

**SPECIAL PACKAGING INSTRUCTION**Form Approved  
OMB No. 0704-0188

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1. PART OR DRAWING NO. (CAGE) NOMENCLATURE EP-0011486 (1NWX2) ENGINE ASSEMBLY, DIESEL			2. CAGE 19207	3. SPI NO. AK16223891
4. NATIONAL STOCK NO. 2815-01-622-3891			5. DATE 5/20/2013	6. REVISION -
7. QUP 1 EACH	8. ICQ NONE	9. UNIT PACK WT (LB.) 1338.0	10. UNIT PACK CU (CU. FT.) 67.365	11. UNIT PACK SIZE (INCHES) 53.3 X 43.3 X 49.3
12. MILITARY PRESERVATION MIL-STD-2073-1D, METHOD 53		18. STEPS	19. REQD	20. DESCRIPTION
13. CLEANING MIL-STD-2073-1D		1	A/R	ITEM LIST: SEE NOTE B
		2	A/R	ITEM PREPARATION: SEE NOTES C AND E
		3	A/R	CONSOLIDATION: SEE NOTES D, F AND Q
14. DRYING MIL-STD-2073-1D		4 - G	A/R	SPECIAL EQUIPMENT FOR ENGINE PRESERVATION
		5 - H	A/R	ENGINE PRESERVATION
15. PACKING		6 - I	A/R	CAPS/PLUGS: NAS-847
		7 - J	4	FABRICATED BRACKETS
a. LEVEL A MIL-STD-2073-1D & NOTE S		8 - K	A/R	HARDWARE
		9 - L	4	BLOCKING/BRACING: ASTM-D6199, CL 3
b. LEVEL B NOT APPLICABLE		10 - M	1	WRAP: MIL-PRF-121, TY II, SIZE: 168 X 60
		11 - N	1	CUSHIONING: A-A-59135, CL 1, GR A, SIZE: 168 X 60 X 1/4" THICKNESS
16. MARKING MIL-STD-129 & NOTE T		12 - O	96	DESICCANT: MIL-D-3464, TY II
		13 - P	1	BAG: MIL-DTL-6060E, SIZE: 165 X 90 (FLAT LAYOUT)
		14 - R	1	CONTAINER: ASTM-D7478, TY II, CL 2, ST A, SIZE: 46 X 41 X 38

## 17. NOTES/DRAWING

- A. INSPECT THE PRESERVATION AND UNIT PACK IN ACCORDANCE WITH MIL-STD-2073-1. INSPECT THE PACKING IN ACCORDANCE WITH MIL-STD-1186 AND THE APPLICABLE CONTAINER SPECIFICATION.
- B. THE FOLLOWING ITEMS ARE INCLUDES WITH PART NUMBER EP- 001486 ENGINE ASSEMBLY ,DIESEL.

SEGREGATED PACK NUMBER (SPN)	PART NUMBER	DESCRIPTION	QUANTITY
1	2861A009	RESISTOR	2
2	0566004	OLIVE	2
3	0571346	NUT	2
4	0650204	PLUG	2
5	2411D013	WASHER	2
6	2415H003	O-RING	1
7	2848A126	SWITCH	1
8	2447375	ELBOW	1
9	3342A701	WATER OUTLET	1
10	N/A	HEX BOLT	3
11	N/A	FLAT WASHER	3

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12	N/A	LOCK WASHER	3
13	2485C522	FAN	1
14	2656F823	FILTER	1

C. PREPARE SEGREGATED PACK NUMBERS (SPN) 1 – 12 AS FOLLOWS:

**SPN 1 P/N 2861A009 RESISTOR QTY: 2**

1. CUSHIONING: A-A-59135, CL 1, GR A, SIZE 6 X 6 X 1/4" THICKNESS, WRAP ITEM IN FOAM, SECURE WITH TAPE.
2. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 4 X 6. PLACE COUPLING IN BAG
3. CLOSE BAG BY HEAT SEAL OR TAPE.
4. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 1".
5. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 2 P/N 0566004 OLIVE QTY: 2**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5. PLACE OLIVE IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 2".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 3 P/N 0571346 NUT QTY: 2**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5 .PLACE NUT IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 3".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 4 P/N 0650204 PLUG QTY: 2**

1. BAG: MIL-DTL-117, TY II, CL C, ST 1, SIZE: 3 X 5, PLACE PLUG IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 4".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 5 P/N 2411D013 WASHER QTY: 2**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5. PLACE WASHER IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 5".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

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**SPN 6 P/N 2415H003 O-RING QTY: 1**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5 .PLACE O-RING IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 6".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 7 P/N 2848A126 SWITCH QTY: 1**

1. BAG: MIL-DTL-117, TY II, CL C, ST 1, SIZE: 3 X 5, PLACE SWITCH IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 7".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 8 P/N 2447375 ELBOW QTY: 1**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5. PLACE ELBOW IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 8".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 9 P/N 3342A701 WATER OUTLET QTY: 1**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5 .PLACE WATER OUTLET IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 9".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 10 P/N N/A HEX BOLT QTY: 3**

1. BAG: MIL-DTL-117, TY II, CL C, ST 1, SIZE: 3 X 5, PLACE HEX BOLT IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 10".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 11 P/N N/A FLAT WASHER QTY: 3**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5. PLACE FLAT WASHER IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 11".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

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**SPN 12 P/N N/A LOCK WASHER QTY: 3**

1. BAG: MIL-DTL-117, TY III, CL B, ST 2, SIZE: 3 X 5 .PLACE LOCK WASHER IN BAG.
2. CLOSE BAG BY HEAT SEAL OR TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 12".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**D. CONSOLIDATION: CONSOLIDATE ITEMS FROM NOTES C SEGREGATED PACK NUMBERS 1 – 12 IN ACCORDANCE WITH THE FOLLOWING.**

