

LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR THE BLU-80/B (BIGEYE) BINARY CHEMICAL WEAPON BODY PACKED IN CNU-396/E SHIPPING AND STORAGE CONTAINER, IN/ON TACTICAL VEHICLES

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U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND
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DO NOT SCALE

GENERAL NOTES

(GENERAL NOTES CONTINUED)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1.
- B. THIS DRAWING COVERS PROCEDURES APPLICABLE TO THE TRANSPORT OF BLU-80/B (BIGEYE) BINARY CHEMICAL WEAPON BODY PACKED IN CNU-396/E STORAGE AND SHIPPING CONTAINER, IN/ON TACTICAL VEHICLES. IF OTHER TYPES OF CARGO ITEMS ARE TRANSPORTED WITH THOSE SHOWN, THE TOTAL LOAD MUST BE COMPATIBLE AND THE ADDED ITEMS MUST BE SECURED WITH WEB STRAP ASSEMBLIES, AS REQUIRED TO PREVENT DISPLACEMENT DURING TRANSPORTATION.
- C. LADING DATA:
- FOR DETAIL OF THE CNU-396/E CONTAINER SEE PAGE 4 OF THIS DRAWING.
- DIMENSIONS - - - - : 8'-7-1/2" LONG BY 35-1/4" WIDE BY 25-1/4" HIGH.
- GROSS WEIGHT - - - : 1,520 POUNDS (APPROX)
- D. 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 16 FOR GUIDANCE.
- E. WHENEVER POSSIBLE, LADING SHOULD BE CENTERED Laterally IN/ON CARRYING VEHICLE TO PROVIDE FOR EQUAL ANGLE HOLD DOWN BY THE SECURING WEB STRAP ASSEMBLIES. WHENEVER POSSIBLE LADING SHOULD BE CENTERED LONGITUDINALLY (IN/ON THE CARRYING VEHICLE) BETWEEN THE SELECTED TIEDOWN FITTINGS TO BE USED. HOWEVER, DUE TO LADING WEIGHT, SIZE, CONFIGURATION, AND/OR LOCATION AND QUANTITY OF TIEDOWN ANCHORS WITHIN THE CARRYING VEHICLE IT MAY BE NECESSARY TO LOCATE THE LADING IN/ON A VEHICLE AS SHOWN WITHIN THIS DRAWING TO PROVIDE FOR PROPER TIEDOWN AND TO ACHIEVE A MAXIMUM LOAD.
- F. 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 STRAP TO EXTENT POSSIBLE (IF TIME PERMITS) BUT ENSURE THERE ARE NO KNOTS IN STRAP. ON THE TAKE-UP SPOOL OF THE RATCHET, ENSURE STRAIGHT LAY OF STRAP WHEN TENSIONING. 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 IS IN CONTACT WITH ITSELF, THE TENSIONED STRAP MUST FORM AT LEAST ONE-HALF BUT NOT MORE THAN ONE AND ONE-HALF 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 END OF STRAP AFTER TENSIONING IS COMPLETED. (LOOSE END MAY BE FOLDED AND TAPED OR TIED TO THE TENSIONED STRAP IF TIME PERMITS). FOR ADDITIONAL GUIDANCE, SEE DETAILS ON PAGES 17 AND 18.
- G. ADJUSTABLE SCUFF SLEEVES PROVIDED ON WEB STRAP ASSEMBLIES WILL BE LOCATED TO PROVIDE A PAD WHERE STRAP PASSES 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 CONTAINERS. 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 CONTAINERS 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 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.
- J. 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.
- K. THE TIEDOWN METHODS WITHIN THIS DRAWING SHOW TWO HOOKS TO BE CONNECTED TO ONE TIEDOWN EYE. THIS IS AUTHORIZED AS SPECIFIED HEREIN AND MEETS THE INTENT OF THE REQUIREMENTS CITED IN TB 9-2300-280-30.
- L. 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 0.454KG.
- M. 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.
- N. PRIOR TO LOADING THE TACTICAL VEHICLE READ THE "LOADING TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 3. USE THE "ISOMETRIC VIEWS" ON PAGES 5 THRU 14, WHICH ARE PICTORIAL VIEWS OF TYPICAL LOADS IN/ON TACTICAL VEHICLES.
- O. 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.
- P. THE TACTICAL VEHICLES 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 "D" ON THIS PAGE.
- Q. 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.
- R. DURING LONG HAULS, WHEN POSSIBLE, STRAPS SHOULD BE CHECKED DURING VEHICLE STOPS AND TIGHTENED, IF NECESSARY.
- S. 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.
- T. FOR ADDITIONAL GUIDANCE ATTENTION IS DIRECTED TO THE "LOADING TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 3 AND THE SPECIAL NOTES' SECTION ON EACH PAGE DEPICTING LOADING AND TIEDOWN PROCEDURES.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

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

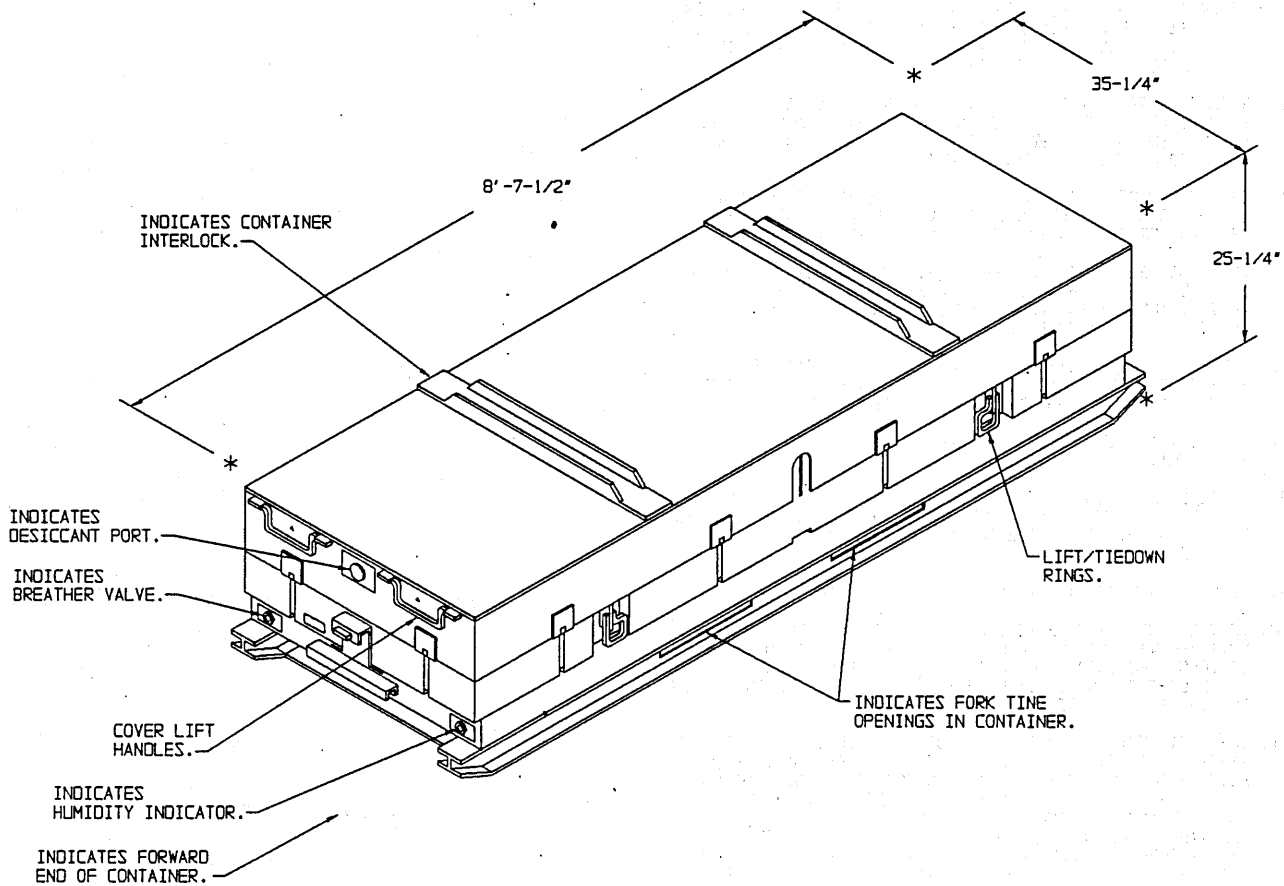
ANTI-CHAFING MATERIAL - - - - - : CANVAS, BURLAP, TAPE OR ANY OTHER SUITABLE MATERIAL.

