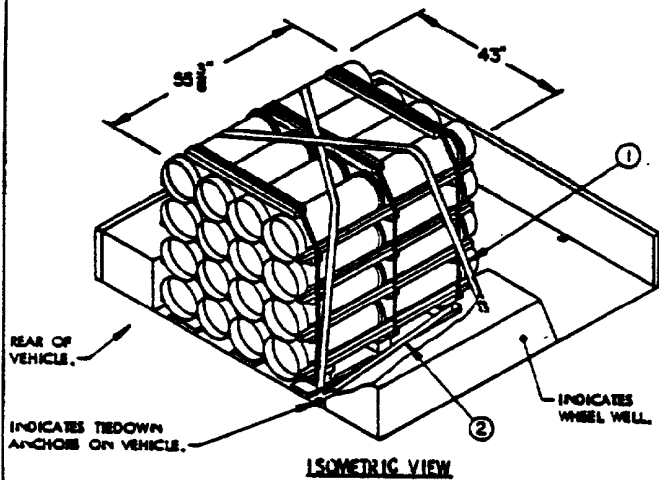
(CONTINUED AT RIGHT)

- 10. THE M871 SEMITRAILER IS EQUIPPED WITH THREE DIFFERENT TYPES OF TIEDOWN FITTINGS AS INDICATED ON PAGE 40. TYPE I IS A REMOVABLE TIEDOWN FITTING THAT HAS ONE RING AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE TRAILER, INSERTING THE TIEDOWN FITTING UP THROUGH THE HOLE AND ROTATING IT INTO POSITION (NOTE THAT THIS REMOVABLE TIEDOWN FITTING IS ALSO USED ON THE M872 SEMITRAILER). THERE ARE TEN LOCATIONS FOR THESE TIEDOWN FITTINGS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE II IS A REMOVABLE TIEDOWN FITTING THAT HAS TWO RINGS AND IS POSITIONED BY DEPRESSING A SPRING LOCK LEVER AND INSERTING THE TIEDOWN FITTING INTO A 1-3/4" DIAMETER HOLE FROM THE TOP. ASSURE THAT THE TIEDOWN FITTING IS FIRMLY SEATED AND ROTATED SO THE SPRING LOCK LEVER IS POINTING AWAY FROM THE DIRECTION OF PULL ON THE ATTACHED WEB STRAP TIEDOWN ASSEMBLY. THERE ARE TEN LOCATIONS FOR THESE TIEDOWN FITTINGS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE III IS A FIXED TIEDOWN FITTING THAT HAS ONE RING AND IS RECESSED INTO THE FLOOR. THERE ARE FIVE OF THESE TIEDOWN FITTINGS ON EACH SIDE OF THE M871 SEMITRAILER. NO TYPE I TIEDOWN FITTINGS ARE REQUIRED FOR THE LOADS SHOWN ON PAGE 40. HOWEVER, TYPE I TIEDOWN FITTINGS MAY BE USED, IF AVAILABLE, WHEN THERE IS AN INSUFFICIENT QUANTITY OF TYPE II TIEDOWN FITTINGS TO SECURE THE LOAD. SEE "TIEDOWN ANCHOR DETAILS" ON PAGE 42.
- 11. THE M872 SEMITRAILER IS EQUIPPED WITH TWO DIFFERENT TYPES OF TIEDOWN FITTINGS. TYPE I IS A REMOVABLE TIEDOWN FITTING THAT HAS ONE RING AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE TRAILER, INSERTING THE TIEDOWN FITTING UP THROUGH THE HOLE AND ROTATING IT INTO POSITION (NOTE THAT THIS REMOVABLE TIEDOWN FITTING MAY ALSO BE USED ON THE M871 SEMITRAILER). THERE ARE TWENTY-EIGHT LOCATIONS FOR THESE TIEDOWN FITTINGS ON EACH SIDE OF THE M872 SEMITRAILER. HOWEVER, THE QUANTITY AND LOCATION MAY VARY ON SOME M872 SEMITRAILERS. THE SECOND TYPE OF TIEDOWN FITTING IS THE "TEE-HOOK". THIS IS A REMOVABLE TIEDOWN FITTING EQUIPPED WITH ONE ELONGATED RING AND IS POSITIONED BY INSERTING IT INTO ONE OF THE ELONGATED SLOTTED HOLES WHICH ARE AT A 45° ANGLE TO THE SIDE OF THE TRAILER. THERE ARE FIVE LOCATIONS FOR THESE TIEDOWN FITTINGS ON EACH SIDE OF THE M872 SEMITRAILER. HOWEVER, THE QUANTITY AND LOCATION MAY VARY ON SOME M872 SEMITRAILERS. ASSURE THAT THE TIEDOWN FITTING IS FIRMLY SEATED AND ROTATED APPROXIMATELY 45° TO ENGAGED POSITION BEFORE ATTACHING THE WEB STRAP TIEDOWN ASSEMBLY. SEE "TIEDOWN ANCHOR DETAILS" ON PAGE 42.
- 12. IF A SEMITRAILER, STAKE, 12-TON, M127, IS TO BE USED AND IT IS NOT EQUIPPED WITH TIEDOWN ANCHORS, SEE GENERAL NOTE "C" ON PAGE 2 AND "NOTE 6" ON PAGE 42.
- 13. UNITIZATION OF UNIT BASIC LOAD ITEMS:

IT MAY BE ADVANTAGEOUS FOR INSTALLATIONS HAVING UNIT BASIC LOADS CONSISTING OF LARGE QUANTITIES OF "LOOSE" WOODEN BOXES, "LOOSE" PROPELLING CHARGE CONTAINERS, AND "LOOSE" COMPLETE ROUND CONTAINERS. TO UNITIZE THESE ITEMS ON PALLETS AND/OR SKIDDED UNIT BASES AS INSTRUCTED IN THE FOLLOWING AMC DRAWINGS:

- A. UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COMPONENTS ON 4-WAY ENTRY PALLETS: AMC DRAWING 19-48-4116-20PA1002.
- B. UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COMPONENTS ON SKIDDED UNITS: AMC DRAWING 19-48-4138-20PA1000.
- C. UNITIZATION PROCEDURES FOR PROPELLING CHARGES PACKED IN CYLINDRICAL METAL CONTAINERS ON 4-WAY ENTRY PALLETS: AMC DRAWING 19-48-4042-20PM1001.
- D. UNITIZATION PROCEDURES FOR COMPLETE ROUNDS PACKED IN CYLINDRICAL METAL CONTAINERS ON 4-WAY ENTRY PALLETS: AMC DRAWING 19-48-4079-20PM1002.

UNITIZATION OF NUMEROUS UNIT BASIC LOAD ITEMS WOULD REDUCE CARGO AREA REQUIRED IN VEHICLES, QUANTITY OF VEHICLES REQUIRED, LOADING AND TIEDOWN TIME, QUANTITY OF WEB STRAP TIEDOWN ASSEMBLIES REQUIRED, AND STORAGE AREA REQUIRED. FOR EXAMPLE: THE UNIT BASIC LOAD SHOWN ON THE M871 SEMITRAILER ON PAGE 40 CONSISTS OF FOURTEEN PALLETS OF 8-INCH PROJECTILES, TWENTY LOOSE P666 PC CONTAINERS, SIXTY-FOUR LOOSE M19A2 PC CONTAINERS, SIXTY-TWO LOOSE BOXES OF 7.62 MM CARTRIDGES, AND SEVEN LOOSE BOXES OF M577 FUZE. IF LOOSE ITEMS WERE PALLETIZED THE UNIT BASIC LOAD WOULD CONSIST OF FOURTEEN PALLETS OF 8-INCH PROJECTILES, TWO PALLETS OF TEN P666 PC CONTAINERS, FOUR PALLETS OF SIXTEEN M19A2 PC CONTAINERS, ONE PALLET OF THIRTY-SIX BOXES OF 7.62MM, AND ONE PALLET OF TWENTY-FOUR BOXES OF 7.62MM WITH REMAINING TWO BOXES OF 7.62MM AND SEVEN BOXES OF M577 FUZE STRAPPED ON TOP. ALL PALLETS COULD BE BUTTED TOGETHER AND THE PALLETIZED UNIT BASIC LOAD COULD BE SECURED TO THE M871 SEMI TRAILER WITH TWENTY-EIGHT WEB STRAPS IN LIEU OF THIRTY-SEVEN WEB STRAPS.



KEY NUMBERS

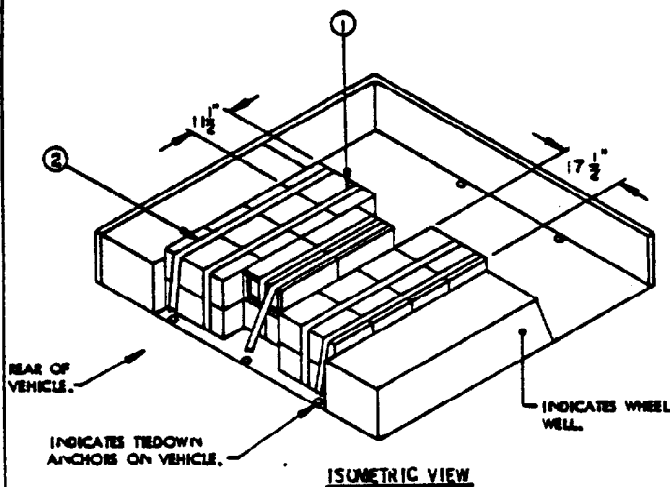
- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNIT, AS SHOWN. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOADING GUIDANCE NOTES:

- 1. A PARTIAL UNIT BASIC LOAD OF ONE PALLETIZED UNIT OF PROPELLING CHARGE CONTAINERS IS SHOWN IN A TRUCK, HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV), 1-1/4-TON, M998, HAVING INSIDE DIMENSIONS OF 83-1/4" LONG BY 84" WIDE. CAUTION: SEE LOADING, TIEDOWN, AND UNLOADING PROCEDURES, NOTE 11, ON PAGE 5.
- 2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
- 3. ONE PALLETIZED UNIT OF 8" PROPELLING CHARGES, PACKED IN THE M10 SERIES CONTAINER, HAVING DIMENSIONS OF 55-1/8" WIDE BY 45" LONG BY 49" HIGH, AND WEIGHING 2,127 POUNDS, IS SHOWN. IF LOADING PALLETIZED UNITS OF OTHER ITEMS AND DIMENSIONS, FOLLOW THESE SAME PROCEDURES. POSITION PALLETIZED UNIT TIGHT AGAINST TAIL GATE. SEE SPECIAL NOTE 5 ON PAGE 6.
- 4. A TOTAL OF THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED UNIT	1	2,127 LBS (APPROX)



KEY NUMBERS

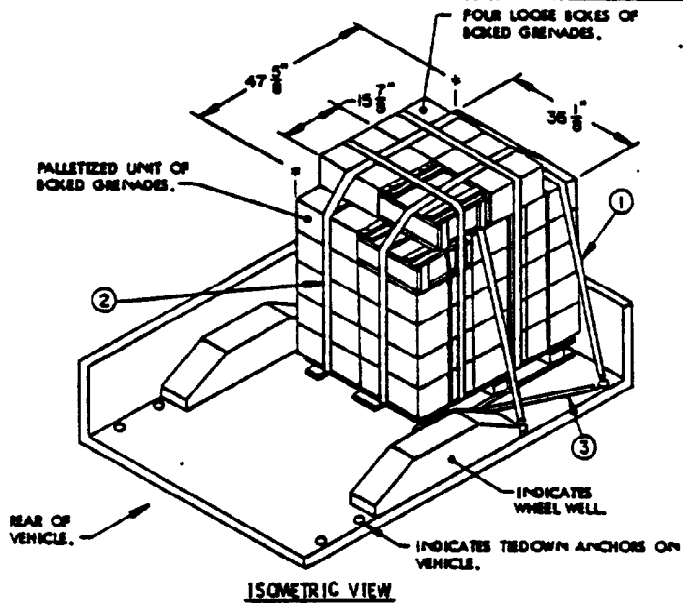
- ① WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH ROW OF LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "P" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH ROW OF LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE END OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR IN THE CENTER OF THE VEHICLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M" ON PAGE 2.

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN IN A TRUCK, HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV), 1-1/4-TON, M998, HAVING INSIDE DIMENSIONS OF 83-1/4" LONG BY 84" WIDE. CAUTION: SEE LOADING, TIEDOWN, AND UNLOADING PROCEDURES, NOTE 11 ON PAGE 5.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT METHODS OF SECURING LOOSE BOXES IN ON TACTICAL VEHICLES. TWENTY BOXES OF 7.62MM, A131, HAVING DIMENSIONS OF 17-1/2" LONG BY 11-1/2" WIDE BY 8-1/8" HIGH AND WEIGHING 81 POUNDS, ARE SHOWN. CENTER BOXES LONGITUDINALLY BETWEEN TIEDOWN ANCHORS BEING USED. SEE SPECIAL NOTE 7 ON PAGE 6.
4. A TOTAL OF SIX WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
5. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
7.62MM	20 BOXES	1,620 LBS (APPROX)



ISOMETRIC VIEW

KEY NUMBERS

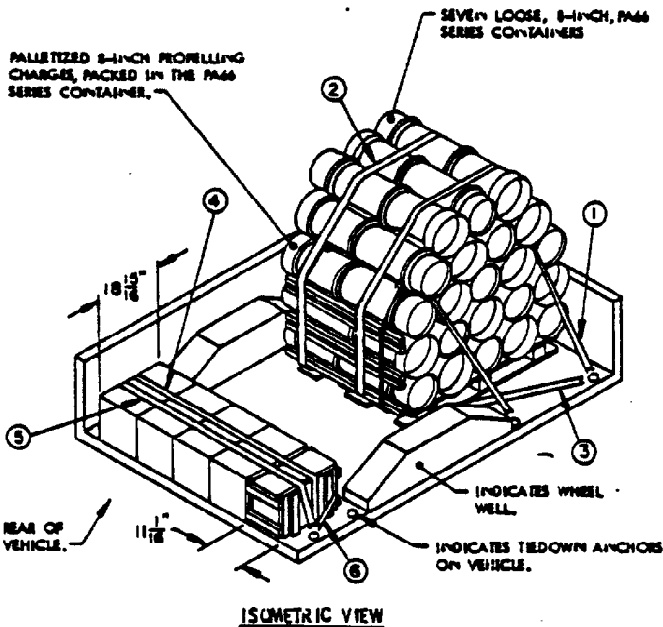
- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETTIZED UNIT, UNDER ALL LOOSE BOXES POSITIONED ON TOP OF THE PALLETTIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (AS REQUIRED TO SECURE LOOSE BOXES ON TOP OF A PALLETTIZED UNIT). INSTALL EACH STRAP TO ENCIRCLE PALLETTIZED UNIT AND LOOSE BOXES POSITIONED ON TOP OF THE PALLETTIZED UNIT. PRIOR TO POSITIONING LOOSE BOXES ON THE PALLETTIZED UNIT, THREAD STRAPS MARKED ② UNDER THE TOP DECK OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE BOXES ON TOP OF THE PALLETTIZED UNIT. BRING ENDS OF STRAPS UP OVER TOP OF LOOSE BOXES AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETTIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M" ON PAGE 2.

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD DEPICTING SECUREMENT OF LOOSE BOXES ON TOP OF A PALLETTIZED UNIT IS SHOWN IN A TRUCK, COMMERCIAL UTILITY CARGO VEHICLE (CUCV), 1-1/4-TON, M1008, HAVING INSIDE DIMENSIONS OF 99" LONG BY 45" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE BOXES ON TOP OF A PALLETTIZED UNIT WHICH IS SECURED TO THE VEHICLE. HOLD-DOWN STRAPS MARKED ① ARE POSITIONED OVER TOP OF PALLETTIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE BOXES ON TOP OF THE PALLETTIZED UNIT. SEE KEY NUMBERS ① AND ② ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE BOXES ON TOP OF PALLETTIZED UNITS. FOR ALTERNATIVE METHODS OF SECURING LOOSE BOXES, SEE PAGE 13. SEE SPECIAL NOTE 7 ON PAGE 4.
4. THE PROCEDURES SHOWN ABOVE DEPICT ONE PALLETTIZED UNIT OF BOXED GRENADES, GBTS, HAVING DIMENSIONS OF 47-3/8" WIDE BY 36-1/8" LONG BY 49-3/4" HIGH AND WEIGHING 2,111 POUNDS, WITH FOUR LOOSE BOXES OF GRENADES HAVING DIMENSIONS OF 18-1/16" X 15-7/8" X 8-27/32" AND WEIGHING 48 POUNDS EACH, SECURED ON TOP. IF LOADING PALLETTIZED UNITS AND LOOSE BOXES OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES. POSITION PALLETTIZED UNIT TIGHT AGAINST THE END WALL. IF PALLETTIZED UNIT IS POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED.
5. THE QUANTITY OF LOOSE BOXES THAT CAN BE SECURED ON TOP OF A PALLETTIZED UNIT MAY BE ONE BOX UP TO ONE FULL LAYER. ALL LOOSE BOXES POSITIONED ON TOP OF A PALLETTIZED UNIT MUST BE SECURED VERTICALLY, Laterally, AND LONGITUDINALLY WITH WEB STRAP TIEDOWN ASSEMBLIES.
6. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLETTIZED UNIT	1	2,111 LBS
GRENADES	4 BOXES	272 LBS
TOTAL WEIGHT		2,383 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

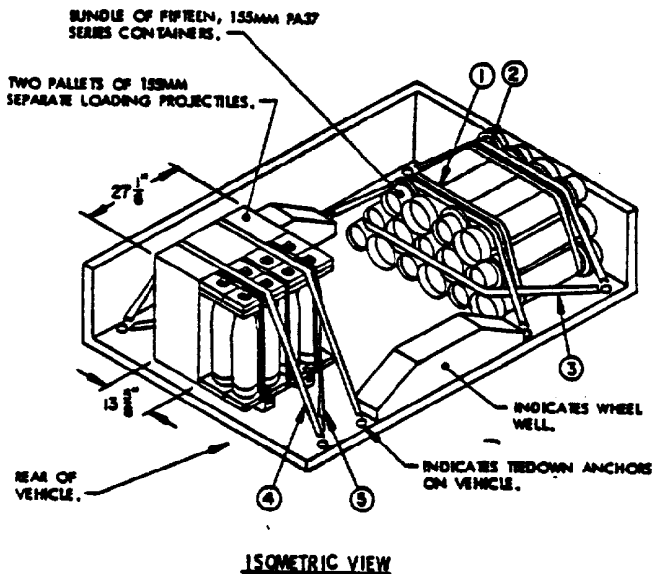
1. A PARTIAL UNIT BASIC LOAD DEPICTING A METHOD FOR SECURING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETTIZED UNIT IS SHOWN IN A TRUCK, COMMERCIAL UTILITY CARGO VEHICLE (CUCV), 1-1/4-TON, M1008, HAVING INSIDE DIMENSIONS OF 78" LONG BY 48" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON TOP OF PALLETTIZED UNITS WHICH ARE SECURED TO THE VEHICLE. HOLD-DOWN STRAPS MARKED ① ARE POSITIONED OVER TOP OF THE PALLETTIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETTIZED UNIT. SEE KEY NUMBERS ① AND ② ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF PALLETTIZED UNITS. FOR ALTERNATIVE METHODS OF SECURING LOOSE PROPELLING CHARGE CONTAINERS, USE THE PROCEDURES SHOWN ON PAGE 12.
4. THE PROCEDURES SHOWN ABOVE DEPICT ONE PALLETTIZED UNIT OF 8-INCH PROPELLING CHARGES PACKED IN THE P466 SERIES CONTAINER. THE PALLETTIZED UNIT DIMENSIONS ARE 50-1/2" WIDE BY 37-3/4" LONG BY 35-3/8" HIGH AND THE WEIGHT IS 1,275 POUNDS. THERE ARE SEVEN LOOSE P466 PROPELLING CHARGE CONTAINERS SECURED ON TOP OF THE PALLETTIZED UNIT. ALSO, FIVE LOOSE BOXES OF HAND GRENADES, G881, HAVING DIMENSIONS OF 18-13/16" X 11-1/4" X 11-1/16" AND WEIGHING 51 POUNDS EACH ARE SECURED AT THE REAR OF THE VEHICLE. SEE SPECIAL NOTES 5, 6, AND 7, ON PAGE 6.
5. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A PALLETTIZED UNIT MUST FORM A TIGHT BUNDLE AFTER STRAPS MARKED ② ARE RATCHETED TIGHT. IF CONTAINERS DO NOT FORM A TIGHT BUNDLE, OR IF CONTAINERS OF DIFFERENT SIZES ARE BEING POSITIONED ON TOP OF THE SAME PALLETTIZED UNIT, TWO ADDITIONAL WEB STRAP ASSEMBLIES WHICH ENIRCLE ALL LOOSE CONTAINERS WITHIN THE BUNDLE, ARE REQUIRED. SEE KEY NUMBER ① ON PAGE 12 FOR ADDITIONAL GUIDANCE.
6. WHEN LOADING THE VEHICLE POSITION THE PALLETTIZED UNIT AND THE LOOSE BOXES TIGHT AGAINST THE END WALLS. IF THE PALLETTIZED UNIT AND/OR LOOSE BOXES ARE POSITIONED AWAY FROM AN END WALL ONE ADDITIONAL WEB STRAP MARKED ③ AND ④ IS REQUIRED.
7. A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETTIZED UNIT, UNDER ALL LOOSE PROPELLING CHARGE CONTAINERS WHICH ARE POSITIONED ON TOP OF THE PALLETTIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. NOTE: STRAPS MARKED ① MUST BE INSTALLED OVER TOP OF THE PALLETTIZED UNIT PRIOR TO POSITIONING THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETTIZED UNIT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "P", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETTIZED UNIT). INSTALL EACH STRAP TO ENIRCLE PALLETTIZED UNIT AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON TOP OF THE PALLETTIZED UNIT. PRIOR TO POSITIONING LOOSE CONTAINERS ON TOP OF THE PALLETTIZED UNIT, THREAD STRAPS MARKED ② UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETTIZED UNIT, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ② SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE LOOSE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON TOP OF THE PALLETTIZED UNIT. THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, IF SO, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "P" AND "G" ON PAGE 2, AND LOAD GUIDANCE NOTE 3 ON THIS PAGE.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE AROUND END OF PALLETTIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING TWO OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. BRING ENDS OF STRAP UP OVER TOP OF ROW, HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE ROW. SEE GENERAL NOTES "P" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE OVER TOP OF EACH ROW, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW. IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M", ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ③, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ③ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "P", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PROP CHARGES	22	1,814 LBS
GRENADES	5 BOXES	255 LBS
TOTAL WEIGHT		2,069 LBS



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF PALLETIZED 155MM PROJECTILES AND LOOSE PROPELLING CHARGE CONTAINERS IS SHOWN IN A TRUCK, COMMERCIAL UTILITY CARGO VEHICLE (CUCV), 1-1/4-TON, M1008, HAVING INSIDE DIMENSIONS OF 98" LONG BY 65" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF ONE BUNDLE OF FIFTEEN LOOSE, 155MM, PA37 SERIES CONTAINERS, HAVING DIMENSIONS OF 33-3/4" LONG BY 8-13/32" DIAMETER AND WEIGHING 55 POUNDS EACH, AND TWO PALLETIZED UNITS OF 155MM PROJECTILES HAVING DIMENSIONS OF 13-5/8" LONG BY 27-1/8" WIDE BY 32" HIGH AND WEIGHING 777 POUNDS EACH. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS AND/OR PALLETIZED UNITS OF SEPARATE LOADING PROJECTILES, OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 6 AND 8 ON PAGES 6 AND 7.
4. WHEN LOADING THE VEHICLE POSITION THE 155MM PALLETES TIGHT AGAINST THE END WALL AND EACH OTHER. POSITION THE PROPELLING CHARGE CONTAINERS TIGHT AGAINST THE END WALL. IF THE PALLETIZED UNITS AND/OR LOOSE PROPELLING CHARGE CONTAINERS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ③ AND ⑤ IS REQUIRED.
5. A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

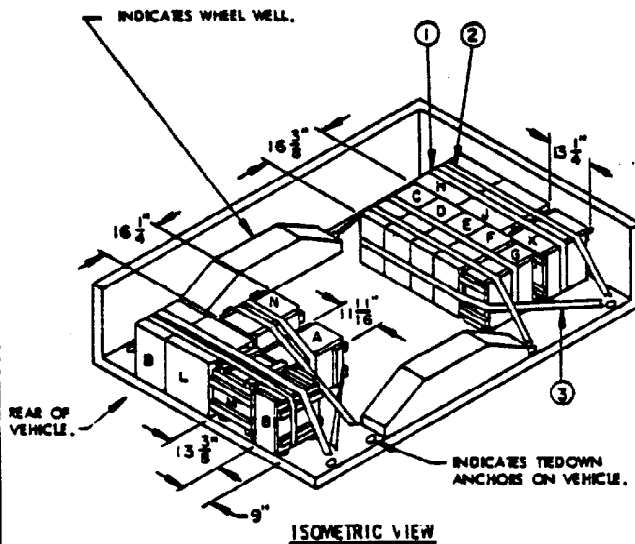
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. **NOTE:** AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ③ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ② TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ② AT THE SAME TIME. **NOTE:** THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS; TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNIT ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ④, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ④ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 155MM	2	1,594 LBS
PROP CHARGES	15	825 LBS
TOTAL WEIGHT		2,419 LBS (APPROX)

KEY NUMBERS



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

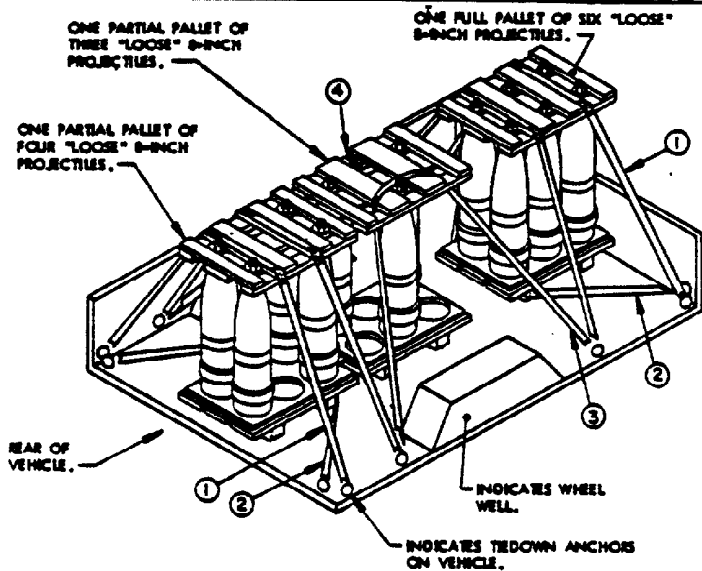
1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN IN A TRUCK, COMMERCIAL UTILITY CARGO VEHICLE (CUCV), 1-1/4-TON, M1008, HAVING INSIDE DIMENSIONS OF 98" LONG BY 65" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
4. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND LATERALLY. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (S) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. POSITION THE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER. IF THE BOXES ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL WEB STRAP MARKED ③ IS REQUIRED.
5. A TOTAL OF TEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING TWO OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. BRING ENDS OF STRAP UP OVER TOP OF BOXES, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW, IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (ONE REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ② ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

PARTIAL UNIT BASIC LOAD SHOWN					
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES
A	GRENADA, HD, FRAG, M67	G881	18-15/16" X 11-1/4" X 11-1/16"	51	1
B	GRENADA, HD, INCEN, AN/M14	G900	14-1/2" X 13" X 9"	43	2
C	GRENADA, HD, SMK, AN/M6	G930	16-3/8" X 13-3/8" X 7-5/8"	42	1
D	GRENADA, HD, GREEN, M18	G940	16-3/8" X 13-3/8" X 7-5/8"	42	1
E	GRENADA, HD, YELLOW, M18	G945	16-3/8" X 13-3/8" X 7-5/8"	42	1
F	GRENADA, HD, RED, M18	G990	16-3/8" X 13-3/8" X 7-5/8"	42	1
G	GRENADA, HD, VIOLET, M18	G955	16-3/8" X 13-3/8" X 7-5/8"	42	1
H	SIG, RED STAR, M158A1	L306	14-7/8" X 13-3/8" X 13-1/4"	55	1
J	SIG, WHITE STAR, M159	L307	14-7/8" X 13-3/8" X 13-1/4"	55	1
K	SIG, RED STAR, M127A1	L311	14-7/8" X 13-3/8" X 13-1/4"	55	1
L	SIG, WHITE STAR, M127A1	L312	14-7/8" X 13-3/8" X 13-1/4"	55	1
M	SIG, GREEN STAR, M125	L314	14-7/8" X 13-3/8" X 13-1/4"	55	1
N	FLARE, SUR, TRIP, M49A1	L495	16-1/4" X 15" X 12-1/2"	47	1

LOAD AS SHOWN

ITEM QUANTITY WEIGHT (APPROX)
 BOXES 14 779 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

