REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	5/15/10
C	RECONCILED REV LEVEL	L. L.	03/02/16

D'Shannon Products, LTD

INSTALLATION MANUAL

DSP-IM97-1, Rev. C

STC No. SA01165CH

INSTALLATION DRAWINGS
AND
INSTRUCTIONS FOR
ENGINE COOLING BAFFLES
BEECH BONANZA OR DEBONAIR A35, B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, 35-33, 35-A33, 35-B33, 35-C33, E33, F33 EQUIPPED WITH A CONTINENTAL MOTORS ENGINE O-470-G, IO-470-C, OR IO-470-N

D'SHANNON PRODUCTS, LTD
800-291-7616, INT'L 763-559-5998

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	COVER SHEET	
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD	
	DWG. No. DSP-IM97-1-1	REVISION C
	SCALE: NONE	DATE 03/02/16 SH 1 OF 1

NUMERICAL DRAWING LIST CONTROL

DWG. No.	DATED	REV.		No. SHTS	EFF. EO	EO	EO	EO	DESCRIPTION
DSP-IM97-1-1	03/02/16	C		1					COVER SHEET
DSP-IM97-1-2	03/02/16	A		1					NUMERICAL DWG. LIST
DSP-IM97-1-3	03/02/16	A		2					INSTALLATION BILL OF MATERIAL
DSP-IM97-1-3A	03/02/16	A		1					GENERAL NOTES
DSP-IM95-1-4	07/02/15	B		2					REMOVAL OF PROPELLER AND INTAKE PIPES
DSP-IM97-1-5	05/15/10	NC		1					REMOVAL OF THE PROP. GOVERNOR
DSP-IM97-1-6	03/02/16	A		2					REMOVE ORIGINAL BAFFLE NOSE
DSP-IM97-1-7	03/02/16	A		5					INSTALLATION BAFFLE INNER CYLINDER
DSP-IM97-1-9	05/15/10	NC		1					INSTALLATION FRONT CYLINDER BAFFLE ASSY.
DSP-IM97-1-10	05/15/10	NC		1					REINSTALLATION PROP. GOVERNOR WITH BRACKET
DSP-IM97-1-11	05/15/10	NC		4					INSTALLATION BAFFLE FRONT LEFT
DSP-IM97-1-12	05/15/10	NC		6					INSTALLATION OIL COOLER BAFFLE
DSP-IM95-1-17	03/08/10	A		1					REINSTALL INTAKE PIPE LEFT SIDE
DSP-IM97-1-15	05/15/10	NC		7					INSTALLATION BAFFLE REAR LEFT
DSP-IM97-1-16	05/15/10	NC		4					INSTALLATION BAFFLE REAR RIGHT
DSP-IM97-1-17	05/15/10	NC		7					INSTALLATION CENTER BRACKET REAR
DSP-IM97-1-19	03/02/16	A		7					INSTALLATION SIDES BAFFLE
DSP-IM97-1-20	05/15/10	NC		6					INSTALLATION GASKET FRONT
DSP-IM95-1-25A	05/15/10	NC		2					REMOVAL OF ORIGINAL COWLING GASKETS
DSP-IM97-1-21	03/02/16	A		3					INSTALLATION BAFFLE COWLING PLATES
DSP-IM97-1-22	03/02/16	A		2					INSTALLATION, COWLING HOSE HOLDER OPTION "A"
* DSP-IM97-1-22A	03/02/16	A		2					INSTALLATION, COWLING HOSE HOLDER OPTION "B"
DSP-IM95-1-27	03/08/10	A		1					INSTALLATION OF PROPELLER

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	5/15/10
A	RECONCILED REV LEVELS	L. L.	03/02/16

* THIS DRAWING IS OPTIONAL AND SHALL REPLACE DRAWING DSP-IM97-1-22 WHEN THE AIR DISCHARGE TUBE ASSEMBLY IS REQUIRED.

NEXT ASSY:
DRAWN BY: W. E.
ENGINEER: R. R.
CHECKED BY: L. L.

NUMERICAL DRAWING LIST

TOLERANCES
.X___.10 .XXX___.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-2 | REVISION A

SCALE: NONE | DATE 03/02/16 | SH 1 OF 1

ITEM	LOCATION OF ITEMS	QTY.	PART NUMBER	D E S C R I P T I O N
47	DSP-IM97-1-20	1	47OC-011	RETAINER, FOR GASKET, OIL COOLER
46	DSP-IM97-1-20	1	47OC-012G	GASKET OIL COOLER
45	DSP-IM97-1-20	1	47OC-009	RETAINER, FOR GASKET, OIL COOLER
44	DSP-IM97-1-20	1	47OC-008	RETAINER, FOR GASKET, OIL COOLER
43	DSP-IM97-1-19	4	AN931-4-7	ELASTIC GROMMET
42	DSP-IM97-1-12/20	7	AN960C6	FLAT WASHER
41	DSP-IM97-1-19	1	47S-A02	BAFFLE SIDE LEFT ASSEMBLY
40	DSP-IM97-1-19	1	47S-A01	BAFFLE SIDE RIGHT ASSEMBLY
39	DSP-IM97-1-19	1	244050-1Z	BRACKET, BAFFLE SIDE
38	DSP-IM97-1-19	1	244050Z	BRACKET, BAFFLE SIDE
37	DSP-IM97-1-19	2	244047Z	BRACKET, BAFFLE SIDE
36	DSP-IM97-1-19	4	244045Z	BRACKET, BAFFLE SIDE
35	DSP-IM97-1-17/20	13	MS21042-06	REDUCED DIMENSION LOCK NUT
34	DSP-IM97-1-17/19/20	13	AN526C632R8	TRUSS HEAD MACHINE SCREW
33	DSP-IM97-1-17	1	47R-017	BACK RETAINER FOR GASKET
32	DSP-IM97-1-17	1	47R-016	FRONT RETAINER FOR GASKET
31	DSP-IM97-1-16/15	4	AN3-3A	BOLT UNDRILLED #10-32
30	DSP-IM97-1-16	1	47R-A03	STARTER STUD BRACKET ASSEMBLY
29	DSP-IM97-1-16	1	47R-A06	#1 CYLINDER LOWER FORWARD BAFFLE ASSEMBLY
28	DSP-IM97-1-16	1	47R-A02	BAFFLE REAR RIGHT ASSEMBLY
27	DSP-IM97-1-15/16/17/19	49	MS35206-227	PAN HEAD MACHINE SCREW
26	DSP-IM97-1-15	1	47R-A08	BRACKET REAR LEFT ASSEMBLY
25	DSP-IM97-1-15	1	47R-A07	BAFFLE REAR LEFT ASSEMBLY
24	DSP-IM97-1-15	1	47R-A01	BAFFLE REAR LEFT ASSEMBLY
23	DSP-IM97-1-15	1	47R-020G	GASKET REAR CENTER
22	DSP-IM97-1-15	1	47R-A04	#2 CYLINDER VERTICAL HEAD BAFFLE ASSEMBLY
21	DSP-IM97-1-15	1	47R-A05	#2 CYLINDER LOWER FORWARD BAFFLE ASSEMBLY
20	DSP-IM97-1-12	1	47OC-A01	BAFFLE OIL COOLER ASSEMBLY
19	DSP-IM97-1-12	1	47OC-007	BAFFLE OIL COOLER
18	DSP-IM97-1-12	1	47OC-001	BAFFLE OIL COOLER
17	DSP-IM97-1-12	1	47OC-A03	BRACKET OIL COOLER ASSEMBLY
16	DSP-IM97-1-12	1	47OC-A02	BRACKET OIL COOLER ASSEMBLY
15	DSP-IM97-1-12	1	47OC-A04	BRACKET OIL COOLER ASSEMBLY
14	DSP-IM97-1-11/12/20	25	AN526C632R6	TRUSS HEAD MACHINE SCREW
13	DSP-IM97-1-11	1	47F-001	BAFFLE FRONT
12	DSP-IM97-1-11	1	47F-A01	BAFFLE FRONT ASSEMBLY
11	DSP-IM97-1-11	1	47F-A02	BRACKET FRONT ASSEMBLY
10	DSP-IM97-1-10	1	47F-A03	BRACKET FRONT ASSEMBLY
9	DSP-IM97-1-9	1	47F-A04	BAFFLE FRONT ASSEMBLY
8	DSP-IM97-1-7	4	NAS679A3	LOW HEIGHT HEX. LOCKNUT
7	DSP-IM97-1-7	4	MS21042-3	REDUCED DIMENSION LOCKNUT
6	DSP-IM97-1-7/15/16	8	AN960-10	FLAT WASHER
5	DSP-IM97-1-7	4	244093	ROD CONNECTOR, CYLINDER INNER
4	DSP-IM97-1-7	4	244052	SUPPORT, ENGINE BAFFLE
3	DSP-IM97-1-7	1	47I-A03	INNER CYLINDER BOTTOM SLOT BAFFLE ASSY.
2	DSP-IM97-1-7	1	47I-A02	INNER CYLINDER BOTTOM BAFFLE ASSY.
1	DSP-IM97-1-7	1	47I-A01	INNER CYLINDER BOTTOM BAFFLE ASSY.

REVISION RECORD

LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	5/15/10
A	RECONCILED QUANTITIES/ADD ITEM 73	L. L.	03/02/16

NEXT ASSY:
DRAWN BY: W. E.
ENGINEER: R. R.
CHECKED BY: L. L.