1. CONTAINER: ASTM-D5118, TY CF, ST RSC, CL WR, GR 275, VR SW, SIZE: 4 X 3 X 3, CLOSE CONTAINER IN ACCORDANCE WITH ASTM-D1974, METHOD 2B3.
2. IDENTIFICATION: IDENTIFY CONTAINER WITH "THIS CARTON CONTAINS SEGREGATED PACK NUMBERS 1 – 12".
3. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**E. PREPARE SEGREGATED PACK NUMBERS (SPN) 13 – 14 AS FOLLOWS:**

**SPN 13 P/N 2485C22 FAN QTY: 1**

1. WRAP: MIL-PRF-121, TY II, SIZE: 46 X 24
2. WRAP ITEM ENTIRELY WITH PAPER, SECURE WITH TAPE.
3. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 13".
4. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**SPN 14 P/N 2656F823 FILTER QTY: 1**

1. CUSHIONING: ASTM-D4727, TY CF, CL WR. GR V11C, VR DW SIZE 35 X 35
2. PLACE ONE CUSHION ON TOP AND ONE ON BOTTOM OF FILTER, SECURE WITH TAPE.
3. WRAP: MIL-PRF-121, TY II, SIZE: 80 X 46
4. WRAP ITEM ENTIRELY WITH PAPER, SECURE WITH TAPE.
5. IDENTIFICATION: IDENTIFY THE ITEM WITH "SEGREGATED PACK NUMBER 14".
6. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10.

**F. CONSOLIDATION: CONSOLIDATE ITEMS FROM NOTES D AND E SEGREGATED PACK NUMBERS 1 – 14 IN ACCORDANCE WITH THE FOLLOWING.**

1. CONTAINER: ASTM-D5118, TY CF, ST RSC, CL WR, GR W5c, VR SW, SIZE: 35 X 35 X 7-1/2, CLOSE CONTAINER IN ACCORDANCE WITH ASTM-D1974, METHOD 2B3.
2. IDENTIFICATION: IDENTIFY CONTAINER WITH "THIS CARTON CONTAINS SEGREGATED PACK NUMBERS 1 – 14".
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G. SPECIAL EQUIPMENT REQUIRED FOR ENGINE PRESERVATION (SEE PAGE 4):

1. ONE (1) PRESERVATIVE SUPPLY HOSE, APPROXIMATELY 24" IN LENGTH, OF WHICH ONE END SHALL BE EQUIPPED WITH A FITTING THAT WILL MATE WITH THE FUEL INLET FITTING LOCATED ON THE FUEL PUMP.
2. ONE (1) PRESERVATIVE RETURN HOSE, 3/8" I.D. AND APPROXIMATELY 24" IN LENGTH, OF WHICH ONE END SHALL BE EQUIPPED WITH A FITTING THAT WILL FIT THE FUEL RETURN LINE OUTLET.
3. ONE (1) 24 VOLT D.C. POWER SUPPLY TO POWER THE STARTER MOTOR WITH SWITCH TO ENGAGE/DISENGAGE THE STARTER SOLENOID.
4. ONE STARTER MOTOR (PERKINS P/N266-30202)
5. ONE (1) SLAVE FUEL FILTER (PERKINS P/N 26560201).
6. ONE (1) SLAVE OIL FILTERS (PERKINS P/N 26544-7).
7. ONE (1) AIR COMPRESSOR (MAX 15 PSI) WITH A SPRAYER ATTACHMENT ABLE TO PROVIDE SPRAY AND FOG PATTERNS.
8. ONE (1) 5 GALLON PAIL OR EQUIVALENT FOR PRESERVATIVE DRAINAGE.

H. THE FOLLOWING PROCEDURE DESCRIBES THE APPROVED METHOD FOR PRESERVATION OF THIS ENGINE:

- **ANY DEVIATIONS FROM THIS PROCEDURE SHALL BE PRE-APPROVED BY TACOM AND THE ENGINE MANUFACTURER.**

1. INSTALL SLAVE STARTER MOTOR (P/N 266-30202) TO FLYWHEEL COVER USING SUPPLIED HARDWARE.
2. REPLACE FUEL FILTER (P/N 26560201) AND OIL FILTERS (P/N 26544-7) WITH SLAVE FILTERS. SET ORIGINAL FILTERS ASIDE TO BE RE-INSTALLED AFTER PRESERVATION PROCESS IS COMPLETE (SEE PAGE 5).
3. FILL PRESERVATIVE PUMP WITH ONE (1) GALLON OF PRESERVATIVE CONFORMING TO MIL-PRF-21260E, TYPE PE-10. ATTACH PRESERVATIVE SUPPLY HOSE TO PRESERVATIVE PUMP OUTLET.
4. REMOVE CAP FROM FUEL PUMP INLET HOUSING, INSTALL PRESERVATIVE SUPPLY HOSE FROM PRESERVATIVE PUMP TO FUEL INLET (SEE PAGE 6).
5. REMOVE CAP FROM FUEL RETURN LINE, ATTACH PRESERVATIVE RETURN HOSE, POSITION HOSE OVER PRESERVATIVE DRAINAGE CONTAINER (SEE PAGE 6).
6. PUMP ONE (1) GALLON OF PRESERVATIVE MIL-PRF-21260E, TYPE PE-10, THROUGH FUEL SYSTEM ALLOWING EXCESS TO DRAIN INTO CONTAINER.

- **DO NOT REUSE PRESERVATIVE.**

7. REMOVE SUPPLY LINES AND RE-CAP BOTH THE FUEL PUMP INLET AND THE FUEL RETURN LINES.
8. FILL ENGINE CRANK CASE TO OPERATIONAL LEVELS USING A VCI OIL MIXTURE THAT CONSISTS OF 50% VCI OIL CONFORMING TO MIL-P-46002A AND 50% MANUFACTURER'S RECOMMENDED ENGINE OIL (SEE PAGE 5).