LOADING, TIEDOWN, AND UNLOADING PROCEDURES;

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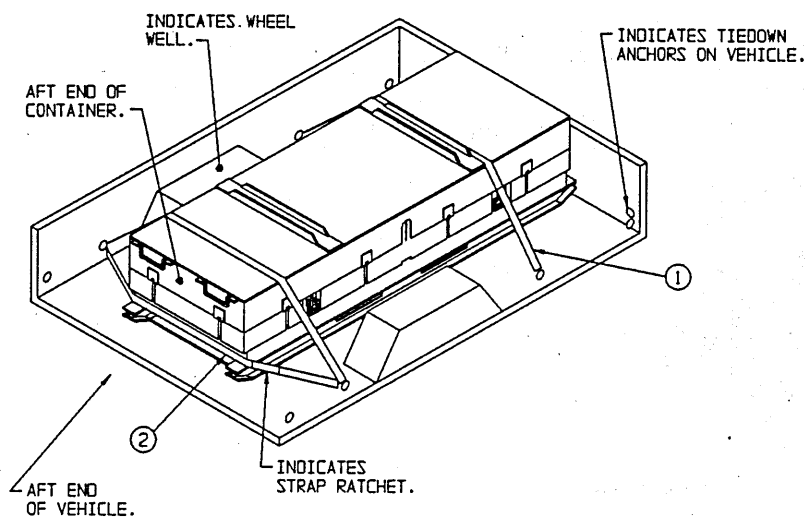
1. PRIOR TO LOADING AND/OR UNLOADING, SET BRAKES ON TACTICAL VEHICLE AND DROP TAILGATE. IF LOADING AND/OR UNLOADING TRUCK OR TRAILER, REMOVE SIDE RACKS FROM SEMITRAILERS, AND CANVAS COVERS AND BOWS FROM TRUCK OR TRAILER.
2. AFTER ALL LOADING PROCEDURES ARE COMPLETE, CHECK ALL WEB STRAP TIEDOWN ASSEMBLIES FOR MAXIMUM TIGHTNESS AND RATCHET TIGHTER, IF REQUIRED, PRIOR TO FOLDING UP AND SECURING THE LOOSE ENDS OF STRAP. SEE GENERAL NOTE "F" 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 POSSIBLE POSITION THE CONTAINERS AGAINST THE FORWARD END WALL. HOWEVER, THE CONTAINERS MAY BE POSITIONED AGAINST THE AFT END WALL, AND/OR ANYWHERE WITHIN THE LENGTH OF THE CARGO BED.
6. WHEN POSSIBLE POSITION ALL HOLD DOWN STRAP RATCHETS ON THE SAME SIDE OF THE LOAD TO AVOID SLIDING AND/OR TWISTING THE LOAD OFF CENTER WHEN STRAPS ARE BEING RATCHETED TIGHT.
7. ASSURE THAT ALL UNITIZING STRAPS ARE IN VERTICAL ALIGNMENT.
8. STEEL STRAPPING MAY BE USED IN LIEU OF WEB STRAP TIEDOWN ASSEMBLIES SHOWN AS KEY NUMBER ①, IN THE LOADS ON PAGES 7 THROUGH 15, TO UNITIZE THE STACKED CONTAINERS, IF DESIRED.
9. DO NOT STACK CONTAINERS MORE THAN FOUR HIGH.
10. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE, IF DESIRED. HOWEVER, THE UNITIZING WEB STRAP TIEDOWN ASSEMBLIES SHOWN AS KEY NUMBER ①, IN THE LOADS ON PAGES 8 THROUGH 15, WILL BE REQUIRED.
11. THE M871 SEMITRAILER CAN BE EQUIPPED WITH THREE 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 IT 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 IT 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 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. WHEN SECURING LOADS ON THE M871 SEMITRAILER, USE TYPE II AND TYPE III TIEDOWN ANCHORS ONLY. NO TYPE I TIEDOWN FITTINGS ARE REQUIRED, 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 16.
12. 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 IT UP THRU 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. 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 16.
13. PRIOR TO LOADING THE VEHICLE, DETERMINE THE QUANTITY OF CONTAINERS TO BE LOADED IN/ON THE VEHICLE. SELECT THE BEST METHOD TO SECURE THE CONTAINERS FROM THE METHODS SHOWN WITHIN THIS DRAWING. NOTE: A COMBINATION OF THE METHODS SHOWN WITHIN THIS DRAWING MAY BE USED ON/IN THE SAME TACTICAL VEHICLE.