INSTALLATION BILL OF MATERIAL

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-3 | REVISION A

SCALE: NONE | DATE 03/02/16 | SH 1 OF 2

73	DSP-IM97-1-22	1	242001-S	FUEL PUMP BLAST TUBE
72	DSP-IM97-1-7	2	242013	LINE SUPPORT
71	DSP-IM97-1-10	6	AN960-516L	FLAT WASHER
70	DSP-IM97-1-15	1	47R-A10	BRACKET REAR LEFT ASSEMBLY
69	DSP-IM97-1-15	1	47R-A09	BAFFLE REAR LEFT ASSEMBLY
68	DSP-IM97-1-20	1	47OC-005	BAFFLE OIL COOLER
67	DSP-IM97-1-17	1	47R-022	RETAINER CENTER REAR
66	DSP-IM97-1-7	1	47I-A04	INNER CYLINDER BOTTOM SLOT BAFFLE ASSY.
65	DSP-IM97-1-20	5	AN507C632R10	FLAT HEAD MACHINE SCREW
64	DSP-IM97-1-20/21/22/22A	74	AD44H	POP RIVET
63	DSP-IM97-1-7/19/21/22/22A	1	G.E. SILICONE II	SILICONE
62	DSP-IM97-1-22	2	AN960C4	FLAT WASHER
61	DSP-IM97-1-22A	1	* 242016Z	AIR DISCHARGE TUBE ASSEMBLY ALT.
60	DSP-IM97-1-22	1	242005	COWLING, HOSE HOLDER
59	DSP-IM97-1-21	1	STCP-02	BAFFLE, COWLING, INSIDE (LEFT)
58	DSP-IM97-1-21	1	STCP-01	BAFFLE, COWLING, INSIDE (RIGHT)
57	DSP-IM97-1-20	1	47F-014	RETAINER, FOR GASKET, FRONT
56	DSP-IM97-1-20	1	47F-013	RETAINER, FOR GASKET, FRONT
55	DSP-IM97-1-20	1	47F-010	RETAINER, FOR GASKET, FRONT
54	DSP-IM97-1-20	1	47F-016G	GASKET FRONT
53	DSP-IM97-1-20	1	47F-012	RETAINER, FOR GASKET, FRONT
52	DSP-IM97-1-20	1	47F-011	RETAINER, FOR GASKET, FRONT
51	DSP-IM97-1-20	1	47F-015G	GASKET FRONT
50	DSP-IM97-1-20	1	47OC-014G	GASKET OIL COOLER
49	DSP-IM97-1-20	1	47OC-010	RETAINER, FOR GASKET, OIL COOLER
48	DSP-IM97-1-20	1	47OC-013G	GASKET OIL COOLER
ITEM	LOCATION OF ITEMS	QTY.	PART NUMBER	D E S C R I P T I O N

NOTE: * P/N 242016Z IS AN ALTERNATE AND ASSEMBLED USING EXHISITING DUCTING.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION BILL OF MATERIAL
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-3 | REVISION A
	SCALE: NONE | DATE 03/02/16 | SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10
A	ADDED NOTES	L. L.	03/02/16

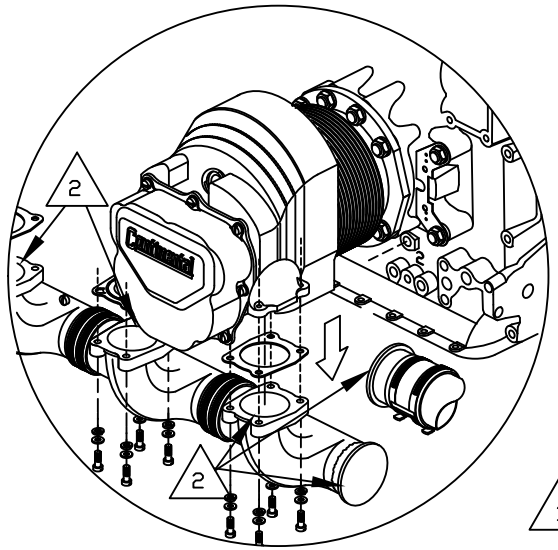
GENERAL NOTES: COOLING SYSTEM (BAFFLES)

1. TORQUE ROCKER BOX COVER SCREWS BETWEEN 45 TO 55 IN/LB PER TCM SPECS. AFTERMARKET ROCKER BOX COVER GASKET INSTALLATIONS MAY REQUIRE SPECIAL TORQUE SPECS.
2. THROUGH EXPERIENCE, SUBSTANTIAL IMPROVEMENTS IN THE COOLING EFFICIENCY TO THE AFT CYLINDERS HAS BEEN NOTED BY SIMPLY ROTATING THE MAGNETOS UPWARDS AS FAR AS POSSIBLE WITHOUT INTERFERING WITH THE COWLING; AND ROUTING THE IGNITION HARNESSES AS HIGH AS POSSIBLE SO AS NOT TO IMPEDE AIRFLOW TO 1, 2, 3 AND 4 CYLINDERS OR TO THE OIL COOLER. RETIME THE MAGNETOS IF THEY ARE ROTATED. MAINTAIN A MINIMUM OF 1/4" CLEARANCE BETWEEN THE MAGNETO AND THE COWL.
3. FOR BEST RESULTS INSTALL THE COMPLETE BAFFLE KIT. IT IS PERMISSIBLE AND DOES NOT INVALIDATE THIS STC TO INSTALL THE FRONT BAFFLE, SIDE BAFFLE, REAR BAFFLE, OR INNER CYLINDER BAFFLE INDEPENDENT OF EACH OTHER, REPLACING THE BEECH FACTORY INSTALLED PIECES UNTIL SUCH TIME AS IT IS CONVENIENT TO INSTALL THE BALANCE OF THE BAFFLE KIT.
4. PRIOR TO COWLING INSTALLATION MAINTAIN A 1/8" CLEARANCE BETWEEN THE SEAL AND THE COWLING PLATES INSTALLED BY THIS KIT. ADDRESS ANY INTERFERENCE BETWEEN THE KIT AND THE AIRFRAME PRIOR TO RELEASING THE AIRCRAFT FOR FLIGHT.
5. TEFLON TAPE MAY BE INSTALLED TO THE ADJACENT WEARING SURFACE TO MINIMIZE SEAL WEAR.
6. CYLINDER HEAD TEMPERATURE PROBE (CHT) IS TO BE LOCATED IN CYLINDER #2. MOVE THE PROBE TO #2 AS REQUIRED. ORIGINAL CHT PROBE IS NOT TO BE REPLACED BY AFTER-MARKET SINGLE OR MULTI-PROBE UNITS UNLESS THE UNIT IS CERTIFIED AS PRIMARY (MANY ARE NOT).

NOTE: THIS BAFFLE KIT WAS CAREFULLY MADE TO FIT THE MAJORITY OF BONANZA OR DEBONAIR AIRCRAFT CONFIGURED WITH A O-470-G, IO-470-C,N ENGINE, EITHER ORIGINALLY OR THROUGH AN STC. VARIANCES IN TOOLING THE AIRCRAFT OR ENGINE OVER THE YEARS REQUIRES CARE IN HAND FITTING SOME PARTS; OCCASIONALLY ENLARGING FASTENER HOLES; AND PROVIDING THROUGH HOLES FOR EQUIPMENT PREVIOUSLY INSTALLED. SOMETIMES, LOOSE ASSEMBLY OF PORTIONS OF THE KIT AND THEN TIGHTENING IN PLACE WILL AID IN LINING UP PARTS AND WILL SPEED INSTALLATION. ANY MODIFICATIONS TO THE KIT SHOULD BE MADE IN ACCORDANCE WITH AC-43.13-1B. IF YOU HAVE ANY QUESTIONS ABOUT YOUR INSTALLATION, PLEASE CONTACT THE D'SHANNON FACTORY AT ONE OF THE TELEPHONE NUMBERS PROVIDED ON THE COVER OF THESE INSTRUCTIONS.

NEXT ASSY: DRAWN BY: L. L. ENGINEER: R. R. CHECKED BY: L. L.	GENERAL NOTES	
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD	
	DWG. NO. SP-IM97-1-3A	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 1 OF 1

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	K. S.	04/24/09
A	MOVED NOTES. REMOVED SH 3	D. B.	03/08/10
B	REMOVE INCORRECT INSTRUCTIONS	W. E.	7/2/15



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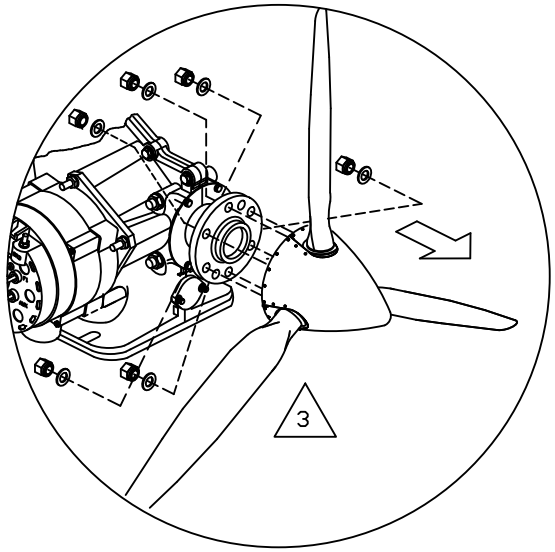


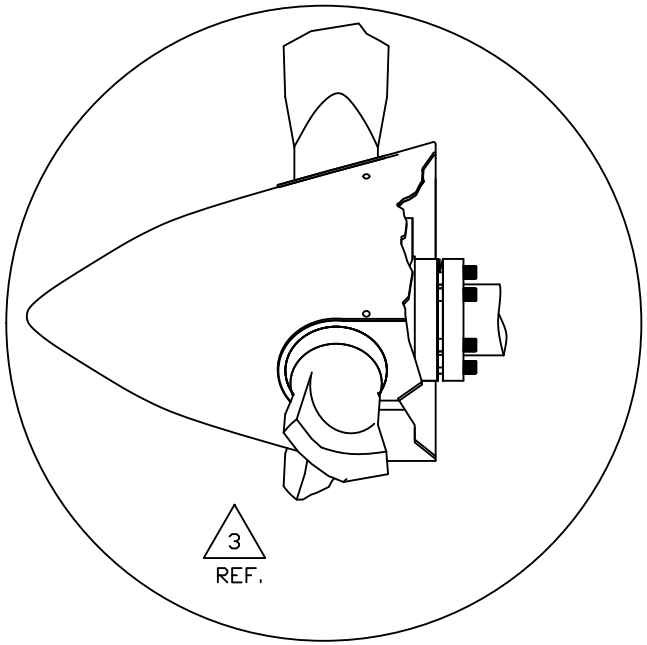
NOTES:

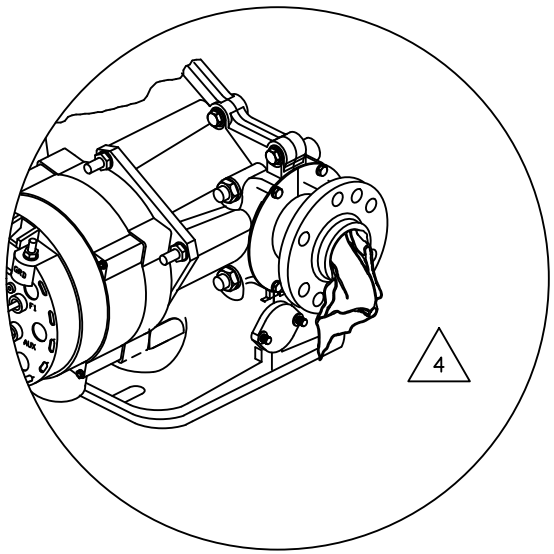
3 REMOVE THE PROPELLER FOR EASIER INSTALLATION OF THE BAFFLES IN THE FRONT OF THE ENGINE.

2 FOR A COMPLETE BAFFLE INSTALLATION REMOVE THE INTAKE PIPES ON BOTH SIDES AS A UNIT (ALL THREE CYLINDER'S WORTH ONLY NOT THE CROSS OVER PIPE IN FRONT OF THE ENGINE NOR THE BOTTOM "Y" TUBE) BE SURE TO COVER ALL ENDS OF EACH INTAKE PIPE REMOVED FROM THE ENGINE AND THE CROSS OVER PIPE AND THE "Y" PIPE.

1 WE RECOMMEND THE COMPLETE BAFFLE KIT INSTALLATION, HOWEVER IF THIS INSTALLATION IS TO BE INSTALLED ON AN ENGINE WHICH ALREADY HAS BEECH BAFFLES INSTALLED YOU MAY DELETE THE INSTALLATION OF THE FOUR INNER CYLINDERS BAFFLES. THE BAFFLES DO HOWEVER HAVE TO BE INSTALLED CORRECTLY AND IT WILL BE UP TO THE INSTALLER TO CHECK AND CORRECT ANY EXISTING BAFFLING THAT MAY NOT BE INSTALLED CORRECTLY.

ITEM	QTY	PART No.	MATERIAL
NEXT ASSY:			
DRAWN BY: W. E.			REMOVAL OF PROP. AND INTAKE PIPES
ENGINEER: R. R.			
CHECKED BY: L. L.			
TOLERANCES		D'SHANNON PRODUCTS, LTD	
.X___.10 .XXX___.01			
.XX_.03 .XXXX_.001		DWG. No. DSP-IM95-1-4	REVISION B
ANGLES ±5%			
UNLESS STATED		SCALE: NONE DATE 7/2/15	SH 1 OF 2





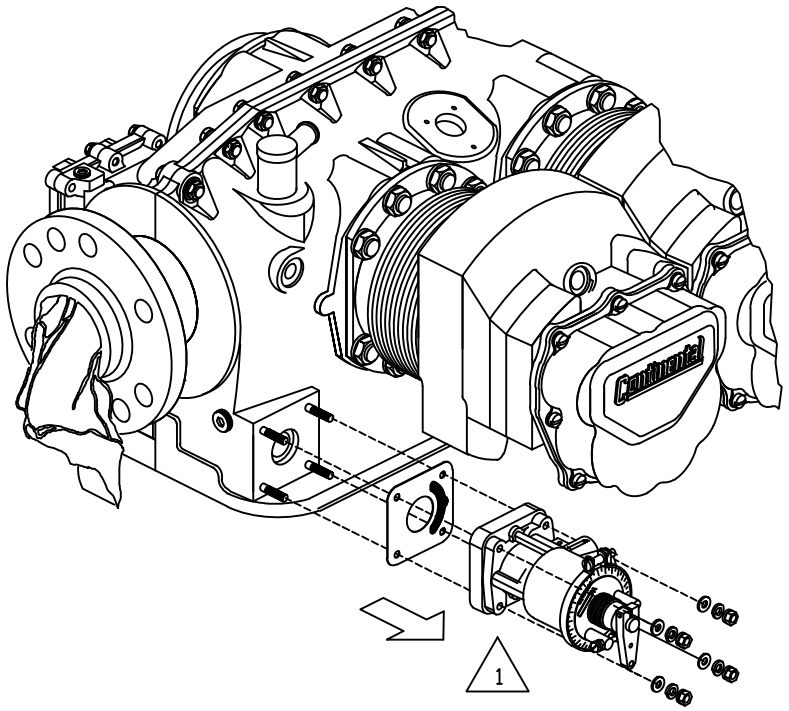
NOTES:

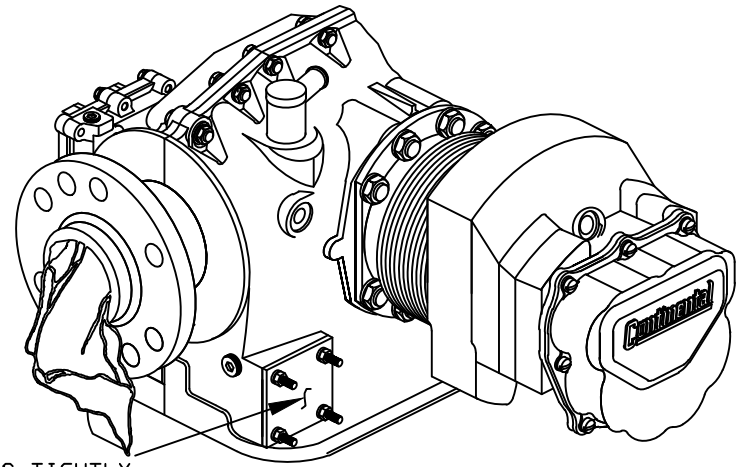
4 WHEN THE PROPELLER HAS BEEN REMOVED CAP THE END OF THE PROPELLER SHAFT. REMOVE THE STAPLES AROUND THE BAFFLE BELOW THE PROPELLER SHAFT AND THE BAFFLE THAT COVERS THE PROP GOVERNOR. REMOVE THE RUBBER IN ITS ENTIRETY. CLEAN OFF ANY RESIDUE AND ANY MATERIAL THAT COULD GET INTO AN OPEN ENGINE.

3 REMOVE THE PROPELLER FOR EASIER INSTALLATION OF THE BAFFLES IN THE FRONT OF THE ENGINE.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	REMOVAL OF PROP. AND INTAKE PIPES	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*	
	DWG. No. DSP-IM95-1-4	REVISION B
	SCALE: NONE	DATE 7/2/15 SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10





COVER HOLES TIGHTLY
AFTER REMOVAL OF THE
GOVERNOR

NOTES:

2 DOES NOT SHOW OLD BAFFLES.

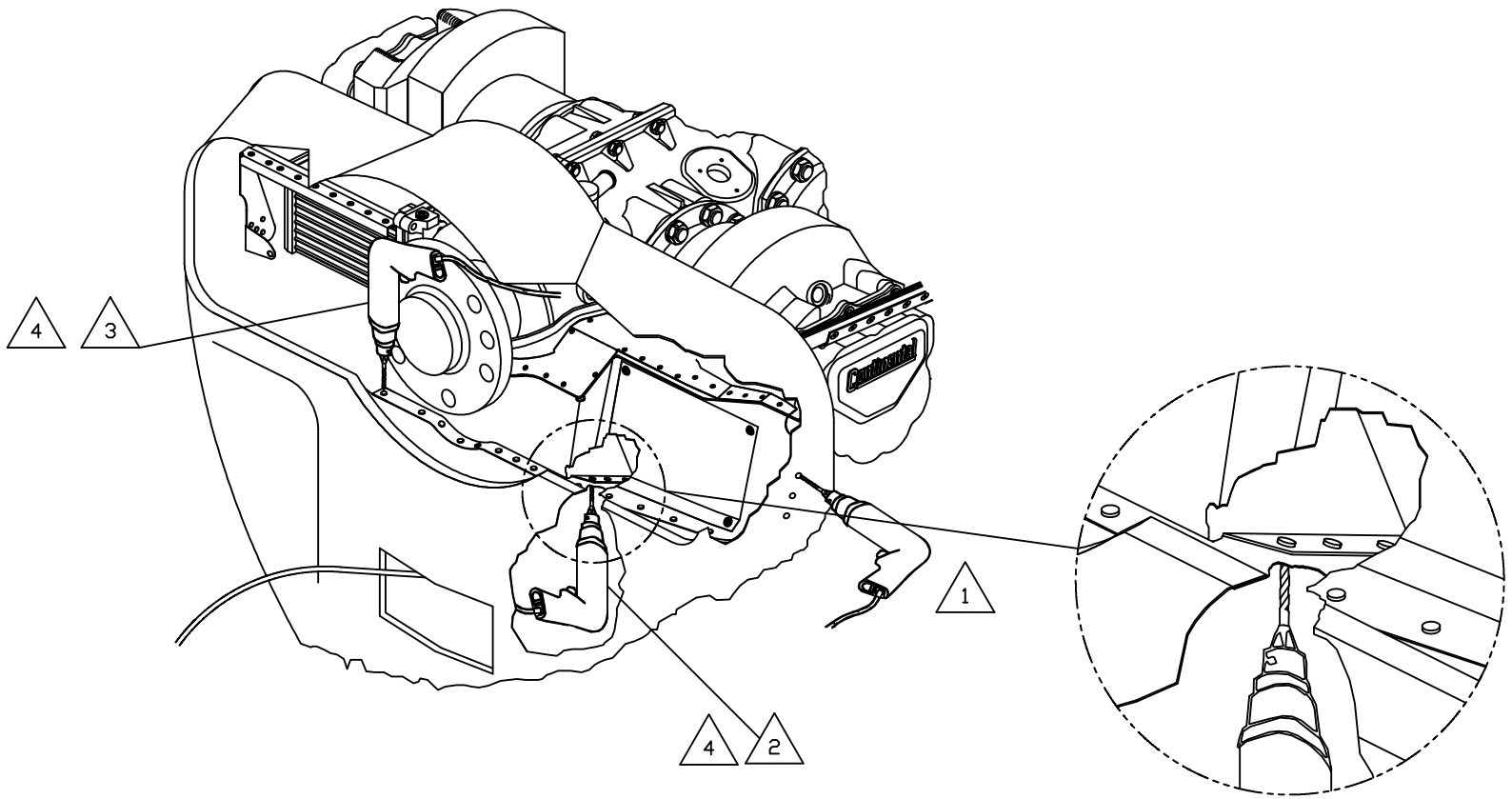
1 REMOVE ALL OLD BAFFLING FROM THE ENGINE (IF APPLICABLE). USE THE UTMOST CARE TO AVOID DAMAGING ENGINE GASKETS IN THE NEXT STEPS: REMOVE THE PROP GOVERNOR. COVER THE PROP GOVERNOR PORTS SECURELY. IN ORDER TO REMOVE THE OLD BAFFLES AND INSTALL THE NEW ONES ON THE FIFTH AND SIXTH CYLINDER (IF APPLICABLE) IT WILL BE NECESSARY TO REMOVE SOME OF THE VALVE COVER SCREWS.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	REMOVAL OF THE PROP. GOVERNOR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-5 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 1 OF 1

