

SPECIAL PACKAGING INSTRUCTION

Form Approved
OMB No. 0704-0188

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1. PART OR DRAWING NO. (CAGE) NOMENCLATURE 12367093 (19207) AUXILIARY POWER UNIT			2. CAGE 19207	3. SPI NO. AK14658922
4. NATIONAL STOCK NO. 6115-01-465-8922			5. DATE May 5, 2011	6. REVISION B
7. QUP 1 EACH	8. ICQ NONE	9. UNIT PACK WT (LB.) 620.0	10. UNIT PACK CU (CU. FT.) 29.746	11. UNIT PACK SIZE (INCHES) 39.3 X 29.0 X 45.1
12. MILITARY PRESERVATION MIL-STD-2073-1D, METHOD 53 AND NOTE A		18. STEPS	19. REQD	20. DESCRIPTION
13. CLEANING MIL-STD-2073-1D & NOTE B		1-D		PRESERVATIVE: MIL-PRF-21260, GR: SEE NOTE
		2-F		CAPS/PLUGS: NAS 847
14. DRYING MIL-STD-2073-1D & NOTE B		3-G		PRESERVATIVE: MIL-PRF-16173, GR 4
		4-H		CUSHIONING: A-A-1051, TY I, SIZE: SEE NOTE
15. PACKING		5-J	2	CUSHIONING: A-A-59135, CL 2, GR A, SIZE: 80 X 24 X 1/4
a. LEVEL A MIL-STD-2073-1D & NOTE C		6-K		BLOCKING/BRACING: SEE NOTE
		7-L		DESICCANT: MIL-D-3464, 36 UNITS
b. LEVEL B NOT APPLICABLE		8-M		BAG: MIL-DTL-6060
		9-N	1	CONTAINER: ASTM D6251, OVERSEAS TYPE, ST A (MODIFIED), SIZE: 37 X 26-3/4 X 39
16. MARKING MIL-STD-129 AND NOTES E AND Q		10-P	10	LAG SCREWS: SIZE: 3/8 X 3

17. NOTES/DRAWING

A. QUALITY ASSURANCE PROVISIONS

1. INSPECT PRESERVATION AND UNIT PACK IN ACCORDANCE WITH MIL-STD-2073-1D.
2. INSPECT THE PACKING IN ACCORDANCE WITH MIL-STD-1186 AND THE APPLICABLE CONTAINER SPECIFICATION.

B. CLEAN AND DRY ITEM BY ANY SUITABLE PROCESS BEFORE APPLICATION OF PACKAGING MATERIALS.

C. THE UNIT CONTAINER IS THE SHIPPING CONTAINER.

D. THE APU ENGINE SHALL BE INTERNALLY PRESERVED AS FOLLOWS:

- PRIOR TO PROCESSING, ENGINE CRANKCASE SHALL BE FILLED TO OPERATING LEVEL WITH OIL CONFORMING TO GRADE 10 OR 30, AS APPLICABLE, OF MIL-PRF-21260. FUEL SYSTEM SHALL BE PURGED OF FUEL. FUEL SYSTEM/COMBUSTION CHAMBERS SHALL BE PROTECTED BY PRESERVATIVE OIL CONFORMING TO GRADE 10 OF MIL-PRF-21260. AFTER PROCESSING, ENGINE CRANKCASE SHALL BE DRAINED AND THE DRAINPLUG RE-INSTALLED. THOROUGHLY DRAIN FUEL SYSTEM INCLUDING FUEL LINES, FILTERS, PUMPS, AND FUEL-WATER SEPARATOR.
- 1 OUNCE OF PRESERVATIVE OIL CONFORMING TO MIL-PRF-21260 SHALL BE ATOMIZE-SPRAYED INTO CRANKCASE THROUGH THE MOST ACCESSIBLE OPENING. ADDITIONALLY, PRESERVATIVE OIL SHALL BE ATOMIZE-SPRAYED INTO THE INTAKE AND EXHAUST OPENINGS. MAXIMUM SPRAYING PRESSURE SHALL NOT EXCEED 25 PSI.

E. PROCESSING RECORD DD FORM 1397 SHALL BE FURNISHED, COMPLETED AND AFFIXED IN A CONSPICUOUS LOCATION ON THE ENGINE.

F. SEAL ALL OPENINGS TO THE INTERIOR OF THE ENGINE, INCLUDING ALL LINES, HOSES, TUBES, AND BREATHERS, WITH CAPS/PLUGS OF THE APPROPRIATE SIZE.