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- 9. CONNECT STARTER TO 24 VOLT POWER SUPPLY (SEE PAGE 12).
  - 10. REMOVE FLYWHEEL COVER AND FOG APPROXIMATELY 2ml OF A VCI OIL MIXTURE, CONSISTING OF 50% VCI OIL CONFORMING TO MIL-P-46002A AND 50% MANUFACTURER'S RECOMMENDED ENGINE OIL, ON THE FLYWHEEL AND RING GEAR TEETH (SEE PAGE 11).
  - 11. REMOVE CAP FROM TURBO CHARGER EXHAUST PORT, FOG WITH 1ml OF A VCI OIL MIXTURE, CONSISTING OF 50% VCI OIL CONFORMING TO MIL-P-46002A AND 50% MANUFACTURER'S RECOMMENDED ENGINE OIL. (SEE PAGE 11).
  - 12. REMOVE CAP FROM TURBO CHARGER INTAKE PORT, SPRAY OR FOG APPROXIMATELY 12-15 ml OF A VCI OIL MIXTURE, CONSISTING OF 50% VCI OIL CONFORMING TO MIL-P-46002A AND 50% MANUFACTURER'S RECOMMENDED ENGINE OIL (SEE PAGE 11).
  - 13. CYCLE THE ENGINE USING THE STARTER UNTIL 36 - 45 ml OF VCI OIL MIXTURE HAS BEEN FOGGED OR SPRAYED INTO THE TURBO CHARGER INTAKE PORT, 12 – 15 ml AT A TIME.
    - **DO NOT CYCLE FOR MORE THAN 5 SECONDS ALLOWING THE STARTER TO REST 30 SECONDS BETWEEN CYCLES.**
  - 14. REMOVE POWER SUPPLY.
  - 15. REPLACE SLAVE FUEL AND OIL FILTERS WITH THE ORIGINAL FILTERS.
  - 16. REMOVE SLAVE STARTER MOTOR.
  - 17. DRAIN OIL FROM CRANKCASE, REPLACE DRAIN PLUG, TORQUE TO 25LB/FT (SEE PAGE 11)
  - 18. REPLACE ANY REMOVED CAPS AND PLUGS.
  - 19. CAP BREATHER TUBE WITH 3 X 5 POLY BAG SECURE WITH TAPE (SEE PAGE 9).
  - 20. COOLING SYSTEM: IT IS ASSUMED THIS ENGINE, IF NEW, HAS BEEN PREVIOUSLY RUN WITH COOLANT UTILIZING NON-CHROMATE INHIBITORS BY THE MANUFACTURER. THEREFORE, THE COOLING SYSTEM PRESERVATION IS NOT REQUIRED.
    - **THIS COMPLETES THE STEPS FOR ENGINE PRESERVATION REQUIRED PRIOR TO PACKAGING.**
- I. ENSURE ALL OPENINGS TO ENGINE INTERIOR ARE SEALED WITH CAPS/PLUGS OF APPROPRIATE SIZE.
- J. BRACKETS SHALL BE FABRICATED FROM COMMERCIAL GRADE 1/2" THICK PLATE STEEL. BRACKETS SHALL BE FORMED BY BENDING, NOT WELDING AND SHALL BE PAINTED, PLATED OR PRESERVED USING MIL-PRF-16173, GR 4. SEE PAGES 14 - 18 FOR BRACKET DRAWINGS AND PLACEMENT.
- K. ALL HARDWARE SHALL BE COMMERCIAL GRADE AND BE PAINTED, PLATED OR PRESERVED USING MIL-PRF-16173, GR 4. SEE PAGES 13 & 14 FOR SIZES AND LOCATION.
- L. ALL LUMBER SIZES ARE NOMINAL UNLESS OTHERWISE SPECIFIED. SEE PAGES 14 – 16 FOR SIZES AND ORIENTATION.
- M. WRAP ENGINE ENTIRELY IN GREASE PAPER, SECURE WITH TAPE.

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N. APPLY CUSHIONING AROUND THE ENGINE TO PREVENT PUNCTURING THE FOIL ENVELOPE MATERIAL, SECURE WITH TAPE.

O. DESICCANT BAGS SHALL BE PLACED WITHIN FOIL ENVELOPE, BENEATH OIL PAN, BEFORE SEALING BAG.

P. ENVELOPE FABRICATION SHALL BE IN ACCORDANCE WITH SPECIFICATION MIL-DTL-6060. MATERIAL USED FOR FABRICATION OF GASKETS SHALL CONFORM TO SPECIFICATION ASTM F 104. GASKETS SHALL BE CEMENTED TO EACH SIDE OF THE BAG AT THE MOUNTING LOCATION USING MMM-A-260 ADHESIVE OR COMMERCIAL EQUIVALENT. AFTER POSITIONING BARRIER OVER BOLTS, A SUFFICIENT QUANTITY OF ADHESIVE SHALL BE APPLIED AROUND BOLT AND GASKET TO PROVIDE AN AIRTIGHT SEAL.

Q. **CONSOLIDATION:** CONSOLIDATE ITEMS FROM NOTES D, AND F SEGREGATED PACK NUMBERS 1 – 14 IN ACCORDANCE WITH THE FOLLOWING:

1. SPN PLACEMENT: ATTACH SPNS 1 – 14 TO BASE USING TAPE. SEE PAGE 19
2. ATTACH ENGINE ASSEMBLY DIESEL TO BASE USING HARDWARE. SEE PAGE 14.
3. HARDWARE: ALL HARDWARE SHALL BE COMMERCIAL GRADE AND BE PAINTED, PLATED OR PRESERVED USING MIL-PRF-16173, GR 4. SEE PAGES 4 – 8 FOR SIZES AND LOCATION.
4. BLOCKING/BRACING: ASTM-D6199, CL 3, SEE PAGES 13 – 18 FOR SIZES AND ORIENTATION.
5. CONTAINER: ASTM-D7478 CL 2, ST 7, SIZE: 46 X 41 X 38, CLOSE CONTAINER IN ACCORDANCE WITH ASTM-D7478 USING 5/16" X 3" LAG SCREWS FASTENED INTO SKID MEMBERS.
6. INSPECTION: INSPECT IN ACCORDANCE WITH MIL-STD-2073-1D, CRITERIA FOR PRESERVATION, METHOD 10

