STINGER

LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR SHIPMENT OF THE COMPLETE ROUND PACKED IN WIRE-BOUND AND/OR ALUMINUM CONTAINER (UNITIZED AND UNUNITIZED OR PALLETIZED AND UNPALLETIZED), IN/ON TACTICAL VEHICLES

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U.S. ARMY MATERIE	EL C	OMM	AND DR	AWING
APPROVED, U.S. ARMY MISSILE COMMAND	DRAFT	SMAN	TECHNICIAN	ENGINEER
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	19	48	8185	GM17SR1

DO NOT SCALE

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 THE STINGER GUIDED MISSILE PACKED IN WIREBOUND
 CONTAINER AND/OR ALUMINUM CONTAINER. SUBSEQUENT REFERENCE
 TO CONTAINER MEANS WIREBOUND CONTAINER AND/OR ALUMINUM
 CONTAINER WITH CONTENTS. ALSO, SUBSEQUENT REFERENCE TO
 SKIDDED UNIT MEANS THE SKIDDED UNIT OF NINE (9) WIREBOUND
 CONTAINERS WITH CONTENTS AND SUBSEQUENT REFERENCE TO
 PALLETIZED UNIT MEANS THE PALLETIZED UNIT OF NINE (9)
 ALUMINUM CONTAINERS WITH CONTENTS.
- C. FOR DETAILS OF THE WIREBOUND CONTAINER, SEE US ARMY MISSILE COMMAND DRAWING NO. 11509503.

CONTAINER DIMENSIONS - - - 67-1/4" LONG X 13-1/8" WIDE X 10-1/2" HIGH (APPROX).

GROSS WEIGHT - - - - - - 77 POUNDS (APPROX).

CUBE - - - - - - - - 5.4 CUBIC FEET.

D. FOR DETAILS OF THE ALUMINUM CONTAINER, SEE US ARMY MISSILE COMMAND DRAWING NO. 11486952.

CONTAINER DIMENSIONS - - - 65-9/16" LONG X 13" WIDE X 13-3/8" HIGH (APPROX).

GROSS WEIGHT - - - - - 85-3/4 POUNDS (APPROX).

CUBE - - - - - - - - 6.6 CUBIC FEET

E. FOR DETAILS OF THE UNITIZED WIREBOUND CONTAINERS, SEE US ARMY DARCOM DRAWING NO. 19-48-5239-GM20SR1 AND "SKIDDED UNIT" DETAIL ON PAGE 5.

SKIDDED UNIT DIMENSIONS - 39-3/8" LONG BY 67-1/4" WIDE BY 36-1/2" HIGH. GROSS WEIGHT - - - - - - - 749 POUNDS (APPROX). CUBE - - - - - - - - - 55.9 CUBIC FEET.

F. FOR DETAILS OF THE PALLETIZED ALUMINUM CONTAINERS, SEE US ARMY DARCOM DRAWING NO. 19-48-5239-GM20SR1 AND "ALUMINUM CONTAINER (PALLETIZED)" DETAIL ON PAGE 5.

PALLETIZED UNIT
DIMENSIONS - - - - - - - 42" LONG BY 67-1/16" WIDE
BY 45-5/8" HIGH.
GROSS WEIGHT - - - - - - 952 POUNDS (APPROX).
CUBE - - - - - - - - - 73.8 CUBIC FEET.

- G. 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 22 FOR GUIDANCE.
- H. 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.
- J. WEB STRAP TIEDOWN ASSEMBLIES MUST BE SECURELY HOOKED INTO ANCHORING DEVICES ON THE TRANSPORTING VEHICLE AND FIRMLY TENSIONED. FIRMLY TENSIONED MEANS, WHEN THE OPERATOR PULLS ON THE RATCHET HANDLE BY HAND, THE RATCHET WILL NOT ADVANCE ANOTHER NOTCH. NO TYPE OF MECHANICAL EXTENSION OR LEVER WILL BE USED. EXERCISE CARE DURING STRAP APPLICATION. AVOID TWISTS IN THE STRAP TO THE EXTENT POSSIBLE (IF TIME PERMITS) BUT ENSURE THERE ARE NO KNOTS IN THE STRAP. ON THE TAKE-UP SPOOL OF THE RATCHET, ENSURE STRAIGHT LAY OF THE STRAP WHEN TENSIONING.

(GENERAL NOTES CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

<u>STRAP</u> - - - - - - : WEBBING, UNIVERSAL TIEDOWN, · NSN 5340-00-980-9277, PN 10900880; NSN 1670-00-725-1437, PN 1376-013; NSN 5340-01-089-4997, PN 11669588; OR NSN 5340-01-204-3009, PN 9392419.

ANTI-CHAFING

MATERIAL ----: CANVAS, BURLAP, TAPE OR ANY OTHER

SUITABLE MATERIALS.

(GENERAL NOTES CONTINUED FROM LEFT)

AFTER INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, BY ROTATING THE TAKE-UP SPOOL UNTIL NO METAL ON THE SPOOL IS SHOWING AND THE STRAP HAS MADE CONTACT WITH ITSELF, THE TENSIONED STRAP MUST FORM AT LEAST 1/2 BUT NOT MORE THAN 1-1/2 WRAPS OF STRAP ON THE TAKE-UP SPOOL OF THE TENSIONING RATCHET. AFTER TENSIONING IS COMPLETED ENSURE THAT THE SPOOL LOCKING LATCH IS FULLY SEATED AT BOTH ENDS OF THE SPOOL IN MATCHING LOCKING NOTCHES. TIE BACK THE LOOSE ENDS OF THE STRAP AFTER TENSIONING IS COMPLETED (LOOSE ENDS MAY BE FOLDED AND TAPED OR TIED TO THE TENSIONING STRAP IF TIME PERMITS). FOR ADDITIONAL GUIDANCE, SEE "RATCHET/RATCHETING DETAILS" ON PAGES 20 AND 21.

- K. ADJUSTABLE SCUFF SLEEVES 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 THE CARGO. 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 CARGO AND IF NECESSARY, TAPED OR TIED IN POSITION.
- L. IF THE SIDE RACKS FOR A SEMITRAILER ARE TO 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.
- M. PROCEDURES DEPICTED HEREIN ARE TYPICAL IN NATURE. ITEM LOCATION AND QUANTITIES OF THE DESIGNATED ITEM MAY BE VARIED TO SATISFY OPERATIONAL REQUIREMENTS, PROVIDING LOADING AND TIEDOWN PRINCIPLES SPECIFIED HEREIN ARE RETAINED.
- N. WHEN ONE WEB TIEDOWN STRAP ASSEMBLY IS NOT LONG ENOUGH TO SPAN THE DISTANCE DEPICTED, TWO ASSEMBLIES MAY BE HOOKED TOGETHER TO GAIN THE NECESSARY LENGTH.
- O. SOME TIEDOWN METHODS WITHIN THIS DRAWING SHOW TWO HOOKS TO BE CONNECTED TO ONE TIEDOWN EYE. THIS IS AUTHORIZED AS SPECIFIED HEREIN.
- P. 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.
- O. DURING LONG HAULS, WHEN POSSIBLE, STRAPS SHOULD CHECKED DURING VEHICLE STOPS AND TIGHTENED, IF NECESSARY.
- R. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS 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.
- S. 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.
- T. 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.
- U. IF THE TIEDOWN ANCHORS ON THE SIDE OF THE VEHICLE ARE TOO CLOSE TOGETHER, TOO FAR APART, OR ARE NOT IN A LOCATION THAT WILL ALLOW ADEQUATE HOLD DOWN OF LOAD WHEN WEB STRAPS ARE POSI TIONED STRAIGHT OVER TOP, THE LOAD HOLD DOWN STRAPS MAY BE CROSSED OVER THE TOP OF THE LOAD AS SHOWN IN THE LOAD ON PAGE 9.
- V. FOR ADDITIONAL GUIDANCE SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" ON PAGES 3 AND 4, THE "SPECIAL NOTES" ON LOAD PAGES, AND THE "LOAD PLANNING GUIDANCE CHART" ON PAGE 24.