G. APPLY PRESERVATIVE TO ALL BARE METAL SURFACES.

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H. APPLY ONE PIECE OF CUSHIONING, SIZE: 50 X 24, TO THE SKID BASE. APPLY 1 PIECE OF CUSHIONING, SIZE: 50 X 24, OVER THE BARRIER, STEP 8-M. WHEN APPLYING CUSHIONING, USE THE MOUNTING HOLES/BOLTS AS A TEMPLATE TO MAKE HOLES THROUGH THE MATERIAL. BLOCKING ITEMS A AND B ARE PLACED ON TOP OF THIS CUSHIONING (SEE PAGE 6).

J. DRAPE 2 PIECES OF CUSHIONING, SIZE: 80 X 24, OVER THE TOP OF THE MOUNTED APU ASSEMBLY. ENSURE THAT ALL CORNERS AND SHARP PROTRUSIONS ARE ADEQUATELY CUSHIONED.

K. SEE PAGES 3 THROUGH 6. THE APU ASSEMBLY SHALL BE SECURELY FASTENED TO THE SKID BASE WITH HARDWARE AS SHOWN. METAL BANDING OR SIMILAR RETAINERS MAY BE USED BENEATH THE SKID TO HOLD THE CARRIAGE BOLTS IN POSITION. ITEMS C AND D SHALL BE NAILED TOGETHER USING NAILS, ASTM F1667. LUMBER BLOCKING SHALL COMPLY WITH ASTM D6199, GROUP I OR II AND PLYWOOD BLOCKING SHALL COMPLY WITH A-A-55057, TYPE A.

L. DESICCANT BAGS SHALL BE PLACED WITHIN ENVELOPE, STEP 8-M, BUT OUTSIDE OF CUSHIONING, STEP 5-J.

M. SEE PAGES 3 AND 6.

N. CONTAINER SHELL IS CONSTRUCTED OF ALL 1-INCH THICK NOMINAL CLEATS AND 3/8-INCH THICK PLYWOOD. CONTAINER BASE IS MODIFIED TO BE CONSTRUCTED OF 2-INCH THICK NOMINAL LUMBER WITH BEVELED SKIDS PLACED AS SHOWN ON PAGE 5.

P. CONTAINER SHELL SHALL BE SECURED TO SIDES AND ENDS OF BASE WITH LAG SCREWS PLACED AS SHOWN ON PAGE 5. LAG SCREWS SHALL BE IN ACCORDANCE WITH ASME/ANSI B18.2.1 OR B18.18.1.

Q. SPECIAL MARKING SHALL BE APPLIED AS FOLLOWS:

1. ENGINE ASSEMBLY SERIAL NUMBER SHALL BE STENCILED ON THE CONTAINER IN ACCORDANCE WITH MIL-STD-129.
2. IN ADDITION TO MIL-STD-129 MARKINGS, THE UNIT CONTAINER SHALL BE MARKED ON THE TOP AND SIDES WITH MINIMUM 1/2 INCH HIGH BLACK LETTERS "**REUSABLE CONTAINER AND CUSHIONING, DO NOT DESTROY**". IN ADDITION, THE TOP AND ENDS SHALL BE MARKED "**REMOVE LAG SCREWS TO OPEN CONTAINER**" USING 1/2 INCH HIGH BLACK LETTERS. CONTAINER SIDES AND ENDS SHALL ALSO BE MARKED NEAR THE TOP WITH MINIMUM 1/2 INCH HIGH BLACK LETTERS "**CAUTION: LIFT BY BASE ONLY**".
3. SECURE WARNING TAG (S) IN A CONSPICUOUS LOCATION ON THE ENGINE TO STATE, "**ENGINE OIL SYSTEM PRESERVED. ENGINE FUEL SYSTEM AND CYLINDERS PRESERVED. BEFORE CRANKING, REMOVE ALL CAP/PLUGS AND TAPE AND ADD PROPER OPERATIONAL LUBRICANT TO CRANKCASE.**"