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CNU-396/E CONTAINER DETAIL

CUBE - - - - - 53.3 CUBIC FEET (APPROX)
 GROSS WEIGHT - - - - - 1,520 LBS (APPROX)



ISOMETRIC VIEW

KEY NUMBERS

SPECIAL NOTES:

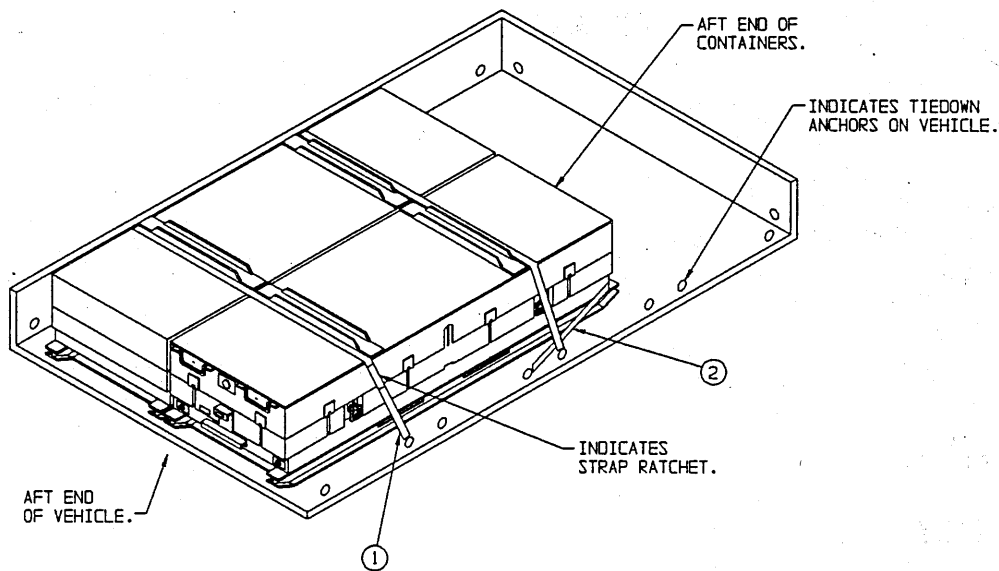
1. A TYPICAL LOAD OF ONE CONTAINER IS SHOWN POSITIONED AGAINST THE FORWARD END WALL, IN A TRAILER, CARGO, 1-1/2-TON, M105 HAVING INSIDE DIMENSIONS OF 110" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT ONE CONTAINER, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINER IS NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ② WILL BE REQUIRED AT EACH END OF THE CONTAINER.
3. A TOTAL OF THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINER AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODY, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	1 - - - - -	1,520 LBS

ONE CONTAINER



ISOMETRIC VIEW

KEY NUMBERS

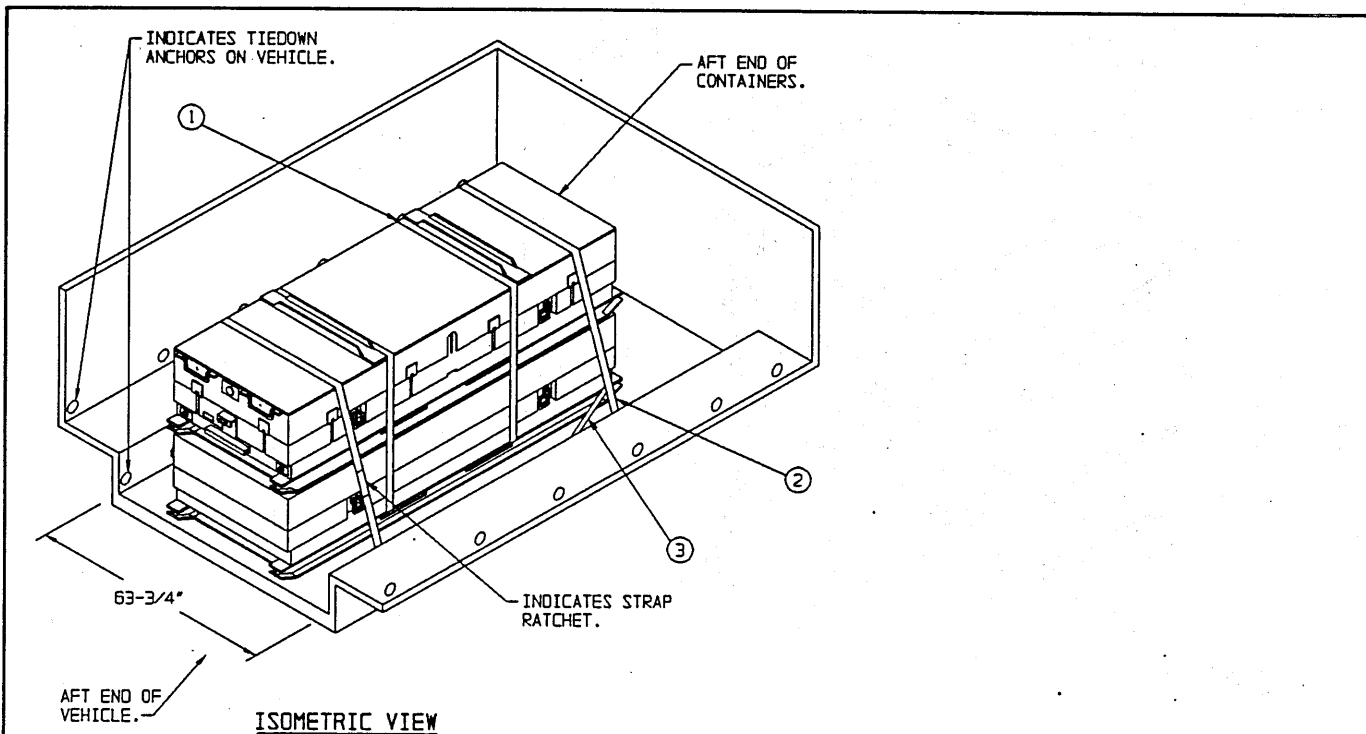
SPECIAL NOTES:

1. A TYPICAL LOAD OF TWO CONTAINERS IS SHOWN POSITIONED AGAINST THE TAILGATE, IN A TRUCK, CARGO, 2-1/2-TON, M35, 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 SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT TWO CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ② WILL BE REQUIRED AT EACH END OF THE CONTAINERS.
3. SEE THE LOAD ON PAGE 7 FOR AN ALTERNATIVE METHOD OF TRANSPORTING TWO CONTAINERS.
4. A TOTAL OF THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINER. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODIES, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	2 - - - - -	3,040 LBS



KEY NUMBERS

SPECIAL NOTES:

1. A TYPICAL LOAD OF TWO STACKED CONTAINERS IS SHOWN POSITIONED AGAINST THE TAILGATE, IN A CARRIER, CARGO, TRACKED, 6-TON, M548 (DECK DOWN), HAVING INSIDE DIMENSIONS OF 130-5/8" LONG BY 96-1/2" 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 OR ON THE FLOOR, MAY BE USED TO TRANSPORT TWO CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ③ BE REQUIRED AT EACH END OF THE CONTAINERS.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, THE TWO STRAPS MARKED ① ARE NOT REQUIRED.
4. SEE THE LOAD ON PAGE 6 FOR AN ALTERNATIVE METHOD OF TRANSPORTING TWO CONTAINERS.
5. A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