OPTION "A"

(TO BE USED WITH AN INSTALLED ENGINE)

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10
A	ADDED NOTE 7	L. L.	03/02/16



7 ANOTHER OPTION IS TO "SCORE" BAFFLE AT BEND POINT WITH A SHARP CARPENTERS KNIFE. GENTLY ROCK BAFFLE BACK AND FORTH UNTIL IT BREAKS, ALLOWING BETTER ACCESS TO THE RIVETS. CAREFULLY GRIND RIVET HEADS WITH A RIGHT ANGLE DIE-GRINDER

4 COVER THE HOLES MADE WHILE REMOVING RIVETS WITH ALUMINUM TAPE. MAKE SURE THAT ANY NOSE AREA THAT WILL BE IN CONTACT WITH THE TAP IS FREE OF DUST, DIRT OR ANY OTHER CONTAMINATES.

3 TO REMOVE THE INSIDE SOLID RIVETS GAIN ACCESS THROUGH THE NOSE AIR ENTRANCE AS SHOWN.

2 TO REMOVE THE SOLID RIVETS SHOWN GAIN MORE SPACE FOR THE DRILL BY LIFTING THE NOSE FLANGE GENTLY.

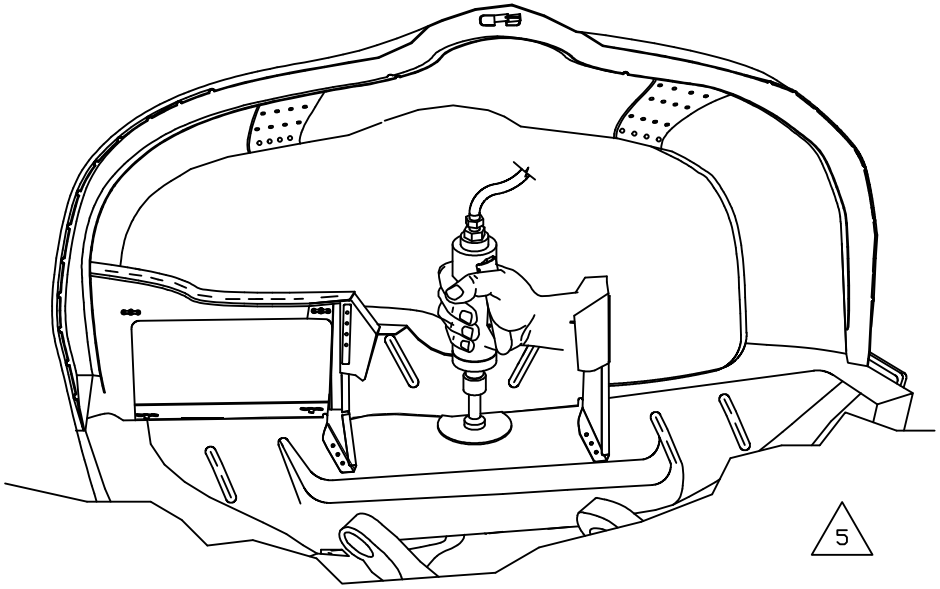
1 REMOVE THE OLD SOLID RIVETS AND REPLACE WITH COUNTERSUNK RIVETS OF THE SAME SIZE.

NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	REMOVE ORIG. BAFFLE NOSE	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD	
	DWG. No. DSP-IM97-1-6	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 1 OF 2

OPTION "B"

(TO BE USED IF THE ENGINE IS NOT INSTALLED)



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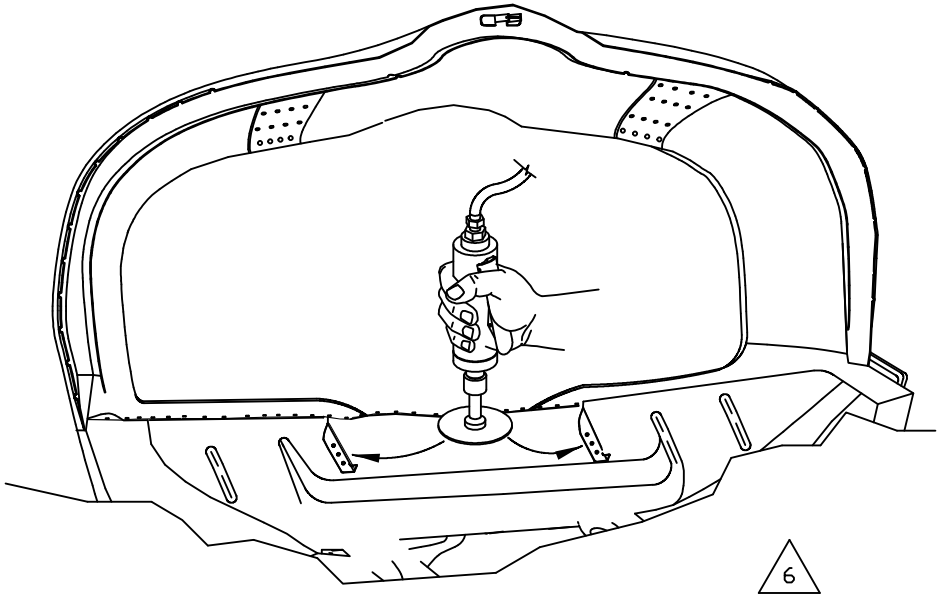


6

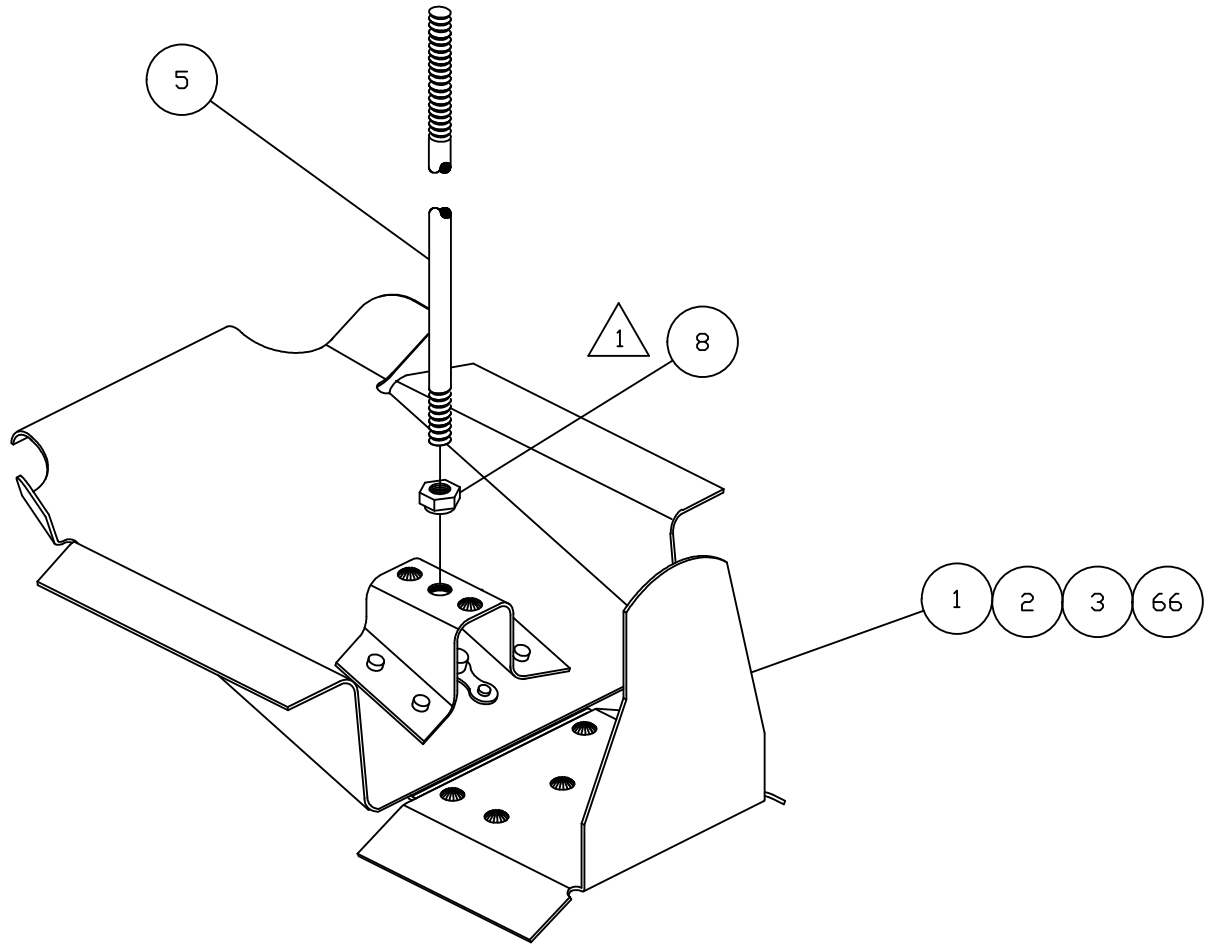
6 USING A CUTTING TOOL, REMOVE ALL SHARP EDGES AND BURRS. SMOOTH ALL THE EDGES WITH A FILE.