PAGE 2

LOADING, TIEDOWN, AND UNLOADING PROCEDURES

- 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 COVERS AND BOWS FROM TRUCK OR TRAILER.
- 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 "J" ON PAGE 2.
- 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 SEMITRAILERS, DO NOT POSITION PALLETS OR OTHER ITEMS OF LADING, WITHIN FIVE FEET OF AFT END, IF POSSIBLE, AS THIS IS THE ROUGHEST RIDING AREA IN/ON THE VEHICLE.
- WHEN SECURING ITEMS IN THE 1-1/4-TON M998 HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV), USE THE FOLLOWING GITTOLOGY
 - A. THE CARGO AREA OF THE HMMWV IS EQUIPPED WITH EITHER EIGHT ORIGINAL OR MODIFIED TIEDOWN ANCHORS. ONLY THE SIX TIEDOWN ANCHORS LOCATED BETWEEN THE WHEEL WELLS MAY BE USED. HOWEVER, THESE ARE FIXED TIEDOWN ANCHORS DESIGNED FOR LONGITUDINAL FRONT-TO-REAR PULL AND ARE LIMITED TO THAT DIRECTION ONLY. NOTE THAT SIDE LOADING ON THE ORIGINAL OR MODIFIED TIEDOWN ANCHOR WILL CAUSE DAMAGE TO THE TIEDOWN ANCHOR AND/OR CAUSE THE TIEDOWN ANCHOR BOLT TO BECOME LOOSE. THE TWO TIEDOWN ANCHORS AT THE FORWARD END OF THE CARGO AREA ARE LOCATED UNDER THE FORWARD BULKHEAD AND CANNOT BE USED FOR TIEDOWN OF AMMUNITION AS THEY ARE NOT IN LONGITUDINAL ALIGNMENT WITH ANY OTHER TIEDOWN ANCHORS.
 - B. CAUTION: THE HMMWVS EQUIPPED WITH ORIGINAL TIEDOWN ANCHORS MUST NOT BE USED FOR RAIL TRANSPORT OF AMMUNITION. THE ORIGINAL TIEDOWN ANCHORS CAN BE IDENTIFIED BY THE HEX HEAD BOLT SECURING THE TIEDOWN ANCHOR TO THE FLOOR OF THE VEHICLE. THE ORIGINAL TIEDOWN ANCHOR SHOULD BE REPLACED WITH THE MODIFIED TIEDOWN ANCHORS AS INSTRUCTED IN PARAGRAPH C OR MODIFIED BY USING EYE BOLTS AS INSTRUCTED IN PARAGRAPH D.
 - C. THE HMMWVS EQUIPPED WITH MODIFIED TIEDOWN ANCHORS CAN BE IDENTIFIED BY THE PHILLIPS HEAD SCREW SECURING THE TIEDOWN ANCHOR TO THE FLOOR OF THE VEHICLE, IN LIEU OF A HEX HEAD BOLT. THE STATIC RATED WORKING LOAD OF THE MODIFIED TIEDOWN ANCHORING ASSEMBLY IS 2,500 POUNDS APPLIED LONGITUDINALLY ONLY. SIDE LOADING WILL AGAIN CAUSE DAMAGE TO THE ANCHOR AND/OR CAUSE THE ANCHOR SCREW TO BECOME LOOSE. THESE TIEDOWN ANCHORS MAY BE USED TO SECURE LOOSE AND/OR PALLETIZED AMMUNITION AND/OR OTHER ITEMS FOR TRANSPORT BY RAIL AND/OR SHIP. THE HOLD-DOWN WEB STRAPS MAY BE POSITIONED AT AN ANGLE OF O DEGREES TO 90 DEGREES. SINCE JANUARY 1990 ALL NEW PRODUCTION HMMWVS HAVE THE MODIFIED TIEDOWN ANCHOR FACTORY INSTALLED (ALL VEHICLES WITH SERIAL NO. 100,000 AND ABOVE). IF THE VEHICLE BEING USED IS NOT EQUIPPED WITH THE MODIFIED TIEDOWN ANCHOR IT IS THE RESPONSIBILITY OF THE USING UNIT TO ORDER THEM FROM GOVERNMENT SUPPLY (NSN 3990-01-314-8393, P/N 12342077). TECHNICAL MANUAL 9-2320-280-20P DELINEATES THIS NEWER MODIFIED
 - D. THE HMMWYS EQUIPPED WITH ORIGINAL TIEDOWN ANCHORS MAY ALSO BE MODIFIED BY USING EYE BOLTS IN LIEU OF THE ORIGINAL TIEDOWN ANCHORS. THESE INTERIM PROCEDURES MAY BE USED TEMPORARILY UNTIL THE MODIFIED TIEDOWN ANCHORS ARE ORDERED AND INSTALLED. REMOVE THE ORIGINAL TIEDOWN ANCHORS AND REPLACE WITH 1/2" SHOULDER EYE BOLTS, MS51937, SIZE 1/2", 13 UNC-2A, NSN 5306-00-050-0347. THE EYE BOLTS ARE TO BE TIGHTENED TO 75-FOOT-POUNDS. THE FINAL ORIENTATION OF THE EYE BOLT SHOULD HAVE THE DIAMETER OF THE EYE POSITIONED PARALLEL TO THE VEHICLE SIDE WALL. THESE TIEDOWN ANCHORS MAY BE USED TO SECURE LOOSE AND/OR PALLETIZED AMMUNITION AND/OR OTHER ITEMS FOR TRANSPORT BY RAIL AND/OR SHIP. THE HOLD-DOWN WEB STRAPS MAY BE POSITIONED AT AN ANGLE OF O DEGREES TO 9D DEGREES.

(CONTINUED AT RIGHT)

(LOADING, TIEDOWN, AND UNLOADING PROCEDURES CONTINUED)

- 7. 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 UNITS, AND ATTACH THE NON-RATCHET HOOK END OF EACH STRAP TO A TIEDOWN ANCHOR ON EACH SIDE OF THE VEHICLE. MAKE SURE THERE IS ONE-HALF TO ONE-AND-ONE-HALF WRAPS OF STRAP ON ONE RATCHET, THEN TAKE UP EXCESS SLACK IN REMAINING RATCHET AND RATCHET TIGHT. THIS METHOD RECUIRES 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 UNITS CAN BE POSITIONED ONE WIDE, DOWN THE CENTER OF THE VEHICLE LENGTH, IN LIEU OF TWO WIDE. SEE THE LOAD ON PAGES 8 AND 9 FOR GUIDANCE.
 - C. 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 THE STRAP TO TIEDOWN ANCHORS IN THE FLOOR, POSITION THE PALLETIZED UNITS AS CLOSE TO THE TIEDOWN ANCHORS ON THAT SIDE AS POSSIBLE.
 - D. A WEB STRAP ASSEMBLY, SUCH AS NSN 5340-01-204-3009, 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.
- 8. PALLETIZED AND/OR SKIDDED UNITS MUST NOT BE STACKED MORE THAN ONE HIGH. "LOOSE" CONTAINERS MAY BE POSITIONED ON TOP OF A PALLETIZED AND/OR SKIDDED UNIT AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES, AS SHOWN ON PAGES 18 AND 19. "LOOSE" CONTAINERS MAY BE STACKED AND/OR BUNDLED ON TOP OF EACH OTHER AS SHOWN ON PAGES 14 THROUGH 16. STACKS MUST BE STABLE, SECURED TIGHTLY TO VEHICLE FLOOR, AND MUST NOT EXCEED THE LOAD HEIGHT OF THE VEHICLE BEING LOADED.
- THE M871 SEMITRAILER IS EQUIPPED WITH THREE DIFFERENT TYPES OF TIEDOWN ANCHORS. TYPE I IS A REMOVABLE TIEDOWN ANCHOR THAT HAS ONE RING AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE TRAILER, INSERTING IT UP THRU THE HOLE AND ROTATING IT INTO POSITION (NOTE THAT THIS REMOVABLE TIEDOWN ANCHOR IS ALSO USED ON THE M872 SEMITRAILER). THERE ARE LOCATIONS FOR TEN OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE II IS A REMOVABLE TIEDOWN ANCHOR THAT HAS TWO RINGS AND IS POSITIONED BY DEPRESSING A SPRING LOCK LEVER AND INSERTING IT INTO A 1-3/4" DIAMETER HOLE FROM THE TOP. ASSURE THAT THE TIEDOWN ANCHOR IS FIRMLY SEATED AND ROTATED SO THE SPRING LOCK LEVER IS POINTING AWAY FROM THE DIRECTION OF THE PULL ON THE ATTACHED WEB STRAP ASSEMBLY. THERE ARE LOCATIONS FOR TEN OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE III IS A FIXED TIEDOWN ANCHOR THAT HAS ONE RING AND IS RECESSED INTO THE FLOOR. THERE ARE FIVE OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. USE TYPE II AND TYPE III TIEDOWN ANCHORS TO SECURE THE LOAD. HOWEVER, TYPE I TIEDOWN ANCHORS MY BE USED, IF AVAILABLE WHEN THERE IS AN INSUFFICIENT OUANTITY OF TYPE II TIEDOWN ANCHORS MY PETALES ON PAGE 22.