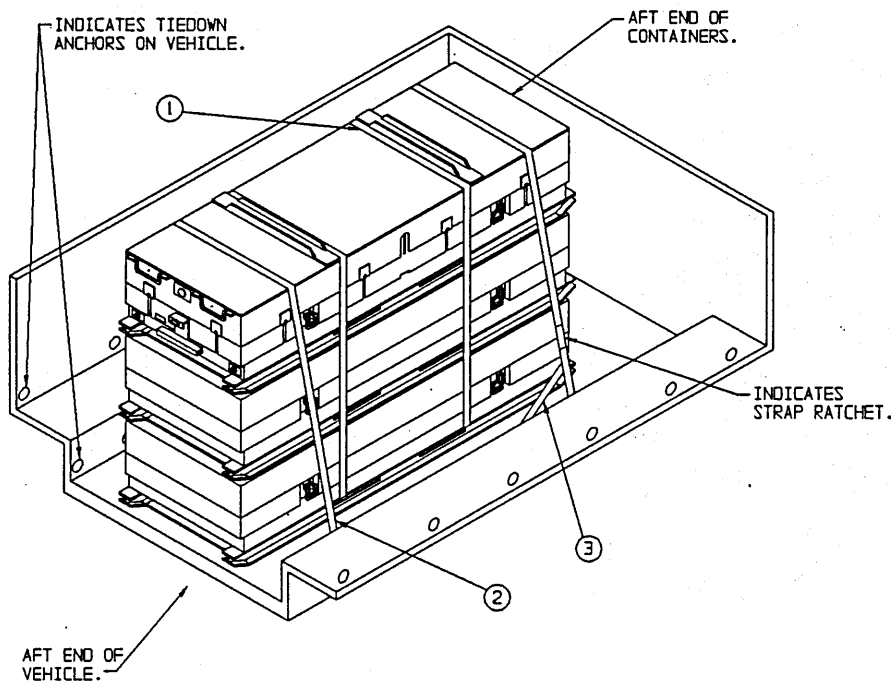
- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENIRCLE A 2-HIGH STACK OF CONTAINERS. POSITION EACH STRAP THROUGH A LIFT OPENING OF THE FIRST CONTAINER, BRING STRAP UP AND AROUND THE SECOND CONTAINER WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE SECOND CONTAINER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODY, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER - - - - -	2 - - - - -	3,040 LBS

TWO CONTAINERS

PAGE 7



ISOMETRIC VIEW

KEY NUMBERS

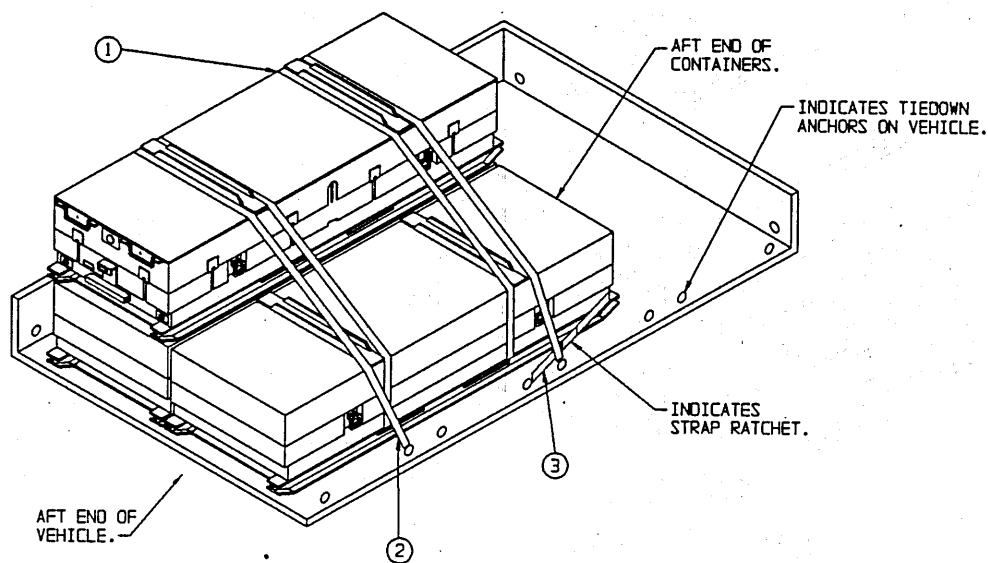
SPECIAL NOTES:

1. A TYPICAL LOAD OF THREE STACKED CONTAINERS IS SHOWN POSITIONED AGAINST THE TAILGATE, IN A CARRIER, CARGO, TRACKED, 6-TON, MS48 (DECK DOWN), HAVING INSIDE DIMENSIONS OF 130-5/8" LONG BY 96-1/2" 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 OR ON THE FLOOR, MAY BE USED TO TRANSPORT THREE CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ③ WILL BE REQUIRED AT EACH END OF THE CONTAINERS.
3. SEE THE LOAD ON PAGE 9 FOR AN ALTERNATIVE METHOD OF TRANSPORTING THREE CONTAINERS.
4. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE A 3-HIGH STACK OF CONTAINERS. POSITION EACH STRAP THROUGH A LIFT OPENINGS OF THE FIRST CONTAINER, BRING STRAP UP AND AROUND THE THIRD CONTAINER WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENING AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODY, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	3 - - - - -	4,560 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

1. A TYPICAL LOAD OF THREE CONTAINERS IS SHOWN POSITIONED AGAINST THE REAR END WALL, IN A TRUCK, CARGO, 5-TON, M925A1, 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 SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT THREE CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ③ WILL BE REQUIRED AT EACH END OF THE CONTAINERS.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

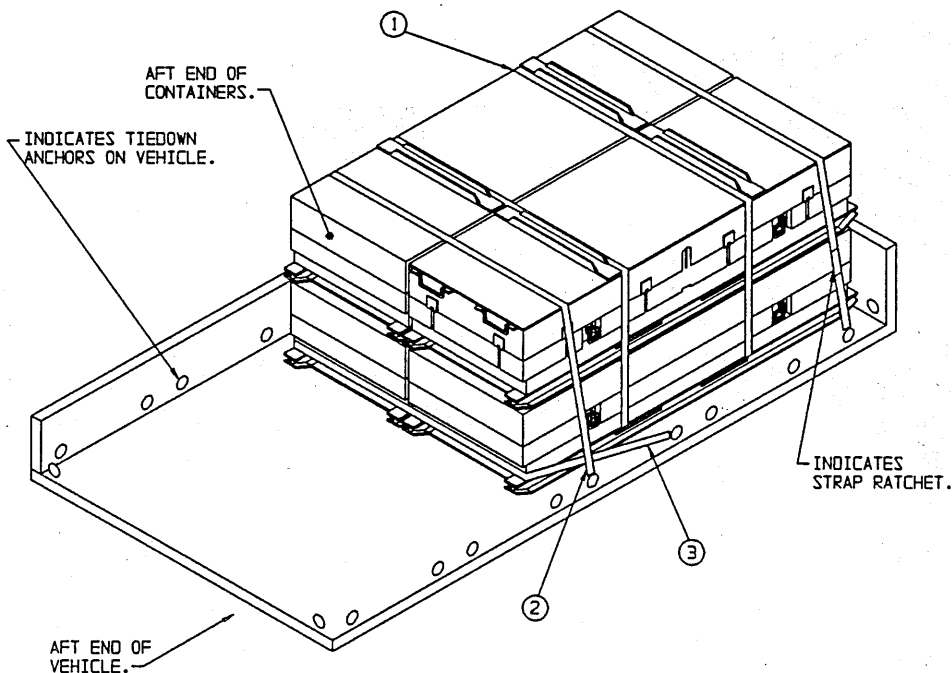
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE THREE CONTAINERS AS SHOWN. POSITION EACH STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS. BRING STRAP UP AND AROUND THE 2-HIGH STACK WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODY, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER - - - - -	3 - - - - -	4,560 LBS