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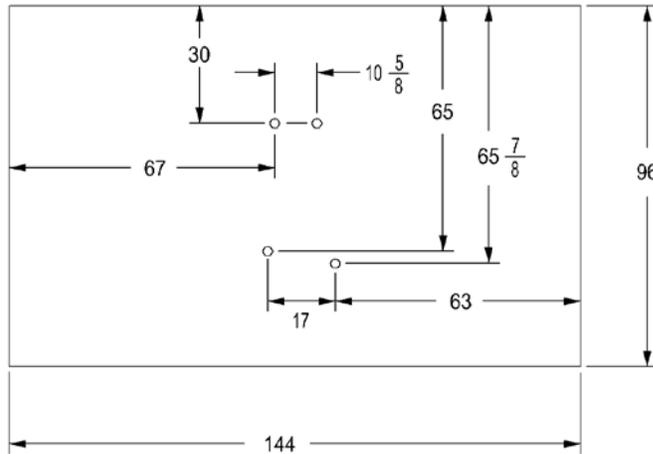
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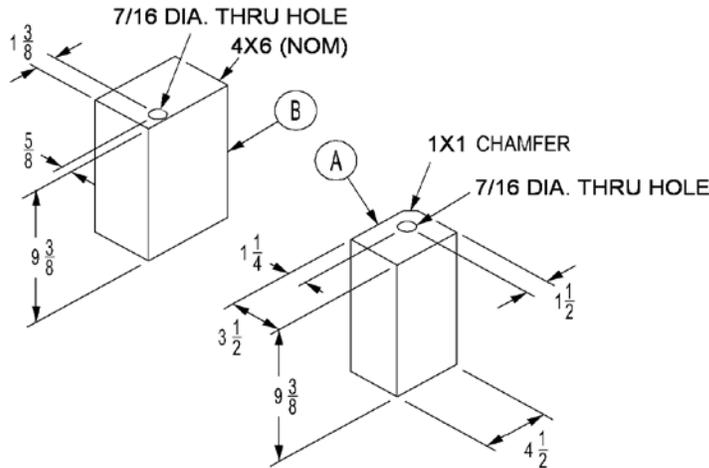
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BARRIER (FLAT LAYOUT)



BLOCKING



ITEM QTY SIZE

- (A) 1 3 1/2x4 1/2 (ACT) x 9 3/8
- (B) 1 4x6 (NOM) x 9 3/8

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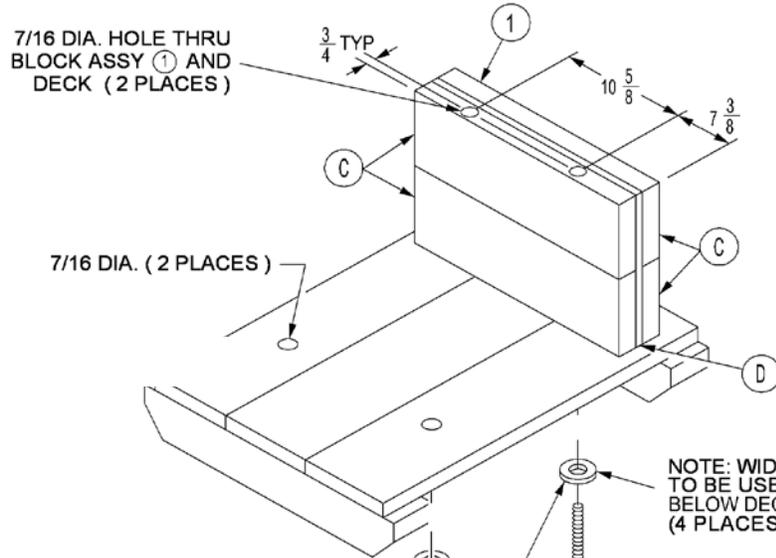
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BLOCK ASSY. ①

ITEM	QTY.	SIZE
①	4	2x8(NOM)x24
②	1	1/2 PLYWOOD 24x14 1/2

HARDWARE

③	2	3/8x18 CARRIAGE BOLT
④	2	3/8x13 CARRIAGE BOLT
⑤	4	3/8 FLAT WASHER
⑥	4	3/8 LOCK WASHER
⑦	4	3/8 NUT
⑧	4	WIDE WASHER (MIN HOLE ID 1/2)

NOTE: WIDE WASHER TO BE USED BELOW DECK (4 PLACES)