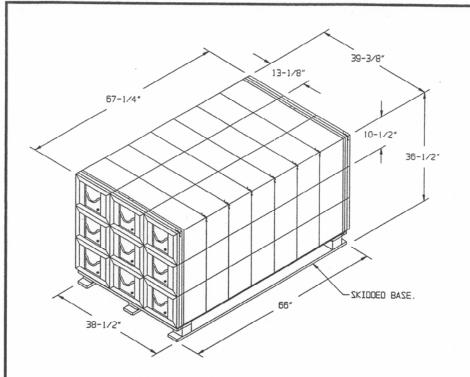
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- 10. THE M872 SEMITRAILER IS EQUIPPED WITH TWO DIFFERENT TYPES
 OF TIEDDWN ANCHORS AS INDICATED IN THE LOAD ON PAGE 12 AND
 13. TYPE I IS A REMOVABLE TIEDDWN ANCHOR THAT HAS ONE RING
 AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE
 TRAILER, INSERTING IT UP THROUGH THE HOLE AND ROTATING IT
 INTO POSITION (NOTE THAT THIS REMOVABLE TIEDDWN ANCHOR MAY
 ALSO BE USED ON THE M871 SEMITRAILER). THERE ARE
 TWENTY-EIGHT LOCATIONS FOR THESE TIEDDWN ANCHORS ON EACH
 SIDE OF THE M872 SEMITRAILERS. HOWEVER, THE QUANTITY AND
 LOCATION MAY VARY ON SOME M872 SEMITRAILERS. THE SECOND
 TYPE OF TIEDDWN ANCHOR IS THE "TEE-HOOK". THIS IS A
 REMOVABLE TIEDDWN ANCHOR 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 TIEDDWN
 ANCHORS ON EACH SIDE OF THE M872 SEMITRAILERS. HOWEVER,
 THE QUANTITY AND LOCATION MAY VARY ON SOME M872
 SEMITRAILERS. ASSURE THAT THE TIEDDWN ANCHOR IS FIRMLY
 SEATED AND ROTATED APPROXIMATELY 45° TO ENGAGED POSITION
 BEFORE ATTACHING THE WEB STRAP TIEDDWN ASSEMBLY. THE LOAD
 ON PAGE 16 REQUIRES THE USE OF THETTY TYPE I TIEDDWN
 ANCHORS OR EACH SIDE OF THE USE OF THETTY TYPE I TIEDDWN
 ANCHORS OR ERCOURES THE USE OF THETTY TYPE I TIEDDWN
 ANCHORS (FIFTEEN ON EACH SIDE OF THE TRAILER). NO TEE-HOOK
 TIEDDWN ANCHORS ARE REQUIRED. HOWEVER, THEY MAY BE USED IF
 DESIRED. SEE "TIEDDWN ANCHOR DETAILS" ON PAGE 22.
- 11. WHEN A LOAD RESTRAINING WEB STRAP IS ATTACHED TO A VEHICLE TIEDOWN ANCHOR, THE WEB STRAP, THE STRAP HOOK, AND/OR RATCHET IF USING A STRAP HAVING THE RATCHETS AT THE VERY END OF THE STRAP, MUST FORM A STRAIGHT LINE IN THE DIRECTION OF PULL FROM THE VEHICLE TIEDOWN ANCHOR. THE STRAP HOOK, AND/OR END-OF-STRAP RATCHET MUST NOT BIND AGAINST THE VEHICLE FLOOR, AND/OR EDGE OF VEHICLE FLOOR IF VEHICLE TIEDOWN ANCHORS ARE LOCATED ALONG THE SIDE, SUCH AS ON THE MI27 SEMITRAILER. IF THE STRAP HOOK, AND/OR END-OF-STRAP RATCHET, CONTACT THE FLOOR IN SUCH MANNER THAT THE DIRECTION OF THE PULL IS NOT A STRAIGHT LINE AN INTERFACE, SUCH AS A CLEVIS, HAVING THE SAME STRENGTH AS THE VEHICLE TIEDOWN ANCHOR, MUST BE ATTACHED TO THE VEHICLE TIEDOWN ANCHOR AND THEN ATTACH THE WEB STRAP TO THE INTERFACE. NOTE THAT CONTACT OF THE STRAP HOOK AND/OR END-OF-STRAP RATCHET WITH THE FLOOR OF THE VEHICLE IS PERMITTED AS LONG AS THE LOAD RESTRAINING STRAP, STRAP HOOK, AND/OR END-OF-STRAP RATCHET FORMS A STRAIGHT LINE IN THE DIRECTION OF PULL FROM THE VEHICLE TIEDOWN ANCHOR.

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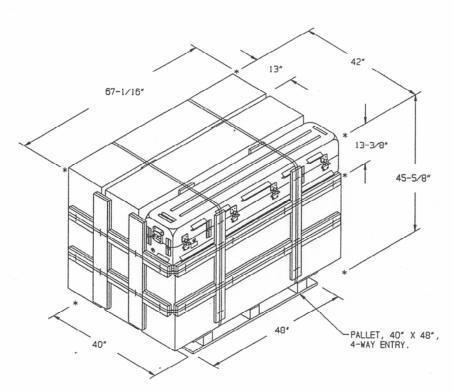
WIREBOUND CONTAINER DATA:

GROSS WEIGHT - - - 77 LBS (APPROX)
CUBE - - - - - - 5.4 CU FT (APPROX)

SKIDDED UNIT DATA:

GROSS WEIGHT - - - 749 LBS (APPROX) CUBE - - - - - 55.9 CU FT (APPROX)

SKIDDED UNIT OF NINE (9) STINGER GUIDED MISSILES, PACKED ONE (1) PER WIREBOUND (WOODEN) BOX



PALLETIZED UNIT OF NINE (9) STINGER GUIDED MISSILES, PACKED ONE (1) PER ALUMINUM CONTAINER

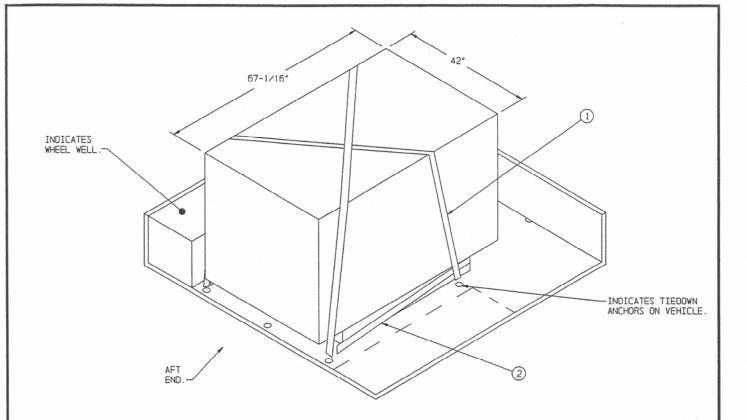
ALUMINUM CONTAINER DATA:

GROSS WEIGHT - - - 85-3/4 LBS (APPROX) CUBE - - - - - 6.6 CU FT (APPROX)

PALLETIZED UNIT DATA:

GROSS WEIGHT - - - - 952 LBS (APPROX) CUBE - - - - - 73.8 CU FT (APPROX)

UNIT DETAILS



SPECIAL NOTES:

- ONE PALLETIZED UNIT OF ALUMINUM CONTAINERS IS SHOWN IN A 1-1/4-TON M998, HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV), HAVING INSIDE DIMENSIONS OF 83-1/4" LONG BY 84" 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 ONE PALLETIZED UNIT OF ALUMINUM CONTAINERS. HOWEVER, IF LOADING A SKIDDED UNIT OF WIREBOUND CONTAINERS USE THE SAME PROCEDURES. CAUTION: SEE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" NOTE 6, ON PAGE 3 PRIOR TO LOADING VEHICLE.
- 4. POSITION THE PALLETIZED OR SKIDDED UNIT AGAINST THE VEHICLE TAILGATE AND CENTERED BETWEEN THE VEHICLE WHEELS, AS SHOWN. CAUTION: NEVER POSITION THE LOAD AGAINST THE FORWARD BULKHEAD. LOAD SECURING WEB STRAPS MAY ONLY BE ATTACHED TO THE TIEDOWN ANCHORS LOCATED BETWEEN THE VEHICLE WHEEL WELLS. DUE TO THE LOCATION OF THE REAR MOST TIEDOWN ANCHORS THE HOLD DOWN STRAPS, PIECES MARKED ① MUST BE CROSSED OVER TOP OF LOAD.
- 5. A TOTAL OF THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

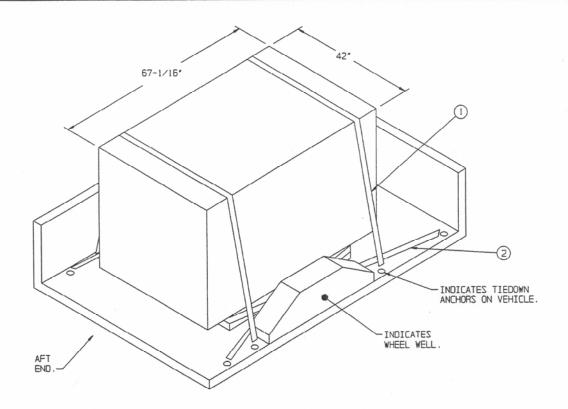
- (1) WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNII, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. CROSS THE STRAPS OVER TOP OF LOAD AS SHOWN. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- (2) WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u> <u>OUANTITY</u> <u>WEIGHT</u> (APPROX)

PALLET UNIT - - - - 1 - - - - 952 LBS

ONE PALLET UNIT IN A 1-1/4-TON M998 HMMWV



SPECIAL NOTES:

- ONE PALLETIZED UNIT OF ALUMINUM CONTAINERS IS SHOWN IN A 1-1/4-TON M1008 COMMERCIAL UTILITY CARGO VEHICLE (CUCV), 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 SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
- 3. THE PROCEDURES SHOWN ABOVE DEPICT ONE PALLETIZED UNIT OF ALUMINUM CONTAINERS. HOWEVER, IF LOADING A SKIDDED UNIT OF WIREBOUND CONTAINERS USE THE SAME PROCEDURES. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 3 PRIOR TO LOADING VEHICLE.
- 4. CENTER THE PALLETIZED OR SKIDDED UNIT LONGITUDI-NALLY BETWEEN THE TWO TIEDOWN ANCHORS LOCATED ALONG ONE SIDE OF THE VEHICLE TO WHICH WEB STRAPS MARKED ① WILL BE ATTACHED. ALSO CENTER THE UNIT LATERALLY BETWEEN THE VEHICLE WHEEL WELLS.
- A TOTAL OF FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- (2) WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

LOAD AS SHOWN

ITEM

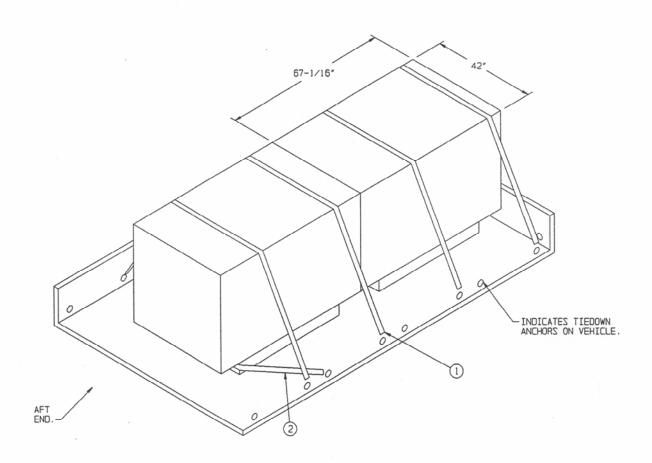
QUANTITY

WEIGHT (APPROX)

PALLET UNIT - - - - 1 - - - - - 952 LBS

ONE PALLET UNIT IN A 1-1/4-TON M1008 CUCV

PAGE 7



SPECIAL NOTES:

- TWO PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN IN A 2-1/2-TON M35 CARGO TRUCK, 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 AN ALTERNATIVE UNIT OFMETHOD OF LOADING THE PALLETIZED OR SKIDDED UNITS TO PROVIDE ROOM BETWEEN THE UNIT AND THE VEHICLE SIDE WALL FOR INSTALLATION OF WEB STRAPS HAVING THE RATCHET ON THE VERY END OF THE STRAP. POSITION THE LOAD AGAINST THE FORWARD END WALL. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES", NOTE 7, ON PAGE THREE PRIOR TO LOADING THE VEHICLE.
- A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- WEB STRAP TIEDOWN ASSEMBLY (4 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- (2) WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

LOAD AS SHOWN

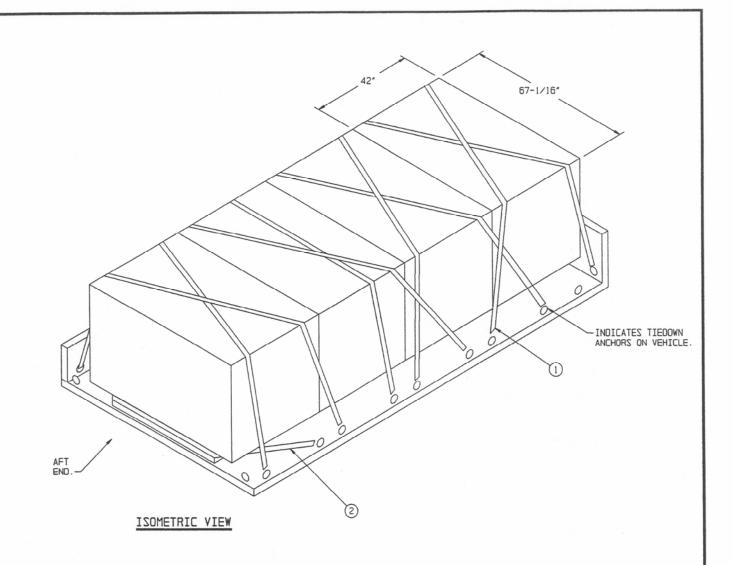
ITEM

QUANTITY

WEIGHT (APPROX)

PALLET UNIT - - - - 2 - - - - 1,904 LBS

TWO PALLET UNITS IN A 2-1/2-TON M35 CARGO TRUCK



SPECIAL NOTES:

- FOUR PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN IN A 5-TON M925A1 CARGO TRUCK, 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 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 AN ALTERNATIVE METHOD OF LOADING THE PALLETIZED OR SKIDDED UNITS TO PROVIDE ROOM BETWEEN THE UNIT AND THE VEHICLE SIDE WALL FOR INSTALLATION OF WEB STRAPS HAVING THE RATCHET ON THE VERY END OF THE STRAP. POSITION THE LOAD AGAINST THE FORWARD END WALL. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES", NOTE 7, ON PAGE 3 PRIOR TO LOADING VEHICLE.
- A TOTAL OF NINE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- (1) WEB STRAP TIEDOWN ASSEMBLY (8 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", ANO "U" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

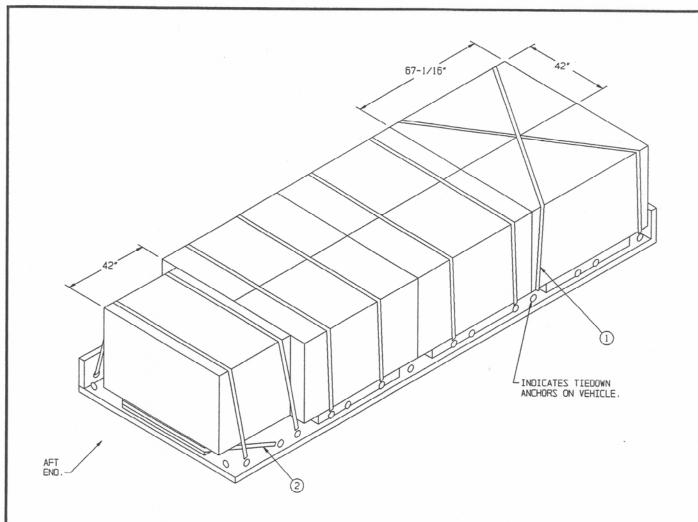
LOAD AS SHOWN

ITEM QUA

QUANTITY

WEIGHT (APPROX)

PALLET UNIT ---- 4 ---- 3,808 LBS



SPECIAL NOTES:

- SEVEN PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN IN A 5-TON M927A1 CARGO TRUCK, HAVING INSIDE DIMENSIONS OF 244" LONG BY 88" WIDE.
- THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFI-CIENT 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 A MAXIMUM LOAD FOR THE VEHICLE SHOWN. SEVEN PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN. HOWEVER IF LOADING SKIDDED UNITS OF WIREBOUND CONTAINERS USE THE SAME PROCEDURES. POSITION THE LOAD AGAINST THE FORWARD END WALL. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 3 PRIOR TO LOADING VEHICLE.
- A TOTAL OF NINE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- WEB STRAP TIEDOWN ASSEMBLY (8 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- (2) WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

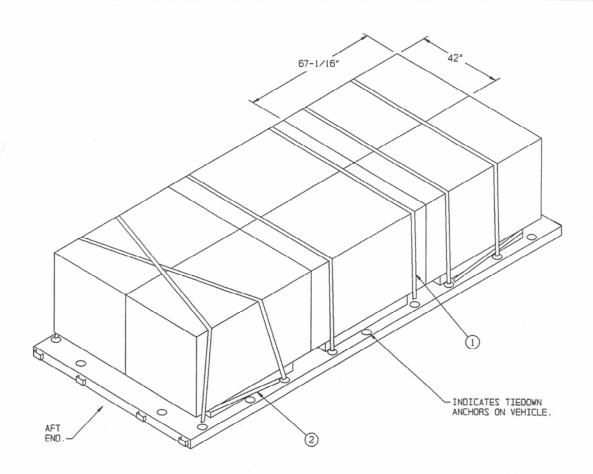
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ITEM

QUANTITY

WEIGHT (APPROX)

PALLET UNIT ---- 7 ---- 6,664 LBS



SPECIAL NOTES:

- SIX PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN ON A 10-TON M977 AND/OR M985 HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), HAVING INSIDE DIMENSIONS OF 216-3/8" LONG BY 90-3/4" WIDE.
- 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 A MAXIMUM LOAD FOR THE VEHICLE SHOWN. SIX PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN, HOWEVER, IF LOADING SKIDDED UNITS OF WIREBOUND CONTAINERS USE THE SAME PROCEDURES. DO NOT POSITION LOAD AGAINST END WALLS. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES", ON PAGE 3 PRIOR TO LOADING VEHICLE.
- A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REDUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- (1) WEB STRAP TIEDOWN ASSEMBLY (6 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