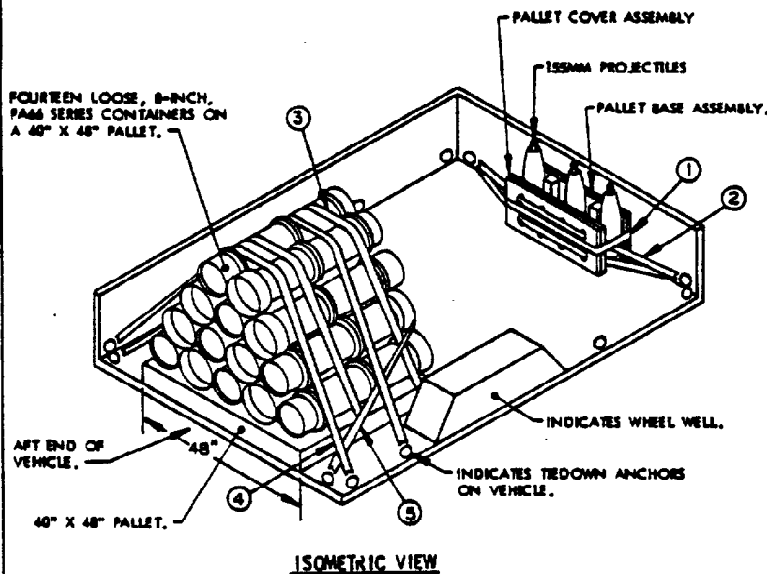
1. A PARTIAL UNIT BASIC LOAD OF LOOSE, RE-ASSEMBLED, PALLETIZED, 8-INCH SEPARATE LOADING PROJECTILES, IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 118" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF "LOOSE" 8-INCH SEPARATE LOADING PROJECTILES THAT HAVE BEEN RE-ASSEMBLED ON PALLETS. ONE FULL PALLET OF SIX PROJECTILES, ONE PARTIAL PALLET OF FOUR PROJECTILES, AND ONE PARTIAL PALLET OF THREE PROJECTILES IS SHOWN. POSITION THE END PALLETS TIGHT AGAINST AN END WALL. IF THE PALLETS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ② IS REQUIRED FOR EACH PALLET. STRAPS MARKED ② ARE NOT REQUIRED FOR THE CENTER PALLET. SEE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES", NOTE 10, ON PAGE 3 FOR ADDITIONAL GUIDANCE, AND PAGE 13 FOR AN ALTERNATIVE METHOD OF SECURING "LOOSE" PROJECTILES.
4. A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE PARTIAL UNIT BASIC LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNIT SIDES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP THROUGH A HOLE IN ONE END OF THE PALLET COVER ASSEMBLY, PASS BEHIND THE PROJECTILE, DOWN THROUGH A HOLE IN THE OPPOSITE END OF THE PALLET COVER ASSEMBLY, TO A TIEDOWN ANCHOR ON THE SAME SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP BUT DO NOT RATCHET TIGHT UNTIL STRAP MARKED ④ IS IN POSITION. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP THROUGH A CENTER HOLE IN THE PALLET COVER ASSEMBLY AND DOWN TO A TIEDOWN ANCHOR ON THE SAME SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET STRAPS MARKED ① AND ② TIGHT, AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
LOOSE 8-INCH	18	2,860 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF "LOOSE", 152MM PROJECTILES AND "LOOSE" PROPELLING CHARGE CONTAINERS IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF THREE "LOOSE" 152MM PROJECTILES. THE METHOD SHOWN CAN BE USED TO SECURE ONE THROUGH THREE "LOOSE" 152MM AND/OR 8-INCH PROJECTILES. SEE KEY NUMBERS ① AND ② ON THIS PAGE. SEE PAGE 14 FOR AN ALTERNATIVE METHOD OF SECURING "LOOSE" PROJECTILES.
4. THE PROCEDURES SHOWN ABOVE ALSO DEPICT SECUREMENT OF LOOSE 8-INCH, PAM6 SERIES CONTAINERS HAVING DIMENSIONS OF 37-3/4" LONG BY 10-15/32" DIAMETER, POSITIONED ON PALLET BASES. IF DESIRED, MIXED PROPELLING CHARGE CONTAINERS MAY BE POSITIONED ON THE SAME PALLET BASE. POSITION THE PALLET BASE AGAINST THE END WALL. IF THE PALLET BASE IS POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ⑤ IS REQUIRED. SEE KEY NUMBER ③ ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS. FOR ALTERNATIVE METHODS OF SECURING LOOSE CONTAINERS USE THE PROCEDURES SHOWN ON PAGES 11 AND 12.
5. IN THE METHOD SHOWN ABOVE THERE IS ONE 48" X 48" PALLET WITH FOURTEEN LOOSE 8-INCH PAM6 SERIES CONTAINERS SECURED ON TOP. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS OF OTHER SIZES OR QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTE 6 ON PAGE 6.
6. THE QUANTITY OF LOOSE CONTAINERS POSITIONED ON A PALLET BASE MAY BE ONE CONTAINER, UP TO THE MAXIMUM QUANTITY THAT CAN BE POSITIONED IN THE BOTTOM LAYER. IF MORE THAN ONE FULL LAYER OF LOOSE CONTAINERS IS TO BE POSITIONED ON A PALLET BASE, SEE SPECIAL NOTE 6 ON PAGE 6. **NOTE:** THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT. IF SO, CHECK STRAPS MARKED ③ FOR TIGHTNESS, AND RE-TIGHTEN IF NECESSARY.
7. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A PALLET BASE MUST FORM A TIGHT BUNDLE AFTER STRAPS MARKED ④ ARE RATCHETED TIGHT. IF CONTAINERS DO NOT FORM A TIGHT BUNDLE, OR IF CONTAINERS OF DIFFERENT SIZES ARE BEING POSITIONED ON TOP OF THE SAME PALLET BASE TWO ADDITIONAL WEB STRAP ASSEMBLIES ARE REQUIRED. POSITION THE TWO ADDITIONAL STRAPS TO ENCIrcLE ALL CONTAINERS BUT NOT THE PALLET AND RATCHET TIGHT. SEE KEY NUMBER ① ON PAGE 12 FOR ADDITIONAL GUIDANCE.
8. A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
9. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIrcLE PALLET BASE ASSEMBLY AND PALLET COVER ASSEMBLY. HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. **NOTE:** POSITION STRAPS MARKED ② PRIOR TO RATCHETING STRAP MARKED ① TIGHT.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON END WALL OF VEHICLE, THROUGH HOLE ON NEAR END OF PALLET COVER ASSEMBLY, ACROSS AND THROUGH HOLE ON FAR END OF PALLET COVER ASSEMBLY, TO A TIEDOWN ANCHOR ON END WALL OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIrcLE PALLET AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON THE PALLET. PRIOR TO POSITIONING CONTAINERS ON THE PALLET, THREAD STRAPS MARKED ③ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE PALLET, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ③ SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. **NOTE:** AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON THE PALLET. THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, IF SO, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ④ AT THE SAME TIME. **NOTE:** THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINERS AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

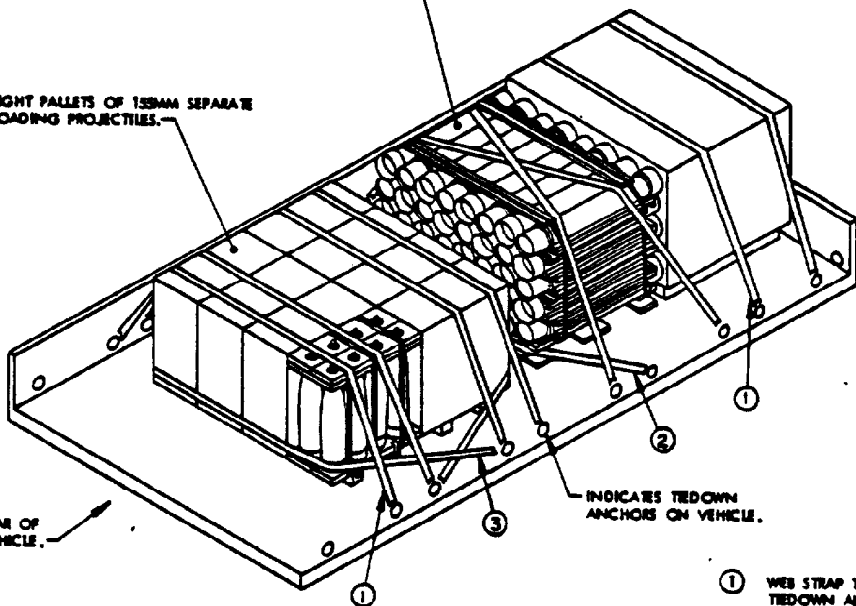
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
LOOSE 152MM	3	285 LBS
LOOSE PROF CHARGES	14	700 LBS
TOTAL WEIGHT		985 LBS (APPROX)

TWO PALLETS OF 155MM, M14 SERIES,
PROPELLING CHARGE CONTAINERS.

EIGHT PALLETS OF 155MM SEPARATE
LOADING PROJECTILES.

REAR OF
VEHICLE.



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

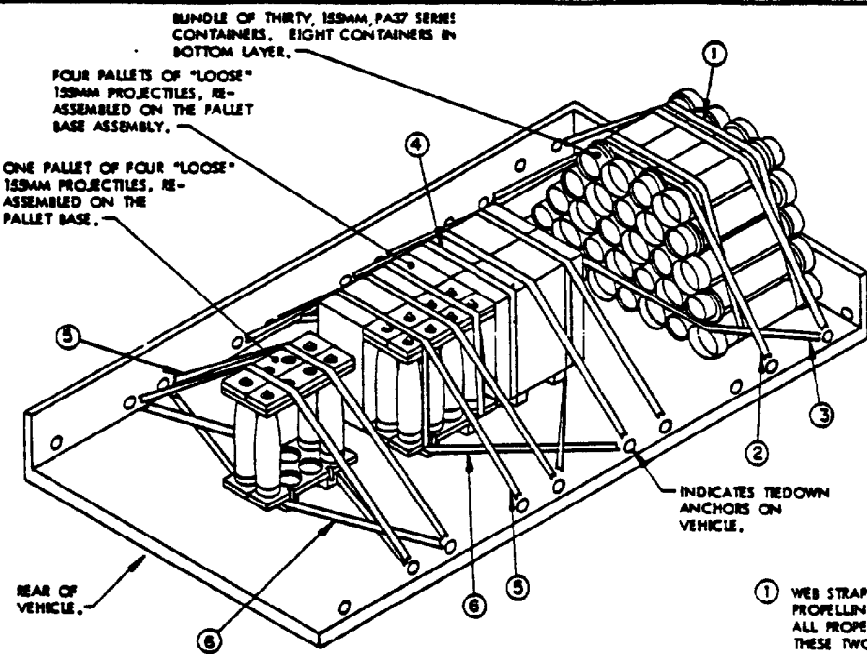
1. A PARTIAL UNIT BASIC LOAD OF PALLETIZED PROPELLING CHARGE CONTAINERS AND PALLETIZED 155MM PROJECTILES IS SHOWN IN A TRUCK, CARGO, 5-TON, M54, HAVING INSIDE DIMENSIONS OF 168" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF TWO PALLETIZED UNITS OF 155MM PROPELLING CHARGES PACKED IN THE M14 SERIES CONTAINER, HAVING DIMENSIONS OF 49-1/2" WIDE BY 37-1/2" LONG BY 36" HIGH, AND WEIGHING 1,308 POUNDS, AND EIGHT PALLETIZED UNITS OF 155MM PROJECTILES, HAVING DIMENSIONS OF 13-5/8" LONG BY 27-1/8" WIDE BY 32" HIGH AND WEIGHING 797 POUNDS. IF LOADING PALLETIZED UNITS OF PROPELLING CHARGE CONTAINER AND/OR PALLETIZED UNITS OF SEPARATE LOADING PROJECTILES OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5 AND 8 ON PAGES 6 AND 7.
4. WHEN LOADING THE VEHICLE POSITION THE PALLETIZED PROPELLING CHARGE UNITS TIGHT AGAINST THE END WALL AND EACH OTHER, POSITION THE 155MM PALLETS TIGHT AGAINST EACH OTHER AND AT A LOCATION THAT WILL ALLOW TWO STRAPS MARKED ① TO BE POSITIONED OVER THE TOP OF EACH ROW. IF THE PALLETIZED PROPELLING CHARGE CONTAINERS ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ② IS REQUIRED.
5. A TOTAL OF ELEVEN WEB STRAP TEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN..

KEY NUMBERS

- ① WEB STRAP TEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP FROM A TEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT (S), TO A TEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT (S), IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNIT (S), AS SHOWN. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TEDOWN ANCHORS, PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNIT, TO A TEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TEDOWN ASSEMBLY (2 REQD). INSTALL STRAP TO EXTEND FROM A TEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNITS ON TOP OF THE PALLET BASE, AGAINST THE BASE ON THE PROJECTILES, TO A TEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TEDOWN ANCHOR AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED PC	2	2,612 LBS
PALLETIZED 155MM	8	6,376 LBS
TOTAL WEIGHT		8,988 LBS (APPROX)



BUNDLE OF THIRTY 153MM, PA37 SERIES CONTAINERS, EIGHT CONTAINERS IN BOTTOM LAYER.

FOUR PALLETES OF "LOOSE" 153MM PROJECTILES, RE-ASSEMBLED ON THE PALLET BASE ASSEMBLY.

ONE PALLET OF FOUR "LOOSE" 153MM PROJECTILES, RE-ASSEMBLED ON THE PALLET BASE.

INDICATES TIEDOWN ANCHORS ON VEHICLE.

REAR OF VEHICLE.

ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF LOOSE PROPELLING CHARGE CONTAINERS AND LOOSE 153MM PROJECTILES IS SHOWN IN A TRUCK, CARGO, 5-TON, M54, HAVING INSIDE DIMENSIONS OF 148" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF ONE BUNDLE OF THIRTY LOOSE, 153MM, PA37 SERIES CONTAINERS, HAVING DIMENSIONS OF 32-3/4" LONG BY 8-13/32" DIAMETER AND WEIGHING 35 POUNDS EACH, AND THIRTY-SIX LOOSE 153MM PROJECTILES, RE-ASSEMBLED ON THE PALLET BASE ASSEMBLY. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS AND/OR PALLETIZED UNITS OF SEPARATE LOADING PROJECTILES OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 6 AND 9 ON PAGES 6 AND 7.
4. WHEN LOADING THE VEHICLE, POSITION THE PROPELLING CHARGE CONTAINERS TIGHT AGAINST THE END WALL. IF THE PROPELLING CHARGE CONTAINERS ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION THE 153MM PALLETES TIGHT AGAINST EACH OTHER AND AT A LOCATION THAT WILL ALLOW TWO STRAPS MARKED ⑤ TO BE POSITIONED OVER THE TOP OF EACH ROW AND/OR SINGLE PALLET.
5. A TOTAL OF NINETEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

(KEY NUMBERS CONTINUED) -

- ⑥ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE SKIDS ON THE PALLETIZED UNIT (5), TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ④, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ④ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.

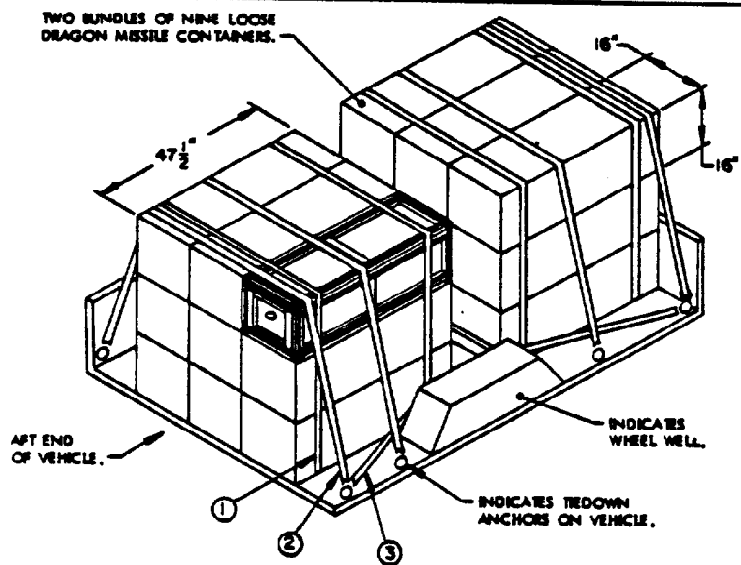
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ③ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ② TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ② AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO ENCIRCLE TWO LATERALLY ADJACENT PALLETIZED UNITS OF "LOOSE" 153MM PROJECTILES, UNDER THE PALLET BASE ASSEMBLY AND OVER TOP OF THE PALLET COVER ASSEMBLY. POSITION RATCHETS ON THE SAME SIDE OF PALLETIZED UNITS. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

(CONTINUED AT LEFT)

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PROP CHARGES	30	1,650 LBS
PALLETIZED 153MM	5	3,600 LBS
TOTAL WEIGHT		5,250 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF DRAGON GUIDED MISSILE CONTAINERS IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, M105 HAVING INSIDE DIMENSIONS OF 170" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF EIGHTEEN LOOSE DRAGON GUIDED MISSILE CONTAINERS HAVING DIMENSIONS OF 47-1/2" LONG BY 16" WIDE BY 16" HIGH AND WEIGHING 67 POUNDS EACH. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES. IF A BUNDLE OF CONTAINERS IS NOT POSITIONED AGAINST AN END WALL OF THE VEHICLE ONE ADDITIONAL STRAP MARKED ③ WILL BE REQUIRED. EACH BUNDLE OF TWO OR MORE CONTAINERS REQUIRES TWO STRAPS MARKED ①, TWO STRAPS MARKED ②, AND ONE STRAP MARKED ③. SEE SPECIAL NOTE 7 ON PAGE 6.
4. A TOTAL OF TEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
5. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO ENIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING THE CONTAINERS. MAKE STRAP STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM LAYER CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

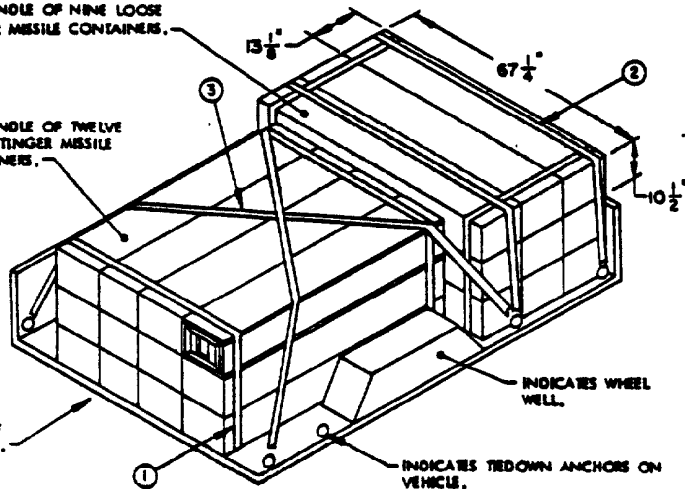
LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
DRAGON	18 CNTRS	1,206 LBS (APPROX)

ONE BUNDLE OF NINE LOOSE STINGER MISSILE CONTAINERS.

ONE BUNDLE OF TWELVE LOOSE STINGER MISSILE CONTAINERS.

REAR OF VEHICLE.



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF STINGER GUIDED MISSILE CONTAINERS IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, MISS HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF TWENTY-ONE LOOSE STINGER GUIDED MISSILE CONTAINERS HAVING DIMENSIONS OF 67-1/4" LONG BY 13-1/8" WIDE BY 10-1/2" HIGH AND WEIGHING 77 POUNDS EACH. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES, HOWEVER, IF LOADING THESE CONTAINERS IN A LARGER VEHICLE POSITION ALL CONTAINERS LENGTHWISE. POSITION TWO HOLD DOWN STRAPS MARKED ② OVER TOP OF EACH BUNDLE, AND, IF BUNDLE IS POSITIONED AGAINST AN END WALL, POSITION ONE STRAP MARKED ③, AS SHOWN IN THE LOAD ON PAGE 18, AROUND THE END OF THE BOTTOM LAYER CONTAINERS. IF BUNDLE IS NOT POSITIONED AGAINST AN END WALL OF THE VEHICLE, ONE STRAP MARKED ③ AS SHOWN IN THE LOAD ON PAGE 18, IS REQUIRED AT EACH END. EACH BUNDLE OF TWO OR MORE CONTAINERS REQUIRES TWO STRAPS MARKED ①, AND TWO STRAPS MARKED ②. SEE SPECIAL NOTE 7 ON PAGE 6.
4. A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES IS REQUIRED FOR THE LOAD SHOWN.
5. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

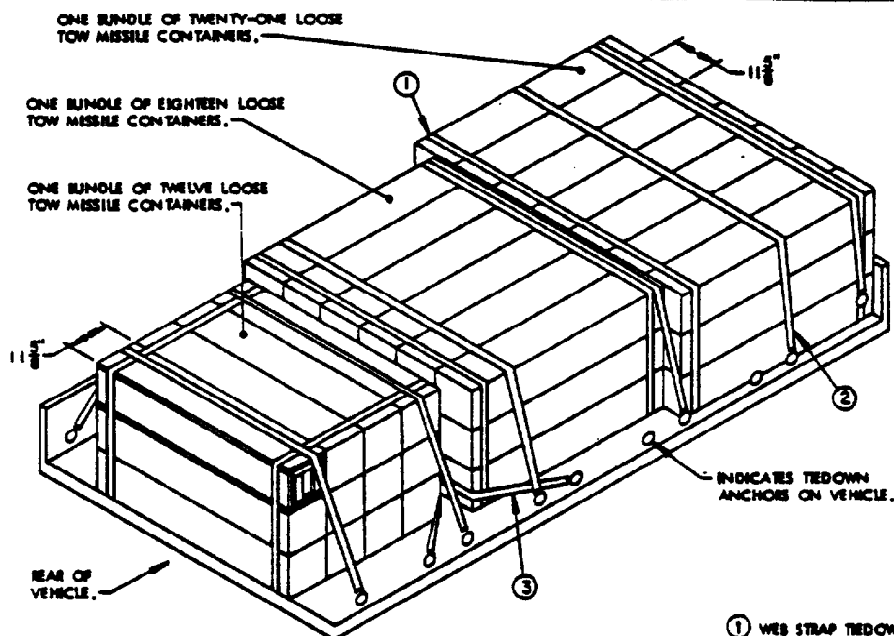
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING THE CONTAINERS, MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE AND/OR END WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OR TOP OF THE BUNDLE. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, DIAGONALLY OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
STINGER	21 CNTRS	1,617 LBS (APPROX)

PARTIAL UNIT BASIC LOAD IN A TRAILER, CARGO, 1-1/2-TON, MISS



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

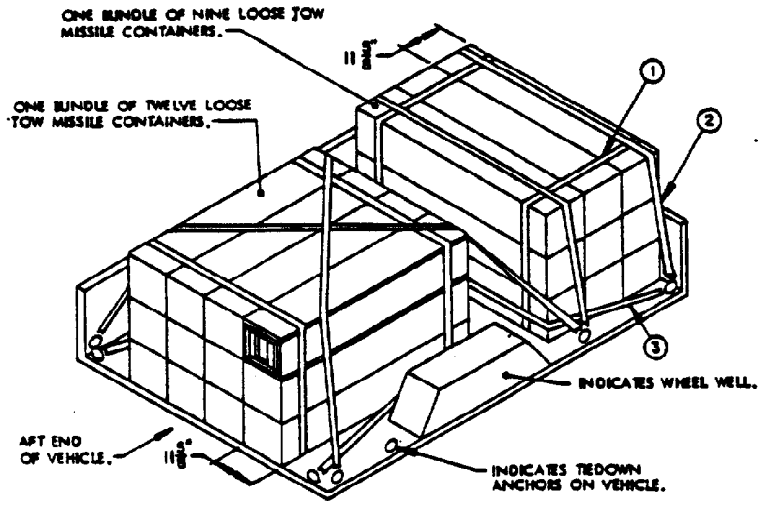
1. A PARTIAL UNIT BASIC LOAD OF TOW MISSILES IS SHOWN IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M211, HAVING INSIDE DIMENSIONS OF 147" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE TOW MISSILE CONTAINERS IN BOXES HAVING DIMENSIONS OF 59-1/4" LONG BY 11-5/8" WIDE BY 11-5/8" HIGH AND WEIGHING 87 POUNDS. IF THE TOW MISSILES BEING LOADED ARE PALLETIZED USE THE PROCEDURES SHOWN ON PAGE 22 TO SECURE THE PALLETIZED UNITS. POSITION THE TOW MISSILES WITH THE FORWARD END POINTING TO THE SIDE AND/OR REAR OF THE VEHICLE. SEE SPECIAL NOTE 7 ON PAGE 6.
4. WHEN LOADING THE VEHICLE, POSITION THE LOOSE TOW MISSILE CONTAINERS TIGHT AGAINST THE END WALL AND EACH OTHER. IF THE TOW MISSILE CONTAINERS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED.
5. A TOTAL OF FOURTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF TWO OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIrcLE ALL LOOSE CONTAINERS IN THE BUNDLE AT THE LOCATION SHOWN. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF CONTAINERS ON THE VEHICLE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE BUNDLE IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE BUNDLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ② ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
TOW	51 CNTRS	4,427 LBS (APPROX)



ISOMETRIC VIEW

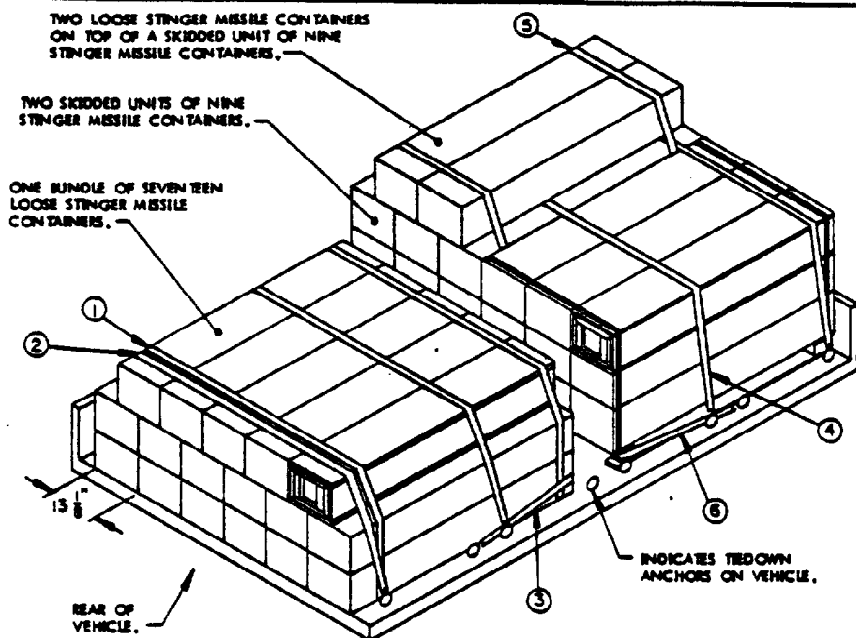
LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF TOW MISSILES IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 118" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE TOW MISSILES CONTAINERS IN BOXES HAVING DIMENSIONS OF 36-1/4" LONG BY 11-1/8" WIDE BY 11-1/8" HIGH AND WEIGHING 87 POUNDS. IF THE TOW MISSILES BEING LOADED ARE PALLETIZED, USE THE PROCEDURES SHOWN ON PAGE 22 TO SECURE THE PALLETIZED UNITS. POSITION THE TOW MISSILES WITH THE FORWARD END POINTING TO THE SIDE AND/OR REAR OF THE VEHICLE. SEE SPECIAL NOTE 7 ON PAGE 6.
4. WHEN LOADING THE VEHICLE, POSITION THE LOOSE TOW MISSILE CONTAINERS TIGHT AGAINST THE END WALL AND EACH OTHER. IF THE TOW MISSILE CONTAINERS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED FOR EACH BUNDLE.
5. A TOTAL OF TEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQ FOR EACH BUNDLE OF TWO OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE CONTAINERS IN THE BUNDLE AT THE LOCATION SHOWN. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF CONTAINERS ON THE VEHICLE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REQ). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE BUNDLE IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE BUNDLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQ). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ② ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN		
ITEM	QUANTITY	WEIGHT (APPROX)
TOW	21 CNTRS	1,827 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF STINGER MISSILES IS SHOWN IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M211, HAVING INSIDE DIMENSIONS OF 147" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. THE PROCEDURES SHOWN ABOVE DEPICT METHODS OF SECURING SKIDDED UNITS OF STINGER MISSILE CONTAINERS AND/OR LOOSE STINGER MISSILE CONTAINERS ON THE VEHICLE FLOOR OR ON TOP OF A SKIDDED UNIT WHICH IS SECURED TO THE VEHICLE. HOLD-DOWN STRAPS MARKED ④ ARE POSITIONED OVER TOP OF THE TWO ADJACENT SKIDDED UNITS AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE CONTAINERS ON TOP OF A SKIDDED UNIT. SEE KEY NUMBERS ④, ③, AND ② ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE CONTAINERS ON TOP OF PALLETIZED UNITS. POSITION THE STINGER MISSILES WITH THE FORWARD END POINTING TO THE SIDE AND/OR REAR OF THE VEHICLE.
4. THE PROCEDURES SHOWN ABOVE DEPICT TWO SKIDDED UNITS OF STINGER MISSILE CONTAINERS HAVING DIMENSIONS OF 47-1/4" WIDE BY 39-3/8" LONG BY 34-1/2" HIGH AND WEIGHING 740 POUNDS, AND NINETEEN LOOSE STINGER MISSILE CONTAINERS HAVING DIMENSIONS OF 47-1/4" LONG BY 13-1/8" WIDE BY 10-1/2" HIGH AND WEIGHING 77 POUNDS. ONE BUNDLE OF SEVENTEEN LOOSE CONTAINERS IS POSITIONED ON THE VEHICLE FLOOR AND TWO LOOSE CONTAINERS ARE POSITIONED ON TOP OF A SKIDDED UNIT. IF LOADING SKIDDED UNITS AND LOOSE CONTAINERS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTE 7 ON PAGE 6.
5. THE QUANTITY OF LOOSE CONTAINERS THAT CAN BE SECURED ON TOP OF A SKIDDED UNIT MAY BE ONE CONTAINER UP TO ONE FULL LAYER. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A SKIDDED UNIT MUST BE SECURED TO THE SKIDDED UNIT WITH TWO UNITIZING STRAPS AS SHOWN. SEE KEY NUMBER ③ ON THIS PAGE.
6. WHEN LOADING THE VEHICLE, POSITION THE SKIDDED UNITS, AND/OR LOOSE CONTAINERS, TIGHT AGAINST THE END WALL AND EACH OTHER. IF THE SKIDDED UNITS AND/OR LOOSE CONTAINERS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ③ AND ⑥ IS REQUIRED.
7. A TOTAL OF TEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
8. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

(KEY NUMBERS CONTINUED)

- ⑥ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF SKIDDED UNIT (S) AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

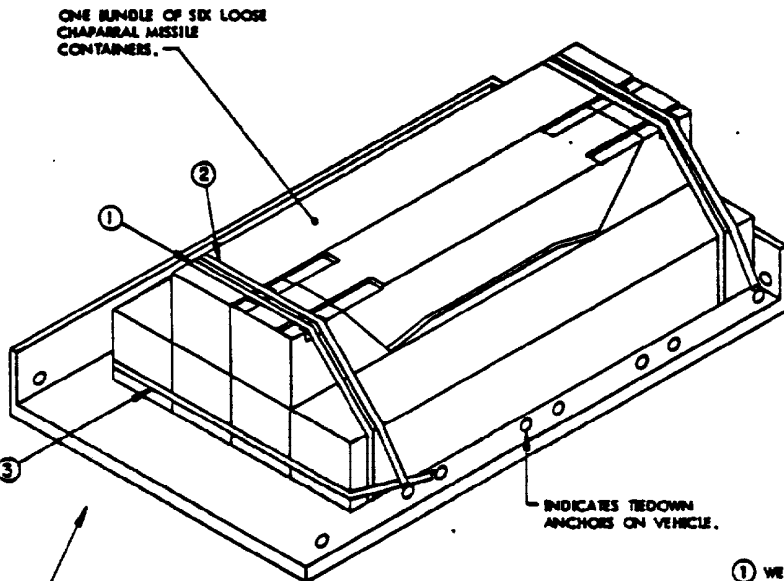
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF TWO OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENIRCLE ALL LOOSE CONTAINERS IN THE BUNDLE, AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF CONTAINERS ON THE VEHICLE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE BUNDLE IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE BUNDLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF SKIDDED UNITS, UNDER ALL LOOSE CONTAINERS WHICH ARE POSITIONED ON TOP OF A SKIDDED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. ASSURE THAT STRAP MARKED ③ IS PRE-POSITIONED. THEN TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. NOTE: STRAPS MARKED ④ MUST BE INSTALLED OVER TOP OF THE SKIDDED UNIT (S), PRIOR TO POSITIONING THE LOOSE CONTAINERS ON TOP. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). PRE-POSITION EACH STRAP UNDER TOP DECK OF SKIDDED UNIT PRIOR TO POSITIONING SKIDDED UNITS ADJACENT TO EACH OTHER. POSITION LOOSE CONTAINERS ON TOP OF SKIDDED UNIT. BRING ENDS OF STRAPS MARKED ⑤ UP OVER TOP OR LOOSE CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

(CONTINUED AT LEFT)

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
STINGER	19 CONTNRS	1,463 LBS
SKIDDED UNITS	2	1,498 LBS
TOTAL WEIGHT		2,961 LBS (APPROX)



REAR OF VEHICLE.

ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

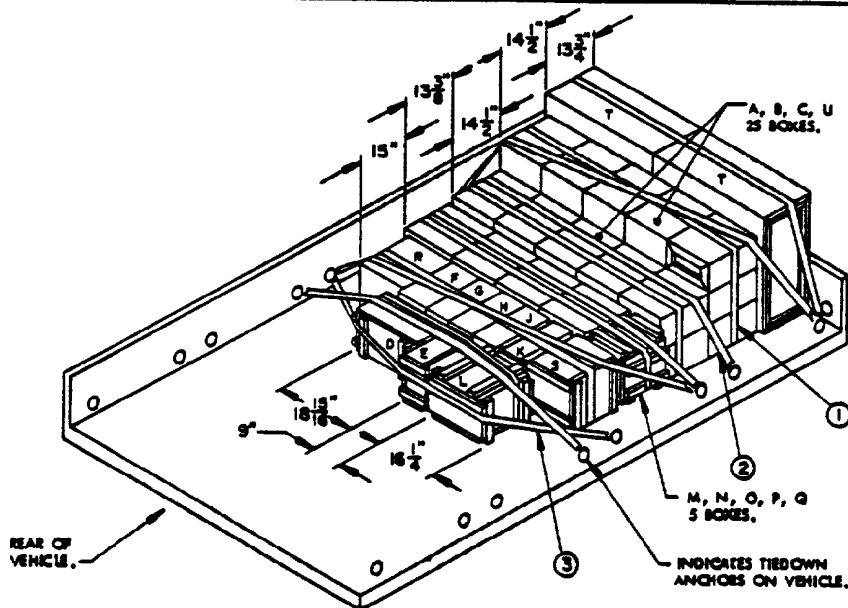
1. A PARTIAL UNIT BASIC LOAD OF CHAPARRAL MISSILES IS SHOWN IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M21, HAVING INSIDE DIMENSIONS OF 148" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE CHAPARRAL MISSILES IN CONTAINERS HAVING DIMENSIONS OF 10'-5" LONG BY 17'-7/8" WIDE BY 19" HIGH AND WEIGHING 280 POUNDS. WEB STRAP TIEDOWN ASSEMBLIES MARKED ① AND ② MUST BE POSITIONED OVER THE METAL SKIN AREA AT EACH END OF THE CONTAINER. DUE TO THE QUANTITY AND/OR LOCATION OF TIEDOWN ANCHORS WITHIN A VEHICLE, IT MAY BE NECESSARY TO POSITION THE HOLD-DOWN STRAPS MARKED ③ AT AN ANGLE. IF SO, THREAD THE STRAP THROUGH THE OUTSIDE LIFT/TIEDOWN BARS ON END CONTAINERS IN THE TOP LAYER TO HOLD STRAPS MARKED ② IN PLACE. DO NOT STACK OVER TWO HIGH. POSITION THE CHAPARRAL MISSILES WITH THE FORWARD END POINTING TO THE REAR OF THE VEHICLE.
4. WHEN LOADING THE VEHICLE, POSITION THE CONTAINERS TIGHT AGAINST THE FORWARD END WALL AND EACH OTHER. IF THE CONTAINERS ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED.
5. A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD FOR EACH BUNDLE OF TWO OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIROLE ALL LOOSE CONTAINERS IN THE BUNDLE AT THE LOCATION SHOWN. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS, MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF CONTAINERS ON THE VEHICLE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OF SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE BUNDLE IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP AT AN ANGLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2 AND LOAD GUIDANCE NOTE 3 ON THIS PAGE.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CHAPARRAL	6 CNTRS	1,680 LBS (APPROX)



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A TYPICAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M217, HAVING INSIDE-DIMENSIONS 147" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
4. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND LaterALLY. IF THE LOAD IS POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (S) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ① AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
5. A TOTAL OF THIRTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

(CONTINUED BELOW)

TYPICAL UNIT BASIC LOAD SHOWN

ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES
A	A131	14-1/2 X 12-3/4 X 8-3/8	58	6
B	A072	14-1/2 X 12-3/4 X 8-3/8	72	5
C	A068	14-1/2 X 12-3/4 X 8-3/8	72	13
D	G481	18-15/16 X 11-1/4 X 11-1/16	51	1
E	G700	14-1/2 X 13 X 9	43	1
F	G730	16-3/8 X 13-3/8 X 7-5/8	42	1
G	G740	16-3/8 X 13-3/8 X 7-5/8	42	1
H	G745	16-3/8 X 13-3/8 X 7-5/8	42	1
J	G750	16-3/8 X 13-3/8 X 7-5/8	42	1
K	G755	16-3/8 X 13-3/8 X 7-5/8	42	1
L	L495	14-1/4 X 15 X 12-1/2	47	1
M	L306	14-7/8 X 13-3/8 X 13-1/4	55	1
N	L307	14-7/8 X 13-3/8 X 13-1/4	55	1
O	L311	14-7/8 X 13-3/8 X 13-1/4	55	1
P	L312	14-7/8 X 13-3/8 X 13-1/4	55	1
Q	L314	14-7/8 X 13-3/8 X 13-1/4	55	1
R	L323	15 X 13-3/8 X 13-1/4	55	1
S	L324	15 X 13-3/8 X 13-1/4	55	1
T	H357	33-1/2 X 31-1/8 X 13-3/4	118	2
U	A475	14-1/2 X 12-3/4 X 8-3/8	108	1

(LOAD GUIDANCE NOTES CONTINUED.)

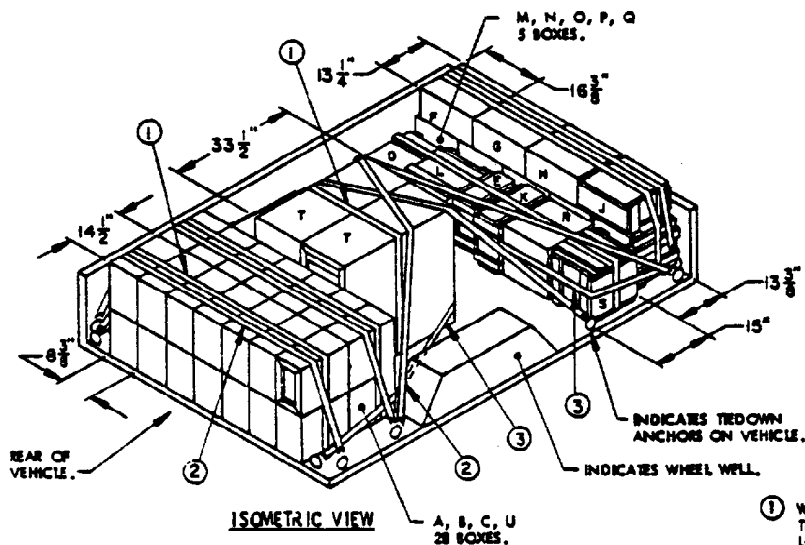
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS

1. WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OF SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
2. WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
3. WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REAR-MOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
UBL	1	2,723 LBS



ISOMETRIC VIEW

KEY NUMBERS

LOAD GUIDANCE NOTES:

1. A TYPICAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ABOVE DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
4. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND LATERALLY. IF THE BOXES ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (S) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
5. A TOTAL OF THIRTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

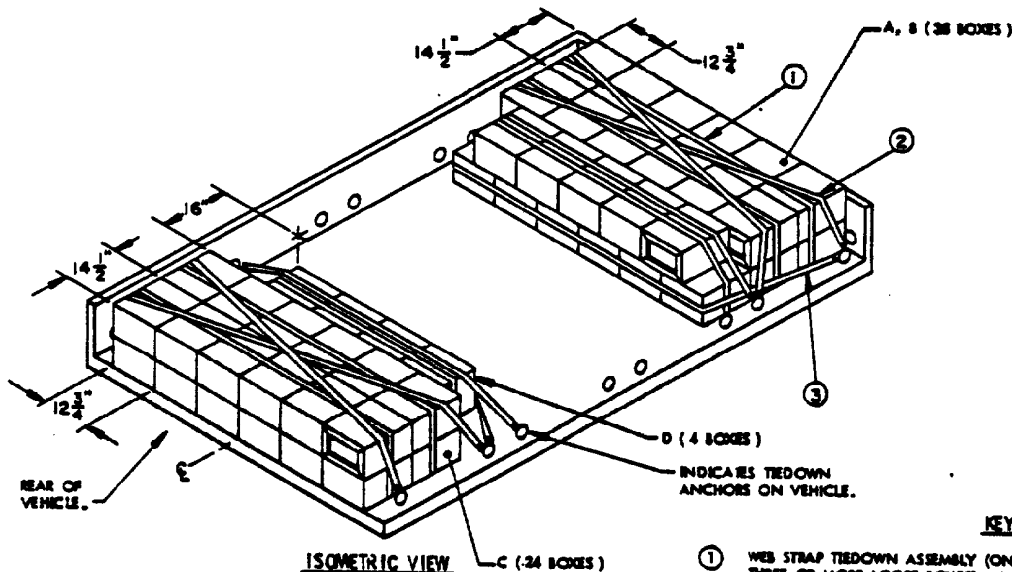
- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIrcLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "T" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "T", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ② ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "T", "G", "M", ON PAGE 2.

TYPICAL UNIT BASIC LOAD SHOWN

ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES
A CARTRIDGE, 7.62MM, BALL	A131	14-1/2 x 12-3/4 x 8-3/8	58	6
B CARTRIDGE, 5.56MM, TRACER	A072	14-1/2 x 12-3/4 x 8-3/8	72	5
C CARTRIDGE, 5.56MM, BALL	A068	14-1/2 x 12-3/4 x 8-3/8	72	16
D GRENADE, HD, FRAG, M47	G881	18-15/16 x 11-1/4 x 11-1/16	51	1
E GRENADE, HD, INC, AN/M14	G900	14-1/2 x 13 x 9	43	1
F GRENADE, HD, SMK, AN/M6	G930	16-3/8 x 13-3/8 x 7-5/8	42	1
G GRENADE, HD, GREEN, M18	G940	16-3/8 x 13-3/8 x 7-5/8	42	1
H GRENADE, HD, YELLOW, M18	G945	16-3/8 x 13-3/8 x 7-5/8	42	1
J GRENADE, HD, RED, M18	G930	16-3/8 x 13-3/8 x 7-5/8	42	1
K GRENADE, HD, VIOLET, M18	G935	16-3/8 x 13-3/8 x 7-5/8	42	1
L FLARE, SJR, TRIP, M49A1	L695	16-1/4 x 15 x 12-1/2	47	1
M SIG, RED STAR, M158A1	L306	14-7/8 x 13-3/8 x 13-1/4	55	1
N SIG, WHITE, STAR, M159	L307	14-7/8 x 13-3/8 x 13-1/4	55	1
O SIG, RED STAR, M127A1	L311	14-7/8 x 13-3/8 x 13-1/4	55	1
P SIG, WHITE STAR, M127A1	L312	14-7/8 x 13-3/8 x 13-1/4	55	1
Q SIG, GREEN STAR, M125	L314	14-7/8 x 13-3/8 x 13-1/4	55	1
R SIG, RED SMK, M129A1	L323	15 x 13-3/8 x 13-1/4	55	1
S SIG, GREEN SMK, M128A1	L324	15 x 13-3/8 x 13-1/4	55	1
T ROCKET, LAW, 66MM, M72	H557	23-1/2 x 31-1/8 x 13-3/4	118	2
U CARTRIDGE, 45 CAL, BALL	4475	14-1/2 x 12-3/4 x 8-3/8	108	1

LOAD AS SHOWN

ITEM QUANTITY WEIGHT (APPROX)
 UBL 1 2,739 LBS (APPROX)



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCRICLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SLICE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F", AND "G", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (FOUR REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

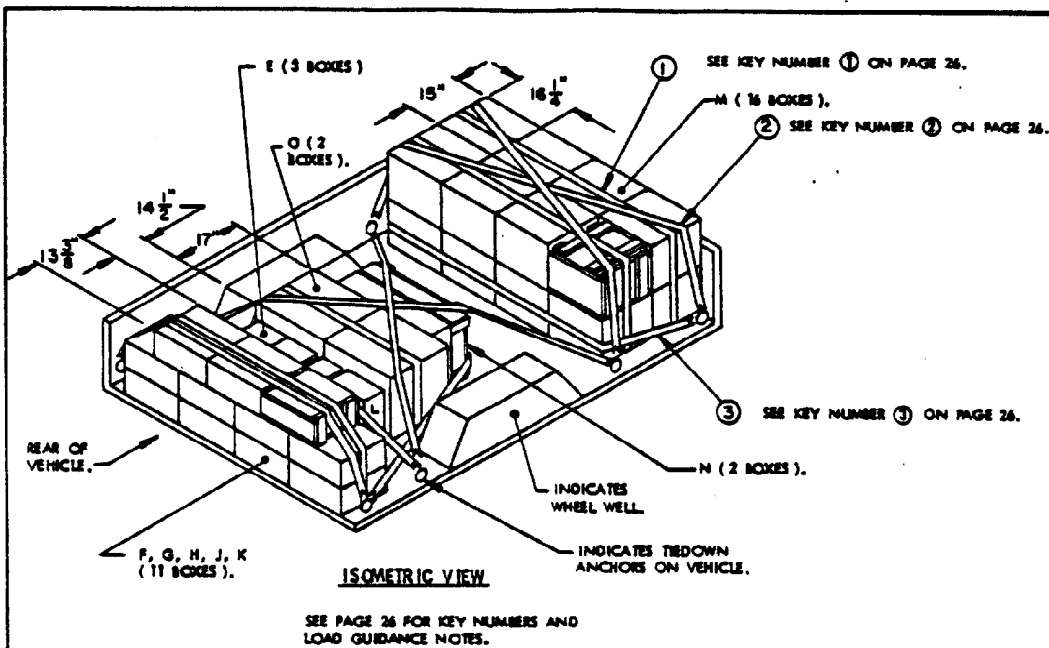
LOAD GUIDANCE NOTES: (FOR PAGES 26 AND 27)

1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON THIS PAGE IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M311, HAVING INSIDE DIMENSIONS OF 147" LONG BY 88" WIDE AND A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON PAGE 27, IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 118" LONG BY 74" WIDE. NOTE: THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 27 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE OFF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED, THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 27. THE UNIT BASIC LOAD ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON PAGE 27 HAVE A TOTAL WEIGHT OF 3,660 POUNDS. THEREFORE, PART OF THE LOAD IS SECURED IN AN M35 2-1/2-TON CARGO TRUCK AS SHOWN ABOVE, AND PART OF THE LOAD IS SECURED IN A M105 1-1/2-TON CARGO TRAILER AS SHOWN ON PAGE 27.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ON THIS PAGE AND PAGE 27 DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
5. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND Laterally. IF THE BOXES ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ① IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (5) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
6. A TOTAL OF TWENTY-SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (FOURTEEN FOR THE LOAD SHOWN ON THIS PAGE AND THIRTEEN FOR THE LOAD SHOWN ON PAGE 27).
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
5.36AAA	35 BOXES	2,520 LBS
7.62AAA	24 BOXES	1,392 LBS
4QAAA	4 BOXES	212 LBS
TOTAL WEIGHT		4,124 LBS (APPROX)

* SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



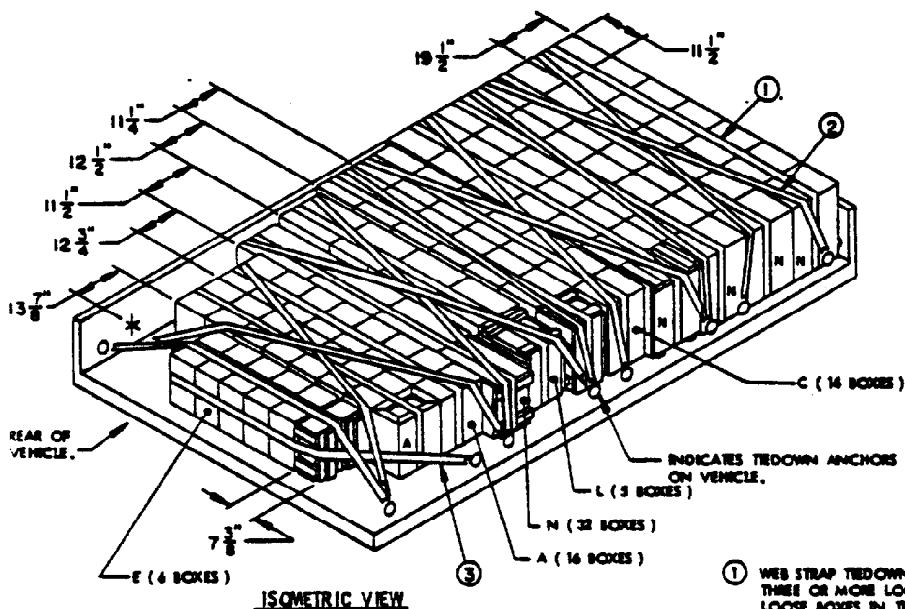
TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 26 AND 27					
	ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES
A	CARTRIDGE, 3.5MM, BALL	A071	14-1/2 X 12-3/4 X 8-3/8	72	28
B	CARTRIDGE, 5.5MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	7
C	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 8-3/8	58	24
D	CARTRIDGE, 40MM, HEDP, M433	8546	16 X 13-1/2 X 10-1/8	53	4
E	GRENADE, HD, INCD, AN/M14	G900	14-1/2 X 13 X 9	43	3
F	GRENADE, HD, SMK, AN/M6	G930	16-3/8 X 13-3/8 X 7-5/8	42	3
G	GRENADE, HD, GREEN, M18	G940	16-3/8 X 13-3/8 X 7-5/8	42	2
H	GRENADE, HD, YELLOW, M18	G945	16-3/8 X 13-3/8 X 7-5/8	42	2
J	GRENADE, HD, RED, M18	G950	16-3/8 X 13-3/8 X 7-5/8	42	2
K	GRENADE, HD, VIOLET, M18	G955	16-3/8 X 13-3/8 X 7-5/8	42	2
L	FLARE, ACFT, M206	L410	14-3/4 X 13 X 11-1/4	64	1
M	FLARE, SUR, TRIP, M49A1	L495	16-1/4 X 15 X 12-1/2	47	16
N	CRYPTO EQUIP, DEST, M1	M598	29-1/4 X 16-3/4 X 6-7/8	40	2
O	DOCUMENT DESTROYER	M814	17 X 17 X 20-1/2	60	2

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON PAGE 26.

LOAD AS SHOWN *

ITEM QUANTITY WEIGHT (APPROX)
 PARTIAL UBL ———— 39 BOXES ———— 1,536 LBS (APPROX)

* SEE LOAD GUIDANCE NOTE 2 ON PAGE 26.



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIrcLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE ROW OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOXES TIGHT AGAINST EACH OTHER AND BRING ENDS OF STRAP UP OVER TOP OF BOXES. HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE ROW; SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW IF POSSIBLE, HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (3 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ② ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

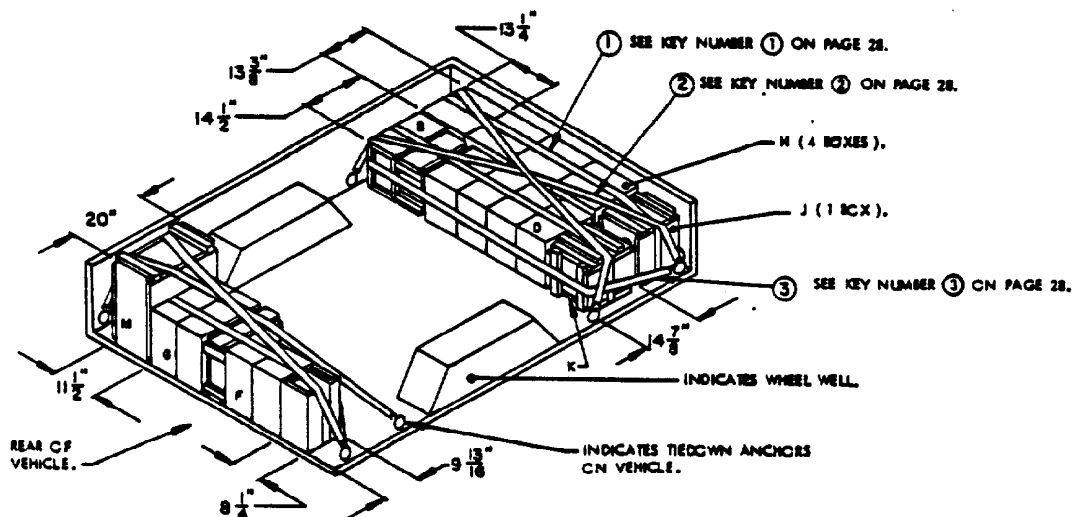
LOAD GUIDANCE NOTES (FOR PAGES 28 AND 29):

1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON THIS PAGE IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M211, HAVING INSIDE DIMENSIONS OF 127" LONG BY 88" WIDE AND A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON PAGE 29 IN A TRAILER, CARGO, 1-1/2-TON, M108, HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE. **NOTE:** THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 29 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE OFF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 29. THE UNIT BASIC LOAD ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON PAGE 29 HAVE A TOTAL WEIGHT OF 5,329 POUNDS. THEREFORE, PART OF THE LOAD IS SECURED IN AN M35, 2-1/2-TON, CARGO TRUCK AS SHOWN ABOVE, AND PART OF THE LOAD IS SECURED IN A M108, 1-1/2-TON CARGO TRAILER AS SHOWN ON PAGE 29.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ON THIS PAGE AND PAGE 29 DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
5. WHEN LOADING THE VEHICLE POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND LaterALLY. IF THE BOXES ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (S) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
6. A TOTAL OF THIRTY-TWO WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (TWENTY-THREE FOR THE LOAD SHOWN ON THIS PAGE AND NINE FOR THE LOAD SHOWN ON PAGE 19).
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
PARTIAL UBL	73 BOXES	4,367 LBS

* SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE



ISOMETRIC VIEW

SEE PAGE 28 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

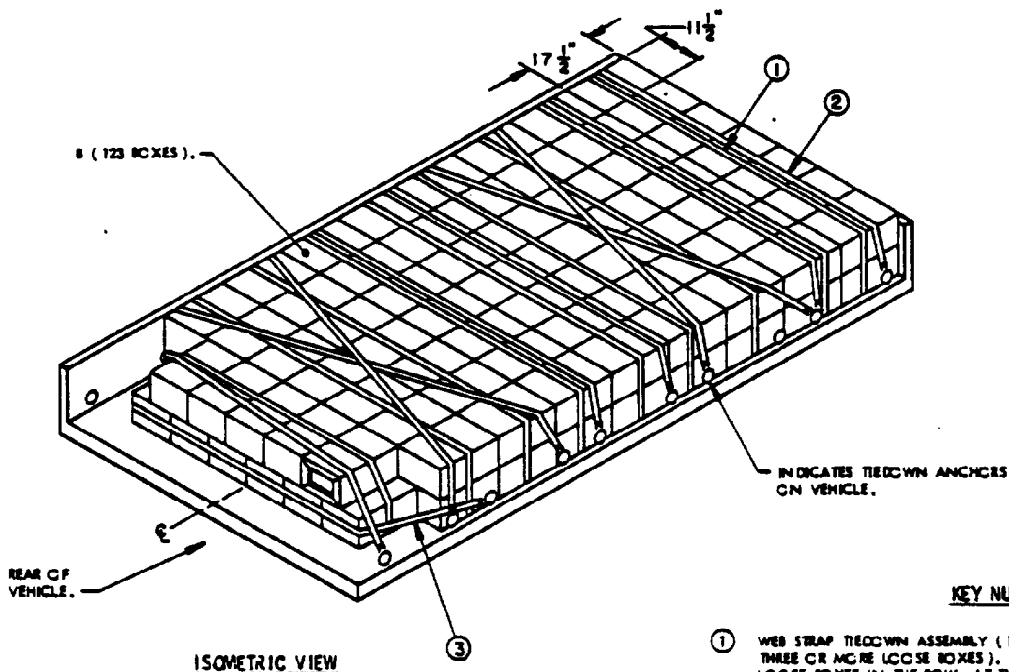
TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 28 AND 29					
	ITEM	DC DIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY IC XES
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	16
B	CARTRIDGE, .38 CAL	A400	14-1/2 X 12-3/4 X 8-3/8	92	1
C	GRENADE, HD, FRAG, M67	G881	18-15/16 X 11-1/4 X 11-1/16	51	14
D	GRENADE, HD, INCD, AN/M14	G900	14-1/2 X 13 X 9	43	5
E	GRENADE, HD, SMK, M48	G932	13-7/8 X 13-1/4 X 7-3/8	31	6
F	MINE, AP	K092	15-3/8 X 9-13/16 X 8-1/4	39	3
G	MINE, AT, M13	K181	18 X 15 X 7-1/2	49	3
H	SIG, RED STAR, M158A1	L306	14-7/8 X 13-3/8 X 13-1/4	58	4
J	SIG, WHITE STAR, M159	L307	14-7/8 X 13-3/8 X 13-1/4	58	1
K	SIG, WHITE STAR, M127A1	L312	14-7/8 X 13-3/8 X 13-1/4	58	1
L	FLARE, SURFACE, TRIP	L414	16-1/4 X 15 X 12-1/2	47	5
M	CARTRIDGE, IMPULSE, XM796	M073	20 X 19 X 11-1/2	60	1
N	CHAFF, COLUNTERMEASURE, XM1	NCNE	19-1/2 X 14 X 11-1/2	65	32

NOTE: THE UNIT BASIC LCAO LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON PAGE 28.

LOAD AS SHOWN *

ITEM QUANTITY WEIGHT (APPROX)
 PARTIAL UBL-----19 BOXES-----962 LBS

*SEE LOAD GUIDANCE NOTE 2 ON PAGE 28.