SECURE METAL STRAPPING (APPROX. 1 1/4x5 LONG) OVER BOLT HEAD TO KEEP IN PLACE. (4 PLACES)
* OPTIONAL *

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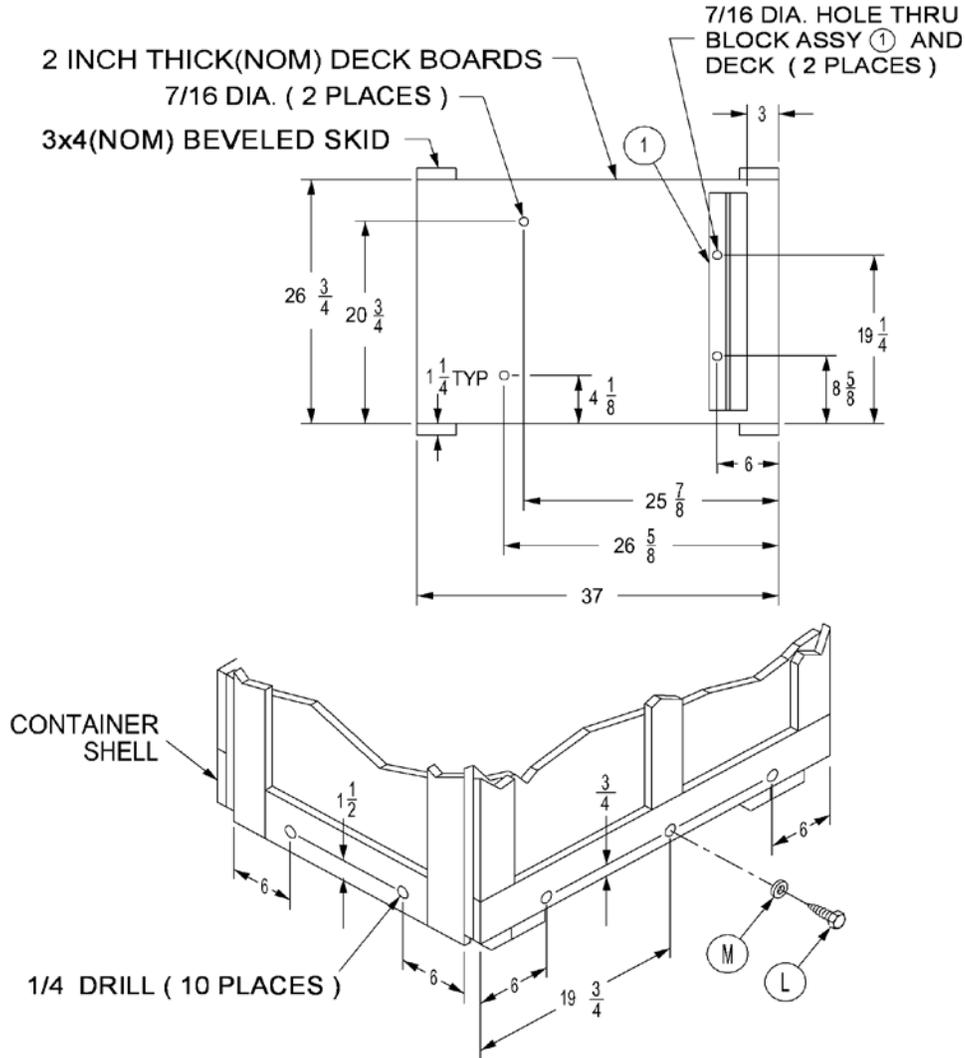
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TOP VIEW OF BASE