R. CLOSE CONTAINER IN ACCORDANCE WITH CONTAINER SPECIFICATION ASTM-D7478.

S. THE UNIT CONTAINER IS THE SHIPPING CONTAINER.

T. SPECIAL MARKING SHALL BE APPLIED AS FOLLOWS:

1. 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, 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.
2. 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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4. NATIONAL STOCK NO. 2815-01-622-3891	5. DATE 5/20/2013	6. REVISION -

17. NOTES/DRAWING

**ENGINE PRESERVATION SPECIAL EQUIPMENT**

**FUEL FLOW CHECKING TOOL (CATERPILLAR P/N 331-3626 SHOWN)**



**24 VOLT POWER SUPPLY**

**PRESERVATIVE SUPPLY HOSE**

**SWITCH TO ENGAGE AND DISENGAGE SOLENOID**

**PRESERVATIVE RETURN HOSE**

**STARTER MOTOR, FILTERS AND PAIL ARE NOT SHOWN**

**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

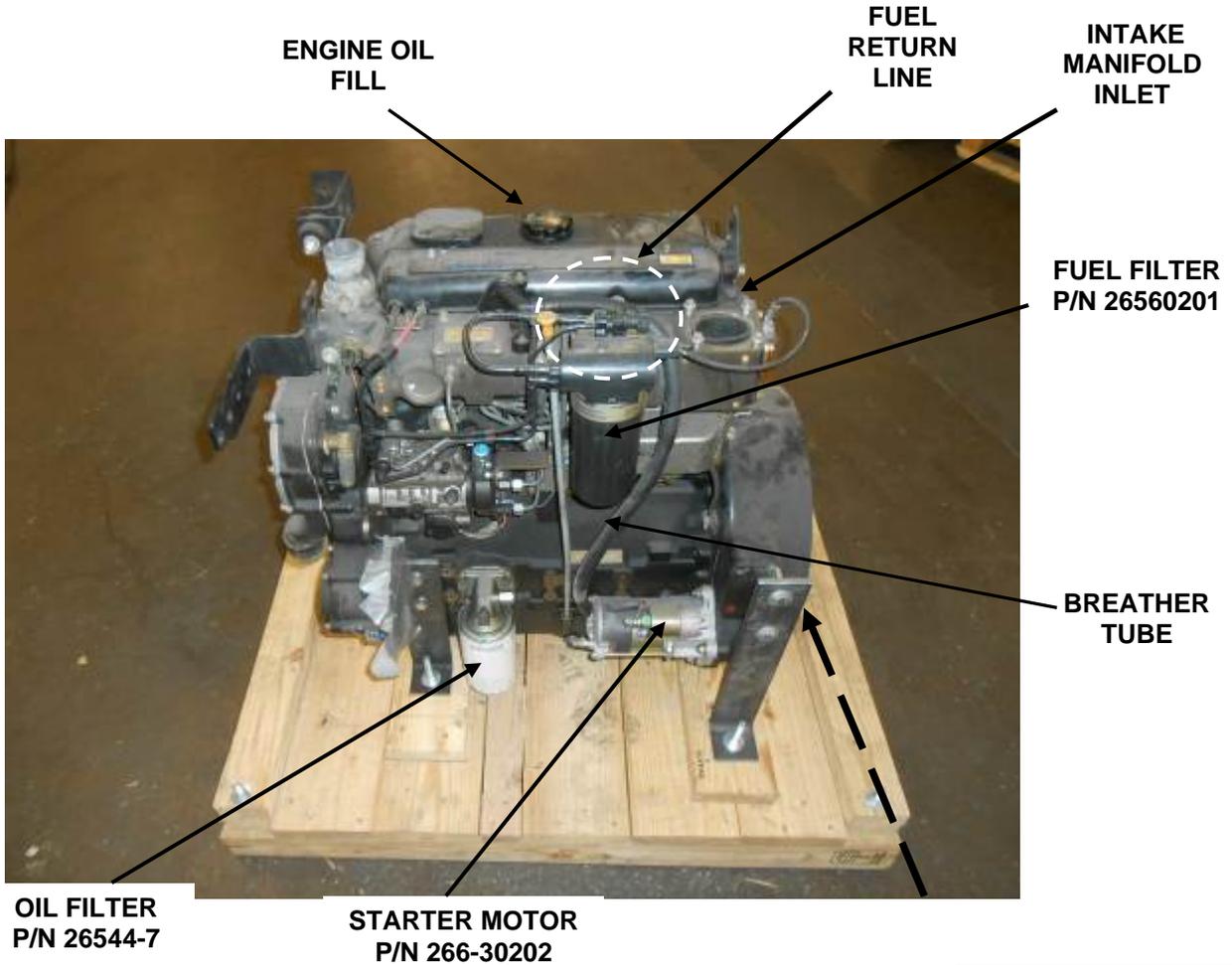
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**ENGINE PRESERVATION LOCATIONS**