LOAD AS SHOWN

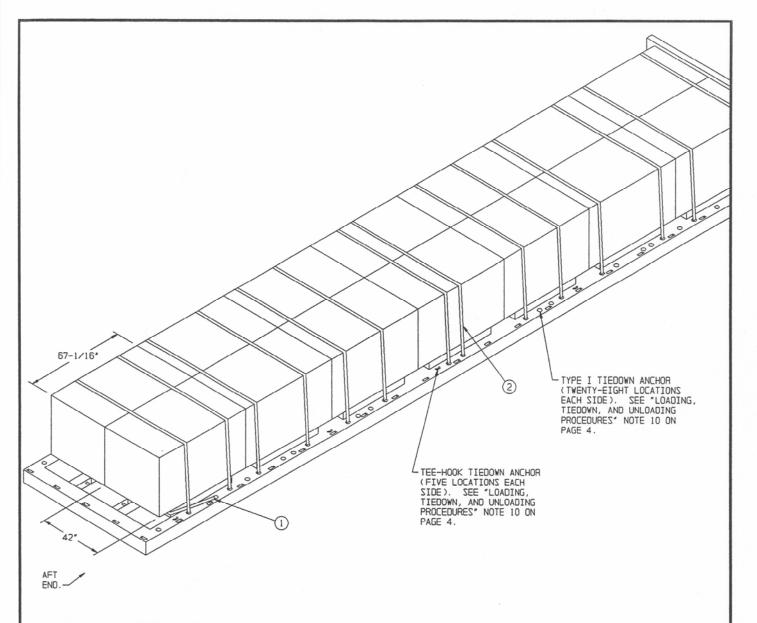
ITEM

QUANTITY

WEIGHT (APPROX)

PALLET UNIT - - - - 6 - - - - 5,712 LBS

SIX PALLET UNITS ON A 10-TON M977 AND/OR M985 HEMTT



KEY NUMBERS

- WEB STRAP TIEDOWN ASSEMBLY (14 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED OR SKIDDED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCLEFVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON ONE SIDE OF VEHICLE, AROUND PALLET OR SKIDDED BASE AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

SPECIAL NOTES:

- FOURTEEN PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN ON A 34-TON M872 SEMITRAILER, HAVING INSIDE DIMENSIONS OF 489-1/2" LONG BY 96" WIDE.
- 2. THE YEHICLE 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 AN MAXIMUM LOAD FOR THE VEHICLE SHOWN. FOURTEEN PALLETIZED UNITS OF ALUMINUM CONTAINERS ARE SHOWN, HOWEVER, IF LOADING SKIDDED UNITS OF WIREBOUND CONTAINERS USE THE SAME PROCEDURES. POSITION THE LOAD AGAINST THE FORWARD BULKHEAD ON THE TRAILER. SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES", ON PAGE 3 PRIOR TO LOADING VEHICLE.
- 4. A TOTAL OF FIFTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

NWOHZ ZA DAOL

ITEM

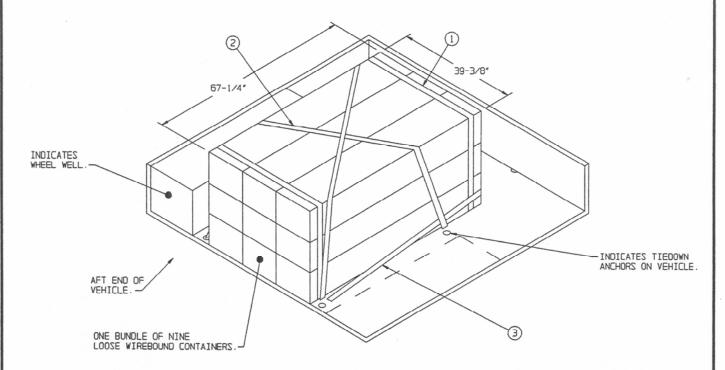
OUANTITY

WEIGHT (APPROX)

PALLET UNIT ---- 13 ---- 13,328 LBS

FOURTEEN PALLET UNITS ON A 34-TON M872 SEMITRAILER

PAGE 13



SPECIAL NOTES:

- 1. NINE LOOSE WIREBOUND CONTAINERS ARE SHOWN IN A 1-1/4-TON, M998, HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV), HAVING INSIDE DIMENSIONS OF 83-1/4" LONG BY 84" WIDE. <u>CAUTION</u>: THE PROCEDURES SHOWN ARE FOR WIREBOUND CONTAINERS ONLY. IF LOADING ALUMINUM CONTAINERS USE THE GUIDANCE ON PAGES 17 AND 18.
- 2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT OUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
- 3. POSITION THE CONTAINERS AGAINST THE TAILGATE. THREE CONTAINERS WIDE AND THREE CONTAINERS HIGH AND CENTERED BETWEEN THE VEHICLE WHEEL WELLS, AS SHOWN. CAUTION: NEVER POSITION THE LOAD AGAINST THE FORWARD BULKHEAD. LOAD SECURING WEB STRAPS MAY ONLY BE ATTACHED TO THE TIEDOWN ANCHORS LOCATED BETWEEN THE WHEEL WELLS. DUE TO THE LOCATION OF THE REAR MOST TIEDOWN ANCHORS THE HOLD DOWN STRAPS MARKED ② MUST BE CROSSED OVER TOP OF LOAD.
- 4. THE PROCEDURES SHOWN ABOVE MAY BE USED FOR SECURING THREE THROUGH NINE LOOSE CONTAINERS. IF LOADING ONE OR TWO LOOSE CONTAINERS OMIT STRAPS MARKED ①.
- A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

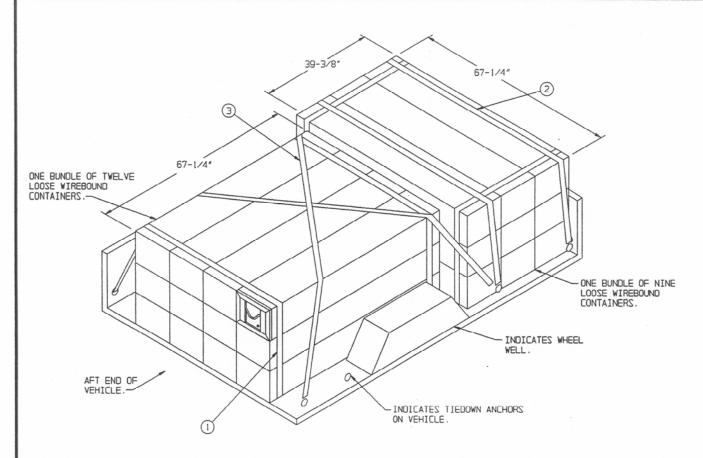
- (1) WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE VEHICLE, AT THE PROPER LOCATION, PRIOR TO LOADING CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. AFTER ALL CONTAINERS ARE STACKED BRING ENDS OF STRAPS OVER TOP OF LOAD AND HOOK ENDS TOGETHER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J" AND "K" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. CROSS THE STRAP OVER THE TOP OF THE LOAD AS SHOWN. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", "O", AND "U" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM LAYER OF CONTAINERS AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.

LOAD AS SHOWN

ITEM QUANTITY WEIGHT (APPROX)

CONTAINER - - - - - 9 - - - - 693 LBS

NINE LOOSE WIREBOUND CONTAINERS IN A 1-1/4-TON M998 HMMWV



SPECIAL NOTES:

- TWENTY-ONE LOOSE WIREBOUND CONTAINERS ARE SHOWN IN A 1-1/2-TON, M105, CARGO TRAILER HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE. <u>CAUTION</u>: THE PROCEDURES SHOWN ARE FOR WIREBOUND CONTAINERS ONLY. IF LOADING ALUMINUM CONTAINERS USE THE GUIDANCE ON PAGES 17 AND 18.
- THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, 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.
- THE PROCEDURES SHOWN ABOVE DEPICT SECUREMENT OF TWENTY-ONE LOOSE STINGER GUIDED MISSILE CONTAINERS. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES, HOWEVER, IF LOADING THESE CONTAINERS IN A LEUDHES, HOWEVER, IF LUADING 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 16, 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 16, IS REQUIRED ON EACH END.
- A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES IS REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP WEB STRAP TIEDUWN ASSEMBLY (4 REUD). INSTALL EACH STRAP
 TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION
 THESE 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 "J" AND "K" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). 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 STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH ST FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF INSTALL EACH STRAP CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. CROSS THE STRAPS OVER THE TOP OF THE LOAD AS SHOWN. POSITION STRAP RATCHETS ON THE SAME SIDE OF LOAD. POSITION STRAP SCUFF SLEEVE AT SHARP EDGES TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES 'J', "K", "O" AND "U" ON PAGE 2.