5 CUT THE ORIGINAL BAFFLES AS CLOSE AS POSSIBLE TO THE NOSE SURFACE. WARNING: DO NOT DAMAGE THE NOSE SURFACE WHILE CUTTING OFF THE OLD BAFFLES.

NOTES:

NEXT ASSY:	REMOVE ORIG. BAFFLE NOSE
DRAWN BY: D. B.	
ENGINEER: R. R.	
CHECKED BY: L. L.	
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-6 REVISION A
	SCALE: NONE DATE 03/02/16 SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10
A	ADDED 1 QTY TO ITEM 72	L. L.	03/02/16



ITEM	QTY	PART No.	DESCRIPTION
72	2	242013	LINE SUPPORT
66	1	47I-A04	INNER CYL. BOTTOM SLOT BAFFLE ASSY
63	A. R.	G. E. SILICONE II	SILICONE SEALANT
8	4	NAS679A3	LOW HEIGHT HEX LOCKNUT
7	4	MS21042-3	REDUCED DIMENSION LOCKNUT
6	4	AN960-10	FLAT WASHER
5	4	244093	ROD CONNECTOR CYLINDER INNER
4	4	244052	SUPPORT ENGINE BAFFLE
3	1	47I-A03	INNER CYL. BOTTOM SLOT BAFFLE ASSY
2	1	47I-A02	INNER CYL. BOTTOM BAFFLE ASSY
1	1	47I-A01	INNER CYL. BOTTOM BAFFLE ASSY

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: R. R.
CHECKED BY: L. L.

INSTALLATION BAFFLE INNER CYLINDER

TOLERANCES
.X___.10 .XXX___.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

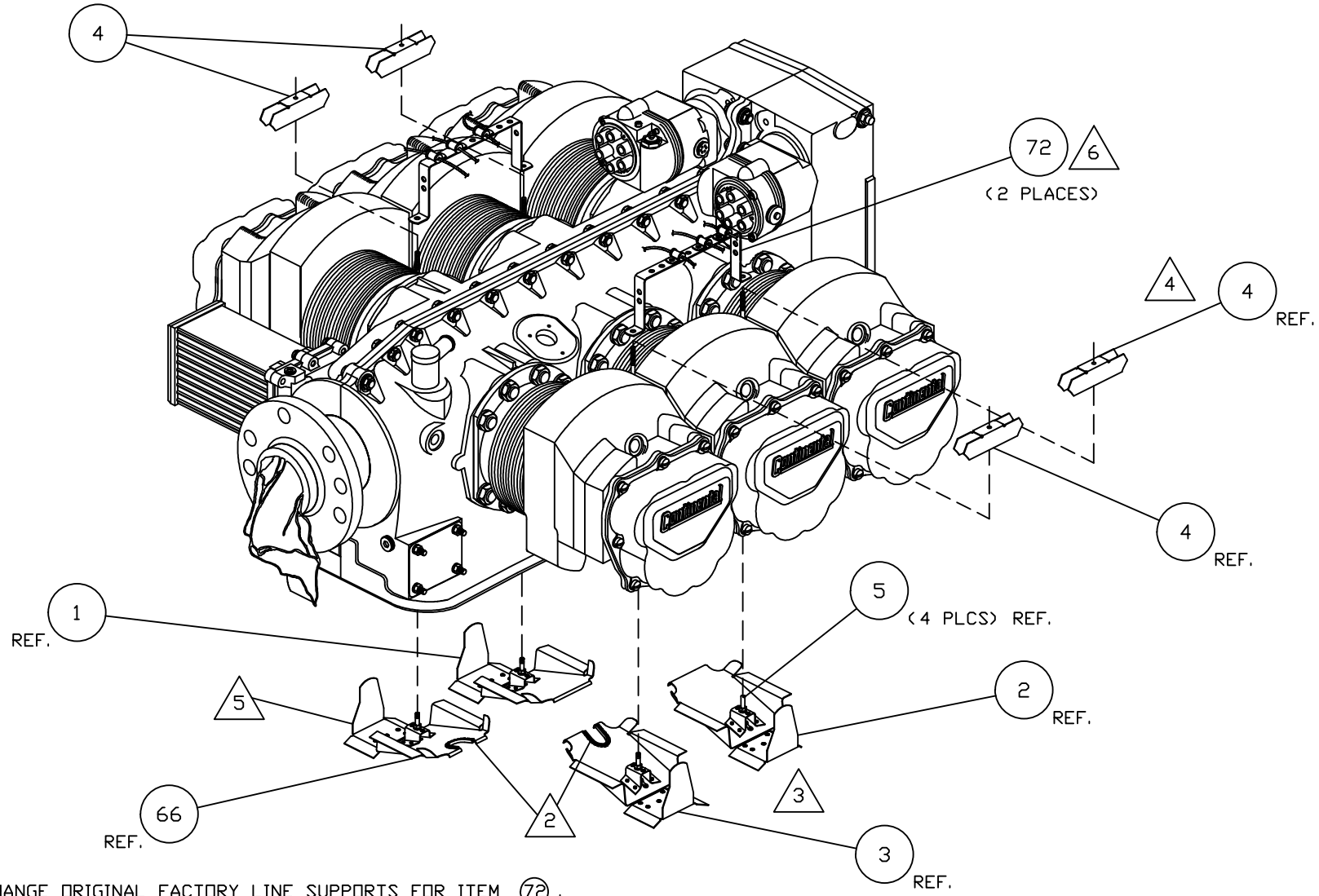
D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-7 | REVISION A

SCALE: NONE | DATE 03/02/16 | SH 1 OF 5

NOTES:

1. INSTALL LOCKNUT ITEM (8) ON THE END OF ROD ITEM (5) AND HAND TIGHTEN. INSTALL ITEM (5) TO ITEM (1) AS SHOWN. REPEAT FOR ITEMS (2), (3) AND (66).



6 EXCHANGE ORIGINAL FACTORY LINE SUPPORTS FOR ITEM (72).

5 REFERENCE SH. 5 OF 5 FOR CORRECT INSTALLATION OF THE INNER CYLINDER BAFFLES.

4 INSTALL SUPPORTS ITEM (4) ONTO THE RODS ITEM (5). REFERENCE SH. 3 OF 5 AND 4 OF 5.

3 FASTEN RODS ITEM (5) INTO PLATE NUTS BEFORE POSITIONING INNER CYLINDER BAFFLE ITEMS (1), (2), (3) AND (66) BETWEEN CYLINDERS.