THREE CONTAINERS



ISOMETRIC VIEW

KEY NUMBERS

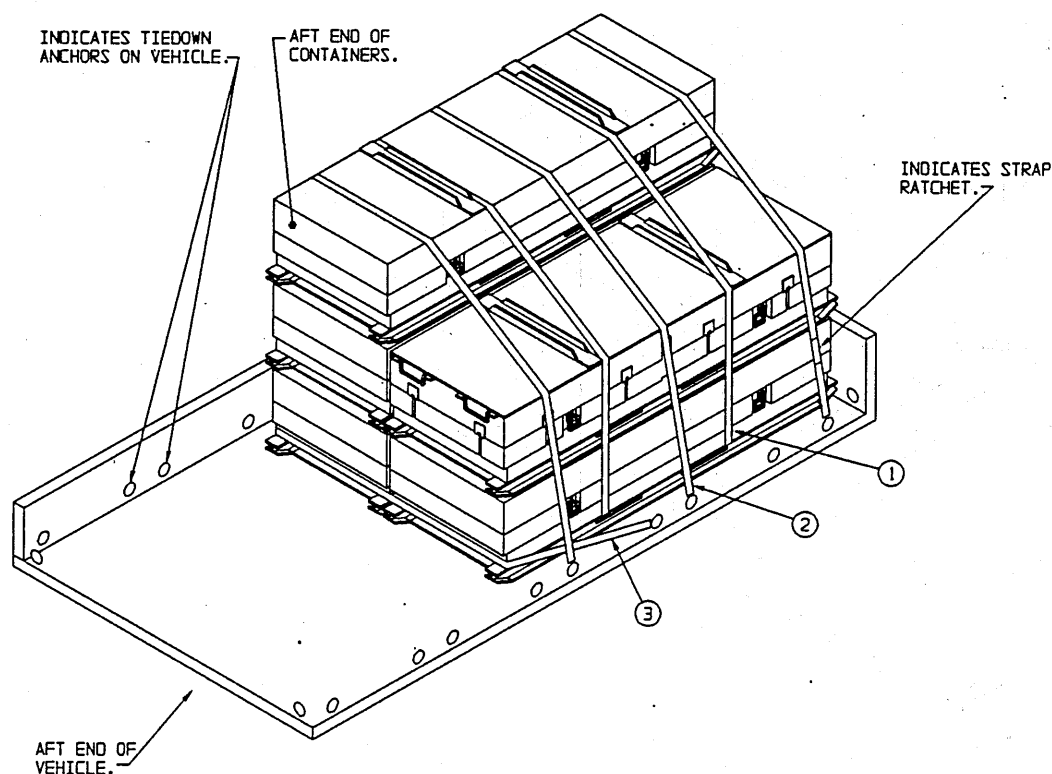
SPECIAL NOTES:

1. A TYPICAL LOAD OF FOUR CONTAINERS IS SHOWN POSITIONED AGAINST THE FORWARD END WALL, IN A TRUCK, CARGO, 5-TON, M925A1, 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 SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT FOUR CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ③ WILL BE REQUIRED AT EACH END OF THE CONTAINERS.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE ALL FOUR CONTAINERS. POSITION EACH STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS. BRING STRAP UP AND AROUND CONTAINERS WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODIES, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER - - - - -	4 - - - - -	6,080 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

1. A TYPICAL LOAD OF FIVE CONTAINERS IS SHOWN POSITIONED AGAINST THE FORWARD END WALL, IN A TRUCK, CARGO, 5-TON, M925A1, 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 SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT FIVE CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. IF THE CONTAINERS ARE NOT POSITIONED AGAINST AN END WALL, ONE STRAP MARKED ③ WILL BE REQUIRED AT EACH END OF THE CONTAINERS.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF ELEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

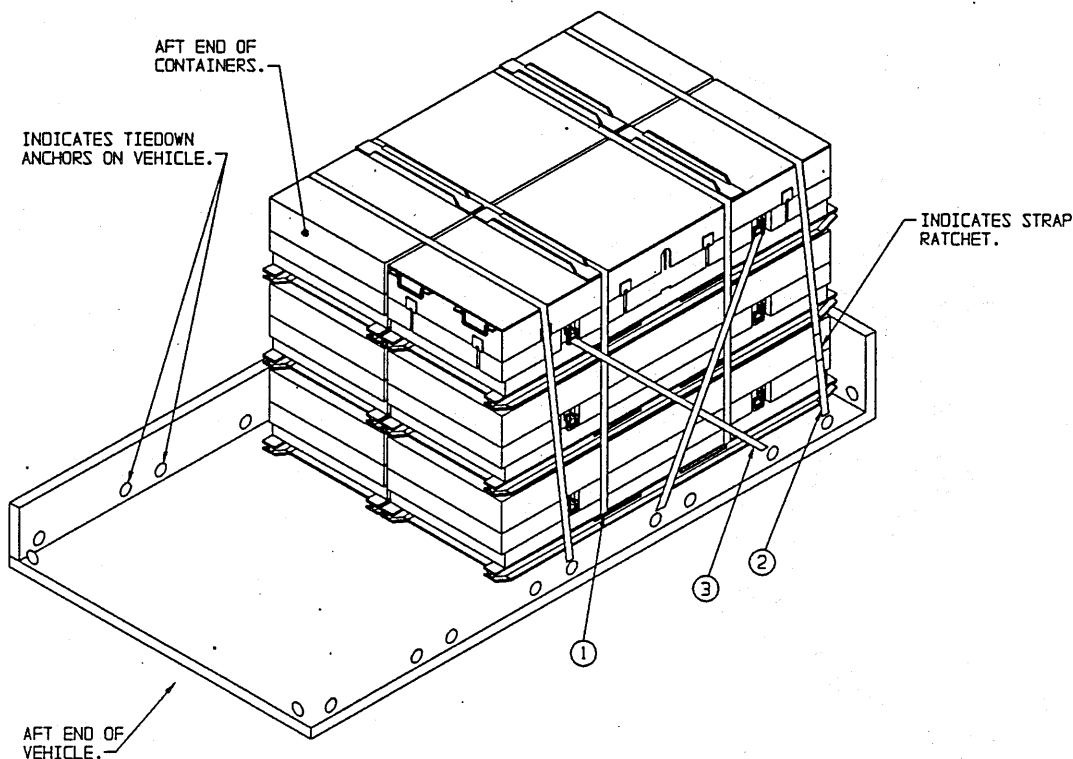
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE FIVE CONTAINERS AS SHOWN. POSITION EACH STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS. BRING STRAP UP AND AROUND THE 3-HIGH STACK WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (3 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, ABOVE THE CONTAINER SKIDS, AROUND THE CONTAINER BODIES, AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER - - - - -	5 - - - - -	7,600 LBS