LOAD AS SHOWN

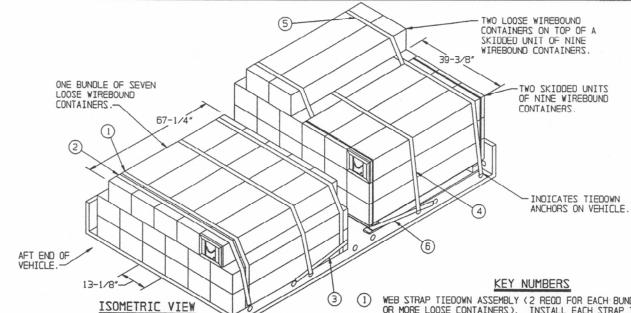
ITEM

YTITMAUD

WEIGHT (APPROX)

CONTAINERS - - - - - 21 - - - - - 1,617 LBS

TWENTY-ONE LOOSE WIREBOUND CONTAINERS IN A 1-1/2-TON M105 CARGO TRAILER



SPECIAL NOTES:

- NINETEEN LOOSE WIREBOUND CONTAINERS AND TWO SKIDDED UNITS ARE SHOWN IN A TRUCK, CARGO, 2-1/2-TON, M35 AND/OR M211, HAVING INSIDE DIMENSIONS OF 147" LONG BY 88" WIDE.
- 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 TONTAINERS 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), (5), AND (6) 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 POSITIONED AGAINST THE FORWARD END WALL. 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.
- 5. THE QUANTITY OF LOOSE CONTAINERS THAT CAN BE SECURED ON TOP OF A SKIDDED UNIT MAY BE ONE OR TWO. 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 (§) 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 UNIT AND/OR LOOSE CONTAINERS ARE POSITIONED AWAY FROM AN END WALL, ONE ADDITIONAL STRAP MARKED ③ AND ⑥ IS REQUIRED.
- A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES IS REQUIRED FOR THE LOAD SHOWN.

(KEY NUMBERS CONTINUED)

- (5) WEB STRAP TIEDOWN ASSEMBLY (2 REOD). 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 STRAP MARKED (5) UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS TOGETHER. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "J" AND "K" ON PAGE 2.
- (6) WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL 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 RATCHET TIGHT,

WEB STRAP TIEDOWN ASSEMBLY (2 REOD FOR EACH BUNDLE OF TWO OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL 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 THE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR 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 STRAPS AND THEN RATCHET TIGHT. THE RATCHET MAY BE POSITIONED ANYWHERE ACROSS THE TOP OF THE STACK OR SINGLE LAYER ROW. SEE GENERAL NOTES "J" AND "K" ON PAGE 2.

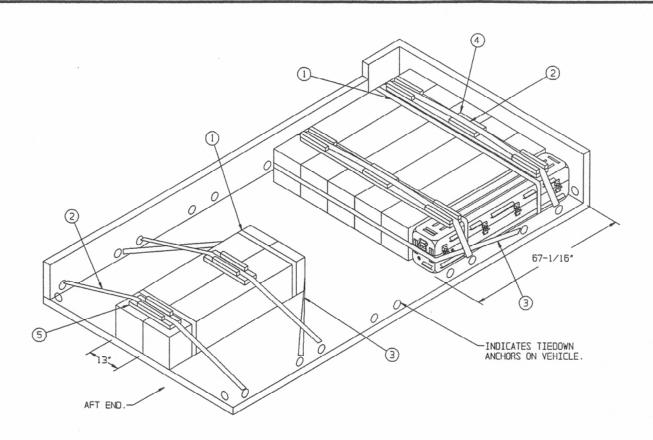
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF BUNDLE, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION THE STRAP STRAIGHT ACROSS THE BUNDLE IF POSITION THE STRAP DIAGONALTY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO POSITION 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 RATCHET TIGHT. SEE GENERAL NOTES "J", AND "K", ON PAGE 2.
- (3) WEB STRAP TIEDOWN ASSEMBLY (1 REOD). 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 ANCHOR 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 "J", "K", AND "O" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL STRAP
 TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER
 TOP OF SKIDDED UNITS, UNDER ALL LOOSE UNITS WHICH ARE
 POSITIONED ON TOP OF A SKIDDED UNIT, TO A TIEDOWN ANCHOR
 ON THE OPPOSITE SIDE OF THE VEHICLE. ASSURE THAT STRAP
 MARKED (§) IS PRE-POSITIONED. 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 "J", "K", AND "O" ON PAGE 2.

(CONTINUED AT LEFT)

NWOHZ ZA DAOJ

ITEM		Q	JANT:	ΙT	2			WEIGH	(AP	PROX	
CONTAINERS - SKIDDED UNIT											
								2.961			

NINETEEN LOOSE WIREBOUND CONTAINERS AND TWO SKIDDED UNITS IN A 2-1/2-TON M35 CARGO TRUCK



SPECIAL NOTES:

- EIGHT LOOSE ALUMINUM CONTAINERS ARE SHOWN IN A 5-TON M925A1 CARGO TRUCK, HAYING INSIDE DIMENSIONS OF 168" LONG BY 88" WIDE. NOTE: THE PROCEDURES SHOWN ARE FOR ALUMINUM CONTAINERS ONLY. IF LOADING WIREBOUND CONTAINERS USE THE GUIDANCE ON PAGES 14 THROUGH 16.
- THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT OUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
- POSITION THE CONTAINERS AGAINST THE FORWARD END WALL AND/OR TAILGATE. <u>CAUTION</u>: DO NOT STACK LOOSE ALUMINUM CONTAINERS. FOR ALTERNATIVE METHOD OF TRANSPORTING LOOSE ALUMINUM CONTAINERS SEE PAGE 18.
- A TOTAL OF EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

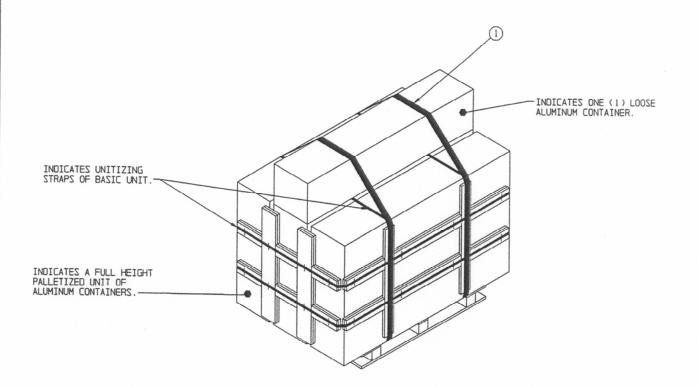
- MEB STRAP TIEDOWN ASSEMBLY (4 REOD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE STRAPS ON THE FLOOR OF THE VEHICLE, AT THE PROPER LOCATION, PRIOR TO LODDING THE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND POSITION STRAP RATCHETS ON THE SAME SIDE OF THE VEHICLE. AFTER ALL CONTAINERS ARE POSITIONED BRING ENDS OF STRAPS OVER TOP OF LOAD AND HOOK ENDS TOGETHER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J" AND "K" ON PAGE 2.
- WEB STRAP TIEDOWN ASSEMBLY (4 REOD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, AND STRAPPING BOARD, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.
- 3 WEB STRAP TIEDOWN ASSEMBLY (1 REOD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "J", "K", AND "O" ON PAGE 2.
- (4) STRAPPING BOARD A (2 REOD). SEE THE DETAIL ON PAGE 23.
- (5) STRAPPING BOARD B (2 REOD). SEE THE DETAIL ON PAGE 23.

LOAD AS SHOWN

<u>ITEM</u> <u>QUANTITY</u> <u>WEIGHT</u> (APPROX)

CONTAINERS - - - - 8 - - - - 686 LBS

EIGHT LOOSE ALUMINUM CONTAINERS IN A 5-TON M925A1 CARGO TRUCK



SECUREMENT OF LOOSE CONTAINERS

SPECIAL NOTES:

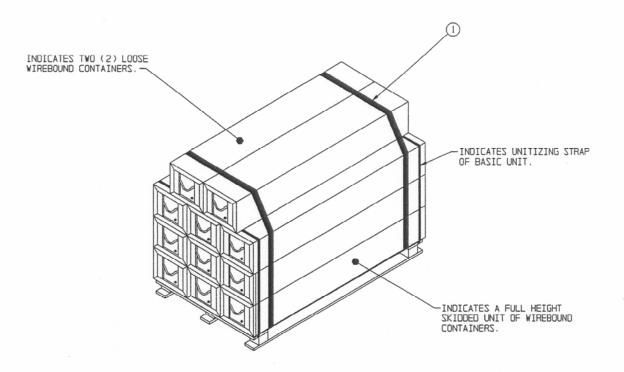
- THE ISOMETRIC VIEW SHOWN ABOVE DEPICTS ALUMINUM CONTAINERS. SEE PAGE 5 FOR DETAIL OF ALUMINUM CONTAINER AND PALLETIZED UNIT.
- THE QUANTITY OF LOOSE CONTAINERS WHICH CAN BE SECURED TO A FULL HEIGHT PALLETIZED UNIT WILL NOT EXCEED ONE.
- LOOSE CONTAINERS MAY ALSO BE SECURED ON TOP OF A PARTIAL PALLETIZED UNIT.

KEY NUMBERS

WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO ENCIRCLE THE PALLETIZED UNIT AND ONE LOOSE CONTAINER. THREAD A STRAP UNDER THE TOP DECK BOARDS OF PALLET AND CENTER ON THE VERTICAL DUNNAGE ON BASIC PALLETIZED UNIT AS SHOWN ABOVE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. POSITION STRAP RATCHETS ON SAME SIDE OF THE PALLETIZED UNIT. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "J", "K" AND "O" ON ON PAGE 2.