ISOMETRIC VIEW

LOAD GUIDANCE NOTES (FOR PAGES 30 AND 31):

1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON THIS PAGE IN A TRUCK, CARGO, 5-TON, M54, HAVING INSIDE DIMENSIONS OF 168" LONG BY 88" WIDE AND A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON PAGE 31, IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE. NOTE: THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 31 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE OFF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 31. THE UNIT BASIC LOAD ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON PAGE 31 HAVE A TOTAL WEIGHT OF 12,965 POUNDS. THEREFORE, PART OF THE LOAD IS SECURED IN AN M54, 5-TON, CARGO TRUCK AS SHOWN ABOVE, AND PART OF THE LOAD IS SECURED IN A M105, 1-1/2-TON, CARGO TRAILER AS SHOWN ON PAGE 31.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ON THIS PAGE AND PAGE 31 DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/CN TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
5. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL, AND EACH OTHER, LONGITUDINALLY AND LATERALLY. IF THE BOXES ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (5) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
6. A TOTAL OF THIRTY-ONE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (NINETEEN FOR THE LOAD SHOWN ON THIS PAGE AND TWELVE FOR THE LOAD SHOWN ON PAGE 31).
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

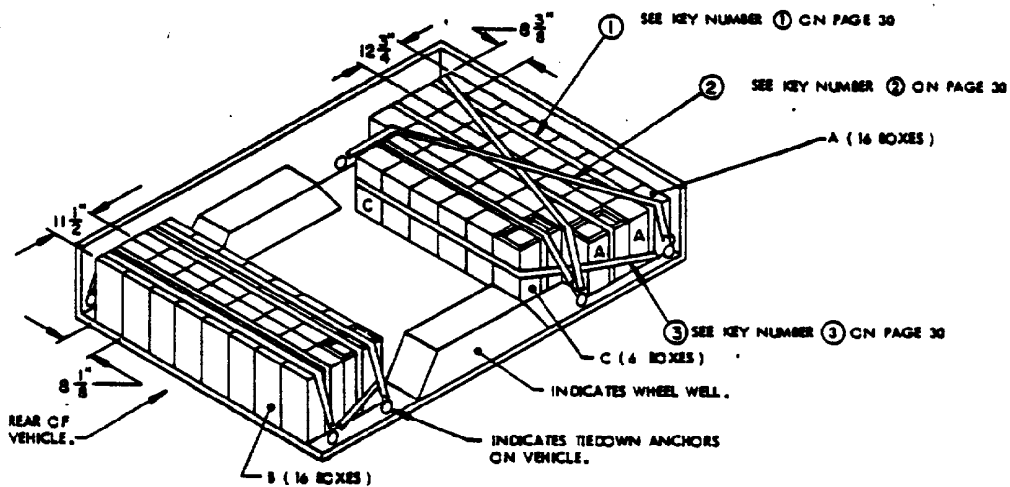
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE EXCESS SLACK IN STRAP, AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OF SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (THREE REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REARMOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
7.62MM	123 BOXES	9,965 LBS

*SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



ISOMETRIC VIEW

SEE PAGE 30 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

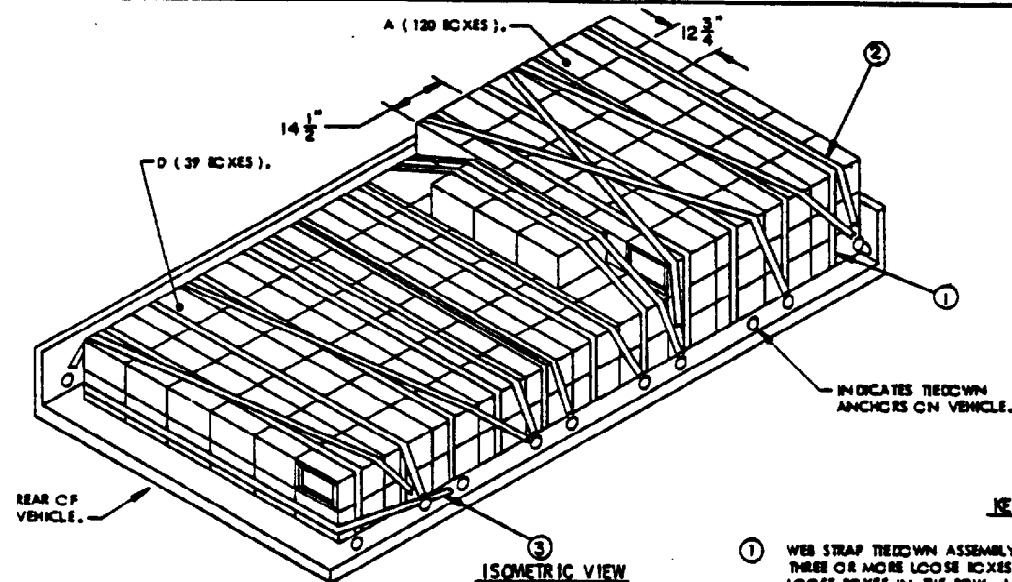
TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 30 AND 31					
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	16
B	CARTRIDGE, 7.62MM, BALL	A131	17-1/2 X 11-1/2 X 8-1/8	81	139
C	CARTRIDGE, .50 CAL	A525	14-1/2 X 12-3/4 X 8-3/8	79	6

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON PAGE 30.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
5.56MM	16 BOXES	1,152 LBS
7.62MM	16 BOXES	1,296 LBS
.50 CAL	6 BOXES	474 LBS
TOTAL WEIGHT		2,922 LBS

*SEE LOAD GUIDANCE NOTE 2 ON PAGE 30.



ISOMETRIC VIEW

LOAD GUIDANCE NOTES (FOR PAGES 32 AND 33):

1. A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON THIS PAGE AND PAGE 33 IN A TRUCK, CARGO, 5-TON, M54, HAVING INSIDE DIMENSIONS OF 168" LONG BY 88" WIDE, AND A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON PAGE 33 IN A TRAILER, CARGO, 1-1/2-TON, M105, HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE.
NOTE: THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 33 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE GPF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 33. THE UNIT BASIC LOAD ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON PAGE 33 HAVE A TOTAL WEIGHT OF 23,242 POUNDS. THEREFORE, PART OF THE LOAD IS SECURED IN AN M54, 5-TON, CARGO TRUCK AS SHOWN ON THIS PAGE AND PAGE 33, AND PART OF THE LOAD IS SECURED IN A M105, 1-1/2-TON, CARGO TRAILER, AS SHOWN ON PAGE 33.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ON THIS PAGE AND PAGE 33 DEPICT METHODS OF SECURING LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES IN/ON TACTICAL VEHICLES. SEE SPECIAL NOTE 7 ON PAGE 6.
5. WHEN LOADING THE VEHICLE, POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER, LONGITUDINALLY AND Laterally. IF THE LOAD IS POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ③ IS REQUIRED. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (5) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ①, AND THE HOLD-DOWN STRAP MARKED ②, AT THE CENTER AND EACH END OF THE LATERAL ROW. BOXES MAY BE STACKED ON TOP OF EACH OTHER, IF DESIRED.
6. A TOTAL OF FIFTY-SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (TWENTY-THREE FOR THE LOAD SHOWN IN THE M54, 5-TON CARGO TRUCK ON THIS PAGE, TWENTY-TWO FOR THE M54, 5-TON CARGO TRUCK SHOWN ON PAGE 33, AND TWELVE FOR THE M105, 1-1/2-TON TRAILER SHOWN ON PAGE 33.
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

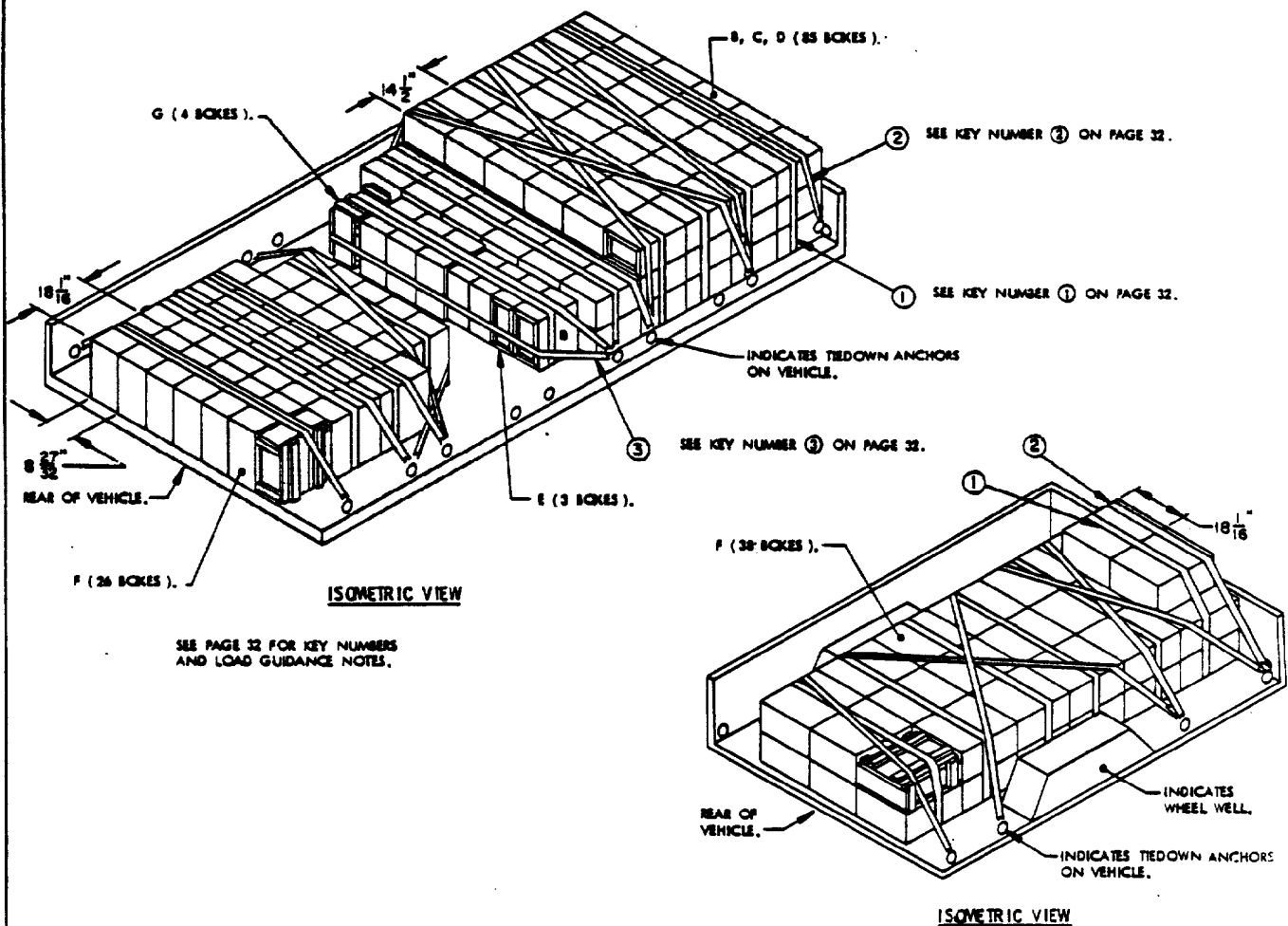
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIrcLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (3 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF REAR MOST BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
7.62MM	120 BOXES	4,960 LBS
.50 CAL	39 BOXES	3,081 LBS
TOTAL WEIGHT		10,041 LBS (APPROX)

* SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



SEE PAGE 32 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

SEE PAGE 32 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 32 AND 33						
	ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY BOXES	
A	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 8-3/8	58	120	
B	CARTRIDGE, .45 CAL, BALL	A475	14-1/2 X 12-3/4 X 8-3/8	108	4	
C	CARTRIDGE, .50 CAL	A576	14-1/2 X 12-3/4 X 8-3/8	79	24	
D	CARTRIDGE, .50 CAL	A589	14-1/2 X 12-3/4 X 8-3/8	79	96	
E	CARTRIDGE, 40MM	B505	14-3/8 X 12-1/16 X 7-1/16	26	3	
F	GRENADE, HD	G815	18-1/16 X 15-7/8 X 8-27/32	68	64	
G	GRENADE, HD, INCD AN/M14	G900	14-1/2 X 13 X 9	43	4	

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN THREE VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON PAGE 32.

LOAD AS SHOWN IN 5-TON TRUCK *

ITEM	QUANTITY	WEIGHT (APPROX)
.50 CAL	81 BOXES	6,399 LBS
.45 CAL	4 BOXES	432 LBS
40MM CART	3 BOXES	78 LBS
GRENADES	30 BOXES	1,940 LBS
TOTAL WEIGHT		8,849 LBS (APPROX)

* SEE LOAD GUIDANCE NOTE 2 ON PAGE 32.

LOAD AS SHOWN IN 1-1/2-TON TRAILER *

ITEM	QUANTITY	WEIGHT (APPROX)
GRENADES	38 BOXES	2,584 LBS

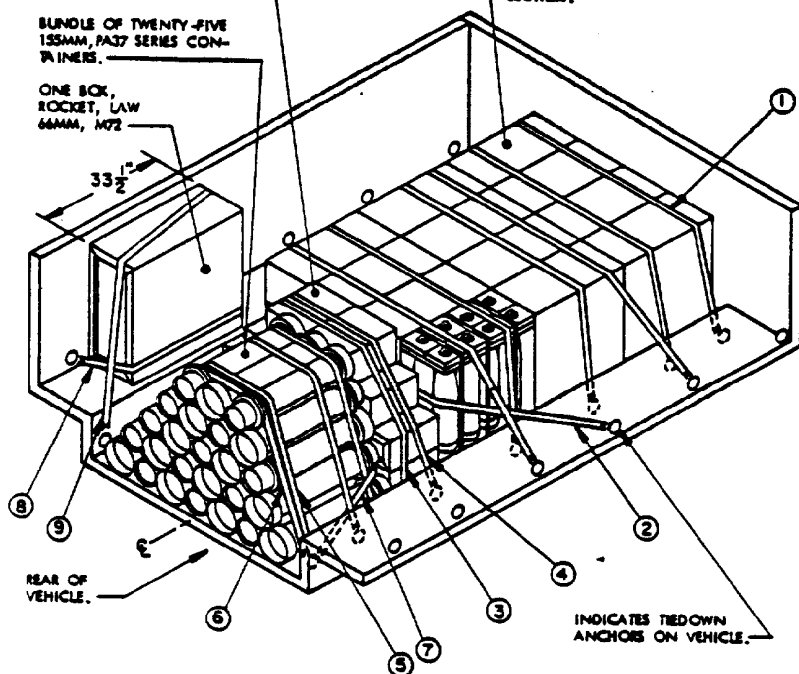
* SEE LOAD GUIDANCE NOTE 2 ON PAGE 32.

ONE STACK OF THIRTEEN LOOSE BOXES, FOUR BOXES ON BOTTOM LAYER.

BUNDLE OF TWENTY-FIVE 155MM, PA37 SERIES CONTAINERS.

ONE BOX, ROCKET, LAW 66MM, M72

TWELVE PALLETS OF 155MM SEPARATE LOADING PROJECTILES.



ISOMETRIC VIEW

SEE PAGE 35 FOR KEY NUMBERS.

(LOAD GUIDANCE NOTES CONTINUED)

7. PRIOR TO LOADING THE M332 TRAILER, PREPOSITION THE WEB STRAP TIEDOWN ASSEMBLIES AS INSTRUCTED IN KEY NUMBER ⑩ ON PAGE 35. POSITION ONE LAYER OF LOOSE PROPELLING CHARGE CONTAINERS ON FLOOR OF TRAILER, ENDS REVERSED, AND BUTTED TIGHT AGAINST THE END WALL. REPEAT THIS PROCEDURE UNTIL ALL CONTAINERS OF SAME SIZE ARE LOADED, OR MAXIMUM STACK HEIGHT IS ACHIEVED. STACK HEIGHT IS ACHIEVED WHEN TOP LAYER OF CONTAINERS EXTENDS PARTIALLY ABOVE THE TOP OF THE END WALL. IN THE LOAD ON PAGE 35 THERE IS ONE STACK OF THIRTY-FIVE M13 SERIES CONTAINERS AGAINST THE REAR WALL OF THE TRAILER AND ONE STACK OF TWENTY M14 SERIES CONTAINERS AGAINST THE FORWARD END WALL OF THE TRAILER. ALSO, THERE ARE TEN M13 SERIES CONTAINERS ON TOP OF THE STACK OF TWENTY M14 SERIES CONTAINERS. FOR ALTERNATIVE METHODS OF SECURING LOOSE PROPELLING CHARGE CONTAINERS, USE THE PROCEDURES SHOWN ON PAGES 11 AND 15.
8. IF THE SEPARATE LOADING PROJECTILES AND/OR THE PROPELLING CHARGE CONTAINERS ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ②, AND/OR ONE ADDITIONAL STRAP MARKED ⑦, IS REQUIRED.
9. A TOTAL OF TWENTY-FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (SIXTEEN FOR THE LOAD SHOWN ON THIS PAGE AND EIGHT FOR THE LOAD SHOWN ON PAGE 35). EACH STRAP ASSEMBLY MARKED ⑩ ON PAGE 35 CONSISTS OF TWO WEB STRAP ASSEMBLIES WITH RATCHET ENDS HOOKED TOGETHER ON TOP OF LOAD.
10. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

LOAD GUIDANCE NOTES (FOR PAGES 34 AND 35)

1. A PARTIAL UNIT BASIC LOAD OF PALLETIZED 155MM PROJECTILES, LOOSE BOXES, AND LOOSE PROPELLING CHARGE CONTAINERS, IS SHOWN IN A CARRIER, CARGO, TRACKED, 6-TON, M548 (DECK DOWN), HAVING INSIDE DIMENSIONS OF 130-5/8" LONG BY 96 1/2" WIDE, AND A PARTIAL UNIT BASIC LOAD OF PROPELLING CHARGE CONTAINERS IS SHOWN ON PAGE 35. IN A TRAILER, AMMUNITION, 1-1/2-TON, M332, HAVING INSIDE DIMENSIONS OF 68 1/2" LONG BY 52 1/8" WIDE.
NOTE: THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND PAGE 35 IS ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE OFF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED, THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 35. THE UNIT BASIC LOADS ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON THIS PAGE HAVE A TOTAL WEIGHT OF 14,021 POUNDS. THEREFORE, PART OF THE LOAD IS SECURED IN AN M548, 6-TON CARGO CARRIER AS SHOWN ABOVE, AND PART OF THE LOAD IS SECURED IN A M332 1 1/2-TON AMMUNITION TRAILER, AS SHOWN ON PAGE 35.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES ON THIS PAGE DEPICT SECUREMENT OF TWELVE PALLETIZED UNITS OF 155MM PROJECTILES HAVING DIMENSIONS OF 13 5/8" LONG BY 27 1/8" WIDE BY 32" HIGH AND WEIGHING 797 POUNDS EACH, FORTY-THREE LOOSE BOXES OF VARIOUS SIZES AND WEIGHTS, AND ONE BUNDLE OF TWENTY-FIVE LOOSE, 155MM, PA37 SERIES CONTAINERS, HAVING DIMENSIONS OF 32 3/4" LONG BY 8 13/32" DIAMETER AND WEIGHING 35 POUNDS EACH. SEE SPECIAL NOTES 6, 7, AND 8 ON PAGES 6 AND 7.
5. THE PROCEDURES SHOWN ON PAGE 35 ARE ONLY FOR LOADING LOOSE PROPELLING CHARGE CONTAINERS IN A TRAILER, AMMUNITION, 1-1/2-TON, M332.
6. THE PROCEDURES SHOWN ON PAGE 35 DEPICT SECUREMENT OF FORTY-FIVE LOOSE, 155MM, M13 SERIES CONTAINERS, HAVING DIMENSIONS OF 27 1/2" LONG BY 7 25/32" DIAMETER AND WEIGHING 30 1/2 POUNDS, AND TWENTY LOOSE, 155MM, M14 SERIES CONTAINERS, HAVING DIMENSIONS OF 37 1/2" LONG BY 6 11/16 DIAMETER AND WEIGHING 28 1/2 POUNDS. SEE SPECIAL NOTE 6 ON PAGE 6.

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TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 34 AND 35

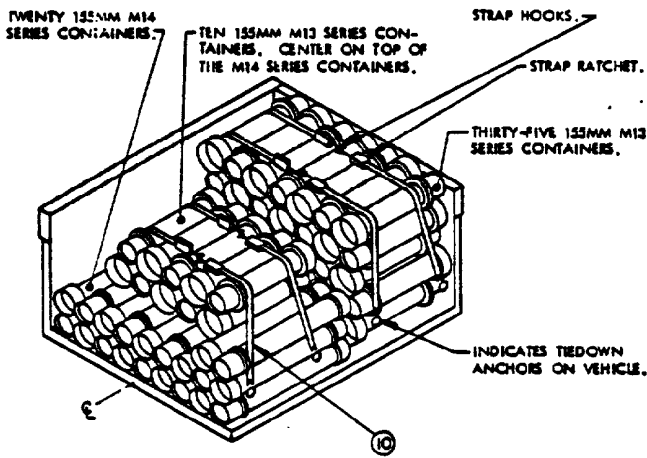
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, .45 CAL BALL	A473	14-1/2 X 12-3/4 X 8-3/8	1.8	1 BOX
B	CARTRIDGE, .50 CAL	A570	14-1/2 X 12-3/4 X 8-3/8	79	4 BOXES
C	PROJECTILE, 155MM, XM462E1	D501	27-1/8 X 13-5/8 X 32	55	4 PROJ
D	PROJECTILE, 155MM, M731	D502	27-1/8 X 13-5/8 X 32	55	9 PROJ
E	PROJECTILE, 155MM, M718	D503	27-1/8 X 13-5/8 X 32	55	10 PROJ
F	PROJECTILE, 155MM, M741	D509	29-1/8 X 14-5/8 X 39	95	4 PROJ
G	PROJECTILE, 155MM, M107	D544	27-1/8 X 13-5/8 X 32	55	12 PROJ
H	PROJECTILE, 155MM, M448	D563	29-1/8 X 14-5/8 X 39	95	57 PROJ
J	PROP CH, 155MM, PA37	D533	32-3/4 X 8-13/32	35	25 PC
K	PROP CH, 155MM, M14	D540	37-1/2 X 6-11/16	28.5	20 PC
L	PROP CH, 155MM, M13	D541	27-1/2 X 7-25/32	30.5	45 PC
M	ROCKET, LAW, 66MM, M72	H557	33-1/2 X 31-1/8 X 13-3/4	118	1 BOX
N	FUZE, M577	N285	14-5/8 X 12-13/16 X 8-9/16	60	8 BOXES

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE, HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON THIS PAGE.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 155MM	12	9,564 LBS
PROP CHARGES	25	1,375 LBS
BOXED AMMO	14	1,140 LBS
TOTAL WEIGHT		12,079 LBS

*SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



ISOMETRIC VIEW

SEE PAGE 34 FOR LOAD GUIDANCE NOTES.

KEY NUMBERS (FOR PAGES 34 AND 35)

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING, STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNITS, AGAINST PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ①, IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES. HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

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(KEY NUMBERS CONTINUED)

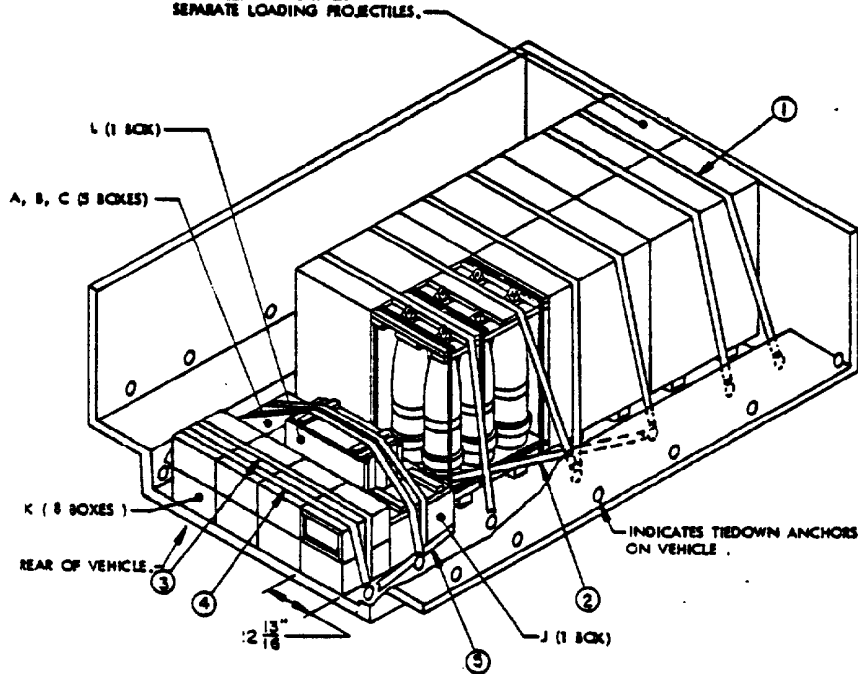
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ⑦ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑥ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑥ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE AROUND BOX, TO A TIEDOWN ANCHOR ON SIDE OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTE "M" ON PAGE 2.
- ⑨ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM SAME TIEDOWN ON SIDE OF VEHICLE, AT FORWARD END OF BOX, THAT WEB STRAP MARKED ⑩ IS ATTACHED TO, UP OVER TOP OF BOX AND DOWN TO A TIEDOWN ANCHOR AT REAR OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTE "M" ON PAGE 2.
- ⑩ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). PRIOR TO LOADING TRAILER ATTACH THE NON-RATCHET END OF A STRAP TO A TIEDOWN ANCHOR ON SIDEWALL OF TRAILER AND DRAPE RATCHET END OF STRAP OVER TRAILER SIDE WALL. DO THIS WITH ALL EIGHT STRAPS AT THE FOUR TIEDOWN ANCHOR LOCATIONS ON EACH SIDE OF THE TRAILER. FOLLOW THE LOADING INSTRUCTIONS IN LOAD GUIDANCE NOTE 7, ON PAGE 34, THEN HOOK RATCHET ENDS OF MATING STRAPS TOGETHER OVER TOP OF EACH STACK, TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
PROP CHARGES	68	1,942 LBS

* SEE LOAD GUIDANCE NOTE 2 ON PAGE 34.

584 PALLETS OF 8-INCH
SEPARATE LOADING PROJECTILES.



ISOMETRIC VIEW

SEE PAGE 37 FOR KEY NUMBERS.

(LOAD GUIDANCE NOTES CONTINUED)

7. PRIOR TO LOADING THE M532 TRAILER PREPOSITION THE WEB STRAP TIEDOWN ASSEMBLIES AS INSTRUCTED IN KEY NUMBER ① ON PAGE 37. POSITION ONE LAYER OF LOOSE PROPELLING CHARGE CONTAINERS ON FLOOR OF TRAILER, ENDS REVERSED, AND BUTTED TIGHT AGAINST THE END WALL. REPEAT THIS PROCEDURE UNTIL ALL CONTAINERS OF SAME SIZE ARE LOADED, OR MAXIMUM STACK HEIGHT IS ACHIEVED. STACK HEIGHT IS ACHIEVED WHEN TOP LAYER OF CONTAINERS EXTENDS PARTIALLY ABOVE THE TOP OF THE END WALL. IN THE LOAD ON PAGE 37 THERE IS ONE STACK OF SIXTEEN M19A2 SERIES CONTAINERS, WITH FIVE M18A2 SERIES CONTAINERS ON TOP, AGAINST THE FORWARD END WALL OF THE TRAILER, AND ONE STACK OF EIGHTEEN M18A1 SERIES CONTAINERS AGAINST THE REAR END WALL OF THE TRAILER. FOR ALTERNATIVE METHODS OF SECURING LOOSE PROPELLING CHARGE CONTAINERS USE THE PROCEDURES SHOWN ON PAGES 11 AND 13.
8. IF THE SEPARATE LOADING PROJECTILES AND/OR THE LOOSE BOXES ARE POSITIONED AWAY FROM THE END WALL ONE ADDITIONAL STRAP MARKED ② AND/OR ③ IS REQUIRED.
9. A TOTAL OF TWENTY WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (TWELVE FOR THE LOAD SHOWN ON THIS PAGE AND EIGHT FOR THE LOAD SHOWN ON PAGE 37). EACH STRAP ASSEMBLY MARKED ④ ON PAGE 37 CONSISTS OF TWO WEB STRAP ASSEMBLIES WITH HATCHET ENDS HOOKED TOGETHER ON TOP OF LOAD.
10. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

LOAD GUIDANCE NOTES (FOR PAGES 36 AND 37)

1. A PARTIAL UNIT BASIC LOAD OF PALLETIZED 8-INCH PROJECTILES, AND LOOSE BOXES IS SHOWN IN A CARRIER, CARGO, TRACKED, 6-TON, M548 (DECK DOWN), HAVING INSIDE DIMENSIONS OF 130-5/8" LONG BY 96-1/2" WIDE, AND A PARTIAL UNIT BASIC LOAD OF PROPELLING CHARGE CONTAINERS IS SHOWN ON PAGE 37. IN A TRAILER, AMMUNITION, 1 1/2-TON, M332, HAVING INSIDE DIMENSIONS OF 68 1/2" LONG BY 53 2/8" WIDE. NOTE: THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 37 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. DUE TO THE QUANTITY OF ITEMS IN A UNIT BASIC LOAD, THE SIZE OF THE VEHICLE, AND LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO DIVIDE THE UNIT BASIC LOAD AND SECURE THE ITEMS IN TWO VEHICLES AS SHOWN ON THIS PAGE AND PAGE 37.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ON THIS PAGE DEPICT SECUREMENT OF THREE PALLETIZED UNITS OF 8-INCH PROJECTILES HAVING DIMENSIONS OF 22 1/2" LONG BY 31 5/8" WIDE BY 45 5/8" HIGH AND WEIGHING 1,260 POUNDS, THREE PALLETIZED UNITS OF 8-INCH PROJECTILES HAVING DIMENSIONS OF 22 1/2" LONG BY 31 5/8" WIDE BY 48 1/8" HIGH AND WEIGHING 1,316 POUNDS, AND FIFTEEN LOOSE BOXES OF VARIOUS SIZES AND WEIGHTS. SEE SPECIAL NOTES 7 AND 8 ON PAGE 7.
5. THE PROCEDURES SHOWN ON PAGE 37 ARE ONLY FOR LOADING LOOSE PROPELLING CHARGE CONTAINERS IN A TRAILER, AMMUNITION, 1 1/2-TON, M332.
6. THE PROCEDURES SHOWN ON PAGE 37 DEPICT SECUREMENT OF EIGHTEEN LOOSE, 8-INCH, PA66 SERIES CONTAINERS HAVING DIMENSIONS OF 37 3/4" LONG BY 10 13/32" DIAMETER AND WEIGHING 50 POUNDS, SIXTEEN LOOSE, 8-INCH, M19A2 SERIES CONTAINERS HAVING DIMENSIONS OF 29 9/32" LONG BY 9 13/16" DIAMETER AND WEIGHING 54 POUNDS, AND FIVE LOOSE 8-INCH M18A2 SERIES CONTAINERS HAVING DIMENSIONS OF 26 9/32" LONG BY 8 13/32" DIAMETER AND WEIGHING 34 POUNDS. SEE SPECIAL NOTE 6 ON PAGE 6.