ITEM	QTY.	SIZE
Ⓛ	10	3/8X3 LAG SCREW
Ⓜ	10	3/8 FLAT WASHER

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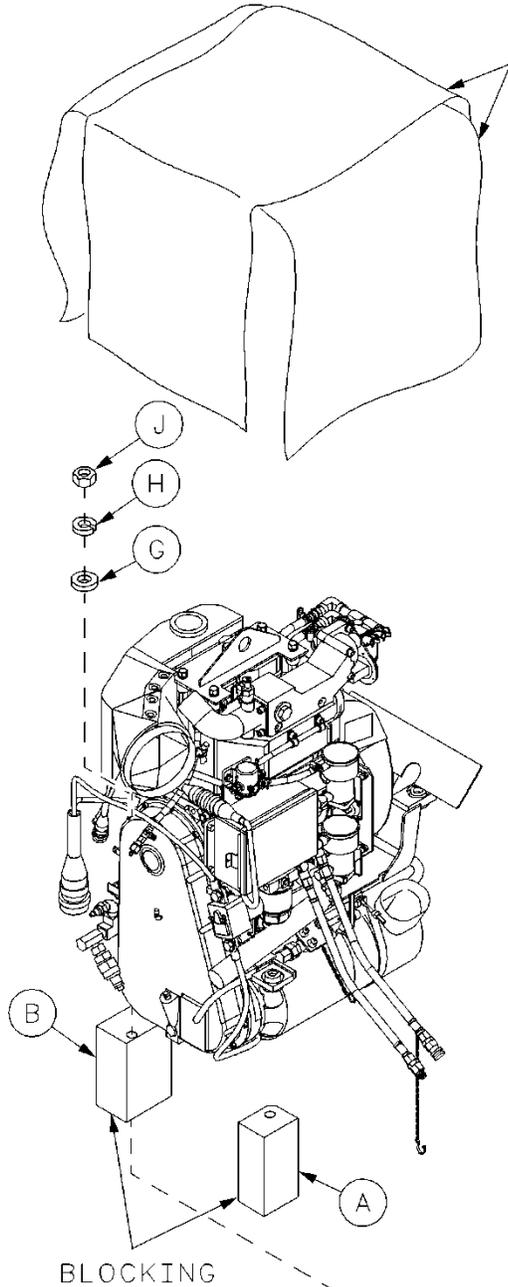
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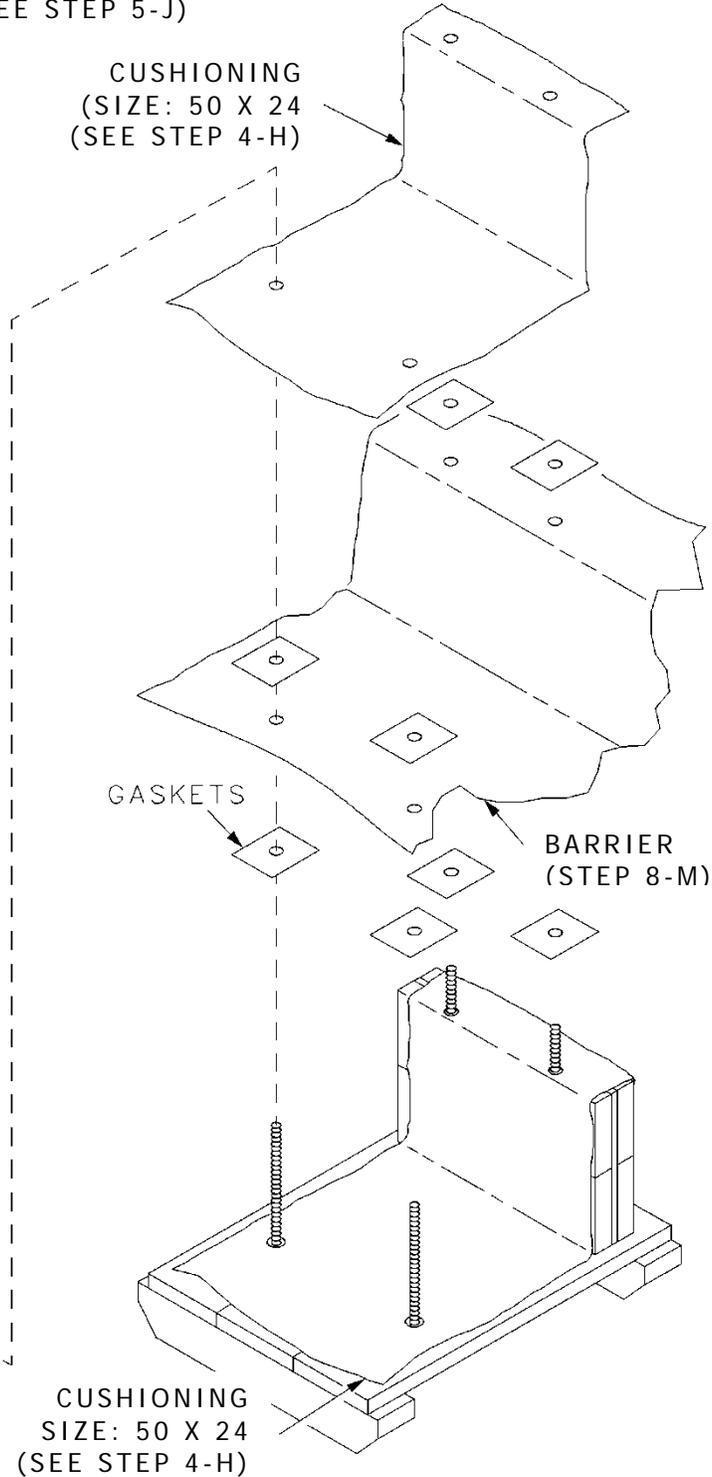
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CUSHIONING
(2) PCS 80 X 24
(SEE STEP 5-J)

CUSHIONING
(SIZE: 50 X 24
(SEE STEP 4-H)



GASKETS

BARRIER
(STEP 8-M)

CUSHIONING
SIZE: 50 X 24
(SEE STEP 4-H)