PAGE 18

ALTERNATIVE PROCEDURES FOR SHIPMENT OF LOOSE ALUMINUM CONTAINERS



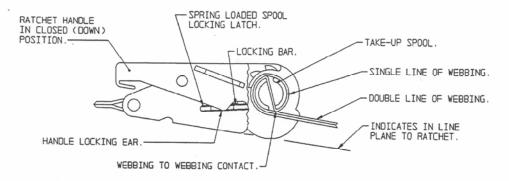
SECUREMENT OF LOOSE CONTAINERS

SPECIAL NOTES:

- THE ISOMETRIC VIEW SHOWN ABOVE DEPICTS WIREBOUND CONTAINERS.
 SEE PAGE 4 FOR DETAIL OF WIREBOUND CONTAINER AND SKIDDED UNIT.
- THE QUANTITY OF LOOSE CONTAINERS WHICH CAN BE SECURED TO A FULL HEIGHT SKIDDED UNIT WILL NOT EXCEED TWO.
- 3. LOOSE CONTAINERS MAY ALSO BE SECURED ON TOP OF A PARTIAL SKIDDED UNIT.

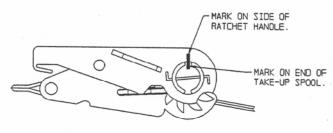
KEY NUMBERS

(1) WEB STRAP TIEDOWN ASSEMBLY (2 REOD). INSTALL EACH STRAP TO ENCIRCLE THE SKIDDED UNIT AND ONE OR TWO LOOSE CONTAINERS. THREAD A STRAP UNDER THE TOP DECK BOARDS OF SKIDDED UNIT BASE AT LOCATION SHOWN ABOVE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. POSITION STRAP RATCHETS ON SAME SIDE OF THE SKIDDED UNIT. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "J", "K" AND "O" ON PAGE 2.



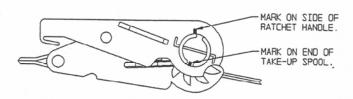
STEP 1

IN THIS VIEW PART OF THE RATCHET HOUSING IS SHOWN BROKEN AWAY TO DEPICT WEBBING-TO-WEBBING CONTACT ON THE TAKE-UP SPOOL OF THE RATCHET. WEBBING-TO-WEBBING CONTACT IS ACHIEVED WHEN THE OPERATOR HOLDS THE DOUBLE LINE OF WEBBING IN AN "IN LINE PLANE TO THE RATCHET" AND IT MAKES CONTACT WITH THE SINGLE LINE OF WEBBING.



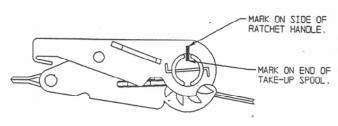
STEP 2

THIS VIEW DEPICTS THE LOCATION OF THE FIXED MARK ON THE RATCHETING HANDLE, WITH ANOTHER MATCHING MARK ON THE TAKE-UP SPOOL, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



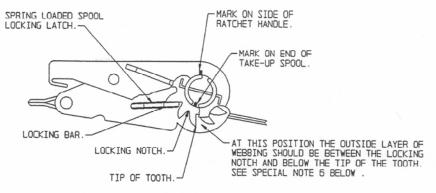
STEP 3

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE-HALF TURN, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



STEP 4

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE FULL TURN, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



STEP 5

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE AND ONE-HALF TURNS, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE. ALSO IN THIS VIEW, PART OF THE RATCHET HANDLE IS BROKEN AWAY TO SHOW THE LOCKING BAR FULLY SEATED IN THE MATCHING LOCKING NOTCH (SPROCKET GEAR TEETH).

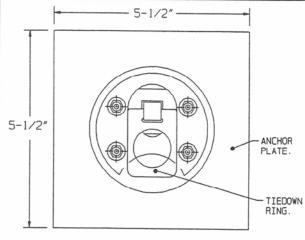
SPECIAL NOTES:

- THE PURPOSE OF THE RATCHET DETAILS ON PAGE 20 AND THE DETAIL AND NOTES ON THIS PAGE ARE TO AUGMENT THE GUIDANCE SET FORTH WITHIN GENERAL NOTE "J" ON PAGE 2.
- 2. THE REQUIREMENTS FOR 1/2 BUT NOT MORE THAN 1-1/2 WRAPS OF STRAP ON THE TAKE-UP SPOOL OF THE TENSIONING RATCHET, AS SPECIFIED WITHIN GENERAL NOTE "J" ON PAGE 2, ACTUALLY MEANS 1/2 TO 1-1/2 WRAPS OF DOUBLE WEBBING, THE 1/2 TO 1-1/2" TURNS. ALSO, THE 1/2 TO 1-1/2 WRAPS (TURNS) ARE TO BE ACCOMPLISHED ONLY AFTER ENDUGH WEBBING HAS BEEN WOUND ONTO THE SPOOL TO ACHIEVE A WEBBING-TO-WEBBING CONFIGURATION, AS SHOWN IN THE "STEP 1" DETAIL ON PAGE 20.
- 3. ONE METHOD THAT CAN BE USED TO ENSURE THAT THE 1/2 TO 1-1/2 WRAPS ARE WOUND ONTO THE TAKE-UP SPOOL, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO PLACE A FIXED MARK (PAINT OR SIMILAR MATERIAL) ON THE SIDE OF THE RATCHETING HANDLE, WITH THE HANDLE IN ITS CLOSED (DOWN) POSITION, AND ANOTHER SHORT MATCHING MARK ON THE END OF THE SPOOL, AS SHOWN IN THE "STEP 2" DETAIL ON PAGE 20. AS THE SPOOL IS ROTATED TO TENSION A TIEDOWN STRAP ASSEMBLY, THE NUMBER OF WRAPS (TURNS) CAN BE DETERMINED VISUALLY BY COMPARING THE "MARK" LOCATION ON THE SPOOL TO THE "MARK" LOCATION ON THE RATCHETING HANDLE WITH THE HANDLE IN CLOSED POSITION. SEE THE "STEP 3" AND "STEP 4" DETAILS ON PAGE 20, AND "STEP 5" ABOVE.
- 4. ANOTHER METHOD THAT CAN BE USED TO ENSURE THAT THE L/2 TO 1-1/2 WRAPS ARE ACHIEVED, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO COUNT THE AUDIBLE CLICKS MADE BY THE RATCHET ASSEMBLY AS A WEB STRAP ASSEMBLY IS BEING TENSIONED. THE RATCHET ASSEMBLY ON MOST WEB STRAP ASSEMBLIES HAS 11 TEETH ON THE GEARLIKE DEVICE ON EACH END OF THE TAKE-UP SPOOL; SOME OTHER STRAP ASSEMBLIES HAVE ONLY 9 TEETH. THEREFORE, AFTER INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, ROTATE (TURN) THE SPOOL THROUGH A MINIMUM OF 6 TO A MAXIMUM OF 16 CLICKS (1/2 TO 1-1/2 WRAPS) WHEN THE GEAR HAS 11 TEETH, AND ROTATE (TURN) THE SPOOL THROUGH A MINIMUM OF 5 TO A MAXIMUM OF 13 CLICKS (1/2 TO 1-1/2 WRAPS) IF THE GEAR HAS 9 TEETH.

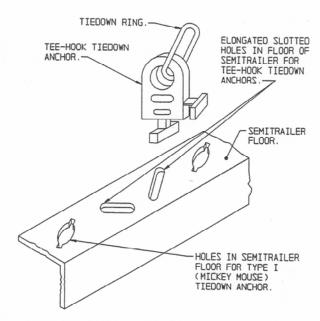
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(SPECIAL NOTES CONTINUED)

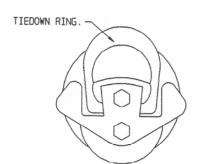
- 5. AFTER A STRAP ASSEMBLY HAS BEEN PROPERLY TENSIONED, CARE MUST BE EXERCISED TO ASSURE THAT THE TAKE-UP SPOOL LOCKING LATCH (SPRING LOADED DEVICE WITH A LOCKING BAR ON EACH SIDE OF THE RATCHET ASSEMBLY) IS FULLY SEATED ON BOTH SIDES IN MATCHING LOCKING NOTCHES, WHICH ARE SIMILAR TO SPROCKET GEAR TEETH, THAT ARE LOCATED ON EACH END OF THE TAKE-UP SPOOL. SEE "STEP 5" DETAIL ABOVE. THE LOCKING LATCH IS "FULLY SEATED" WHEN THE HANDLE WILL CLOSE AND THE LOCKING EAR, OR SIMILAR DEVICE ON THE HANDLE, PREVENTS THE ACCIDENTAL WITHDRAWAL OF THE LOCKING LATCH. SEE "STEP 1" DETAIL ON PAGE 20. IF THE FULLY SEATED CONDITION CANNOT BE ACHIEVED, THE STRAP MUST BE RELEASED AND HAND RETENSIONED AS TIGHT AS POSSIBLE TO ACHIEVE THE FULLY SEATED CONDITION.
- 6. ANOTHER VISUAL METHOD OF DETERMINING WHEN THERE IS 1/2
 TO 1-1/2 WRAPS OF WEBBING ON THE TAKE-UP SPOOL, AFTER
 INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO
 LOOK AT THE SPOOL. WHEN A TIEDOWN IS COMPLETE, THE
 STRAP WEBBING ON THE SPOOL OF THE RATCHET SHOULD BE
 ABOVE THE LOWER CURVE OF THE LOCKING NOTCH, AND SHOULD
 BE BELOW THE TIPS OF THE TEETH OF THE RATCHET AS
 IDENTIFIED IN "STEP 5" ABOVE. IT SHOULD BE NOTED THAT
 ANY PROCEDURES THAT ENSURE PROPER TENSIONING ARE
 ACCEPTABLE AND METHODS ON THE DRAWING ONLY PROVIDE SOME
 METHODS.