(CONTINUED AT RIGHT)

TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 36 AND 37

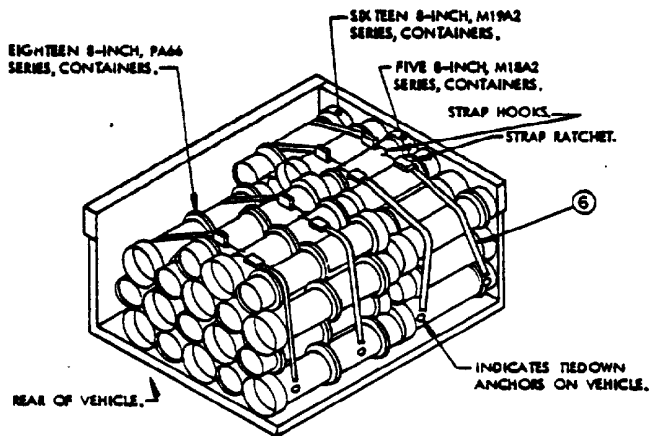
ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A CARTRIDGE, 5.56MM	A068	14-1/2 X 12-3/4 X 8-3/8	72	2 BOXES
B CARTRIDGE, .50 CAL	A589	14-1/2 X 12-3/4 X 8-3/8	79	2 BOXES
C SPOTTING CHARGE	D003	14-5/8 X 12-13/16 X 8-9/16	28	1 BOX
D PROJECTILE, 8-INCH, M460	D624	22-1/2 X 31-5/8 X 45-5/8	1260	3 PALLETS
E PROJECTILE, 8-INCH, M404	D651	22-1/2 X 31-5/8 X 48-1/8	1316	3 PALLETS
F PROP CH, 8-INCH, PA66	D462	37-3/4 X 10-15/32	50	18 PC
G PROP CH, 8-INCH, M18A2	D675	26-9/32 X 8-13/32	34	5 PC
H PROP CH, 8-INCH, M19A2	D681	29-9/32 X 9-13/16	54	16 PC
J FLASH REDUCER	D681	18-7/8 X 9-1/2 X 15	66	1 BOX
K FUZE	N285	14-5/8 X 12-13/16 X 8-9/16	60	8 BOXES
L PRIMERS, M32	N323	24-1/8 X 12 X 11-13/16	49	1 BOX

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON THIS PAGE.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH	6	7,728 LBS
BOXED AMMO	15	925 LBS
TOTAL WEIGHT		8,653 LBS

* SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



ISOMETRIC VIEW

SEE PAGE 36 FOR LOAD GUIDANCE NOTES

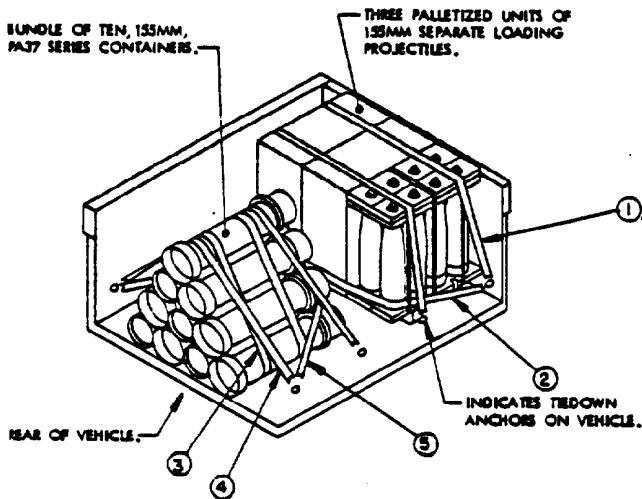
KEY NUMBERS (FOR PAGES 36 AND 37)

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF ROW/STACK OF BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND ENDS OF BOXES AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ④, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ④ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). PRIOR TO LOADING TRAILER ATTACH THE NON-RATCHET END OF A STRAP TO A TIEDOWN ANCHOR ON SIDEWALL OF TRAILER AND DRAPE RATCHET END OF STRAP OVER TRAILER SIDE WALL. DO THIS WITH ALL EIGHT STRAPS AT THE FOUR TIEDOWN ANCHOR LOCATIONS ON EACH SIDE OF THE TRAILER. FOLLOW THE LOADING INSTRUCTIONS IN LOAD GUIDANCE NOTE 7 ON PAGE 34, THEN HOOK RATCHET ENDS OF MATING STRAPS TOGETHER OVER TOP OF EACH STACK, TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN*

ITEM	QUANTITY	WEIGHT (APPROX)
PROP CHARGES	39	2,126 LBS

* SEE LOAD GUIDANCE NOTE 2 ON PAGE 36.



ISOMETRIC VIEW

SEE PAGE 39 FOR KEY NUMBERS.

LOAD GUIDANCE NOTES (FOR PAGE 38 AND 39)

1. A PARTIAL UNIT BASIC LOAD OF PALLETIZED 155MM PROJECTILES AND LOOSE PROPELLING CHARGE CONTAINERS IS SHOWN ON THIS PAGE IN A TRAILER, AMMUNITION, 1-1/2-TON, M332 AND A PARTIAL UNIT BASIC LOAD OF LOOSE BOXES IS SHOWN ON PAGE 39 IN A TRAILER, AMMUNITION, 1-1/2-TON, M332, HAVING INSIDE DIMENSIONS OF 68-1/2" LONG BY 55-3/8" WIDE. **NOTE:** THE PARTIAL UNIT BASIC LOAD SHOWN ON THIS PAGE AND THE PARTIAL UNIT BASIC LOAD SHOWN ON PAGE 39 ARE ONE FULL UNIT BASIC LOAD DIVIDED AND SECURED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTE 2 BELOW.
2. IF THE TOTAL WEIGHT OF THE UNIT BASIC LOAD EXCEEDS THE OFF-HIGHWAY WEIGHT LIMIT FOR THE VEHICLE BEING LOADED, THE EXCESS UNIT BASIC LOAD ITEMS MUST BE LOADED IN ANOTHER VEHICLE AS SHOWN ON THIS PAGE AND PAGE 39. THE UNIT BASIC LOAD ITEMS SHOWN IN THE TYPICAL UNIT BASIC LOAD CHART ON THIS PAGE HAVE A TOTAL WEIGHT OF 3,394 POUNDS.
3. THE VEHICLES SHOWN WERE SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
4. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF THREE PALLETIZED UNITS OF 155MM PROJECTILES HAVING DIMENSIONS OF 13-5/8" LONG BY 27-1/8" WIDE BY 32" HIGH AND WEIGHING 797 POUNDS, AND ONE BUNDLE OF TEN LOOSE, 155MM, PA37 SERIES CONTAINERS, HAVING DIMENSIONS OF 32-3/4" LONG BY 8-13/32" DIAMETER AND WEIGHING 55 POUNDS EACH. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS AND/OR PALLETIZED UNITS OF SEPARATE LOADING PROJECTILES OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 6 AND 8 ON PAGE 7.
5. THE PROCEDURES SHOWN ON PAGE 39 DEPICT SECUREMENT OF TEN LOOSE BOXES OF AMMUNITION OF VARIOUS SIZES AND QUANTITIES. SEE SPECIAL NOTE 7 ON PAGE 6.
6. WHEN LOADING THE VEHICLE (S), POSITION THE 155MM PALLETS TIGHT AGAINST THE END WALL AND EACH OTHER. POSITION THE PROPELLING CHARGES TIGHT AGAINST THE END WALL, AND POSITION THE LOOSE BOXES TIGHT AGAINST THE END WALL AND EACH OTHER. IF THE SEPARATE LOADING PROJECTILES, PROPELLING CHARGE CONTAINERS, AND LOOSE BOXES ARE POSITIONED AWAY FROM THE END WALL, ONE ADDITIONAL STRAP MARKED ②, ⑤, AND/OR ⑥ IS REQUIRED.
7. A TOTAL OF FOURTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE UNIT BASIC LOAD SHOWN (EIGHT FOR THE LOAD SHOWN ON THIS PAGE AND SIX FOR THE LOAD SHOWN ON PAGE 39).
8. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

TYPICAL UNIT BASIC LOAD SHOWN ON PAGES 38 AND 39

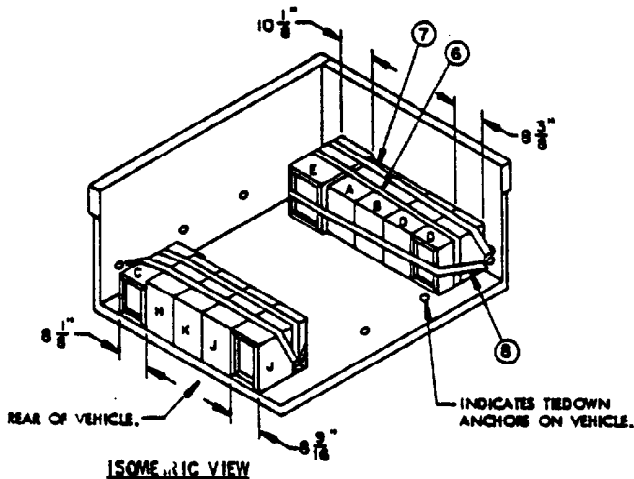
	ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
B	CARTRIDGE, 5.56MM, BALL	A071	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
C	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 8-3/8	58	1 BOX
D	CARTRIDGE, .50 CAL	A576	14-1/2 X 12-3/4 X 8-3/8	79	2 BOXES
E	CARTRIDGE, 40MM	3546	16 X 13-1/2 X 10-1/8	53	1 BOX
F	PROP CH, 155MM, PA37	0533	32-3/4 X 8-13/32	55	10 PC
G	PROJECTILE, 155MM	0579	27-1/8 X 13-5/8 X 32	797	3 PALLETS
H	FUZE	N278	14-5/8 X 12-13/16 X 8-9/16	60	1 BOX
J	FUZE	N340	14-5/8 X 12-13/16 X 8-9/16	60	2 BOXES
K	FUZE	N464	14-5/8 X 12-13/16 X 8-9/16	60	1 BOX

NOTE: THE UNIT BASIC LOAD LISTED IN THE CHART ABOVE HAS BEEN DIVIDED AND LOADED IN TWO VEHICLES. SEE LOAD GUIDANCE NOTES 1 AND 2 ON THIS PAGE.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 155MM	3	2,391 LBS
PROP CHARGES	10	550 LBS
TOTAL WEIGHT		2,941 LBS

* SEE LOAD GUIDANCE NOTE 2 ON THIS PAGE.



KEY NUMBERS (FOR PAGES 38 AND 39)

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTE "F", "G", AND "M" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND THE PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIROLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY, AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ④ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ④ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ④ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIROLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOXES TIGHT AGAINST EACH OTHER. AFTER ALL BOXES ARE LOADED, BRING ENDS OF STRAP UP OVER TOP OF BOXES, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.

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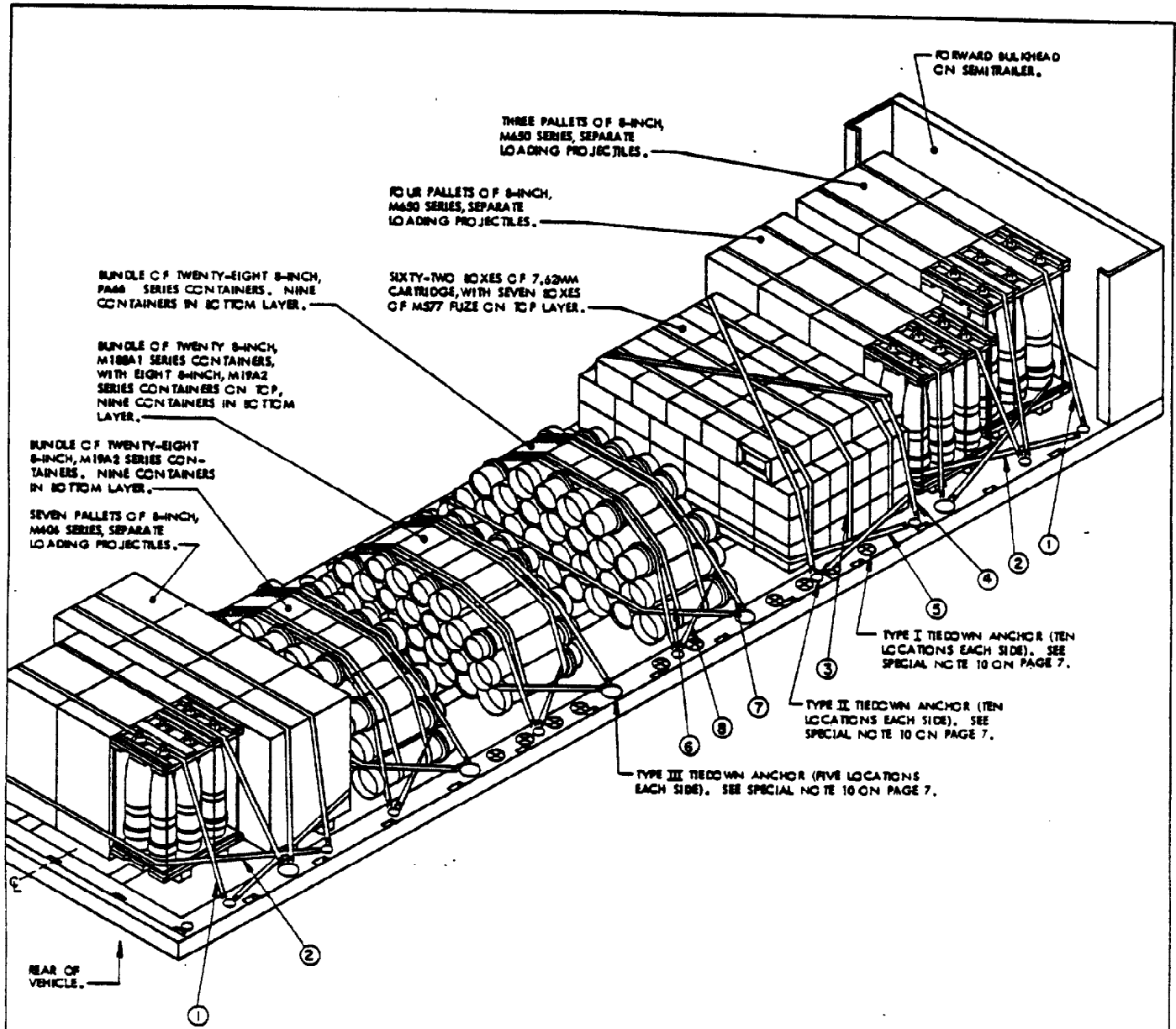
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (ONE REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS A STRAP MARKED ⑦, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ⑦ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.

LOAD AS SHOWN *

ITEM	QUANTITY	WEIGHT (APPROX)
BOXED AMMO	10	653 LBS

*

SEE LOAD GUIDANCE NOTE 2 ON PAGE 38.



ISOMETRIC VIEW

TYPICAL UNIT BASIC LOAD SHOWN					
	ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 9-3/8	58	62 BOXES
B	PROJECTILE, 8-INCH, M450	D624	22-1/2 X 31-5/8 X 45-5/8	1,260	3 PALLETS
C	PROP CH, 8-INCH, P486	D662	37-3/4 X 10-15/32	50	20 PC
D	PROP CH, 8-INCH, M19A2	D681	29-9/32 X 9-13/16	54	64 PC
E	PROJECTILE, 8-INCH, M404	D684	19-1/2 X 28-1/2 X 39-1/2	1,253	11 PALLETS
F	FUZE, M577	N285	14-5/8 X 12-13/16 X 8-9/16	68	7 BOXES

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROJ	14	17,563 LBS
PROP CHARGES	84	4,454 LBS
7.62MM	62 BOXES	3,594 LBS
FUZE, M577	7 BOXES	420 LBS

TOTAL WEIGHT 26,031 LBS

LOAD GUIDANCE NOTES: (FOR PAGES 40 AND 41)

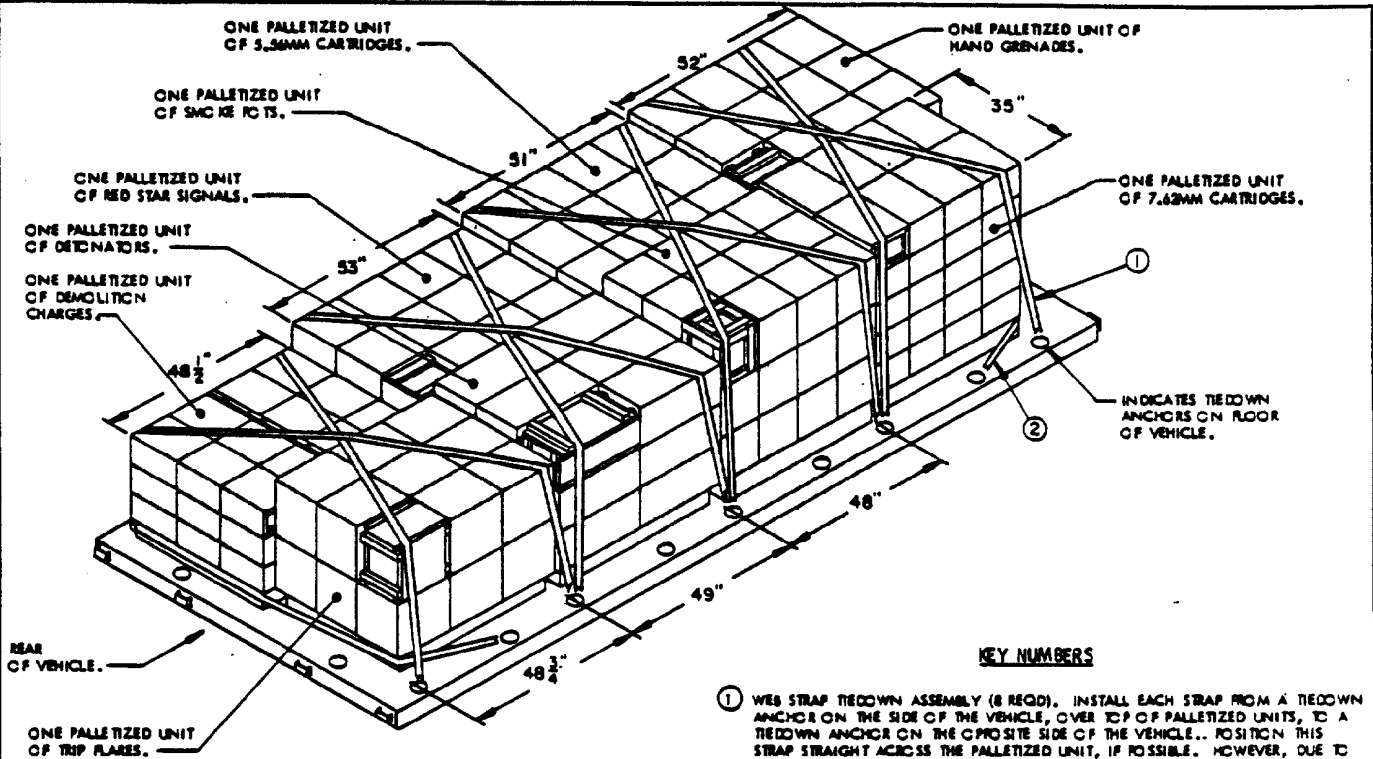
1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED 8-INCH PROJECTILES, LOOSE PROPELLING CHARGE CONTAINERS, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A SEMITRAILER, 22 1/2-TON, M871, HAVING DIMENSIONS OF 354" LONG BY 96" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS A TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN, OR A PARTIAL LOAD.
3. THE PROCEDURES SHOWN ON PAGE 40 DEPICT SECUREMENT OF THREE PALLETIZED UNITS OF 8-INCH, M450 SERIES PROJECTILES, ELEVEN PALLETIZED UNITS OF 8-INCH, M406 SERIES PROJECTILES, TWENTY 8-INCH, M466 " SERIES PROPELLING CHARGE CONTAINERS, SIXTY-TWO LB 8-INCH, M19A2 SERIES PROPELLING CHARGE CONTAINERS, SIXTY-TWO BOXES OF 7.62MM CARTRIDGES, AND SEVEN BOXES OF M577 FUZE. IF LOADING SIMILAR ITEMS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5, 6, AND 7, ON PAGES 6 AND 7.
4. WHEN LOADING THE VEHICLE, POSITION EACH LATERAL ROW OF PALLETIZED PROJECTILES TIGHT AGAINST EACH OTHER AND AT A LOCATION THAT WILL ALLOW TWO STRAPS MARKED ① TO BE POSITIONED OVER THE TOP OF EACH ROW. POSITION EACH STACK OF LOOSE PROPELLING CHARGE CONTAINERS TO CENTER ON TWO TIEDOWN ANCHORS AT SIDE OF VEHICLE THAT WILL ALLOW TWO STRAPS MARKED ② TO BE POSITIONED OVER THE TOP OF EACH STACK. POSITION EACH LATERAL ROW OF LOOSE BOXES TIGHT AGAINST EACH OTHER AND AT A LOCATION THAT WILL ALLOW HOLD-DOWN STRAPS MARKED ③ TO BE POSITIONED OVER THE TOP OF THE STACKS.
5. A TOTAL OF THIRTY-SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN ON PAGE 40.
6. IF AN M872, 34-TON, SEMITRAILER IS BEING USED FOLLOW THESE SAME PROCEDURES AND SEE SPECIAL NOTE 11 ON PAGE 7.
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS (FOR PAGES 40 AND 41)

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REQ'D). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (3 REQ'D). INSTALL STRAP TO ENIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQUIRED FOR EACH LATERAL ROW OF LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, IF POSSIBLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOXES, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ②, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ② IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (6 REQ'D). INSTALL EACH STRAP TO ENIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING THE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (4 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (4 REQ'D). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF 30 TROM LAYER AND SECOND LAYER CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

SPECIAL NOTES:

1. THE LOADS SHOWN ON PAGES 43 THRU 61 ARE BASED ON TESTED METHODS OF SECURING PALLETIZED AND/OR LOOSE PROPELLING CHARGE CONTAINERS, PALLETIZED AND/OR LOOSE SEPARATE LOADING PROJECTILES, AND PALLETIZED AND/OR LOOSE BOXED AMMUNITION ON THE HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), 10-TON, M977 AND/OR M995. NOTE: THE METHODS SHOWN ON PAGES 43 THROUGH 61 APPLY TO THE HEMTT ONLY AND MUST NOT BE USED ON OTHER TYPES OF TACTICAL VEHICLES. HOWEVER, THE METHODS SHOWN ON PAGES 8 THROUGH 41 MAY ALSO BE USED TO SECURE LOADS ON THE HEMTT. THESE LOADS MUST BE POSITIONED AWAY FROM THE HEMTT END WALLS AND SIDE WALLS, AND SECURED AS INSTRUCTED.
2. THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 DO NOT REQUIRE THE DRP-SIDES AND/OR END WALLS FOR LOAD SECUREMENT. THE DRP-SIDES AND END WALLS HAVE BEEN OMITTED FOR CLARITY. HOWEVER, THE DRP-SIDES AND END WALLS MAY BE LEFT IN POSITION ON THE VEHICLE AS IT IS ONLY NECESSARY TO DRP THE SIDE PANELS FOR LOADING AND/OR UNLOADING. DO NOT POSITION THE LADING AGAINST THE END WALLS AND/OR SIDEWALLS. WHEN POSSIBLE, ALLOW A MINIMUM SPACE OF 2" BETWEEN THE VEHICLE END WALLS AND THE LADING. DO NOT POSITION LADING ON TOP OF THE VEHICLE TIEDOWN ANCHORS POSITIONED ALONG THE SIDES OF THE CARGO AREA.
3. THE UNIT BASIC LOAD ITEMS SHOWN WERE SELECTED AS TYPICAL ONLY AND OTHER UNIT BASIC LOAD ITEMS MAY BE LOADED AND SECURED IN LIEU OF THOSE SHOWN AS LONG AS THE APPROVED PROCEDURES SHOWN WITHIN THIS DOCUMENT ARE FOLLOWED.
4. PRIOR TO LOADING THE UNIT BASIC LOAD ITEMS ON A VEHICLE, SELECT A LOCATION WITHIN THE LENGTH OF THE CARGO BED THAT WILL PROVIDE ADEQUATE TIEDOWN ANCHORS TO SECURE THE LOAD USING THE TIEDOWN PROCEDURES DEPICTED ON PAGES 43 THROUGH 61.
5. STACKS OF LOOSE BOXES SHOULD BE STABLE, AND OF A LENGTH AND HEIGHT THAT WILL ALLOW THE STACK TO BE ENCLOSED BY ONE WEB STRAP TIEDOWN ASSEMBLY. IF IT IS NECESSARY TO FABRICATE A LARGER STACK, TWO WEB STRAP TIEDOWN ASSEMBLIES MAY BE HOOKED TOGETHER TO GAIN THE NECESSARY LENGTH. POSITION HOOKS AND RATCHETS AT ENDS OR ON TOP OF THE STACK. SEE GENERAL NOTE "P" ON PAGE 2.
6. WHEN LOADING AND SECURING PALLETIZED UNITS OF PROPELLING CHARGE CONTAINERS, AND/OR PALLETIZED UNITS OF WOODEN BOXES, HAVING STEEL UNITIZING STRAPS, FOLLOW THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 AND SEE SPECIAL NOTE 3 ON PAGE 6.
7. WHEN LOADING AND SECURING "LOOSE" PROPELLING CHARGE CONTAINERS, FOLLOW THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 AND SEE SPECIAL NOTE 6 ON PAGE 6.
8. WHEN LOADING AND SECURING "LOOSE" BOXED AMMUNITION, FOLLOW THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 AND SEE SPECIAL NOTE 7 ON PAGE 6.
9. WHEN LOADING AND SECURING PALLETIZED 155MM AND/OR 8-INCH SEPARATE LOADING PROJECTILES, FOLLOW THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 AND SEE SPECIAL NOTE 8 ON PAGE 7.
10. WHEN LOADING AND SECURING "LOOSE" 155MM AND/OR 8-INCH SEPARATE LOADING PROJECTILES, FOLLOW THE PROCEDURES SHOWN ON PAGES 43 THROUGH 61 AND SEE SPECIAL NOTE 9 ON PAGE 7.



ISOMETRIC VIEW

LOAD GUIDANCE NOTES:

1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 90 3/4" WIDE.
2. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF PALLETIZED 5.56MM CARTRIDGES, PALLETIZED 7.62MM CARTRIDGES, PALLETIZED HAND GRENADES, PALLETIZED SMOKE POTS, PALLETIZED RED STAR SIGNALS, PALLETIZED TRIP FLARES, PALLETIZED DEMOLITION CHARGES, AND PALLETIZED DETONATORS. IF LOADING PALLETIZED UNITS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTE 5 ON PAGE 6.
3. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
4. A TOTAL OF TEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS AS SHOWN. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

TYPICAL UNIT BASIC LOAD SHOWN

	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 5.56MM	A068	43-1/2 X 51 X 39	2,152	1 PALLET
B	CARTRIDGE, 7.62MM, BALL	A131	35 X 46 X 46-1/8	3,312	1 PALLET
C	GRENADE, MD, INCEN, AN/M14	G900	43-1/2 X 52 X 41-1/2	2,152	1 PALLET
D	SMOKE POT	K866	36 X 48 X 44-7/8	1,765	1 PALLET
E	SIG, RED STAR, M158A1	L306	40-1/8 X 53 X 35-1/4	1,407	1 PALLET
F	FLARE, SUR, TRIP, M99A1	L495	37-1/2 X 48-3/4 X 35-1/2	917	1 PALLET
G	DEMO CHARGE	M023	41-1/4 X 48-1/2 X 27-1/2	1,798	1 PALLET
H	DETONATOR	M450	39 X 49 X 38-1/2	1,472	1 PALLET

LOAD AS SHOWN

ITEM QUANTITY WEIGHT (APPROX)
 PALLETIZED UNITS — 6 — 16,370 LBS

BUNDLE OF TWENTY-TWO 8-INCH, PA44 SERIES CONTAINERS, WITH FOUR 8-INCH, M2 SERIES CONTAINERS ON TOP LAYER. SEE SECTION VIEW B-B ON THIS PAGE.

FOUR PALLETS OF 8-INCH, M404 SERIES, SEPARATE LOADING PROJECTILES.

FIVE PALLETS OF 8-INCH, M450 SERIES, SEPARATE LOADING PROJECTILES.