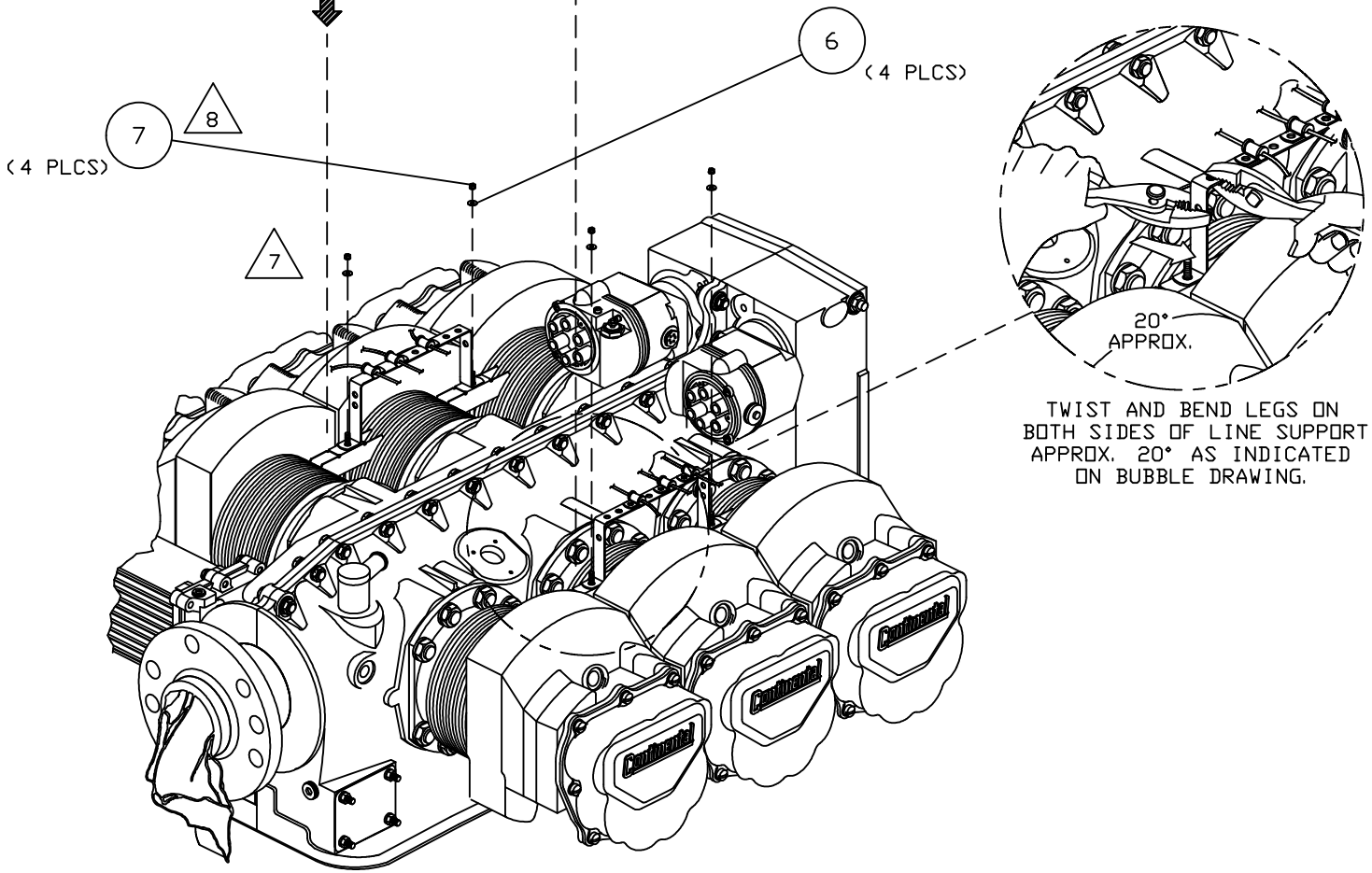
2 A CATERPILLAR GROMMET IS FACTORY INSTALLED ON ITEM (3) AND (66) WHERE THE FUEL LINE PASSES THROUGH THE INNER CYLINDER BAFFLE. DO NOT PROCEED IF THE GROMMET IS MISSING. CALL CUSTOMER SUPPORT.

NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION BAFFLE INNER CYLINDER	
TOLERANCES .X___.10 .XXX___.01 .XX__.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*	
	DWG. No. DSP-IM97-1-7	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 2 OF 5

VIEW "B" (TOP VIEW) (SEE SH. 4 OF 5)
VIEW "C" (BOTTOM VIEW) (SEE SH 5 OF 5)

VIEW "A"
(TOP VIEW)
(SEE SH. 4 OF 5)



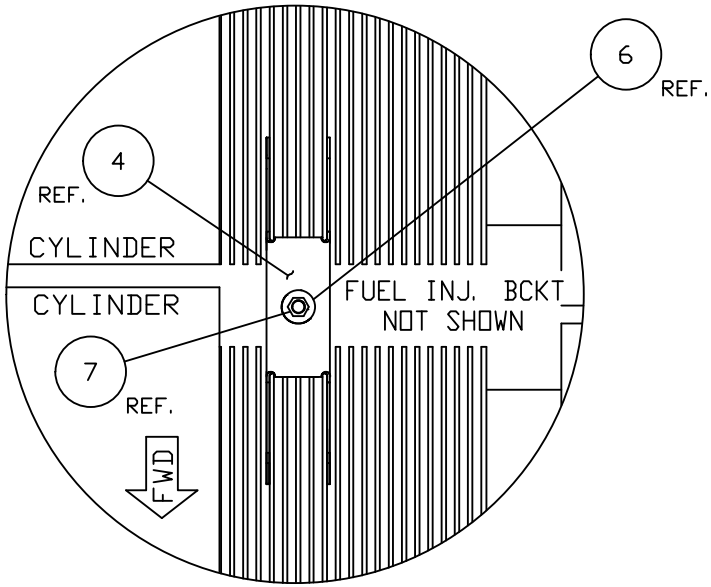
TWIST AND BEND LEGS ON BOTH SIDES OF LINE SUPPORT APPROX. 20° AS INDICATED ON BUBBLE DRAWING.

8 TIGHTEN LOCKNUT ITEM (7).

7 FASTEN LINE SUPPORTS ONTO THE INNER CYLINDER ROD CONNECTOR USING ITEM (6) AND (7) AND TIGHTEN AS SHOWN. FOR ADDITIONAL REFERENCE SEE SH. 4 OF 5.

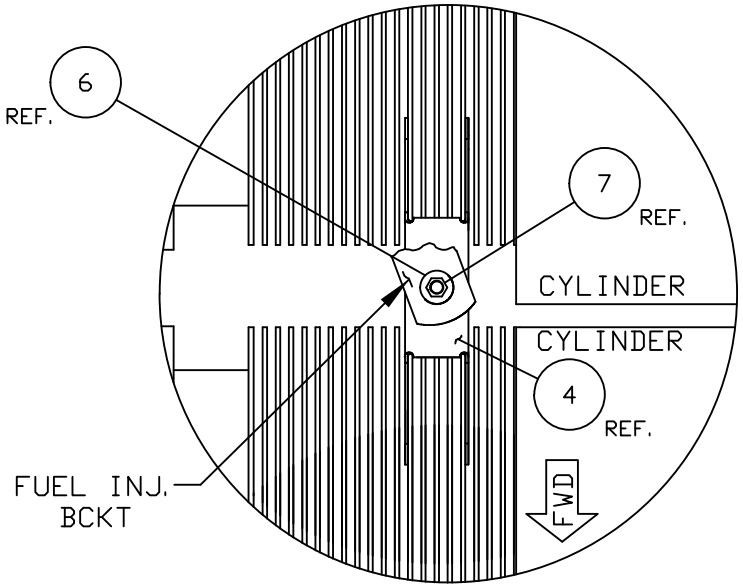
NOTES:

NEXT ASSY:	INSTALLATION BAFFLE INNER CYLINDER
DRAWN BY: D. B.	
ENGINEER: R. R.	
CHECKED BY: L. L.	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-7 REVISION A
	SCALE: NONE DATE 03/02/16 SH 3 OF 5



VIEW "A"

VIEW "A" FROM SHEET 3 OF 5
POSITIONING OF BAFFLE
CYL. #1 AND #3, CYL. #3 AND #5



VIEW "B"

VIEW "B" FROM SHEET 3 OF 5
POSITIONING OF BAFFLE
CYL. #2 AND #4, CYL. #4 AND #6

7 8

8 TIGHTEN LOCKNUT ITEM (7).

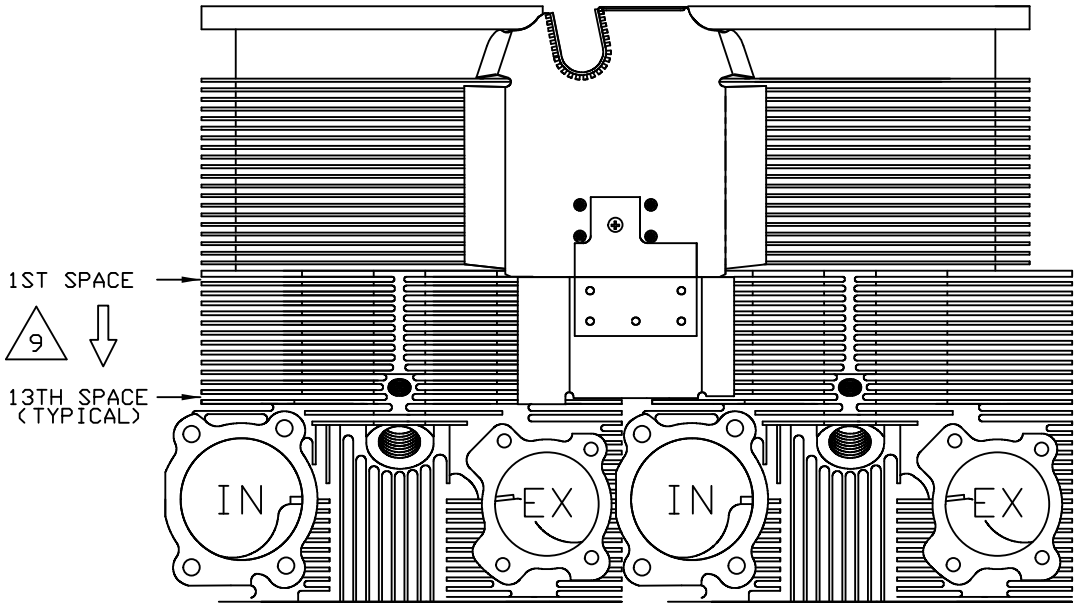
7 FASTEN LINE SUPPORTS ONTO THE INNER CYLINDER ROD CONNECTOR USING ITEM (6) AND (7) AND TIGHTEN AS SHOWN. FOR ADDITIONAL REFERENCE SEE SH. 4 OF 5.