FIVE CONTAINERS



ISOMETRIC VIEW

KEY NUMBERS

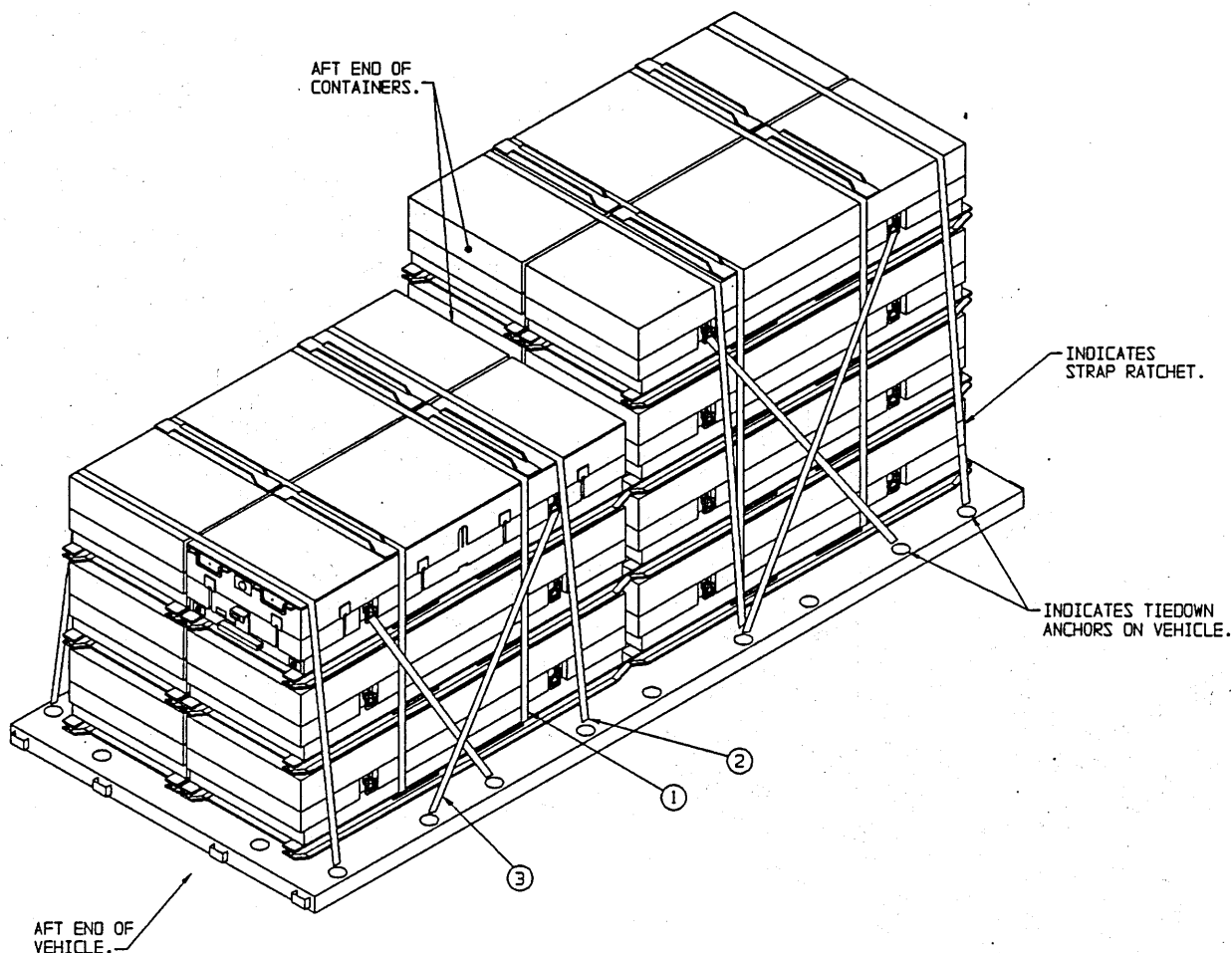
SPECIAL NOTES:

1. A TYPICAL LOAD OF SIX CONTAINERS IS SHOWN POSITIONED AGAINST THE FORWARD END WALL, IN A TRUCK, CARGO, 5-TON, M925A1, 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 SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT SIX CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. THE CONTAINERS MAY BE POSITIONED ANYWHERE WITHIN THE VEHICLE LENGTH.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF TWELVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE ALL SIX CONTAINERS. POSITION EACH STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS, BRING STRAP UP AND AROUND THE CONTAINERS WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL STRAP TO EXTEND FROM A LIFT/TIEDOWN RING ON SIDE OF TOP CONTAINERS IN A STACK TO A TIEDOWN ANCHOR ON SIDE OF VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	6 - - - - -	9,120 LBS



ISOMETRIC VIEW

KEY NUMBERS

SPECIAL NOTES:

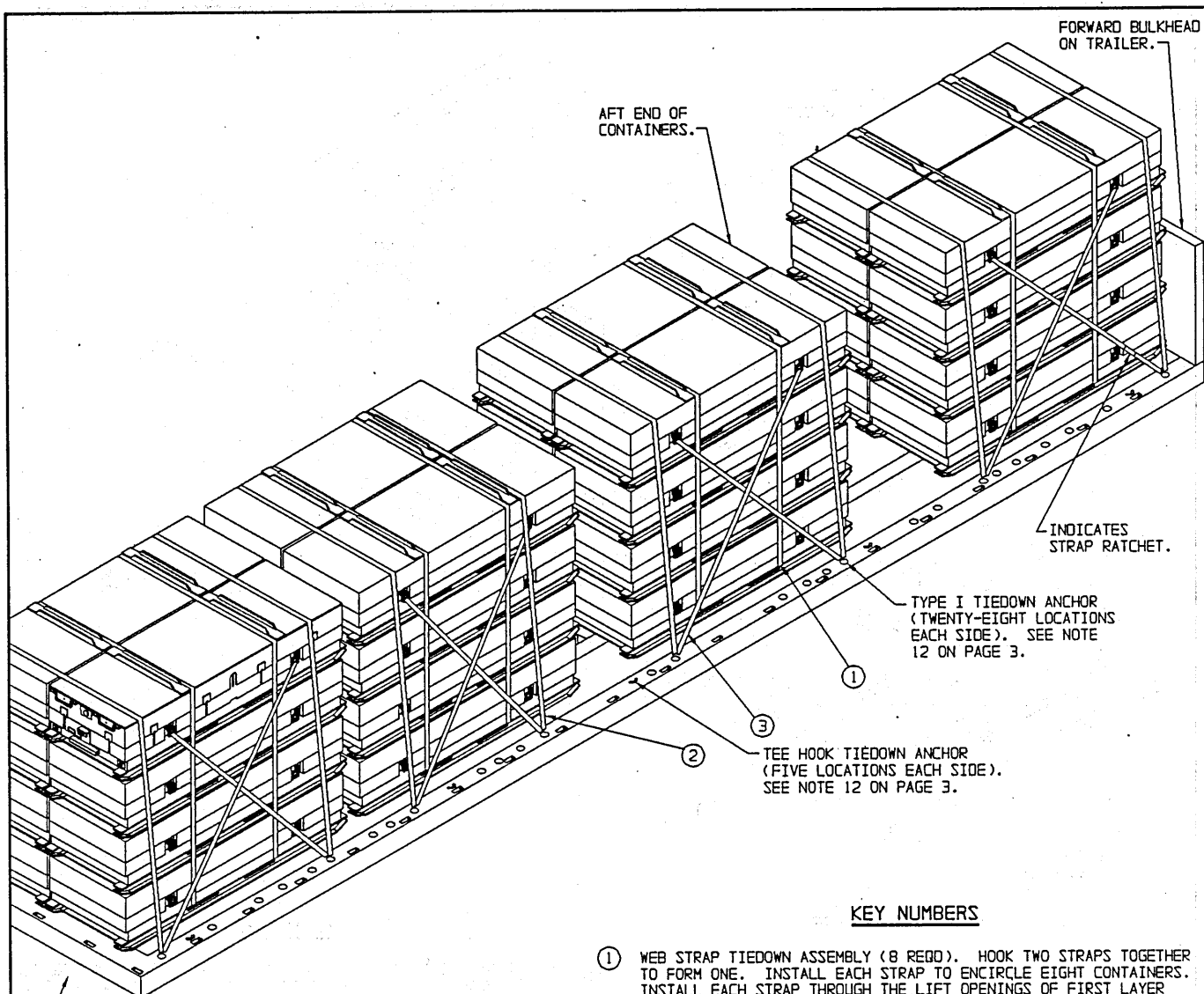
1. A TYPICAL LOAD OF FOURTEEN CONTAINERS IS SHOWN ON A HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), 10-TON, M977 AND/OR M985, HAVING INSIDE DIMENSIONS OF 216-3/8" LONG BY 90-3/4" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY, AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDEWALL OR ON THE FLOOR, MAY BE USED TO TRANSPORT FOURTEEN CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. THE CONTAINERS MAY BE POSITIONED ANYWHERE WITHIN THE VEHICLE LENGTH.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF TWENTY-FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REDD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE SIX AND/OR EIGHT CONTAINERS. INSTALL STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS. BRING STRAP UP AND AROUND THE CONTAINERS WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REDD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (8 REDD). INSTALL STRAP TO EXTEND FROM A LIFT/TIEDOWN RING ON SIDE OF TOP CONTAINERS IN A STACK TO A TIEDOWN ANCHOR ON SIDE OF VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	14 - - - - -	21,280 LBS

FOURTEEN CONTAINERS



ISOMETRIC VIEW

AFT END OF TRAILER.

KEY NUMBERS

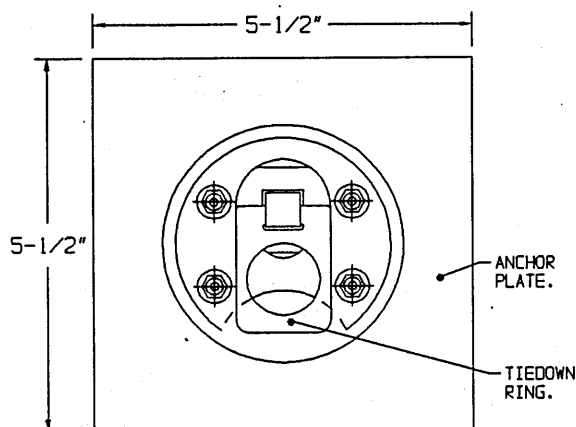
- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO ENCIRCLE EIGHT CONTAINERS. INSTALL EACH STRAP THROUGH THE LIFT OPENINGS OF FIRST LAYER CONTAINERS, BRING STRAP UP AND AROUND THE STACKS WITH THE STRAP POSITIONED AGAINST THE INTERLOCK ON TOP OF THE CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. POSITION STRAP RATCHET NEAR THE LIFT OPENINGS AND HOOK ENDS TOGETHER, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2, AND LOADING, TIEDOWN, AND UNLOADING PROCEDURES NOTE 8 ON PAGE 3.
- ② WEB STRAP TIEDOWN ASSEMBLY (8 REQD). HOOK TWO STRAPS TOGETHER TO FORM ONE. INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, UP AND OVER TOP OF THE CONTAINERS AND DOWN TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (16 REQD). INSTALL STRAP TO EXTEND FROM A LIFT/TIEDOWN RING ON SIDE OF TOP LAYER CONTAINERS IN A STACK TO A TIEDOWN ANCHOR ON SIDE OF VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAP AND THE RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

SPECIAL NOTES:

1. A MAXIMUM LOAD OF THIRTY-TWO CONTAINERS IS SHOWN ON A SEMITRAILER, 34-TON, M872 HAVING DIMENSIONS OF 489-1/2" LONG BY 96" 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 OR ON THE FLOOR, MAY BE USED TO TRANSPORT THIRTY-TWO CONTAINERS, USING THE TIEDOWN PROCEDURES SHOWN. THE CONTAINERS MAY BE POSITIONED ANYWHERE WITHIN THE VEHICLE LENGTH.
3. IF THE CONTAINERS BEING LOADED ARE STACKED TWO HIGH AND UNITIZED WITH STEEL STRAPPING, IT MAY BE LEFT IN PLACE.
4. A TOTAL OF FORTY-EIGHT WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

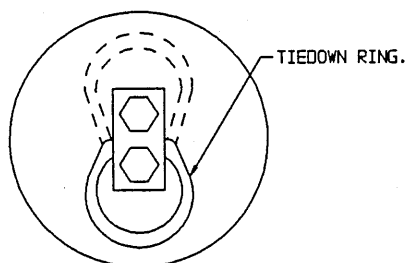
LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	32 - - - - -	48,640 LBS



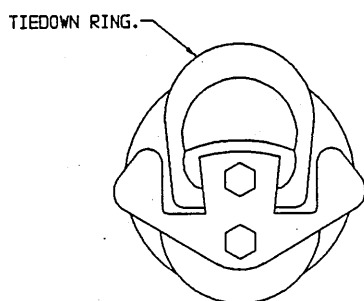
UNIVERSAL TIEDOWN ANCHOR (FRONT VIEW)

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



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 "D" ON PAGE 2.