**ENGINE PRESERVATION LOCATIONS**

**FLYWHEEL & RING GEAR**



**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

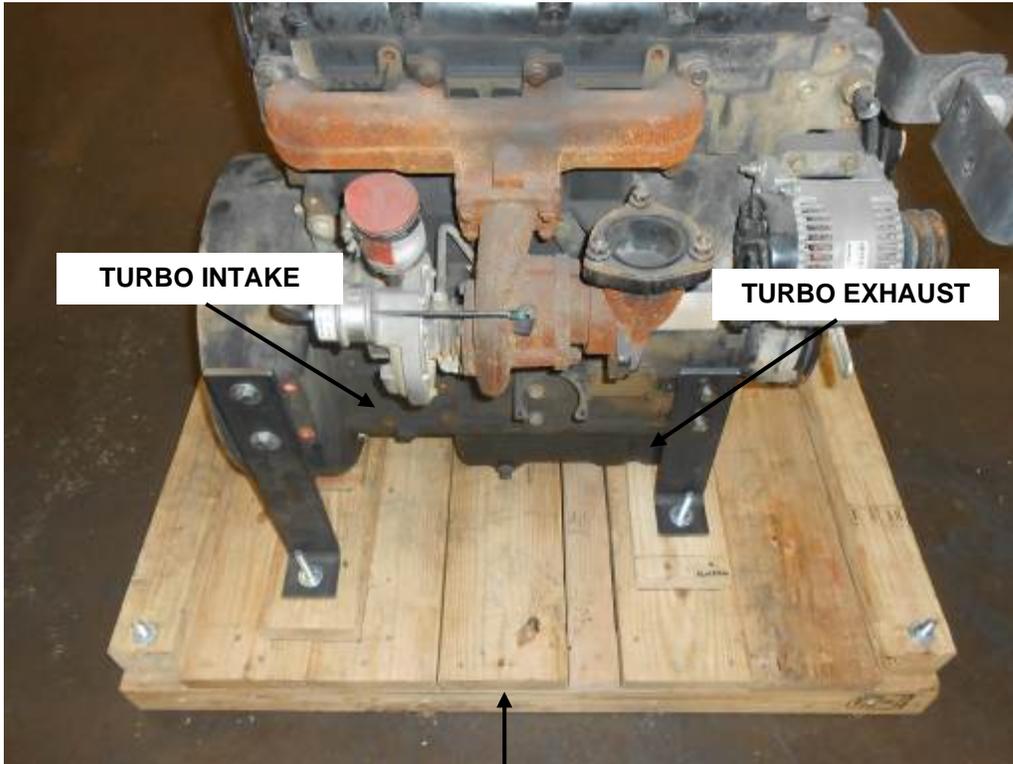
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17. NOTES/DRAWING



**ENGINE OIL  
DRAIN**

**POWER SUPPLY HOOK UP LOCATIONS**

**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

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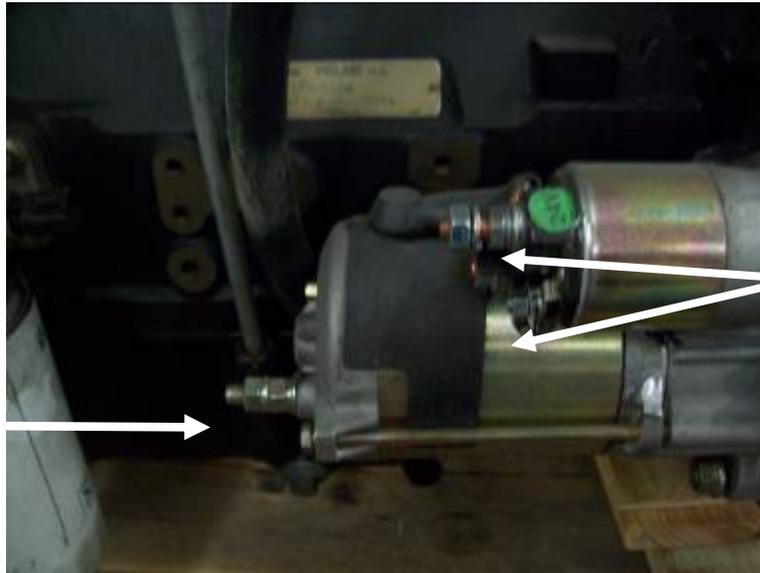
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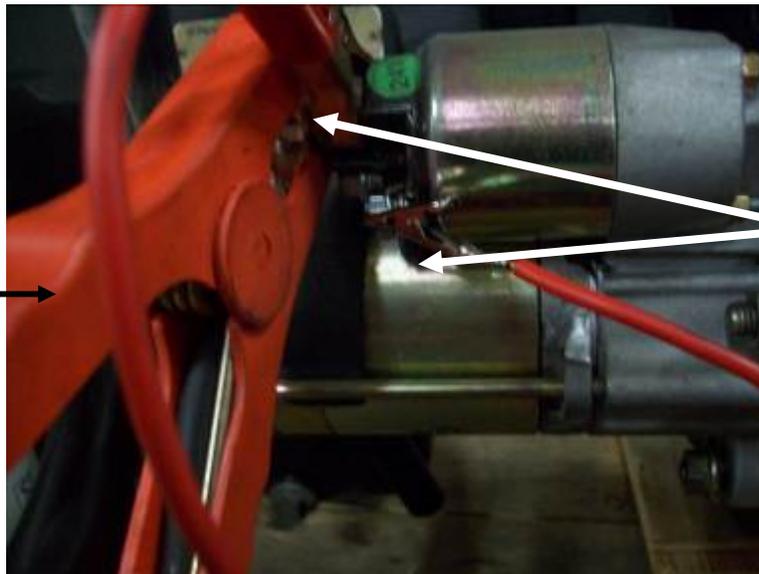
**NEGATIVE  
HOOK UP  
LOCATION**



**POSITIVE HOOK UP  
LOCATIONS**

**EXAMPLE OF WIRE USED FOR DUAL LOCATION POSITIVE HOOK UP**

**POWER SUPPLY  
GATOR CLIP**



**WIRE ATTACHING  
TERMINALS**

**NOTE: POWER SUPPLY GATOR GRIP AND WIRE ATTACHED TO THE SAME TERMINAL ON SILENOID.**

**PACKAGING BILL OF MATERIAL**

**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

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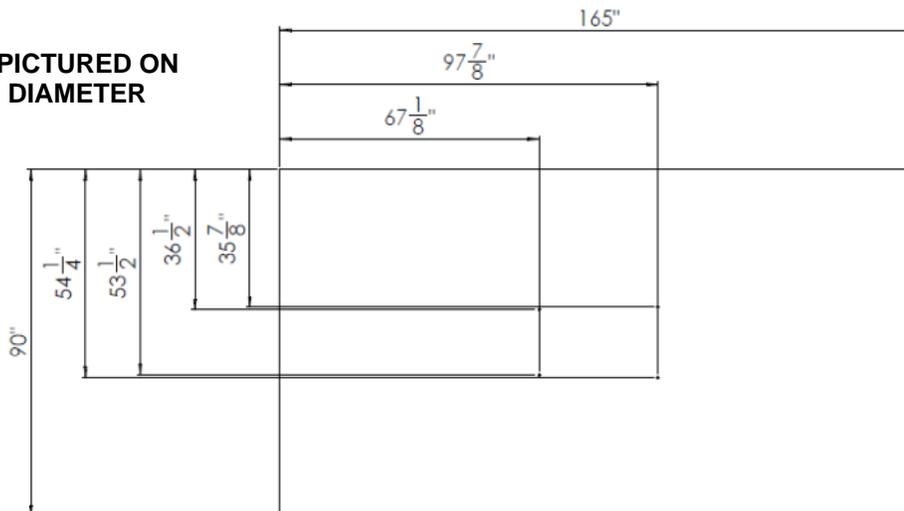
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17. NOTES/DRAWING