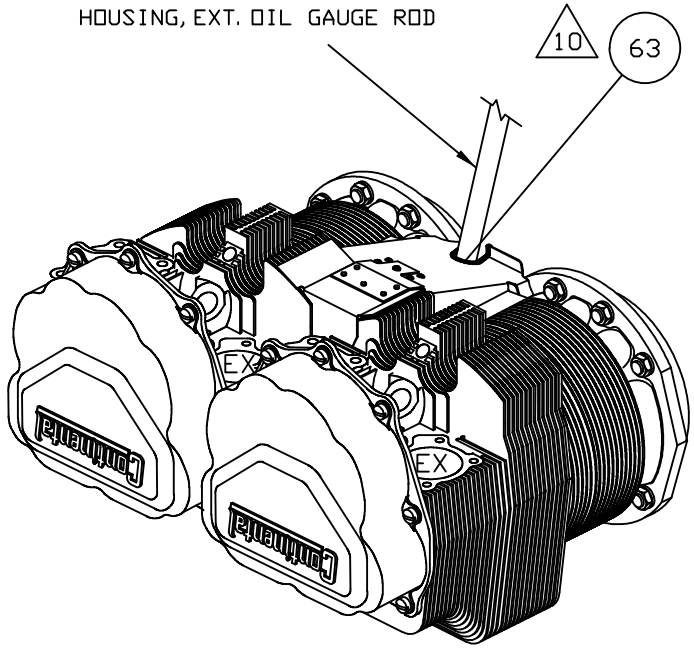
NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION BAFFLE INNER CYLINDER	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*	
	DWG. No. DSP-IM97-1-7	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 4 OF 5

VIEW "C"

VIEW "C" FROM SHEET 3 OF 5
(TYPICAL INSTALLATION FOR ALL BOTTOM
INNER CYLINDER BAFFLES)





10 APPLY SILICONE SEALANT ITEM (63) TO GAPS BETWEEN ENGINE CASE AND AROUND THE AREA IN WHICH THE HOSE AND VENT LINE INTERCEPT. ALL INNER CYLINDER BAFFLES REQUIRE THAT ALL GAPS BETWEEN THE CASE AND THE INNER CYLINDER BAFFLE BE SEALED WITH SILICONE.

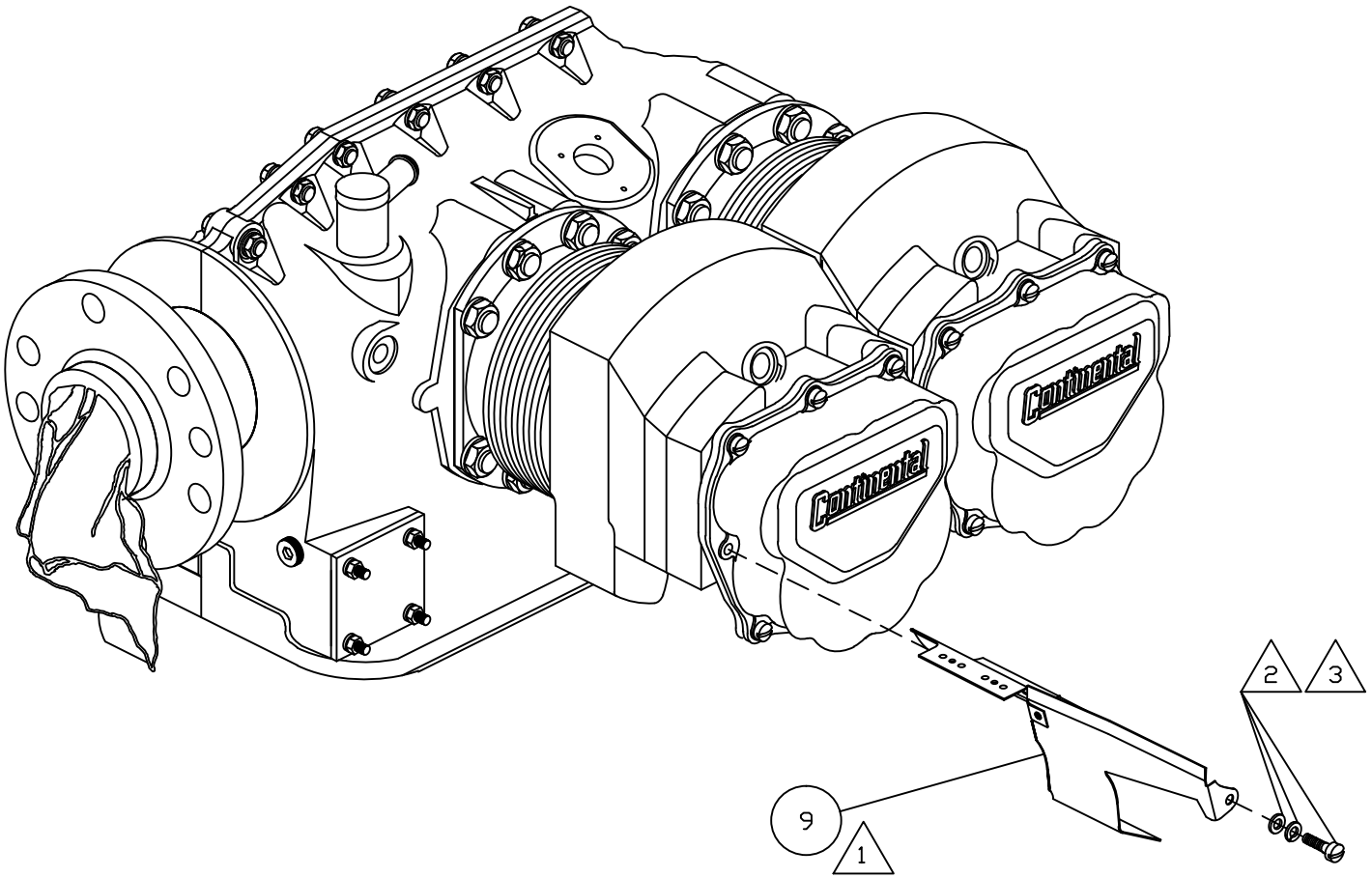
9 INSERT INNER CYLINDER BOTTOM BAFFLE FLANGE IN THE 13TH COOLING FIN SPACE AS SHOWN.

1. - CYLINDERS VIEWED UPSIDE DOWN

NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION BAFFLE INNER CYLINDER	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*	
	DWG. No. DSP-IM97-1-7	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 5 OF 5

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



NOTES:

3 TORQUE ROCKER COVER TO 45 TO 55 IN/LB (PER TCM SPECS.) INSTALLATION OF AFTER-MARKET ROCKER COVER GASKETS MAY REQUIRE SPECIAL TORQUE SPECS.

2 ORIGINAL HARDWARE.

1 REMOVE THE ROCKER COVER SCREW AS SHOWN. INSTALL ITEM (9) ONTO THE #6 CYLINDER BEHIND THE PROP GOVERNOR. LINE UP ITEM (9) TIGHTLY AGAINST THE CYLINDER AND THE CYLINDER BARREL. REINSTALL THE PREVIOUSLY REMOVED ROCKER COVER SCREW.

ITEM	QTY	PART No.	DESCRIPTION
9	1	47F-A04	BAFFLE FRONT ASSEMBLY

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

INSTL FRONT CYLINDER BAFFLE ASSY

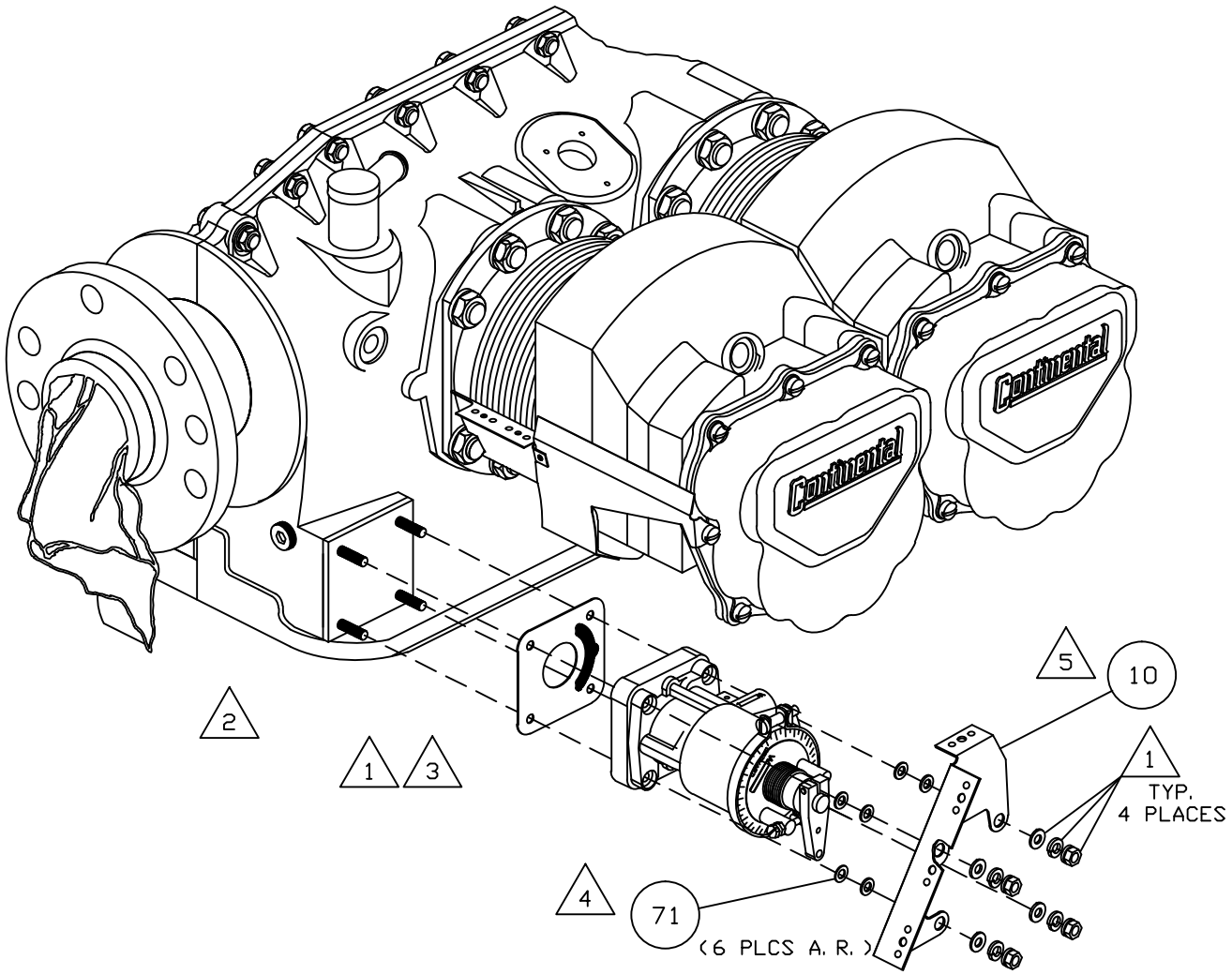
TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-9 | REVISION NC

SCALE: NONE | DATE 05/15/10 | SH 1 OF 1

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



NOTES:

1. ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).
2. REMOVE PROP GOVERNOR COVER PRIOR TO INSTALLING THE PROP GOVERNOR.
3. INSTALL NEW SCREENED PROP GOVERNOR GASKET.
4. WASHER ITEM (71) IS USED TO SUPPORT BRACKET ITEM (10) ONLY IF THE GOVERNOR HAS A RECESSED AREA WHERE THE BRACKET ITEM (10) MOUNTS. INSTALL AS SHOWN.
5. INSTALL ITEM (10) ONTO STUDS. LOCK PROP GOVERNOR, INSTALL NUTS AND LOCK WASHERS AND TORQUE AS PER BEECHCRAFT SHOP MANUAL.