TWO PALLETS OF 8-INCH, M404 SERIES, SEPARATE LOADING PROJECTILES.

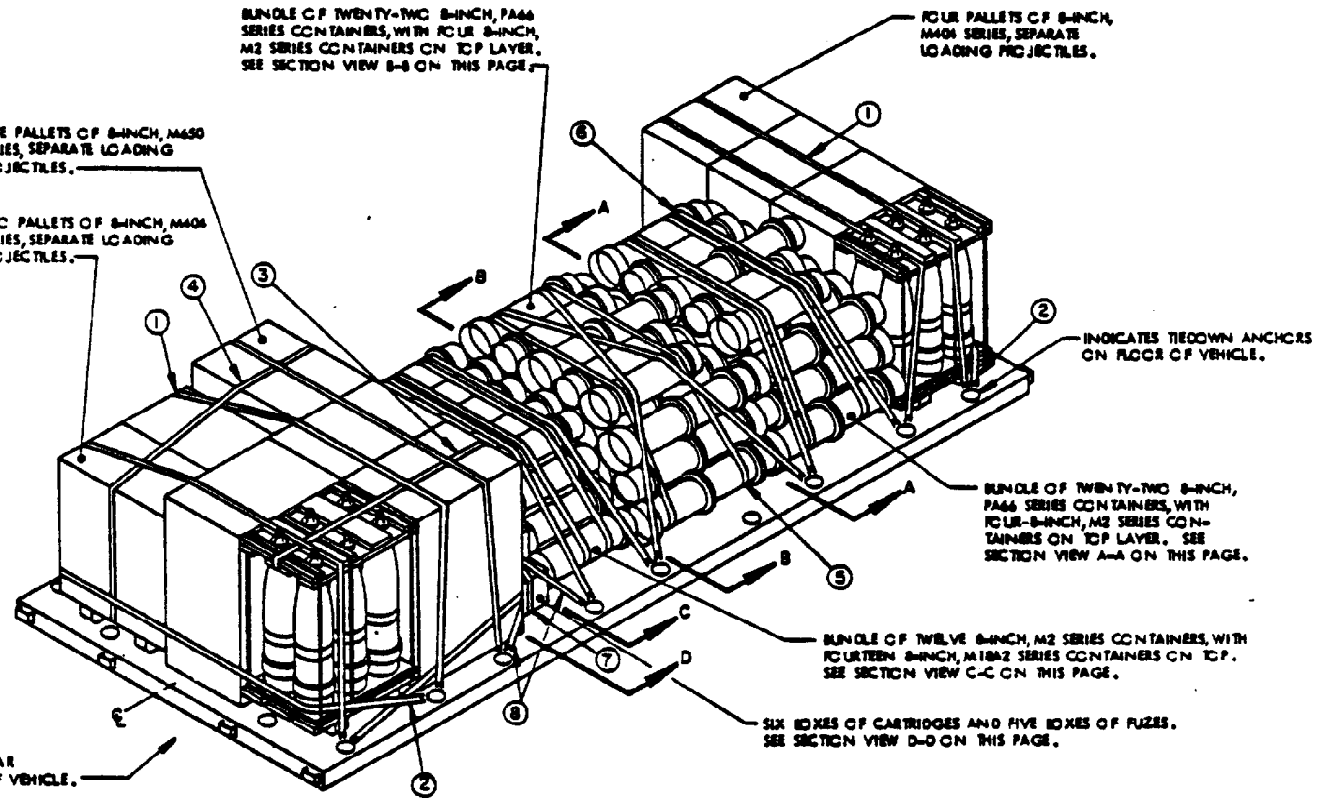
INDICATES TIEDOWN ANCHORS ON FLOOR OF VEHICLE.

BUNDLE OF TWENTY-TWO 8-INCH, PA44 SERIES CONTAINERS, WITH FOUR 8-INCH, M2 SERIES CONTAINERS ON TOP LAYER. SEE SECTION VIEW A-A ON THIS PAGE.

BUNDLE OF TWELVE 8-INCH, M2 SERIES CONTAINERS, WITH FOURTEEN 8-INCH, M18A2 SERIES CONTAINERS ON TOP. SEE SECTION VIEW C-C ON THIS PAGE.

SIX BOXES OF CARTRIDGES AND FIVE BOXES OF FUZZES. SEE SECTION VIEW D-D ON THIS PAGE.

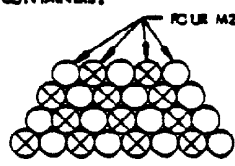
REAR OF VEHICLE.



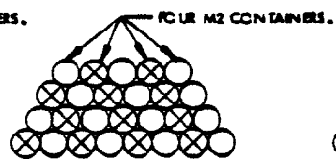
ISOMETRIC VIEW

SEE PAGE 45 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

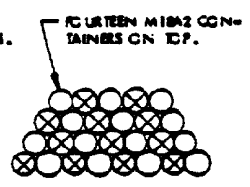
⊗ INDICATES OPENING END OF CONTAINERS.



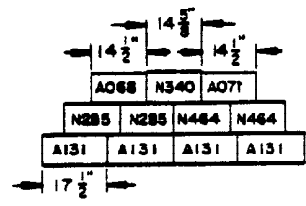
SECTION A-A
22 PA44 CONTAINERS
4 M2 CONTAINERS



SECTION B-B
22 PA44 CONTAINERS
4 M2 CONTAINERS



SECTION C-C
12 M2 CONTAINERS
14 M18A2 CONTAINERS



SECTION D-D

TYPICAL UNIT BASIC LOAD SHOWN

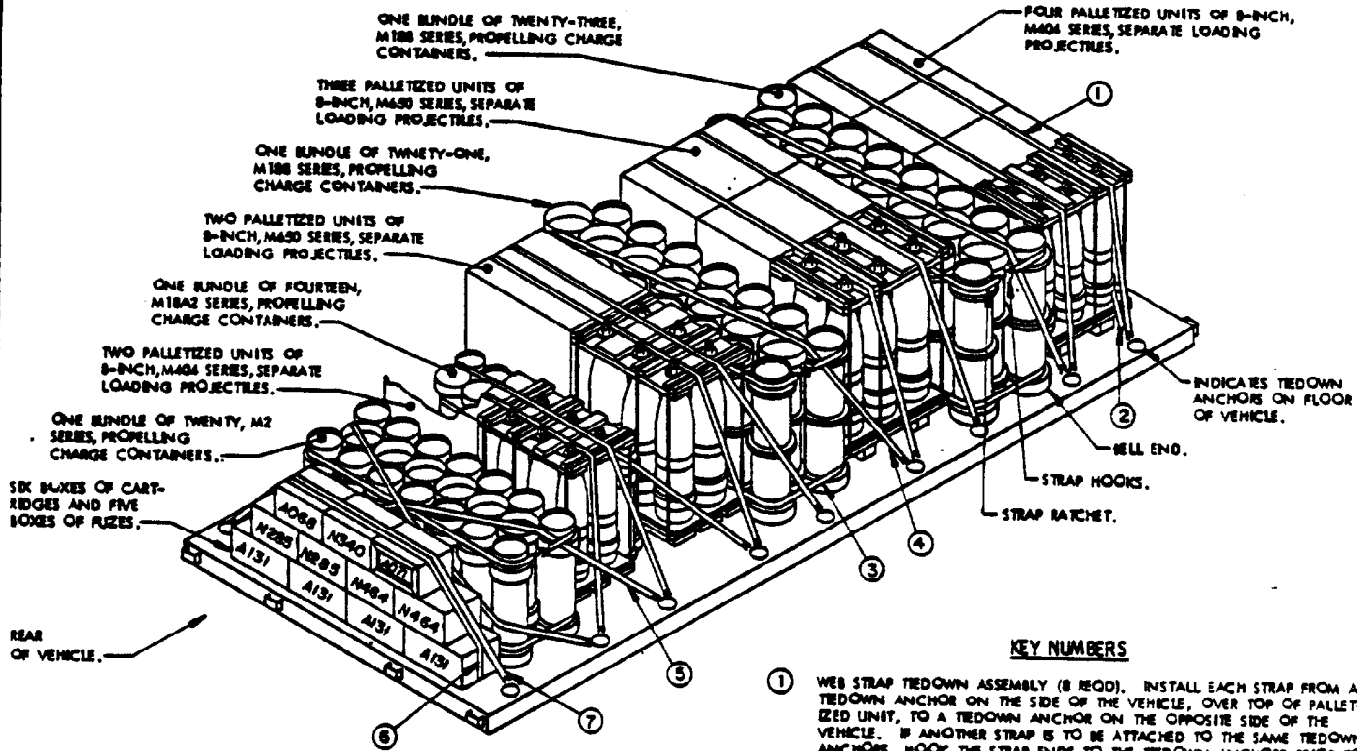
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
B	CARTRIDGE, 5.56MM, BALL	A071	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
C	CARTRIDGE, 7.62MM, BALL	A131	17-1/2 X 11-1/2 X 8-1/8	81	4 BOXES
D	PROJECTILE, 8-INCH, M450	D424	23-5/8 X 31-3/4 X 45-5/8	1,240	5 PALLETS
E	PROJECTILE, 8-INCH, M404	D451	19-1/2 X 28-1/2 X 39-1/2	1,253	6 PALLETS
F	PROP CH, 8-INCH, PA44	D442	37-3/4 X 10-15/32	50	44 PC
G	PROP CH, 8-INCH, M18A2	D475	26-9/32 X 8-13/32	34	14 PC
H	PROP CH, 8-INCH, M2	D476	29-9/32 X 9-13/32	54	20 PC
J	FUZZ, M577	N285	14-5/8 X 12-13/16 X 9-1/8	56	2 BOXES
K	FUZZ	N340	14-5/8 X 12-13/16 X 8-9/16	60	1 BOX
L	FUZZ	N464	14-5/8 X 12-13/16 X 8-9/16	60	2 BOXES

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROS	11	13,818 LBS
PROP CHARGES	78	3,756 LBS
CARTRIDGES	4 BOXES	468 LBS
FUZZES	5 BOXES	298 LBS
TOTAL WEIGHT		18,339 LBS

1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED 8-INCH PROJECTILES, LOOSE PROPELLING CHARGE CONTAINERS, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 90 3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 44 DEPICT SECUREMENT OF FIVE PALLETIZED UNITS OF 8-INCH, M450 SERIES PROJECTILES, SIX PALLETIZED UNITS OF 8-INCH, M450 SERIES PROJECTILES, FORTY-FOUR 8-INCH, P466 SERIES PROPELLING CHARGE CONTAINERS, TWENTY 8-INCH M2 SERIES PROPELLING CHARGE CONTAINERS, FORTY-EIGHT 8-INCH, M18A2 SERIES PROPELLING CHARGE CONTAINERS, SIX BOXES OF CARTRIDGES, AND FIVE BOXES OF RIFLES. IF LOADING SIMILAR ITEMS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5, 6, AND 7, ON PAGES 6 AND 7.
3. WHEN LOADING THE VEHICLE, POSITION THE PALLETIZED PROJECTILES TIGHT AGAINST EACH OTHER AND OTHER ITEMS Laterally AND LONGITUDINALLY. POSITION EACH STACK OF LOOSE PROPELLING CHARGE CONTAINERS TIGHT AGAINST EACH OTHER AND/OR OTHER ITEMS. POSITION THE BOXED AMMUNITION AS SHOWN IN SECTION D-D ON PAGE 44. ALL ITEMS IN THE COMPLETED LOAD SHOULD BE LONGITUDINALLY TIGHT AGAINST EACH OTHER AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES AS SHOWN IN THE LOAD ON PAGE 44.
4. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
5. A TOTAL OF TWENTY-FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN ON PAGE 44.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

- ① WEB STRAP TIEDOWN ASSEMBLY (3 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (3 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIRCLE THE LONGITUDINALLY ADJACENT COVER ASSEMBLIES OF THE TWO M450 SERIES PALLETIZED UNITS AT THE REAR OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THIS STRAP IS REQUIRED AS THERE IS ONLY ONE HOLD DOWN STRAP MARKED ① OVER TOP OF REAR PALLETIZED UNIT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIRCLE ALL THREE LONGITUDINALLY ADJACENT PALLETIZED UNITS AT THE REAR OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. THIS STRAP IS REQUIRED AS THERE IS ONLY ONE HOLD DOWN STRAP MARKED ① OVER TOP OF EACH PALLETIZED UNIT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE "SECTION A-A", "SECTION B-B", AND "SECTION C-C", ON PAGE 44, AND GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑥ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. IF TIEDOWN ANCHORS ARE TOO FAR APART, THE STRAPS MAY BE CROSSED OVER TOP OF BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE "SECTION D-D" ON PAGE 44, AND GENERAL NOTES "F" AND "G", ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF STACK TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO CROSS THESE STRAPS OVER TOP OF STACK, AS SHOWN. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2. NOTE: IF A STACK OF LOOSE BOXES IS IN LINE WITH A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE, ONLY ONE STRAP MARKED ⑧ IS REQUIRED.



ISOMETRIC VIEW

SEE PAGE 47 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES. CAUTION: SOME PROPELLING CHARGES CAN NOT BE TRANSPORTED IN THE VERTICAL POSITION SHOWN ABOVE.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP END TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR. HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO ENIRCLE ALL PROPELLING CHARGE CONTAINERS. POSITION ONE STRAP AT THE BOTTOM, JUST ON TOP OF THE BELL FLANGE, AND POSITION ONE STRAP AT THE TOP, JUST ON TOP OF THE ROLLING RING FLANGE. POSITION THE STRAP RATCHETS ON SAME SIDE OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE LOAD GUIDANCE NOTE 4 (B), (F), (K), AND (O), ON PAGE 47.
- ④ WEB STRAP TIEDOWN ASSEMBLY (3 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UNDER RATCHET ON TOP STRAP MARKED ③, OVER TOP OF CENTER ROW OF PROPELLING CHARGE CONTAINERS, OVER STRAP MARKED ③ TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. NOTE: THIS STRAP IS POSITIONED TO ANGLE ACROSS TOP OF CENTER ROW FOR BEST HOLD-DOWN. IN "ISOMETRIC VIEW" ABOVE, ONE END OF STRAP MARKED ④ IS ATTACHED TO THE THIRD TIEDOWN ANCHOR FROM THE FRONT OF THE VEHICLE AND THE OPPOSITE END IS ATTACHED TO THE SECOND TIEDOWN ANCHOR FROM THE FRONT OF THE VEHICLE ON THE OPPOSITE SIDE OF THE VEHICLE. USE SIMILAR PROCEDURES FOR THE REMAINING TWO STRAPS MARKED ④.

(CONTINUED ON PAGE 47)

TYPICAL UNIT BASIC LOAD SHOWN

	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
B	CARTRIDGE, 5.56MM, BALL	A071	14-1/2 X 12-3/4 X 8-3/8	72	1 BOX
C	CARTRIDGE, 7.62MM, BALL	A131	17-1/2 X 17-1/2 X 8-1/8	81	4 BOXES
D	PROJECTILE, 8-INCH, M450	D628	22-5/8 X 31-3/4 X 45-5/8	1,260	5 PALLETS
E	PROJECTILE, 8-INCH, M404	D651	19-1/2 X 28-1/2 X 39-1/2	1,253	6 PALLETS
F	PROP CH, 8-INCH, M188	D661	29-1/4 X 10-15/32	75	44 PC
G	PROP CH, 8-INCH, M18A2	D675	26-9/32 X 8-13/32	34	14 PC
H	PROP CH, 8-INCH, M2	D676	29-9/32 X 9-13/32	54	20 PC
J	RUZE, M577	N288	14-5/8 X 12-13/16 X 9-1/8	36	2 BOXES
K	RUZE	N340	14-5/8 X 12-13/16 X 8-9/16	60	1 BOX
L	RUZE	N464	14-5/8 X 12-13/16 X 8-9/16	60	2 BOXES

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROJ	11	13,818 LBS
PROP CHARGES	78	4,856 LBS
CARTRIDGES	6 BOXES	468 LBS
RUZES	5 BOXES	292 LBS
TOTAL WEIGHT		19,434 LBS

LOAD GUIDANCE NOTES: (FOR PAGE 46)

1. A TYPICAL UNIT BASIC LOAD OF LOOSE PROPELLING CHARGE CONTAINERS, LOOSE BOXED AMMUNITION, AND PALLETIZED 8-INCH PROJECTILES, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M995, HAVING INSIDE DIMENSIONS OF 214-3/8" LONG BY 70-3/4" WIDE.
2. **CAUTION:** SOME PROPELLING CHARGES CANNOT BE TRANSPORTED IN THE VERTICAL POSITION.
3. THE PROCEDURES SHOWN ON PAGE 46 DEPICT SECUREMENT OF FORTY-FOUR 8-INCH, M188 SERIES, PROPELLING CHARGE CONTAINERS, FOURTEEN 8-INCH, M18A2 SERIES, PROPELLING CHARGE CONTAINERS, AND TWENTY 8-INCH, M2 SERIES, PROPELLING CHARGE CONTAINERS, SECURED IN A VERTICAL POSITION, FIVE PALLETIZED UNITS OF 8-INCH, M480 SERIES PROJECTILES, SIX PALLETIZED UNITS OF 8-INCH, M404 SERIES PROJECTILES, SIX BOXES OF CARTRIDGES, AND FIVE BOXES OF RIFLES. IF LOADING SIMILAR ITEMS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 3, 6, AND 7, ON PAGES 6 AND 7.
4. FOLLOW LOADING PROCEDURES (a) THROUGH (j) BELOW FOR THE LOAD SHOWN ON PAGE 46.
 - (a) POSITION ONE ROW OF FOUR PALLETIZED UNITS OF 8-INCH, M404 SERIES, SEPARATE LOADING PROJECTILES, APPROXIMATELY ONE INCH FROM THE FORWARD END WALL AND CENTERED ACROSS THE VEHICLE WIDTH. INSTALL STRAPS MARKED ① AND ② AS INSTRUCTED IN KEY NUMBERS ① AND ② ON PAGE 46.
 - (b) POSITION ONE ROW OF EIGHT M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE PALLETIZED UNITS OF 8-INCH PROJECTILES, TIGHT AGAINST EACH OTHER, AND CENTERED ACROSS THE VEHICLE WIDTH. POSITION ONE ROW OF SEVEN M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-UP, AGAINST THE FIRST ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. POSITION ONE ROW OF EIGHT M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE CENTER ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. INSTALL TOP AND BOTTOM STRAPS MARKED ③ AS INSTRUCTED IN KEY NUMBER ③ ON PAGE 46. BUT DO NOT RATCHET TIGHT UNTIL LOADING PROCEDURE (c) IS COMPLETED. **NOTE:** THE BELL END FLANGE ON THE CENTER ROW OF SEVEN M188 SERIES CONTAINERS WILL CONTACT THE TOP ROLLING RING FLANGE ON THE CONTAINERS IN THE TWO END ROWS, AND WILL HOLD ALL CONTAINERS DOWN WHEN STRAP MARKED ④ IS INSTALLED.
 - (c) POSITION ONE ROW OF THREE PALLETIZED UNITS OF 8-INCH, M480 SERIES, SEPARATE LOADING PROJECTILES AGAINST THE BUNDLE OF TWENTY-THREE, M188 SERIES, PROPELLING CHARGE CONTAINERS, TIGHT AGAINST EACH OTHER AND CENTERED ACROSS THE VEHICLE WIDTH. INSTALL TWO STRAPS MARKED ① OVER TOP OF PALLETIZED UNITS. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT AS INSTRUCTED IN KEY NUMBER ① ON PAGE 46.
 - (d) RATCHET THE TOP AND BOTTOM STRAPS MARKED ③, ENCIRCLING THE BUNDLE OF TWENTY-THREE M188 SERIES PROPELLING CHARGE CONTAINERS, TIGHT. POSITION THE RATCHETS AT THE SIDE OF THE VEHICLE.
 - (e) INSTALL STRAP MARKED ② OVER TOP OF BUNDLE OF TWENTY-THREE M188 SERIES PROPELLING CHARGE CONTAINERS, AS INSTRUCTED IN KEY NUMBER ② ON PAGE 46.
 - (f) POSITION ONE ROW OF SEVEN M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE PALLETIZED UNITS OF 8-INCH PROJECTILES, TIGHT AGAINST EACH OTHER, AND CENTERED ACROSS THE VEHICLE WIDTH. POSITION ONE ROW OF SEVEN M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-UP, AGAINST THE FIRST ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. POSITION ONE ROW OF SEVEN M188 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE CENTER ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. INSTALL TOP AND BOTTOM STRAPS MARKED ③ AS INSTRUCTED IN KEY NUMBER ③ ON PAGE 46 BUT DO NOT RATCHET TIGHT UNTIL LOADING PROCEDURE (g) IS COMPLETED. **NOTE:** THE BELL END FLANGE ON THE CENTER ROW OF SEVEN M188 SERIES CONTAINERS WILL CONTACT THE TOP ROLLING RING FLANGE ON THE CONTAINERS IN THE TWO END ROWS, AND WILL HOLD ALL CONTAINERS DOWN WHEN STRAP MARKED ④ IS INSTALLED.
 - (g) POSITION ONE ROW OF TWO PALLETIZED UNITS OF 8-INCH, M480 SERIES, SEPARATE LOADING PROJECTILES, AGAINST THE BUNDLE OF TWENTY-ONE M188 SERIES PROPELLING CHARGE CONTAINERS, TIGHT AGAINST EACH OTHER AND CENTERED ACROSS THE VEHICLE WIDTH. INSTALL TWO STRAPS MARKED ① OVER TOP OF PALLETIZED UNITS. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT AS INSTRUCTED IN KEY NUMBER ① ON PAGE 46.
 - (h) RATCHET THE TOP AND BOTTOM STRAPS MARKED ③, ENCIRCLING THE BUNDLE OF TWENTY-ONE M188 SERIES PROPELLING CHARGE CONTAINERS, TIGHT. POSITION THE RATCHETS AT THE SIDE OF THE VEHICLE.
 - (i) INSTALL STRAP MARKED ② OVER TOP OF BUNDLE OF TWENTY-ONE M188 SERIES PROPELLING CHARGE CONTAINERS, AS INSTRUCTED IN KEY NUMBER ② ON PAGE 46.
 - (j) POSITION ONE ROW OF SEVEN M18A2 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE PALLETIZED UNITS OF 8-INCH PROJECTILES, TIGHT AGAINST EACH OTHER, AND CENTERED ACROSS THE VEHICLE WIDTH. POSITION ONE ROW OF SEVEN M18A2 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-UP, AGAINST THE FIRST ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. INSTALL TOP AND BOTTOM STRAPS MARKED ③ AS INSTRUCTED IN KEY NUMBER ③ ON THIS PAGE BUT DO NOT RATCHET TIGHT UNTIL LOADING PROCEDURE (k) IS COMPLETED.

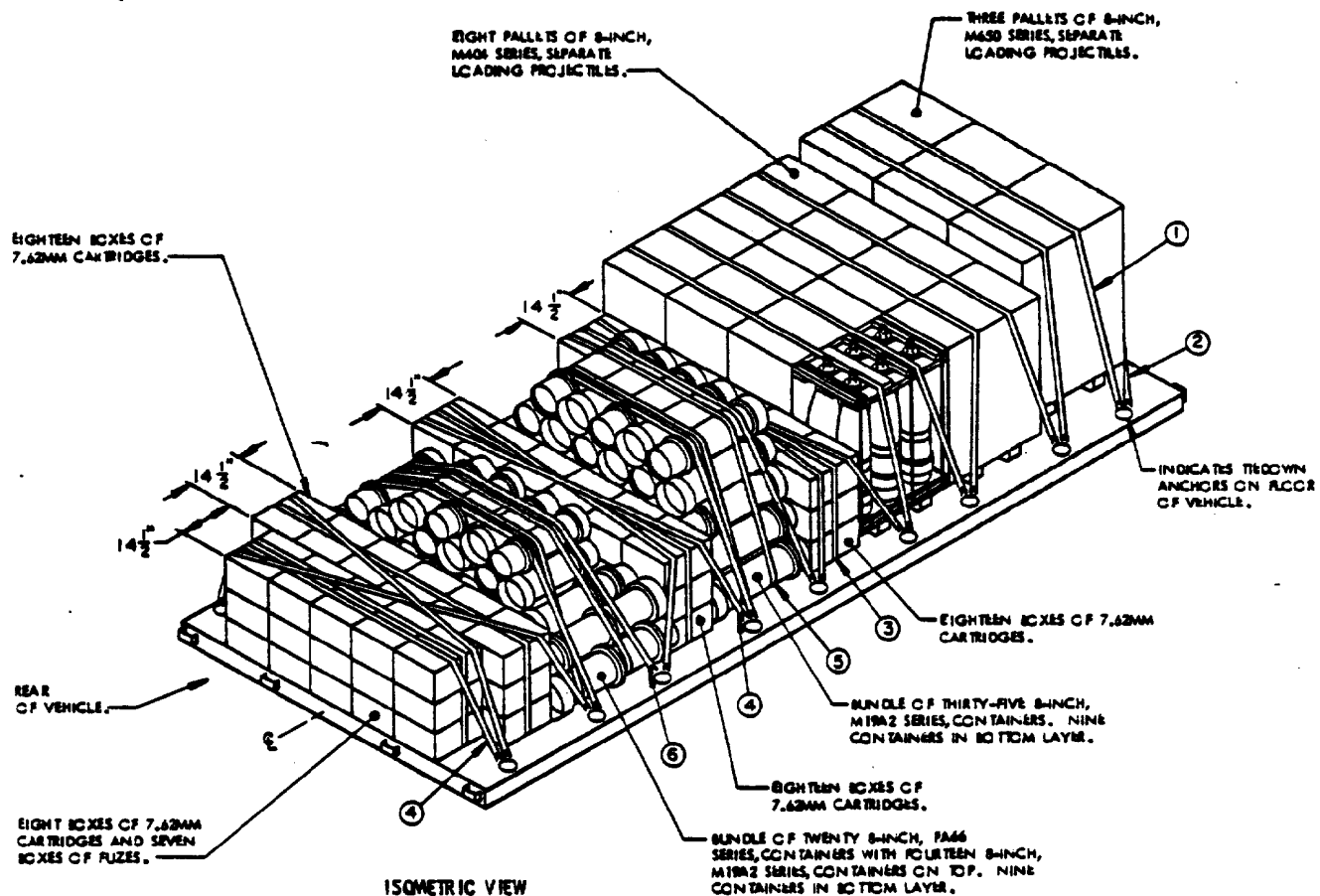
(CONTINUED AT RIGHT)

(LOAD GUIDANCE NOTES CONTINUED)

- (k) POSITION ONE ROW OF TWO PALLETIZED UNITS OF 8-INCH, M404 SERIES, SEPARATE LOADING PROJECTILES AGAINST THE BUNDLE OF FOURTEEN M18A2 SERIES PROPELLING CHARGE CONTAINERS, TIGHT AGAINST EACH OTHER AND CENTERED ACROSS THE VEHICLE WIDTH. INSTALL TWO STRAPS MARKED ① OVER TOP OF PALLETIZED UNITS. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT AS INSTRUCTED IN KEY NUMBER ① ON PAGE 46.
 - (m) RATCHET THE TOP AND BOTTOM STRAPS MARKED ③, ENCIRCLING THE BUNDLE OF FOURTEEN M18A2 SERIES PROPELLING CHARGE CONTAINERS, TIGHT. POSITION THE RATCHETS AT THE SIDE OF THE VEHICLE.
 - (n) INSTALL STRAP MARKED ② OVER TOP OF BUNDLE OF FOURTEEN M18A2 SERIES PROPELLING CHARGE CONTAINERS, AS INSTRUCTED IN KEY NUMBER ② ON PAGE 46.
 - (o) POSITION ONE ROW OF SEVEN M2 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE PALLETIZED UNITS OF 8-INCH PROJECTILES, TIGHT AGAINST EACH OTHER, AND CENTERED ACROSS THE VEHICLE WIDTH. POSITION ONE ROW OF SIX M2 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-UP, AGAINST THE FIRST ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. POSITION ONE ROW OF SEVEN M2 SERIES PROPELLING CHARGE CONTAINERS, BELL-END-DOWN, AGAINST THE CENTER ROW, CENTERED ON THE JOINTS, AND TIGHT AGAINST EACH OTHER. INSTALL TOP AND BOTTOM STRAPS MARKED ③ AS INSTRUCTED IN KEY NUMBER ③ ON PAGE 46 BUT DO NOT RATCHET TIGHT UNTIL LOADING PROCEDURE (p) IS COMPLETED. **NOTE:** THE BELL END FLANGE ON THE CENTER ROW OF SIX M2 SERIES CONTAINERS WILL CONTACT THE TOP ROLLING RING FLANGE ON THE CONTAINERS IN THE TWO END ROWS, AND WILL HOLD ALL CONTAINERS DOWN WHEN STRAPS MARKED ④ ARE INSTALLED.
 - (p) POSITION THE BOXED AMMUNITION ITEMS AS SHOWN IN THE "ISOMETRIC VIEW" ON PAGE 46 TIGHT AGAINST EACH OTHER, AND AGAINST THE BUNDLE OF TWENTY M2 SERIES PROPELLING CHARGE CONTAINERS. INSTALL STRAPS MARKED ② AND ⑦ AS INSTRUCTED IN KEY NUMBERS ② AND ⑦ ON THIS PAGE.
 - (q) INSTALL STRAPS MARKED ③ OVER TOP OF BUNDLE OF TWENTY M2 SERIES PROPELLING CHARGE CONTAINERS, AS INSTRUCTED IN KEY NUMBER ③ ON THIS PAGE.
 - (r) RATCHET THE TOP AND BOTTOM STRAPS MARKED ③, ENCIRCLING THE BUNDLE OF TWENTY M2 SERIES PROPELLING CHARGE CONTAINERS, TIGHT. POSITION THE RATCHETS AT THE SIDE OF THE VEHICLE.
5. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 46.
6. A TOTAL OF TWENTY-FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

(KEY NUMBERS CONTINUED FROM PAGE 46)

 - ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE AT THE LOCATION SHOWN IN THE "ISOMETRIC VIEW" ON PAGE 46, UNDER RATCHET ON TOP STRAP MARKED ③, OVER TOP OF END CONTAINER IN CENTER ROW, ANGLE OVER AND DOWN AT JOINT BETWEEN THE THIRD AND FOURTH CONTAINER IN THE LAST ROW. BRING END OF STRAP DOWN AND ACROSS THE LAST ROW OF CONTAINERS TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT BOTH STRAPS MARKED ⑤ AT THE SAME TIME. SEE LOAD GUIDANCE NOTE 4 (b) ON THIS PAGE FOR INSTRUCTIONS ON RATCHETING THESE STRAPS TIGHT. **NOTE:** THESE TWO STRAPS WILL PREVENT THE CENTER CONTAINERS FROM "BULGING" REARWARD, AND WILL RETAIN THE LOAD LONGITUDINALLY. HOWEVER, AS STRAPS MARKED ⑤ ARE RATCHETED TIGHT, THE CONTAINERS WILL TEND TO SEEK THEIR NEAREST POSITION AND "BULGING" OF CONTAINERS WITHIN THE BUNDLE IS ACCEPTABLE AS LONG AS THE BUNDLE REMAINS TIGHT AND SECURE.
 - ⑥ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "T" AND "G" ON PAGE 2.
 - ⑦ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF STACK TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "T", "G", AND "M", ON PAGE 2.