ITEM	SIZE	QTY	REFERENCE
A	2 X 8 X 57-3/4 (NOMINAL)	2	ASTM-D6199
B	2 X 6 X 24 (NOMINAL)	2	ASTM-D6199
C	8 X 26 GASKET MATERIAL	2	ASTM F 104
D	16-1/2" "L" BRACKET	2	SEE DRAWING ON PAGE 17
E	12" NOTCHED "L" BRACKET	1	SEE DRAWING ON PAGE 17
F	12" "L" BRACKET	1	SEE DRAWING ON PAGE 17
G	M12 – 1.75 X 45 MM HARDWARE SET	2	HARDWARE SET CONSISTS OF: 1PC M12 – 1.75 X 45MM HEX BOLT & 1PC M12 LOCK WASHER.
H	M16 – 2.00 HARDWARE SET	4	HARDWARE SET CONSISTS OF: 1PC M16 – 2.00 NUT & 1PC M16 LOCK WASHER.
I	M12 – 1.75 X 90MM HARDWARE SET	2	HARDWARE SET CONSISTS OF: 1PC M12 – 1.75 X 90MM HEX BOLT & 1PC M12 LOCK WASHER.
J	1/2 X 1-1/2 STEEL SPACER	4	MCMaster-CARR P/N 92415A156
K	1/2 X 8 HARDWARE SET	4	HARDWARE SET CONSISTS OF: 1PC 1/2 X 8" CARRIAGE BOLT, 1PC 1/2 FLAT WASHER, 1PC 1/2 LOCK WASHER & 1PC 1/2 NUT.
L	165 X 90 ENVELOPE (FLAT LAYOUT)	1	MIL-DTL-6060E
M	8 X 31-1/2 GASKET MATERIAL	2	ASTM F 104

**ENVELOPE, ITEM L (FLAT LAYOUT), HOLE LOCATIONS**

**NOTE: ALL HOLES PICTURED ON THIS PAGE ARE 1/2" DIAMETER**



**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

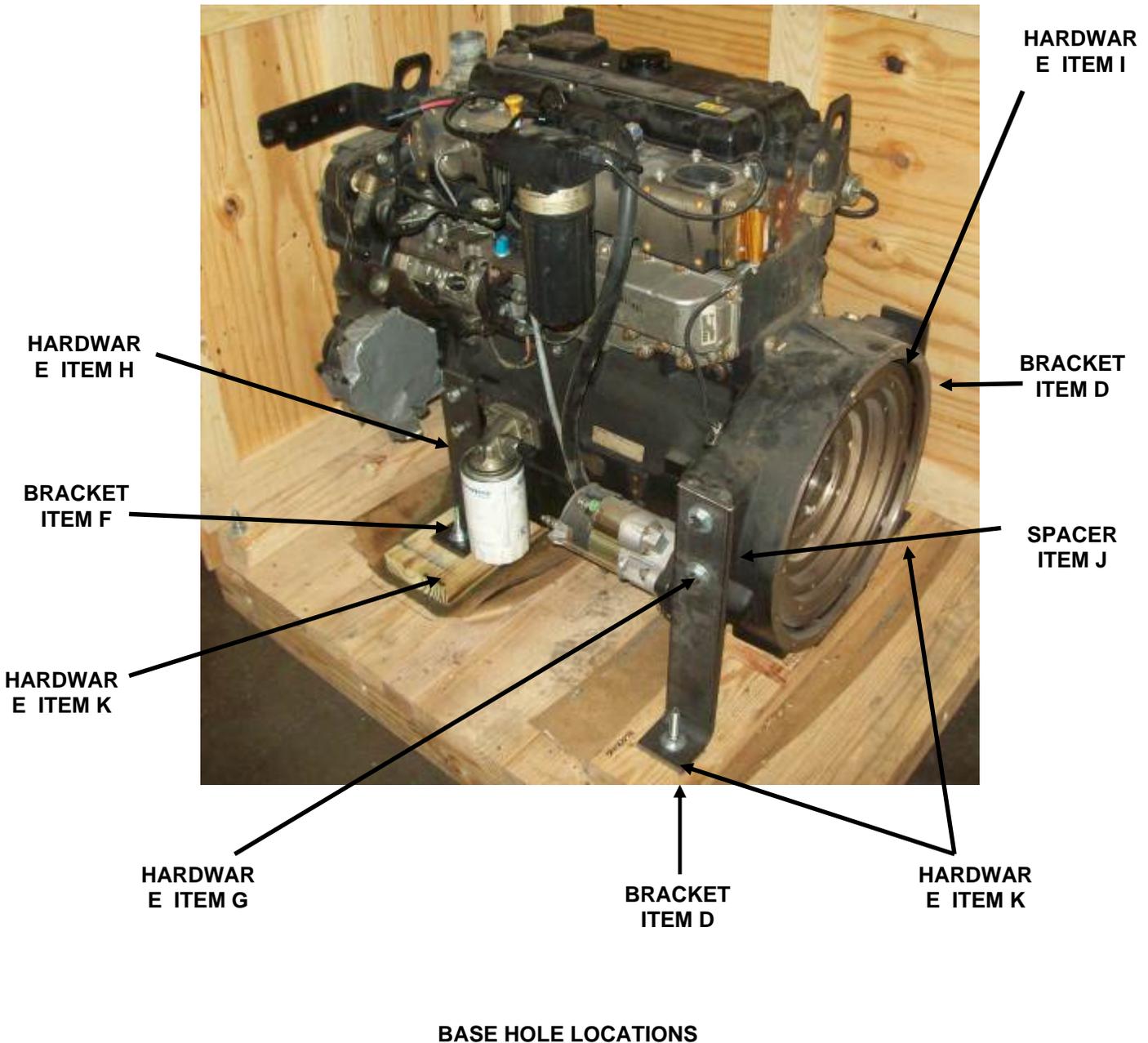
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17. NOTES/DRAWING