TYPE I, REMOVABLE TIEDOWN ANCHOR (TOP VIEW)

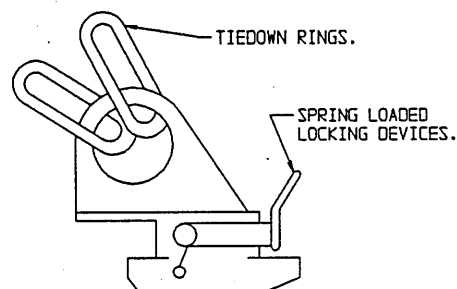
THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS INSTALLED ON THE M871 AND M872 SEMITRAILERS. IT IS COMMONLY REFERRED TO AS "MICKEY MOUSE". THERE ARE LOCATIONS FOR TEN TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER AND LOCATIONS FOR APPROXIMATELY TWENTY-EIGHT TIEDOWN ANCHORS ON EACH SIDE OF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

NOTE ● :

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 (HEMITT), M977 AND/OR M985, 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 M127 12-TON SEMITRAILER IS BEING USED, SEE INFORMATION IN TB 9-2300-280-30. THE M127 SEMITRAILER REQUIRES A DIFFERENT TYPE OF TIEDOWN ANCHOR.

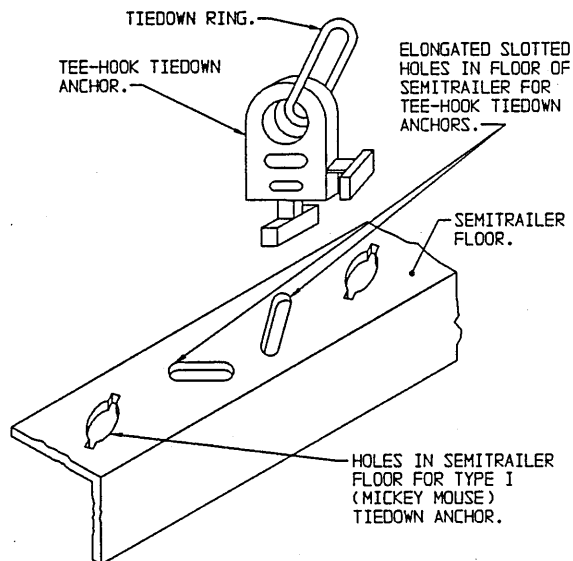
NOTE ⊕ :

THIS TIEDOWN 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 "D" ON PAGE 2 THIS TIEDOWN IS FURTHER IDENTIFIED AS NSN 2540-01-117-3043.



TYPE II, REMOVABLE TIEDOWN ANCHOR (SIDE VIEW)

(SEE "NOTE ⊕" ABOVE)

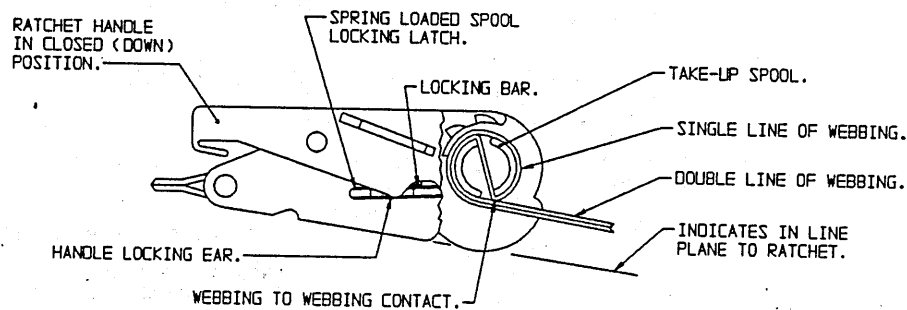


REMOVABLE TEE-HOOK TIEDOWN ANCHOR (ISOMETRIC VIEW)

(SEE "NOTE ▲" BELOW)

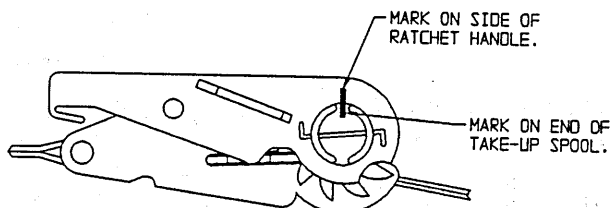
NOTE ▲ :

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 "D" ON PAGE 2. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-113-9285.



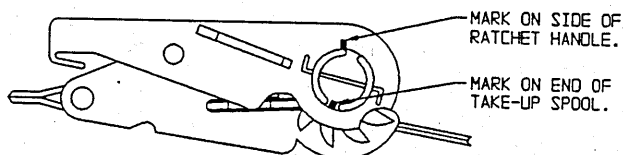
STEP 1

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.



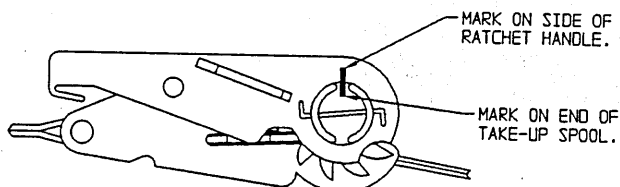
STEP 2

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.



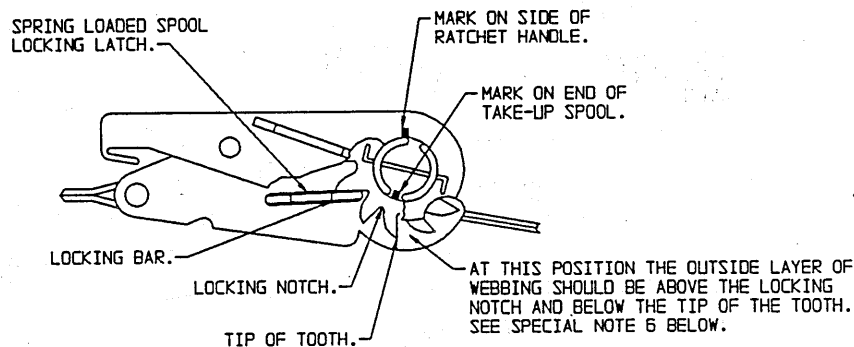
STEP 3

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:

1. THE PURPOSE OF THE RATCHET DETAILS ON PAGE 17 AND THIS PAGE, AND THE NOTES ON THIS PAGE ARE TO AUGMENT THE GUIDANCE SET FORTH WITHIN GENERAL NOTE "F" 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 "F" ON PAGE 2, ACTUALLY MEANS 1/2 TO 1-1/2 WRAPS OF DOUBLE WEBBING, THE 1/2 TO 1-1/2 WRAPS REQUIRE THAT THE SPOOL MECHANISM BE ROTATED 1/2 TO 1-1/2 TURNS. ALSO, THE 1/2 TO 1-1/2 WRAPS (TURNS) ARE TO BE ACCOMPLISHED ONLY AFTER ENOUGH WEBBING HAS BEEN WOUND ONTO THE SPOOL TO ACHIEVE A WEBBING TO WEBBING CONFIGURATION, AS SHOWN IN THE "STEP 1" DETAIL ON PAGE 17.
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 17. 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 RATCHETING HANDLE WITH THE HANDLE IN CLOSED POSITION. SEE THE "STEP 3" AND "STEP 4" DETAILS ON PAGE 17, AND "STEP 5" ABOVE.
4. ANOTHER METHOD THAT CAN BE USED TO ENSURE THAT THE 1/2 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.

(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 17. 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.