TYPICAL UNIT BASIC LOAD SHOWN

	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 8-5/8	58	62 BOXES
B	PROJECTILE, 8-INCH, M404	D424	22-5/8 X 31-3/4 X 45-5/8	1,260	3 PALLETS
C	PROP CH, 8-INCH, M406	D462	37-3/4 X 10-15/32	50	20 PC
D	PROP CH, 8-INCH, M19A2	D481	29-9/32 X 9-13/16	54	49 PC
E	PROJECTILE, 8-INCH, M404	D484	19-1/2 X 28-1/2 X 39-1/2	1,253	8 PALLETS
F	FUZE, M877	N285	14-5/8 X 12-13/16 X 9-1/8	60	7 BOXES

LOAD AS SHOWN

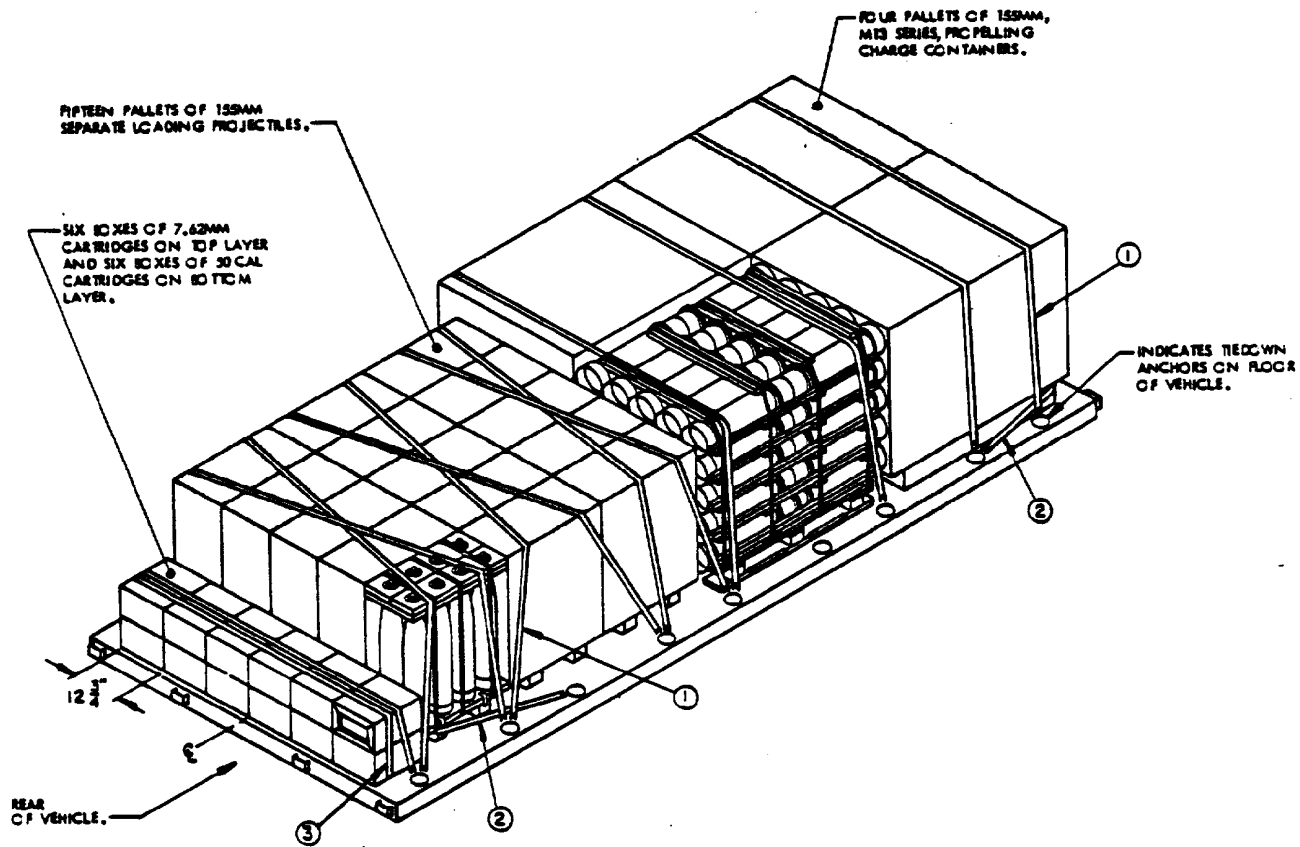
ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROJ	11	13,804 LBS
PROP CHARGES	69	3,646 LBS
CARTRIDGES	62 BOXES	3,596 LBS
FUZES	7 BOXES	420 LBS
TOTAL WEIGHT		21,466 LBS

LOAD GUIDANCE NOTES: (OCR PAGE 48)

1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED 8-INCH PROJECTILES, LOOSE PROPELLING CHARGE CONTAINERS, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 98 3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 48 DEPICT SECUREMENT OF THREE PALLETIZED UNITS OF 8-INCH, M450 SERIES PROJECTILES, EIGHT PALLETIZED UNITS OF 8-INCH, M408 SERIES PROJECTILES, FORTY-NINE 8-INCH, M1982 SERIES PROPELLING CHARGE CONTAINERS, TWENTY 8-INCH M404 SERIES PROPELLING CHARGE CONTAINERS, SIXTY-TWO BOXES OF 7.62MM CARTRIDGES AND SEVEN BOXES OF RIFLES. IF LOADING SIMILAR ITEMS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5, 6, AND 7, ON PAGES 6 AND 7.
3. WHEN LOADING THE VEHICLE, POSITION THE PALLETIZED PROJECTILES TIGHT AGAINST EACH OTHER AND/OR OTHER ITEMS Laterally AND LONGITUDINALLY. POSITION EACH STACK OF LOOSE PROPELLING CHARGE CONTAINERS TIGHT AGAINST OTHER ITEMS. POSITION THE BOXED AMMUNITION AS SHOWN. ALL ITEMS IN THE COMPLETED LOAD SHOULD BE LONGITUDINALLY TIGHT AGAINST EACH OTHER AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES AS SHOWN IN THE LOAD ON PAGE 48.
4. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
5. A TOTAL OF TWENTY-SIX WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN ON PAGE 48.
6. NOTE: SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.
7. IF A STACK OF LOOSE BOXES IS IN LINE WITH A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE, ONLY ONE STRAP MARKED ④ IS REQUIRED OVER TOP OF THE STACK.

KEY NUMBERS (OCR PAGE 48)

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQ'D). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, ON TOP OF THE PALLET BASE, AGAINST THE BASE OF THE PROJECTILES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQ'D). INSTALL EACH STRAP TO ENIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (7 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO CROSS THESE STRAPS OVER TOP OF STACK, AS SHOWN. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2. SEE LOAD GUIDANCE NOTE 7 ON THIS PAGE.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP TO ENIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ④ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. IF THE TIEDOWN ANCHORS ARE TOO FAR APART, THE STRAPS MAY BE CROSSED OVER TOP OF BUNDLE. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.



ISOMETRIC VIEW

SEE PAGE 51 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

TYPICAL UNIT BASIC LOAD SHOWN

	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 7.62MM, BALL	A131	14-1/2 X 12-3/4 X 8-3/8	58	6 BOXES
B	CARTRIDGE, .50 CAL	A589	14-1/2 X 12-3/4 X 8-3/8	79	6 BOXES
C	PROJECTILE, 155MM, M741	D509	29-1/8 X 14-5/8 X 39	797	3 PALLETS
D	PROP CH, 155MM, M13	D541	55 X 41-1/2 X 45-7/8	1,751	4 PALLETS
E	PROJECTILE, 155MM	D543	29-1/8 X 14-5/8 X 39	797	12 PALLETS

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETTIZED 155MM PROJ	15	11,955 LBS
PALLETTIZED PROP CH	4	7,004 LBS
CARTRIDGES	12 BOXES	822 LBS
TOTAL WEIGHT		19,781 LBS

LOAD GUIDANCE NOTES: (FOR PAGE 50)

1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED PROPELLING CHARGE CONTAINERS, PALLETIZED 155MM PROJECTILES, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 90 3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 50 DEPICT SECUREMENT OF PALLETIZED 155MM PROPELLING CHARGE CONTAINERS PACKED IN THE MTD SERIES CONTAINER, HAVING DIMENSIONS OF 35" WIDE BY 44 1/2" LONG BY 45 7/8" HIGH AND WEIGHING 1,751 POUNDS, FIFTEEN PALLETIZED UNITS OF 155MM PROJECTILES, HAVING DIMENSIONS OF 14 5/8" LONG BY 29 1/8" WIDE BY 39" HIGH AND WEIGHING 799 POUNDS, SIX BOXES OF 7.62MM CARTRIDGES AND SIX BOXES OF 30MM CARTRIDGES. IF LOADING PALLETIZED UNITS OF PROPELLING CHARGE CONTAINERS, SEPARATE LOADING PROJECTILES, AND/OR BOXED AMMUNITION OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5, 7, AND 8, ON PAGES 4 AND 7.
3. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
4. A TOTAL OF FOURTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS (FOR PAGE 50)

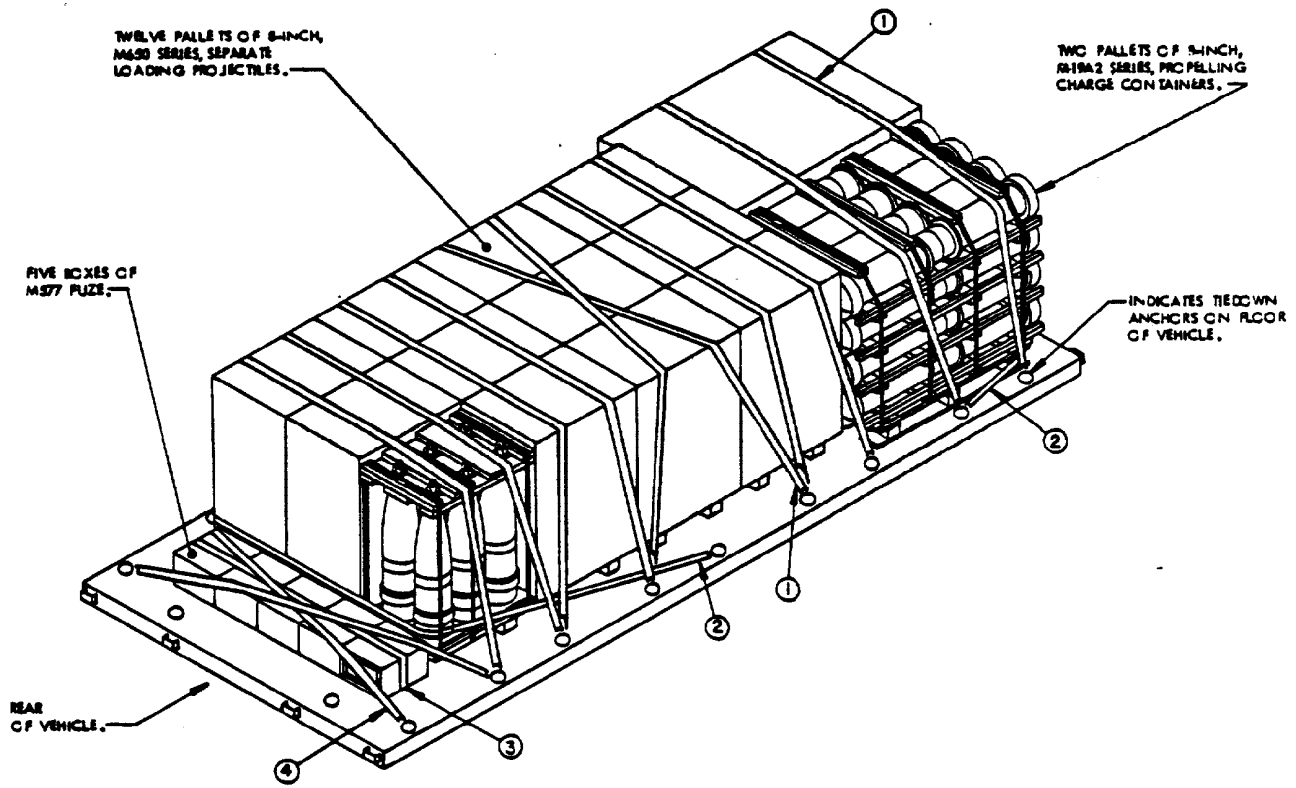
- ① WEB STRAP TIEDOWN ASSEMBLY (10 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNITS, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENCIROLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. BRING ENDS OF STRAP UP OVER TOP OF BOXES, HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND THEN, RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF BOXES TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

LOAD GUIDANCE NOTES: (FOR PAGE 53)

1. A TYPICAL UNIT BASIC LOAD OF PALLETIZED PROPELLING CHARGE CONTAINERS, PALLETIZED 8-INCH PROJECTILES, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M995, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 103 1/4" WIDE.
2. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF PALLETIZED 8-INCH PROPELLING CHARGES PACKED IN THE M19A2 SERIES CONTAINER, HAVING DIMENSIONS OF 58 1/2" WIDE BY 40 5/8" LONG BY 46 1/4" HIGH AND WEIGHING 1,872 POUNDS, TWELVE PALLETIZED UNITS OF 8-INCH PROJECTILES, HAVING DIMENSIONS OF 22 1/2" LONG BY 31 5/8" WIDE BY 45 5/8" HIGH AND WEIGHING 1,260 POUNDS, AND FIVE BOXES OF M577 RIFLES. IF LOADING PALLETIZED UNITS OF PROPELLING CHARGE CONTAINERS, SEPARATE LOADING PROJECTILES, AND/OR BOXED AMMUNITION OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 5, 7, AND 8, ON PAGES 6 AND 7.
3. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
4. A TOTAL OF FIFTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS (FOR PAGE 53)

- ① WEB STRAP TIEDOWN ASSEMBLY (10 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE PALLETIZED UNIT, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY OVER TOP OF PALLETIZED UNITS. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO ENIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. BRING ENDS OF STRAP UP OVER TOP OF BOXES, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF BOXES TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO CROSS THESE STRAPS OVER TOP OF BOXES, AS SHOWN. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.



ISOMETRIC VIEW

SEE PAGE 52 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

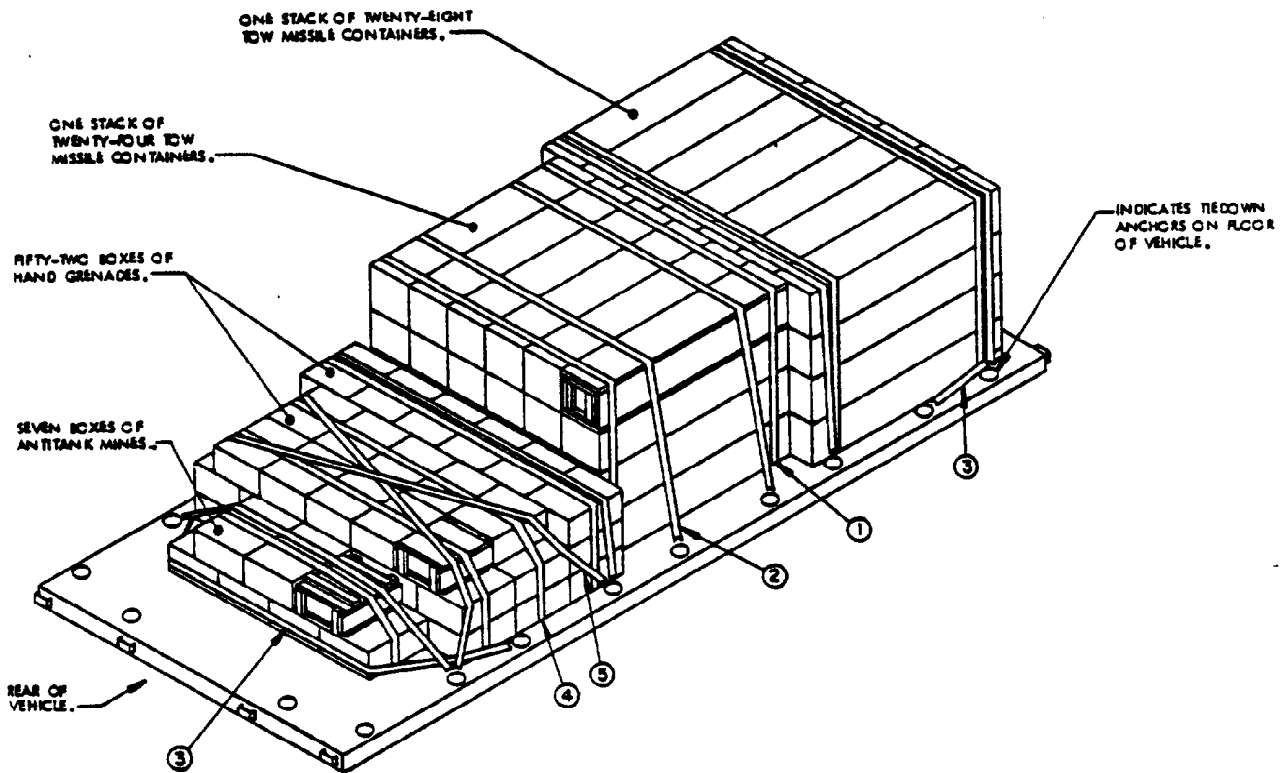
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROJ	12	15,120 LBS
PALLETIZED PROP CH	2	3,744 LBS
FUZE	5 BOXES	300 LBS
TOTAL WEIGHT		19,164 LBS

TYPICAL UNIT BASIC LOAD SHOWN

	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	PROJECTILE, 8-INCH, M630	D624	22-1/2 X 31-5/8 X 45-5/8	1,260	12 PALLETS
B	PROP CH, 8-INCH, M19A2	D481	29-9/32 X 9-9/13 "	54	2 PALLETS
C	FUZE, M577	N285	14-5/8 X 12-13/16 X 8-9/16	60	5 BOXES

UNIT BASIC LOAD ON A TRUCK (HEMTT), 10-TON, M977 AND/OR M995



ISOMETRIC VIEW

SEE PAGE 35 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

TYPICAL UNIT BASIC LOAD SHOWN					
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	TOW MISSILE		38-1/4 X 11-5/8 X 11-5/8	87	52 CNTRS
B	GRENADE, HD	G815	16-3/8 X 13-3/8 X 7-5/8	42	52 BOXES
C	MINIE, ANITANK	K181	18 X 15 X 7-1/2	49	7 BOXES

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
TOW MISSILE	52 CNTRS	4,524 LBS
GRENADES	52 BOXES	2,184 LBS
MINES	7 BOXES	343 LBS
TOTAL WEIGHT		7,051 LBS

LOAD GUIDANCE NOTES: (FOR PAGE 54)

1. A TYPICAL UNIT BASIC LOAD OF LOOSE TOW CONTAINERS, AND LOOSE BOXED AMMUNITION, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M988, HAVING INSIDE DIMENSIONS OF 216-3/8" LONG BY 90-3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 54 DEPICT SECUREMENT OF FIFTY-TWO TOW MISSILE CONTAINERS, FIFTY-TWO BOXES OF HAND GRENADES, AND SEVEN BOXES OF ANTI-TANK MINES. IF LOADING SIMILAR ITEMS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTE 7 ON PAGE 4.
3. WHEN LOADING THE VEHICLE, POSITION THE TOW MISSILE CONTAINERS AND BOXED AMMUNITION TIGHT AGAINST EACH OTHER Laterally AND LONGITUDINALLY. SECURE THE LOAD WITH WEB STRAP TIEDOWN ASSEMBLIES AS SHOWN ON PAGE 54.
4. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
5. A TOTAL OF EIGHTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

KEY NUMBERS (FOR PAGE 54)

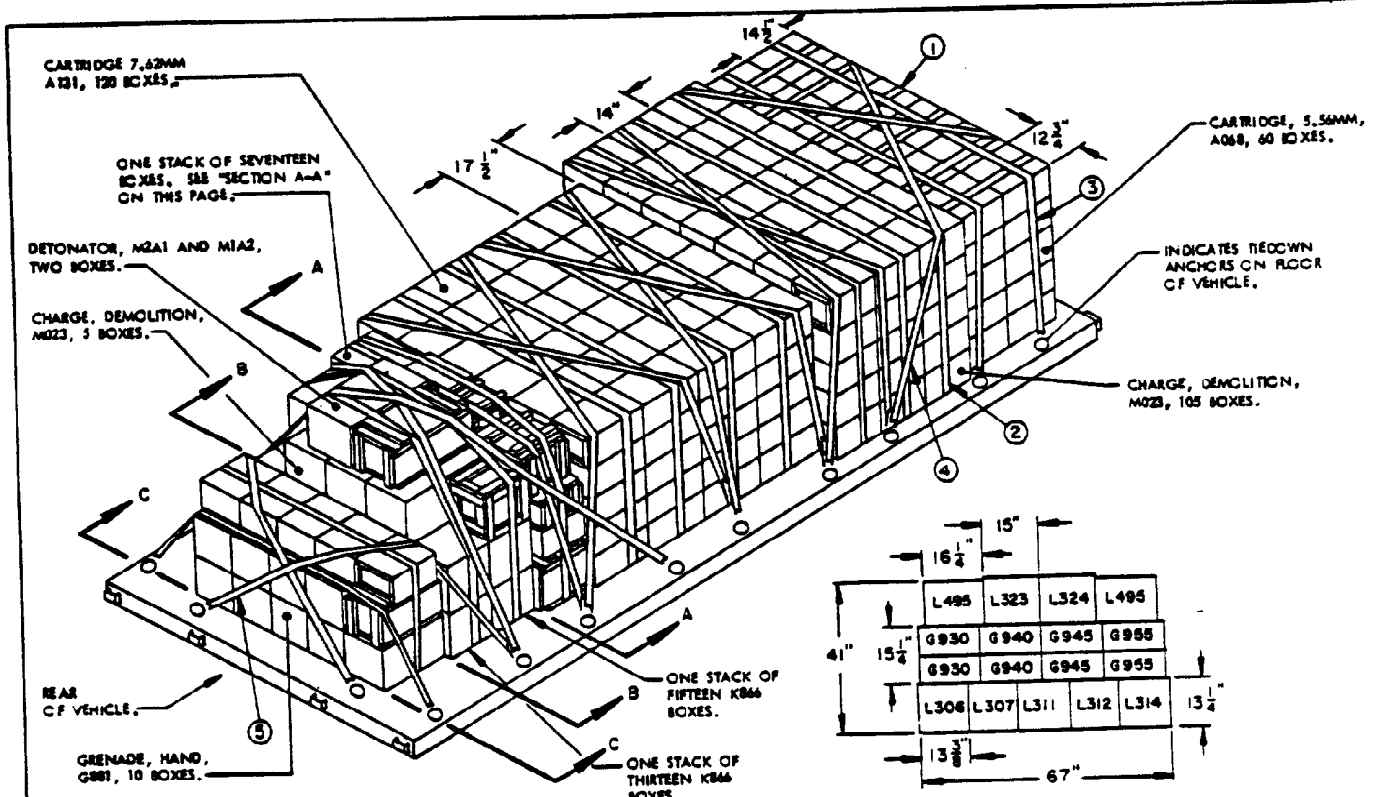
- ① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH STACK OF CONTAINERS POSITIONED ACROSS THE VEHICLE WIDTH AT THE FORWARD END OF THE LOAD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE STACK AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. MAKE SURE STRAP LAYS FLAT ON THE FLOOR WITH THE RATCHET HANDLE ON THE BOTTOM SIDE. POSITION THE BOTTOM BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM CONTAINERS. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ON TOP OF THE STACK OF THE FORWARD END OF THE STACK. SEE GENERAL NOTES "F", "G", AND "H", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH STACK OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE STACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINERS/BOXES, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH STACK OF BOXES POSITIONED ACROSS THE VEHICLE WIDTH). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE STACK AT THE APPROXIMATE CENTER OF THE STACK. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ON THE FLOOR WITH THE RATCHET HANDLE ON THE BOTTOM SIDE. POSITION THE BOTTOM BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM BOXES. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ON TOP OF THE STACK OR THE FORWARD END OF THE STACK. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS IT MAY BE NECESSARY TO CROSS THESE STRAPS OVER TOP OF STACK, AS SHOWN. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2. NOTE: IF A STACK OF LOOSE BOXES IS IN LINE WITH A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE, ONLY ONE STRAP MARKED ⑤ IS REQUIRED OVER TOP OF EACH STACK.

LOAD GUIDANCE NOTES: (FOR PAGE 57)

1. A TYPICAL UNIT BASIC LOAD OF LOOSE BOXED AMMUNITION IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M935, HAVING INSIDE DIMENSIONS OF 216-3/8" LONG BY 90-3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 57 DEPICT SECUREMENT OF LOOSE BOXES OF VARIOUS SIZES AND QUANTITIES. WHEN LOADING THE VEHICLE, DO NOT POSITION THE BOXES AGAINST THE END WALLS AND/OR SIDE WALLS. POSITION ALL BOXES TIGHT AGAINST EACH OTHER LONGITUDINALLY AND Laterally. POSITION BOXES OF THE SAME SIZE IN EACH LATERAL ROW ACROSS THE WIDTH OF THE VEHICLE, OR SELECT BOXES MOST NEARLY THE SAME SIZE, WHEN POSSIBLE. IF A LATERAL ROW CONSISTS OF VARIOUS SIZE BOXES, POSITION THE TALLEST BOX (S) IN THE CENTER OF THE ROW WHEN POSSIBLE. THIS WILL PROVIDE CONTACT BY THE UNITIZING STRAP MARKED ②, AND THE HOLD-DOWN STRAP MARKED ③, AT THE CENTER AND EACH END OF THE LATERAL ROW. DO NOT STACK BOXES OVER 48" IN HEIGHT AS STACK MUST BE ENCIRCLED BY STRAP MARKED ④. SEE SPECIAL NOTE 7 ON PAGE 6.
3. STRAPS MARKED ① ARE REQUIRED TO PREVENT LOOSE BOXES POSITIONED IN THE FIRST TWO LATERAL ROWS FROM MOVING FORWARD DURING PANIC STOPS AND/OR EXCESSIVELY ROUGH TERRAIN. SELECT THE QUANTITY OF BOXES AND STACK TO BE UNITIZED, PRIOR TO LOADING VEHICLE, AND FOLLOW INSTRUCTIONS IN KEY NUMBER ① ON THIS PAGE.
4. DO NOT POSITION BOXES ON TOP OF THE TIEDOWN ANCHORS AT FORWARD END AND AFT END OF VEHICLE. SEE KEY NUMBERS ④ AND ⑤ ON THIS PAGE.
5. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
6. A TOTAL OF THIRTY-TWO WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
7. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.
8. STRAPS MARKED ④ AND ⑤ ARE ANGLED OVER ENDS OF LOAD TO HELP PREVENT LONGITUDINAL MOVEMENT.

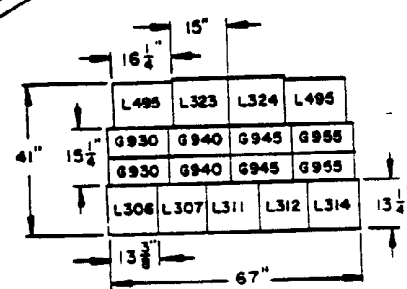
KEY NUMBERS (FOR PAGE 57)

- ① WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH STACK OF TEN BOXES POSITIONED ACROSS THE VEHICLE WIDTH AT THE FORWARD END OF THE LOAD). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE STACK AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ON THE FLOOR WITH THE RATCHET HANDLE ON THE BOTTOM SIDE. POSITION THE BOTTOM BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM BOXES. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ON TOP OF THE STACK OR THE FORWARD END OF THE STACK. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, UP OVER SIDE OF LOAD AND ANGLE OVER FORWARD END OF LOAD TO A TIEDOWN ANCHOR IN FLOOR AT FORWARD END OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, UP OVER TOP OF BOXES IN REAR-MOST STACK AND ANGLE OVER AFT END OF STACK TO A TIEDOWN ANCHOR IN FLOOR AT AFT END OF VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G", ON PAGE 2.