**SPECIAL PACKAGING INSTRUCTION (Continuation Sheet)**

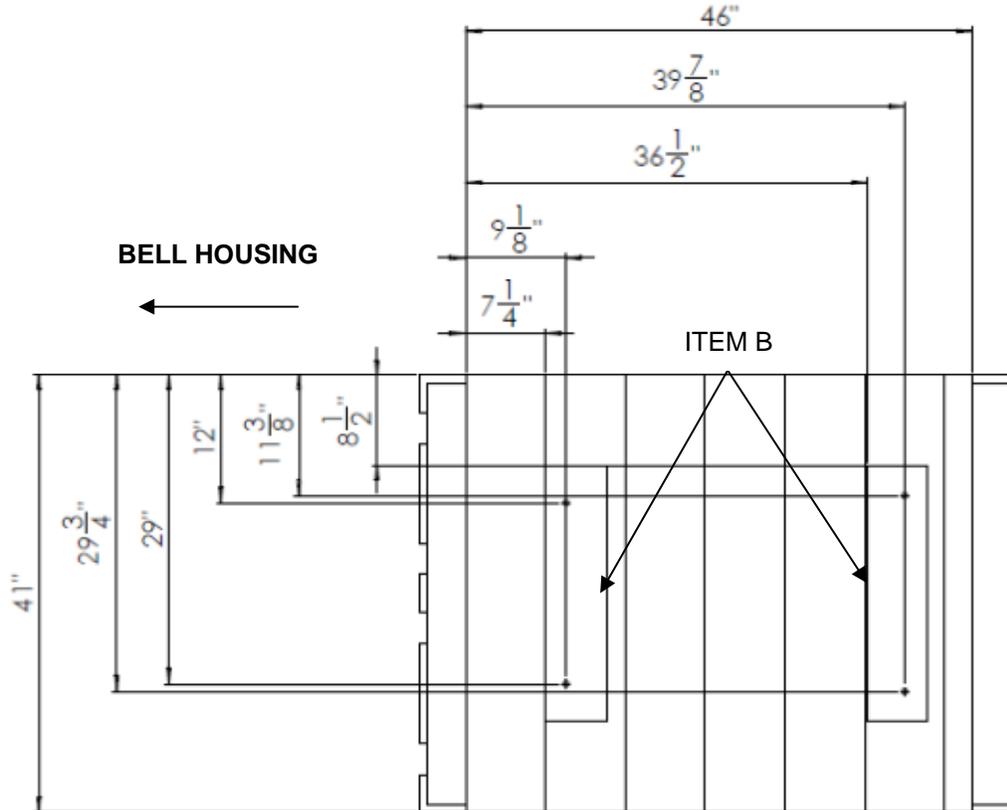
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17. NOTES/DRAWING



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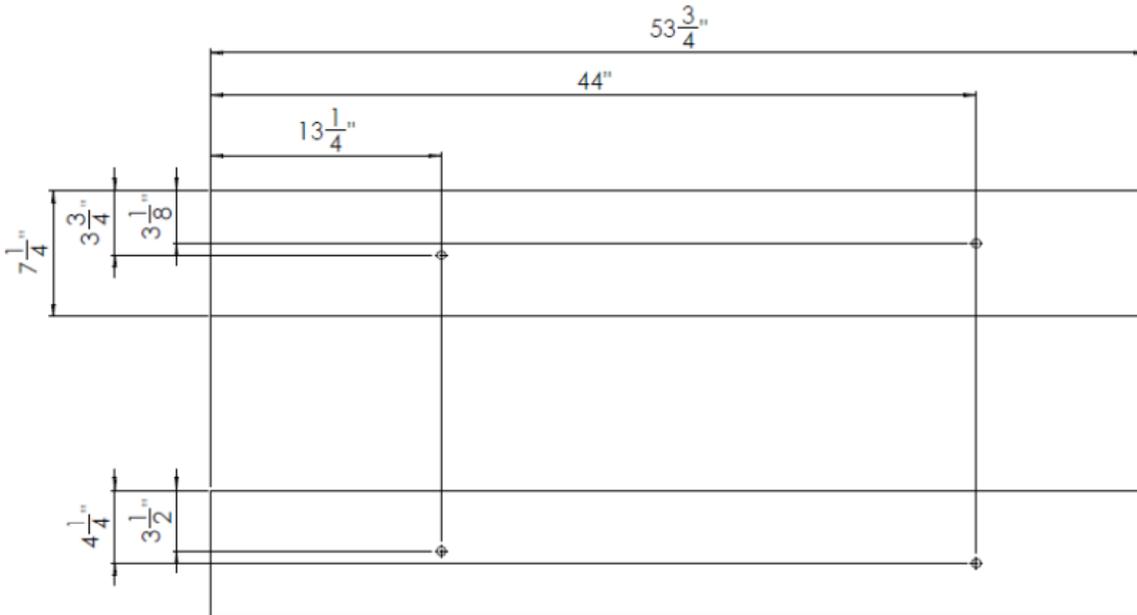
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**ITEM A HOLE LOCATIONS**