UNIVERSAL TIEDOWN ANCHOR (FRONT VIEW) SEE SPECIAL NOTE 1.



TEE-HOOK TIEDOWN ANCHOR (ISOMETRIC VIEW) SEE SPECIAL NOTE 2.

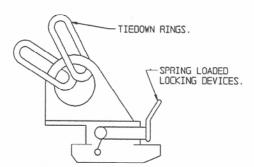


REMOVABLE TIEDOWN ANCHOR (TOP VIEW)

SEE SPECIAL NOTE 3.

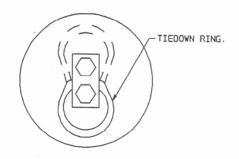
SPECIAL NOTES:

- 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 TACTICAL TRUCK (HEMTT), M977 AND/OR M985, WHICH HAS THE TIEDOWN ANCHORS INSTALLED IN THE FLOOR, THESE TIEDOWN ANCHORS ARE TO BE INSTALLED IN THE SIDEWALLS AND ENDWALLS OF CARGO TRUCKS AND CARGO TRAILERS. IF AN M127, 12-TON SEMITRAILER IS BEING USED, SEE INFORMATION IN TB 9-2300-280-30. THE M127 SEMITRAILER REOUIRES A DIFFERENT TYPE OF TIEDOWN ANCHOR.
- 2. THIS TIEDOWN ANCHOR IS RATED AT 5,000 POUNDS AND IS ONLY INSTALLED ON THE M872 SEMITRAILER. THERE ARE FIVE TIEDOWN ANCHOR LOCATIONS 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 IN THE SIDE RAILS OF THE SEMITRAILER. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-113-9285.
- 3. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS INSTALLED ON THE M871 AND M872 SEMITRAILERS. IT IS COMMONLY REFERRED TO AS THE "MICKEY MOUSE" TIEDOWN ANCHOR. THERE ARE TEN LOCATIONS IN EACH SIDE RAIL OF THE M871 SEMITRAILER AND APPROXIMATELY TWENTY-EIGHT IN EACH SIDE RAIL OF THE M872 SEMITRAILER. FOR INSTALLATION OF THIS TIEDOWN ANCHOR IT IS POSITIONED BY REACHING UNDER THE FLOOR OF THE SEMITRAILER, INSERTING IT UP THROUGH THE HOLE AND ROTATING IT INTO POSITION. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-112-1732.
- 4. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS ONLY FOR USE ON THE M871 SEMITRAILER. IT IS COMMONLY REFERRED TO AS THE "BIG FOOT" TIEDOWN ANCHOR. THERE ARE TEN LOCATIONS IN EACH SIDE RAIL OF THE SEMITRAILER FOR INSTALLATION OF THIS TIEDOWN ANCHOR. IT HAS A SPRING/LOADED LOCKING DEVICE TO HOLD IT IN PLACE, IS INSERTED FROM THE TOP INTO A 1-3/4" DIAMETER HOLE, AND IT SWIVELS. THIS TIEDOWN IS FURTHER IDENTIFIED AS NSN 2540-01-117-3043.
- 5. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS, IS NOT REMOVABLE AND IS ONLY INSTALLED ON THE M871 SEMITRAILER. THERE ARE FIVE IN EACH SIDE RAIL OF THE M871 SEMITRAILER AND THEY DO NOT SWIVEL.



REMOVABLE TIEDOWN ANCHOR (SIDE VIEW)

SEE SPECIAL NOTE 4.

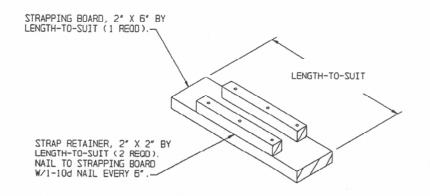


FIXED TIEDOWN ANCHOR (TOP VIEW)

SEE SPECIAL NOTE 5.

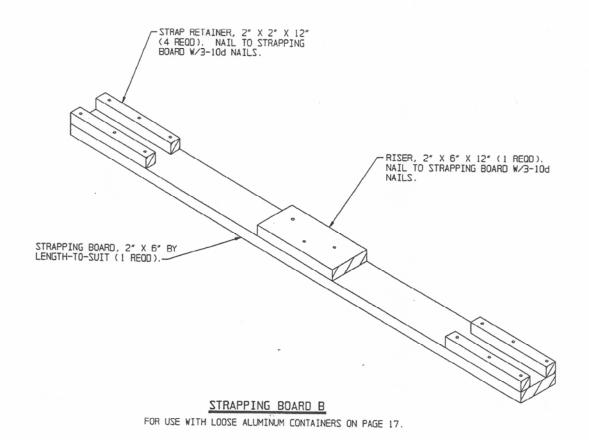
PAGE 22

TIEDOWN ANCHOR DETAILS



STRAPPING BOARD A

FOR USE WITH LOOSE ALUMINUM CONTAINERS ON PAGE 17.



DETAILS

PAGE 23

LOAD PLANNING GUIDANCE CHART

WHEN TRANSPORTING PALLETIZED/SKIDDED UNITS AND/OR LOOSE CONTAINERS ON TACTICAL VEHICLES, USE THE FOLLOWING CHART FOR LOAD PLANNING GUIDANCE. ALL 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 "G" ON PAGE 2.

		CTINEED LICEY: 5							
	TACTICAL VEHICLE	PALLETIZED LOOSE							
			SEE PAGE (S)						
MIOO	CARGO TRAILER	1/4-TON	7	15, 17					
M101	CARGO TRAILER	3/4-TON	7	15, 17					
M105	CARGO TRAILER	1-1/2-TON	7,8	15, 17					
M332	AMMO TRAILER	1-1/2-TON	7	15, 17					
M127	SEMITRAILER	12-T0N	12	16, 17					
M871	SEMITRAILER	22-1/2-TON	12	16, 17					
M872	SEMITRAILER	34-TON	12	16, 17					
M37	CARGO TRUCK	3/4-TON	7	15, 17					
M561	CARGO TRUCK	1-1/4-TON	7	15, 17					
M751	CARGO TRUCK	1-1/4-TON	7	15, 17					
M1008	CUCV	1-1/4-TON	7	15, 17					
M998	HMMWV	1-1/4-TON	6	14					
M34	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M35	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M36/M36C	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M135	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M211	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M602	CARGO TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M47	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M59	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M215	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M342	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M614	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M624	DUMP TRUCK	2-1/2-TON	7 THRU 10	15 THRU 17					
M41	CARGO TRUCK	5~T0N	7 THRU 10	15 THRU 17					
M54	CARGO TRUCK	5-T0N	7 THRU 10	15 THRU 17					
M55	CARGO TRUCK	5-T0N	7 THRU 10	15 THRU 17					
M656	CARGO TRUCK	5-T0N	7 THRU 10	15 THRU 17					
M813	CARGO TRUCK	5-TON	7 THRU 10	15 THRU 17					
M814	CARGO TRUCK	5-TON	7 THRU 10	15 THRU 17					
M939	CARGO TRUCK	5-T0N	7 THRU 10	15 THRU 17					
M51	DUMP TRUCK	5-TON	7 THRU 10	15 THRU 17					
M817	DUMP TRUCK	5-TON	7 THRU 10	15 THRU 17					
M548	CARGO CARRIER	6-TON	7 THRU 10	15 THRU 17					
M520	CARGO TRUCK	8-T0N	7 THRU 10	15 THRU 17					
M125	CARGO TRUCK	10-T0N	7 THRU 10	15 THRU 17					
M977/M985	CARGO TRUCK	10-TON	11	16, 17					

LOAD PLANNING NOTES:

- DETERMINE THE QUANTITY OF PALLETIZED, SKIDDED UNIT(S) AND/OR LOÖSE CONTAINERS TO BE LOADED IN/ON THE TACTICAL VEHICLE.
- 2. SELECT THE BEST METHOD OF SECURING THE UNIT(S) AND/OR LOOSE CONTAINERS FROM THE METHOD SHOWN ON THE REFERENCED PAGES.

 NOTE: A COMBINATION OF METHODS MAY BE USED ON/WITHIN THE SAME TACTICAL VEHICLE.