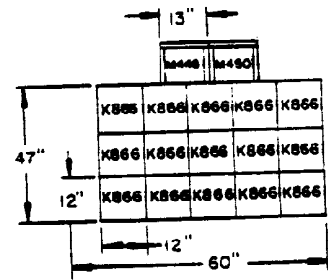
ISOMETRIC VIEW

SEE PAGE 56 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.



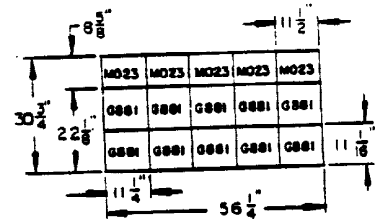
SECTION A-A

ONE STACK OF SEVENTEEN BOXES



SECTION B-B

ONE STACK OF FIFTEEN K866 BOXES
ONE STACK OF THIRTEEN K866 BOXES
TWO BOXES ON TOP (ONE M448 AND ONE M450)



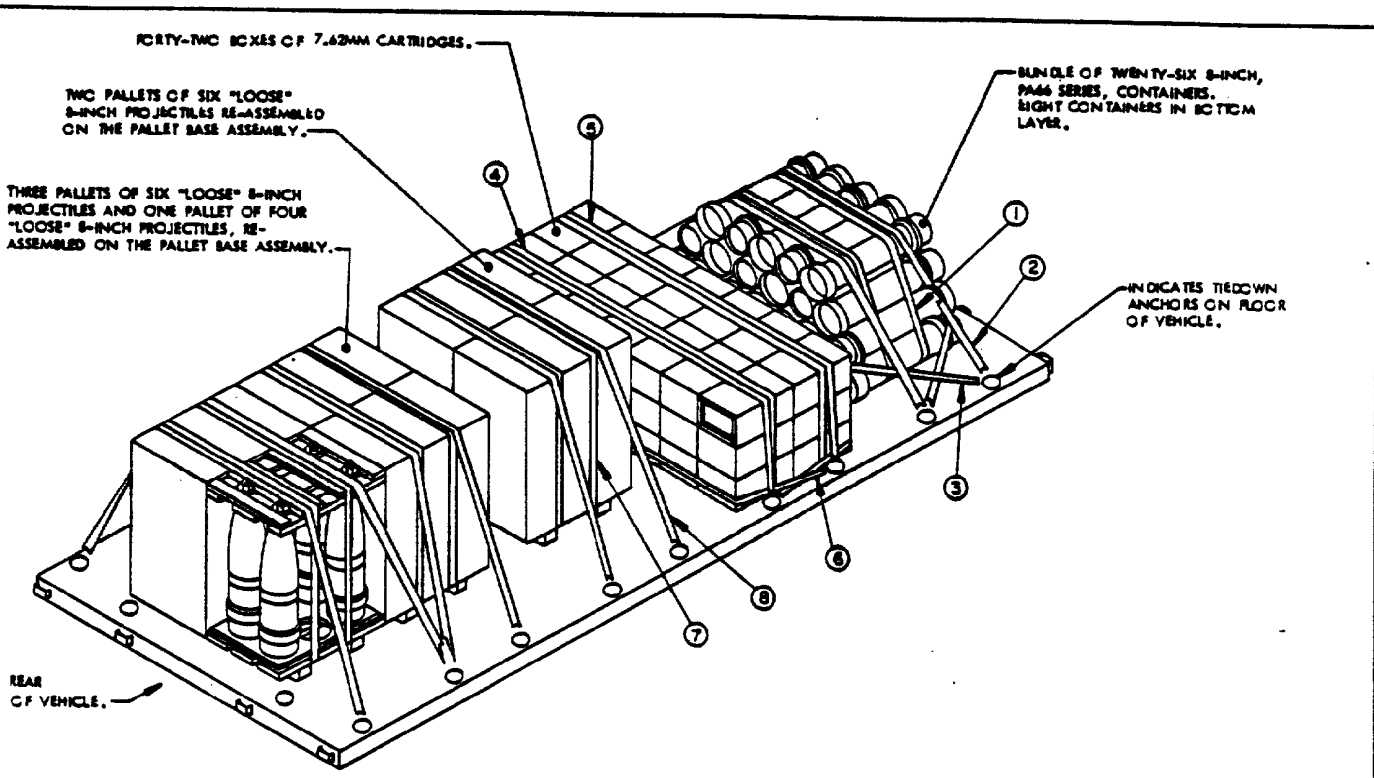
SECTION C-C

ONE STACK OF FIFTEEN BOXES

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
UML	1	22,001 LBS

TYPICAL UNIT BASIC LOAD SHOWN					
	ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	CARTRIDGE, 5.56MM, BALL	A068	14-1/2 X 12-3/4 X 8-3/8	72	60 BOXES
B	CARTRIDGE, 7.62MM, BALL	A131	17-1/2 X 11-1/2 X 8-1/8	81	120 BOXES
C	GRENADE, HD, FRAG, M07	G881	18-15/16 X 11-1/4 X 11-1/16	51	10 BOXES
D	GRENADE, HD, SMK, AN/M6	G930	16-3/8 X 13-3/8 X 7-5/8	42	2 BOXES
E	GRENADE, HD, GREEN, M18	G940	16-3/8 X 13-3/8 X 7-5/8	42	2 BOXES
F	GRENADE, HD, YELLOW, M18	G945	16-3/8 X 13-3/8 X 7-5/8	42	2 BOXES
G	GRENADE, HD, VIOLET, M18	G955	16-3/8 X 13-3/8 X 7-5/8	42	2 BOXES
H	SMOKE POT, M8	K866	12 X 12 X 13-1/8	47	28 BOXES
J	SIG, RED STAR, M158A1	L306	14-7/8 X 13-3/8 X 13-1/4	55	1 BOX
K	SIG, WHITE STAR, M159	L307	14-7/8 X 13-3/8 X 13-1/4	55	1 BOX
L	SIG, RED STAR, M127A1	L311	14-7/8 X 13-3/8 X 13-1/4	55	1 BOX
M	SIG, WHITE STAR, M127A1	L312	14-7/8 X 13-3/8 X 13-1/4	55	1 BOX
N	SIG, GREEN STAR, M128	L314	14-7/8 X 13-3/8 X 13-1/4	55	1 BOX
O	SIG, RED SMK, M129A1	L323	15 X 13-3/8 X 13-1/4	55	1 BOX
P	SIG, GREEN SMK, M128A1	L324	15 X 13-3/8 X 13-1/4	55	1 BOX
Q	FLARE, SLR, TRIP, M49A1	L495	16-1/4 X 15 X 12-1/2	47	2 BOXES
R	CHARGE, DEMO, M112	M023	14 X 11-1/2 X 8-5/8	47	110 BOXES
S	DETONATOR, M2A1	M448	24-1/2 X 13 X 11	75	1 BOX
T	DETONATOR, M1A2	M450	24-1/2 X 13 X 11	75	1 BOX



ISOMETRIC VIEW

SEE PAGE 59 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

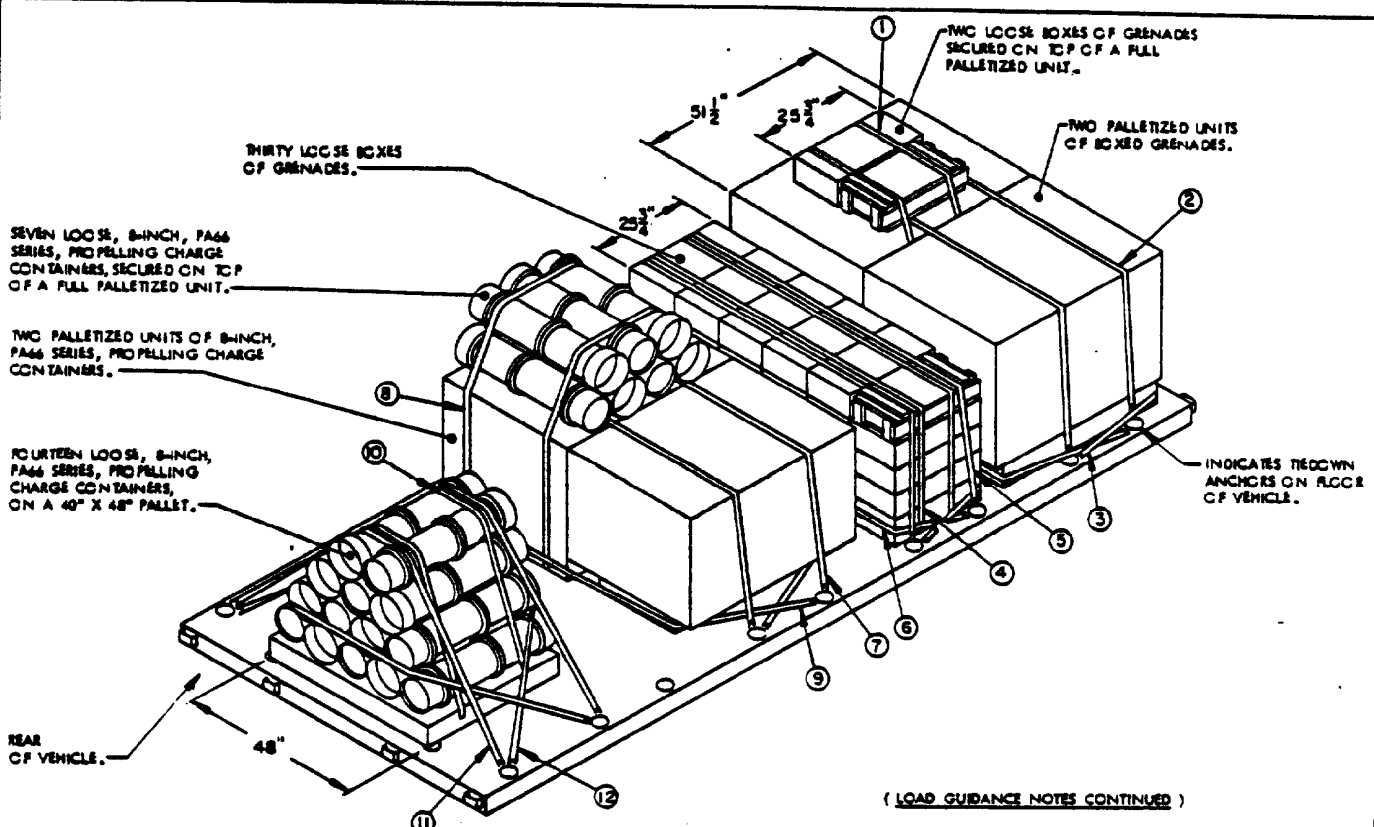
PARTIAL UNIT BASIC LOAD SHOWN					
ITEM	DODIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY	
A	CARTRIDGE, 7.62MM, BALL	A131	17-1/2 X 11-1/2 X 9-3/4	81	42 BOXES
B	PROJECTILE, 8-INCH, M450	D424	22-5/8 X 31-3/4 X 45-5/8	1,260	6 PALLET
C	PROP CH, 8-INCH, PA46	D442	37-3/4 X 10-15/32	50	26 PC

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLETIZED 8-INCH PROJ	6	7,560 LBS
PROP CHARGES	26	1,300 LBS
CARTRIDGES	42 BOXES	3,402 LBS
TOTAL WEIGHT		12,262 LBS

1. A PARTIAL UNIT BASIC LOAD OF LOOSE PROPELLING CHARGE CONTAINERS, LOOSE BOX AMMUNITION, AND LOOSE 8-INCH PROJECTILES, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMAT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 90 3/4" WIDE.
2. THE PROCEDURES SHOWN ON PAGE 58 DEPICT SECUREMENT OF ONE BUNDLE OF TWENTY-SIX LOOSE, 8-INCH, PAA6 SERIES PROPELLING CHARGE CONTAINERS, HAVING DIMENSIONS OF 37 3/4" LONG BY 16 1/2" DIAMETER AND WEIGHING 50 POUNDS EACH, FORTY-TWO LOOSE BOXES OF 7.62MM CARTRIDGES, HAVING DIMENSIONS OF 17 1/2" LONG BY 11 1/2" WIDE BY 8 3/4" HIGH AND WEIGHING 81 POUNDS EACH, AND THIRTY-FOUR LOOSE 8-INCH PROJECTILES, RE-ASSEMBLED ON THE PALLET BASE ASSEMBLY. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS, BOXED AMMUNITION, AND/OR LOOSE SEPARATE LOADING PROJECTILES OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTES 6, 7, AND 9 ON PAGES 6 AND 7.
3. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALLS AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
4. A TOTAL OF TWENTY-FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
5. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.

- ① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP TO ENCIrcLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE WALL OF THE VEHICLE. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ① TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ② TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ② AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIrcLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE CENTER OF THE BOXES. PRE-POSITION THIS STRAP ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAP LAYS FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAPE THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAP. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF EACH ROW/STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE ROW/STACK IF POSSIBLE. HOWEVER, DUE TO THE LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE ROW/STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM LAYER BOXES, AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ④, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ④ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO ENCIrcLE TWO LATERALLY ADJACENT PALLETIZED UNITS OF "LOOSE" 8-INCH PROJECTILES, UNDER THE PALLET BASE ASSEMBLY AND OVER TOP OF THE PALLET COVER ASSEMBLY. POSITION RATCHETS ON THE SAME SIDE OF PALLETIZED UNITS. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.



ISOMETRIC VIEW

SEE PAGE 61 FOR KEY NUMBERS AND LOAD GUIDANCE NOTES.

LOAD GUIDANCE NOTES:

1. A PARTIAL UNIT BASIC LOAD OF LOOSE PROPELLING CHARGE CONTAINERS, LOOSE BOX AMMUNITION, AND PALLETIZED UNITS, IS SHOWN ON A TRUCK, HEAVY EXPANDED MOBILITY (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216 3/8" LONG BY 90 3/4" WIDE.
2. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF LOOSE BOXES ON TOP OF A PALLETIZED UNIT WHICH IS SECURED TO THE VEHICLE. HOLD-DOWN STRAPS MARKED ① ARE POSITIONED OVER TOP OF THE PALLETIZED UNITS AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE BOXES ON TOP OF THE PALLETIZED UNIT. SEE KEY NUMBERS ① AND ② ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE BOXES ON TOP OF PALLETIZED UNITS. ALSO, LOOSE PROPELLING CHARGE CONTAINERS ARE SECURED ON TOP OF A PALLETIZED UNIT WHICH IS SECURED TO THE VEHICLE. HOLD-DOWN STRAPS MARKED ② ARE POSITIONED OVER TOP OF THE PALLETIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETIZED UNIT. SEE KEY NUMBERS ③ AND ④ ON THIS PAGE FOR GUIDANCE WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETIZED UNITS.
3. THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF TWO PALLETIZED UNITS OF BOXED GRENADES HAVING DIMENSIONS OF 51-1/2" WIDE BY 40-1/2" LONG BY 39-7/8" HIGH AND WEIGHING 1,708 POUNDS, WITH TWO LOOSE BOXES OF GRENADES HAVING DIMENSIONS OF 25-3/4" LONG BY 13-1/2" WIDE BY 6-7/8" HIGH AND WEIGHING 54 POUNDS EACH, ON TOP, ONE STACK OF THIRTY LOOSE BOXES OF GRENADES HAVING DIMENSIONS OF 25-3/4" LONG BY 13-1/2" WIDE BY 6-7/8" HIGH AND WEIGHING 54 POUNDS EACH, TWO PALLETIZED UNITS OF PROPELLING CHARGE CONTAINERS HAVING DIMENSIONS OF 50-1/2" WIDE BY 37-3/4" LONG BY 35-5/8" HIGH AND WEIGHING 1,275 POUNDS, WITH SEVEN LOOSE PROPELLING CHARGE CONTAINERS HAVING DIMENSIONS OF 37-3/4" LONG

- (LOAD GUIDANCE NOTES CONTINUED)
4. WHEN LOADING THE VEHICLE, DO NOT POSITION THE LOAD AGAINST THE END WALL AND/OR SIDE WALLS OF THE VEHICLE. SEE SPECIAL NOTE 2 ON PAGE 42.
 5. A TOTAL OF TWENTY-FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.
 6. SEE SPECIAL NOTE 13 ON PAGE 7 FOR UNITIZATION OF UNIT BASIC LOAD ITEMS.
 7. IN THE METHOD SHOWN ABOVE THERE IS ONE 40" X 48" PALLET WITH FOURTEEN LOOSE 8-INCH PA66 SERIES CONTAINERS SECURED ON TOP. IF LOADING LOOSE PROPELLING CHARGE CONTAINERS OF OTHER SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES. SEE SPECIAL NOTE 6 ON PAGE 6.
 8. THE QUANTITY OF LOOSE CONTAINERS POSITIONED ON A PALLET BASE MAY BE ONE CONTAINER UP TO THE MAXIMUM QUANTITY THAT CAN BE POSITIONED IN THE BOTTOM LAYER. IF MORE THAN ONE FULL LAYER OF LOOSE CONTAINERS IS TO BE POSITIONED ON A PALLET BASE, SEE SPECIAL NOTE 6 ON PAGE 6. NOTE: THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT. IF SO, CHECK STRAPS MARKED ⑩ FOR TIGHTNESS, AND RE-TIGHTEN IF NECESSARY.
 9. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A PALLET BASE MUST FORM A TIGHT BUNDLE AFTER STRAPS MARKED ⑪ ARE RATCHETED TIGHT. IF CONTAINERS DO NOT FORM A TIGHT BUNDLE, OR IF CONTAINERS OF DIFFERENT SIZES ARE BEING POSITIONED ON TOP OF THE SAME PALLET BASE TWO ADDITIONAL WEB STRAP ASSEMBLIES ARE REQUIRED. POSITION THE TWO ADDITIONAL STRAPS TO ENCIRCLE ALL CONTAINERS BUT NOT THE PALLET AND RATCHET TIGHT. SEE KEY NUMBER ① ON PAGE 59 FOR ADDITIONAL GUIDANCE.

(CONTINUED AT RIGHT)

PARTIAL UNIT BASIC LOAD SHOWN					
	ITEM	DDIC	DIMENSIONS (INCHES)	WEIGHT POUNDS	QUANTITY
A	PROP CH, 8-INCH, PA66	D662	50-1/2 X 37-3/4 X 35-5/8	1,275	2 PALLETIS
B	PROP CH, 8-INCH, PA66	D662	37-3/4 X 10-15/32	77	21 PC
C	GRENADE, HD, INCD, AN/M14	G910	25-3/4 X 13-1/2 X 6-7/8	54	32 BOXES
D	GRENADE, HD	G910	51-1/2 X 40-1/2 X 39-7/8	1,708	2 PALLETIS

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PROP CHARGES	2 PALLETIS	2,550 LBS
PROP CHARGES	21 PC	1,617 LBS
GRENADES	2 PALLETIS	3,416 LBS
GRENADES	32 BOXES	1,728 LBS
TOTAL WEIGHT		9,311 LBS

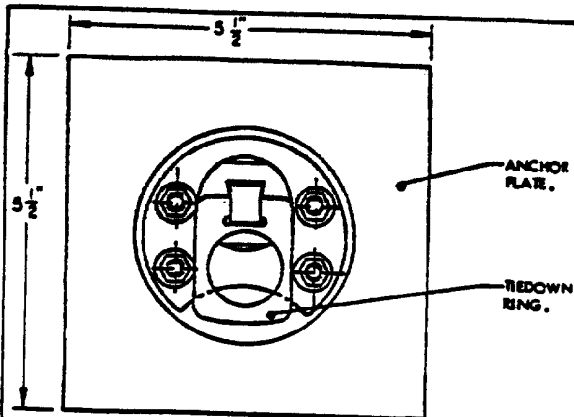
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (AS REQUIRED TO SECURE LOOSE BOXES ON TOP OF A PALLETIZED UNIT). INSTALL EACH STRAP TO ENCIROLE PALLETIZED UNIT AND BOXES POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE BOXES, ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ① UNDER THE TOP DECK OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE LOOSE BOXES ON TOP OF THE PALLETIZED UNIT. BRING ENDS OF STRAPS UP OVER TOP OF LOOSE BOXES AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PALLETIZED UNIT, UNDER ALL LOOSE BOXES POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ①, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ① IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH LATERAL ROW HAVING THREE OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIROLE ALL LOOSE BOXES IN THE ROW, AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION STRAPS ON THE FLOOR OF THE VEHICLE AT THE LOCATION SELECTED PRIOR TO LOADING BOXES. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE ON THE BOTTOM SIDE AND DRAP THE ENDS OVER THE SIDE OF THE VEHICLE. POSITION THE FIRST LAYER OF BOXES ON THE VEHICLE FLOOR AND CENTERED ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, BRING ENDS OF STRAP UP OVER TOP OF STACK, HOOK ENDS OF STRAP TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH LATERAL ROW HAVING ONE OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF STACK, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THIS STRAP STRAIGHT ACROSS THE STACK, IF POSSIBLE. HOWEVER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION THIS STRAP DIAGONALLY ACROSS THE STACK. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (TWO REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM LAYER BOXES, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ③, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ③ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT, UNDER ALL LOOSE PROPELLING CHARGE CONTAINERS WHICH ARE POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. NOTE: STRAPS MARKED ⑦ MUST BE INSTALLED OVER TOP OF THE PALLETIZED UNIT PRIOR TO POSITIONING THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETIZED UNIT. IF ANOTHER STRAP IS TO BE ATTACHED TO THE SAME TIEDOWN ANCHORS, HOOK THE STRAP ENDS TO THE TIEDOWN ANCHORS PRIOR TO RATCHETING STRAP TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETIZED UNIT). INSTALL EACH STRAP TO ENCIROLE PALLETIZED UNIT AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE CONTAINERS ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ⑧ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETIZED UNIT, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ⑧ SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE LOOSE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON TOP OF THE PALLETIZED UNIT. THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, IF SO, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOAD GUIDANCE NOTE 7 ON PAGE 60.
- ⑨ WEB STRAP TIEDOWN ASSEMBLY (TWO REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE AROUND END OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. IF THIS STRAP IS BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS A STRAP MARKED ⑦, ATTACH RATCHET END TO THE SAME TIEDOWN ANCHOR THAT THE NON-RATCHET END OF STRAP MARKED ⑦ IS ATTACHED TO. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "M", ON PAGE 2.

(CONTINUED AT RIGHT)

(KEY NUMBERS CONTINUED)

- ⑩ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP TO ENCIROLE PALLET AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON THE PALLET. PRIOR TO POSITIONING CONTAINERS ON THE PALLET, THREAD STRAPS MARKED ⑩ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE PALLET, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ⑩ SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON THE PALLET. THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, IF SO, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑪ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑪ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. IN SOME VEHICLES, DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑫ WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL STRAPS FROM A TIEDOWN ANCHOR ON THE SIDE OF THE VEHICLE, AROUND END OF PROPELLING CHARGE CONTAINERS AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

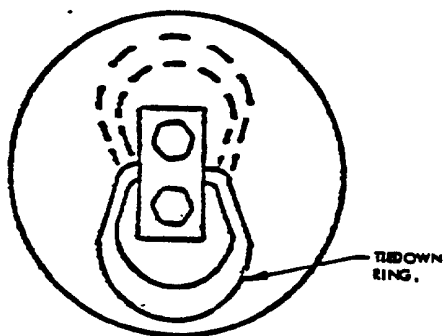


UNIVERSAL TIEDOWN ANCHOR (FRONT VIEW)

THIS TIEDOWN ANCHOR IS RATED AT 5,000 POUNDS AND IS FOR USE ON CARGO TRUCKS AND/OR CARGO TRAILERS. SEE GENERAL NOTE "C" ON PAGE 2 AND "NOTE ①" AT RIGHT.

NOTE ①:

IF THE TACTICAL VEHICLES/BEING USED ARE NOT EQUIPPED WITH THE 5,000 POUND, UNIVERSAL TIEDOWN ANCHOR SHOWN AT LEFT, SEE TB 9-2300-280-30 FOR VEHICLE MODIFICATION PROCEDURES AND INSTALLATION OF THE TIEDOWN ANCHOR, WITH THE EXCEPTION OF THE HEAVY EXPANDED MOBILITY TRUCK, (HEAVY) M77 AND/OR M98, WHICH HAS THE TIEDOWN ANCHORS INSTALLED IN THE FLOOR. THESE TIEDOWN ANCHORS ARE TO BE INSTALLED IN THE SIDE WALLS AND END WALLS OF CARGO TRUCKS AND CARGO TRAILERS. IF AN M177, 12-TON, SEMITRAILER IS BEING USED, SEE INFORMATION IN TB 9-2300-280-30. THE SEMITRAILER REQUIRES A DIFFERENT TYPE OF TIEDOWN ANCHOR.

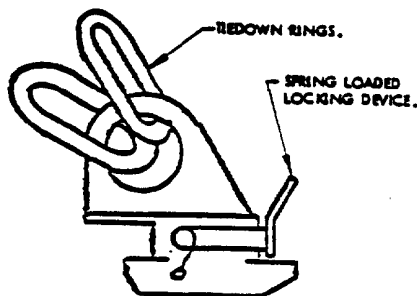


TYPE III, FIXED TIEDOWN ANCHOR (TOP VIEW)

THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS ONLY INSTALLED ON THE M871 SEMITRAILER. THERE ARE FIVE ON EACH SIDE OF THE M871 SEMITRAILER AND THEY DO NOT SWIVEL. SEE GENERAL NOTE "C" ON PAGE 2 AND SPECIAL NOTE 10 ON PAGE 7.

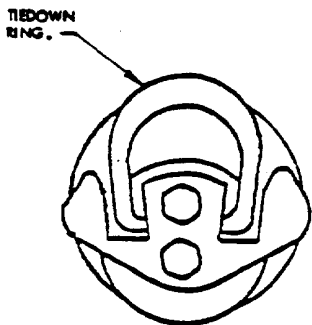
NOTE ②:

THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS ONLY FOR USE ON THE M871 SEMITRAILER. IT IS COMMONLY REFERRED TO AS "BIG FOOT". THERE ARE LOCATIONS FOR TEN TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER AND THEY SWIVEL. THIS TIEDOWN ANCHOR HAS A SPRING LOADED LOCKING DEVICE TO HOLD IT IN PLACE AND IT IS INSERTED, FROM THE TOP, INTO A 1-3/4" DIAMETER HOLE LOCATED ON THE SIDE OF THE SEMITRAILER FLOOR. SEE GENERAL NOTE "C" ON PAGE 2 AND SPECIAL NOTE 10 ON PAGE 7. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-117-3043.



TYPE II, REMOVABLE TIEDOWN ANCHOR (SIDE VIEW)

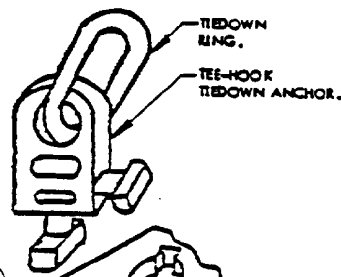
(SEE "NOTE ②" ABOVE.)



TYPE I, REMOVABLE TIEDOWN ANCHOR (TOP VIEW)

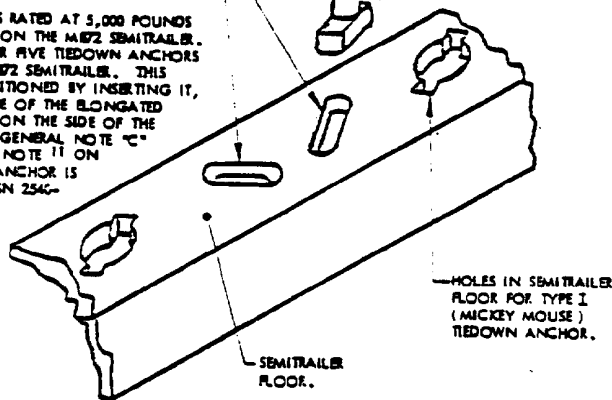
THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS INSTALLED ON THE M871 AND M872 SEMITRAILERS. IT IS COMMONLY REFERRED TO AS "MICKY MOUSE". THERE ARE LOCATIONS FOR TEN TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER AND LOCATIONS FOR APPROXIMATELY TWENTY-EIGHT TIEDOWN ANCHORS ON EACH SIDE OF THE M872 SEMITRAILER. THIS TIEDOWN ANCHOR IS POSITIONED BY REACHING UNDER FLOOR OF SEMITRAILER AND INSERTING THE TIEDOWN ANCHOR UP THROUGH THE HOLE AND ROTATING IT INTO POSITION. SEE GENERAL NOTE "C" ON PAGE 2 AND SPECIAL NOTES 10 AND 11 ON PAGE 7. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-112-1732.

ELONGATED SLOTTED HOLES IN FLOOR OF SEMITRAILER, FOR TEE-HOOK TIEDOWN ANCHORS.



NOTE ③:

THIS TIEDOWN ANCHOR IS RATED AT 5,000 POUNDS AND IS ONLY INSTALLED ON THE M872 SEMITRAILER. THERE ARE LOCATIONS FOR FIVE TIEDOWN ANCHORS ON EACH SIDE OF THE M872 SEMITRAILER. THIS TIEDOWN ANCHOR IS POSITIONED BY INSERTING IT, FROM THE TOP, INTO ONE OF THE ELONGATED SLOTTED HOLES LOCATED ON THE SIDE OF THE SEMITRAILER FLOOR. SEE GENERAL NOTE "C" ON PAGE 2 AND SPECIAL NOTE 11 ON PAGE 7. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-113-9285.



REMOVABLE TEE-HOOK TIEDOWN ANCHOR (ISOMETRIC VIEW)

(SEE "NOTE ③" ABOVE.)