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**ITEM IDENTIFICATION**

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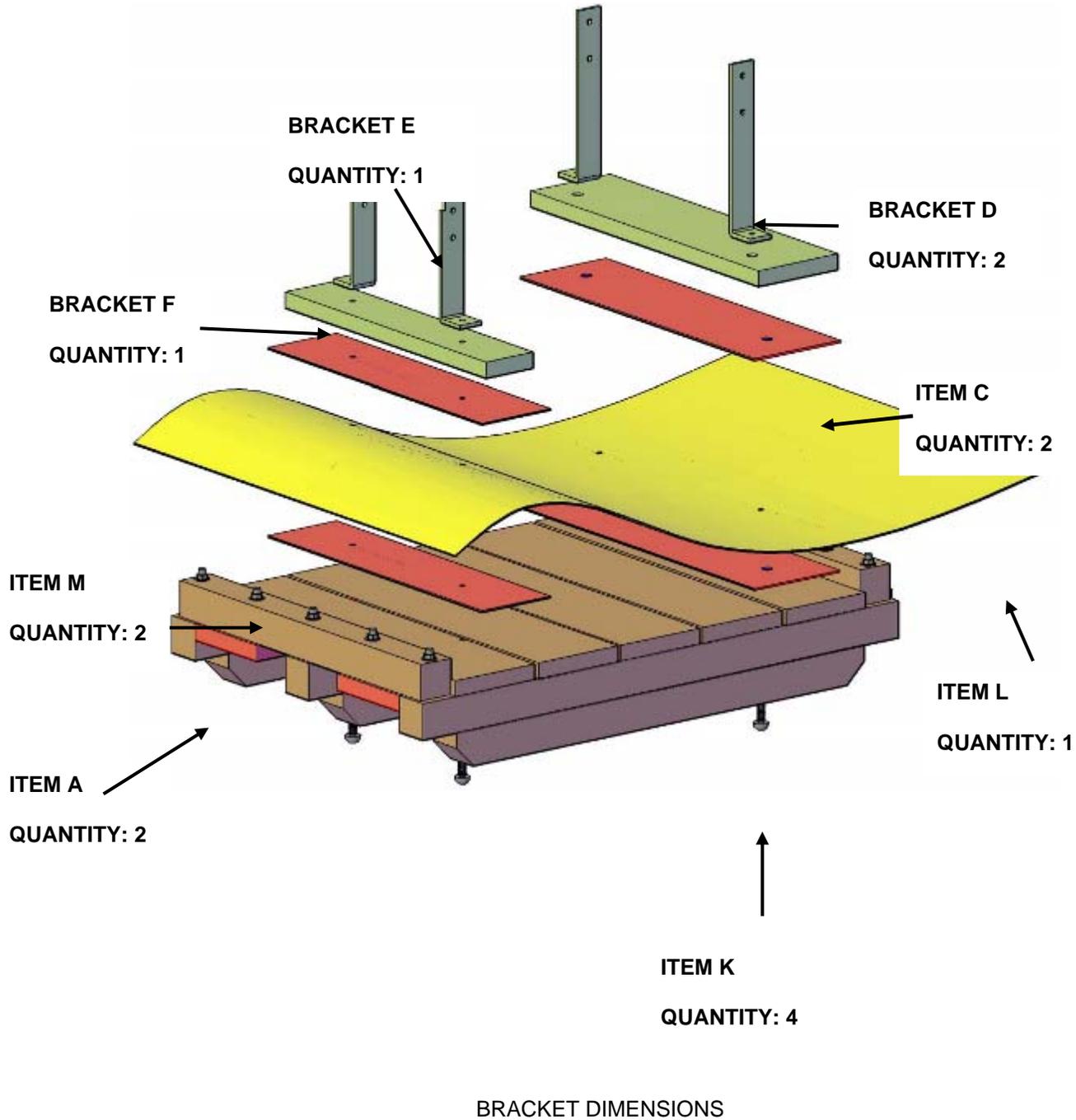
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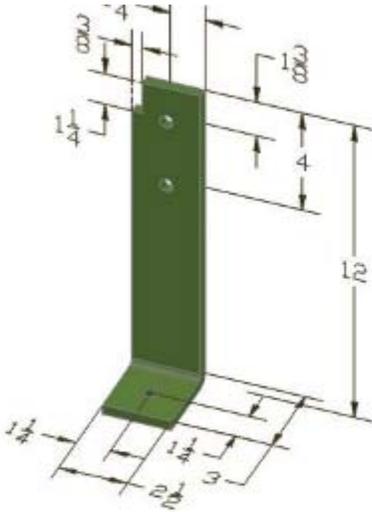
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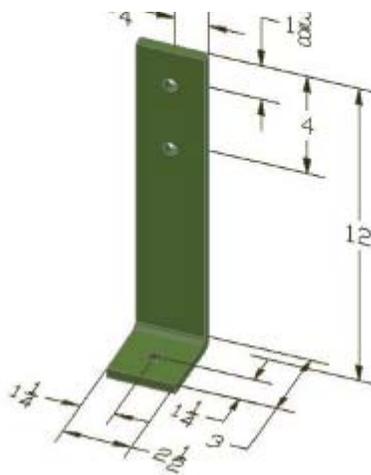
**BRACKET E**

**QUANTITY: 1**



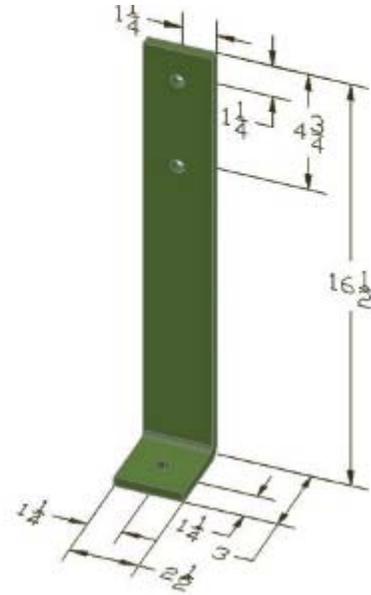
**BRACKET F**

**QUANTITY: 1**



**BRACKET D**

**QUANTITY: 2**



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17. NOTES/DRAWING  
ENGINE ORIENTATION AND CONSOLIDATION CONTAINER LOCATION (NOTE Q)



CONSOLIDATION  
CONTAINER - NOTE F

ENGINE CUSHIONING AND CONSOLIDATION CONTAINER SECURING METHOD (NOTE Q)