ITEM	QTY	PART No.	DESCRIPTION
71	6	AN960-516L	FLAT WASHER
10	1	47F-A03	BRACKET FRONT ASSEMBLY

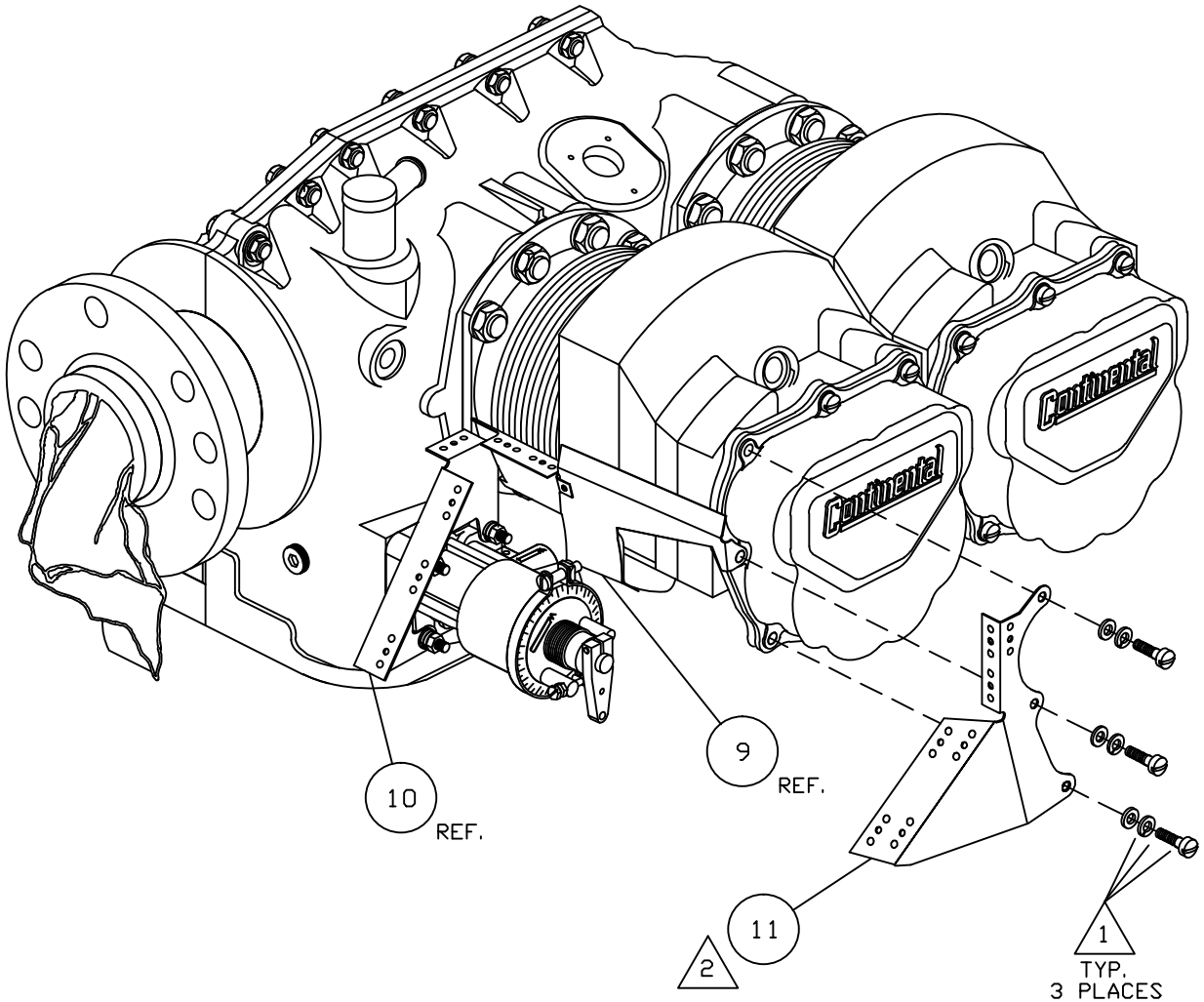
NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

REINSTALLATION PROP GOVERNOR W/ BRACKET

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-10 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 1



REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10

ITEM (9) IS REFERENCED FROM DSP-IM97-1-9, SHEET 1.

ITEM (10) IS REFERENCED FROM DSP-IM97-1-10, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
14	12	AN526C632R6	TRUSS HEAD MACHINE SCREW
13	1	47F-001	BAFFLE FRONT
12	1	47F-A01	BAFFLE FRONT ASSEMBLY
11	1	47F-A02	BRACKET FRONT ASSEMBLY

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

INSTALLATION BAFFLE FRONT LEFT

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

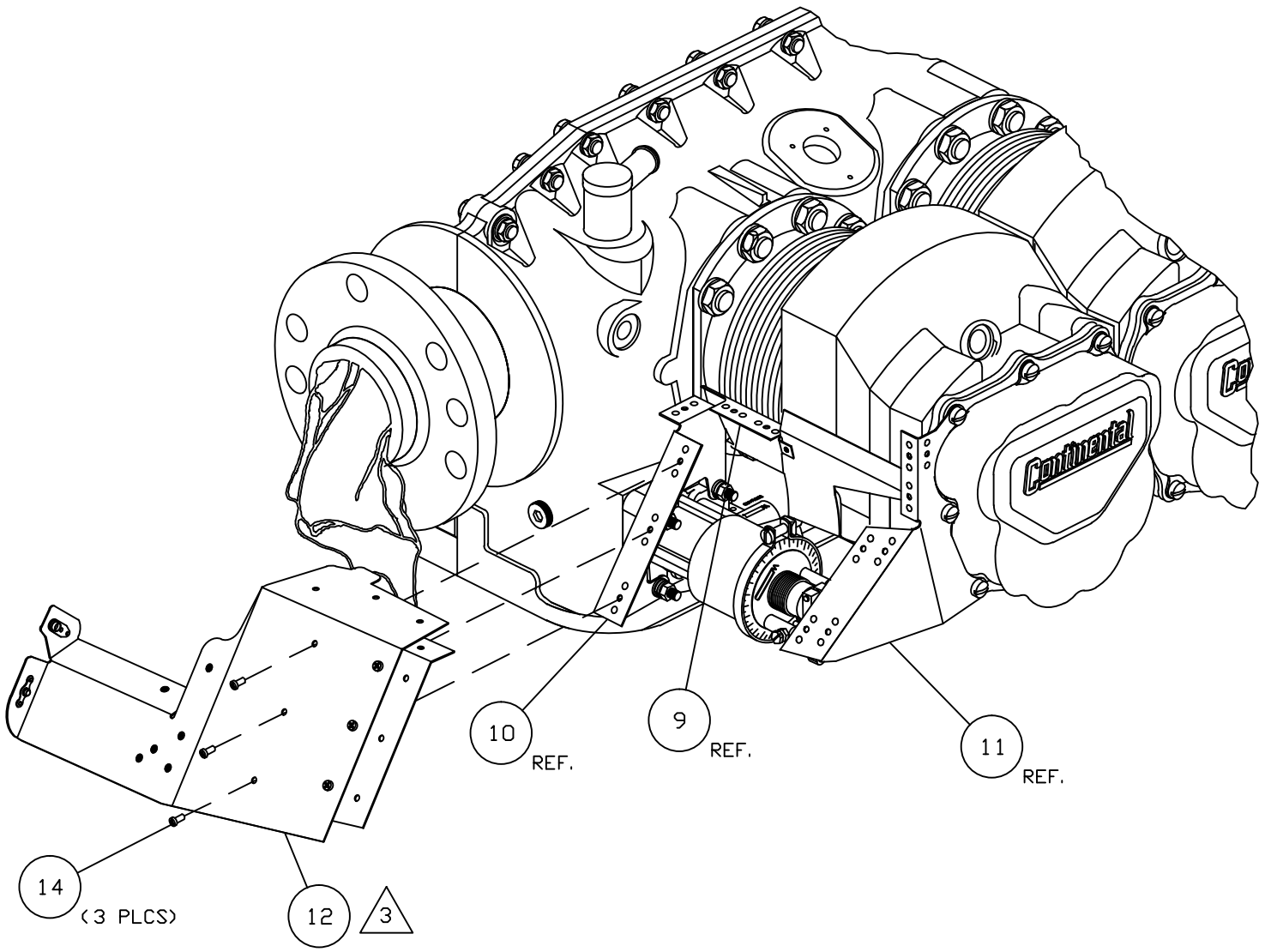
D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-11 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 4

NOTES:

2 INSTALL ITEM (11) USING ORIGINAL HARDWARE AND TIGHTEN PER BEECHCRAFT SHOP MANUAL.

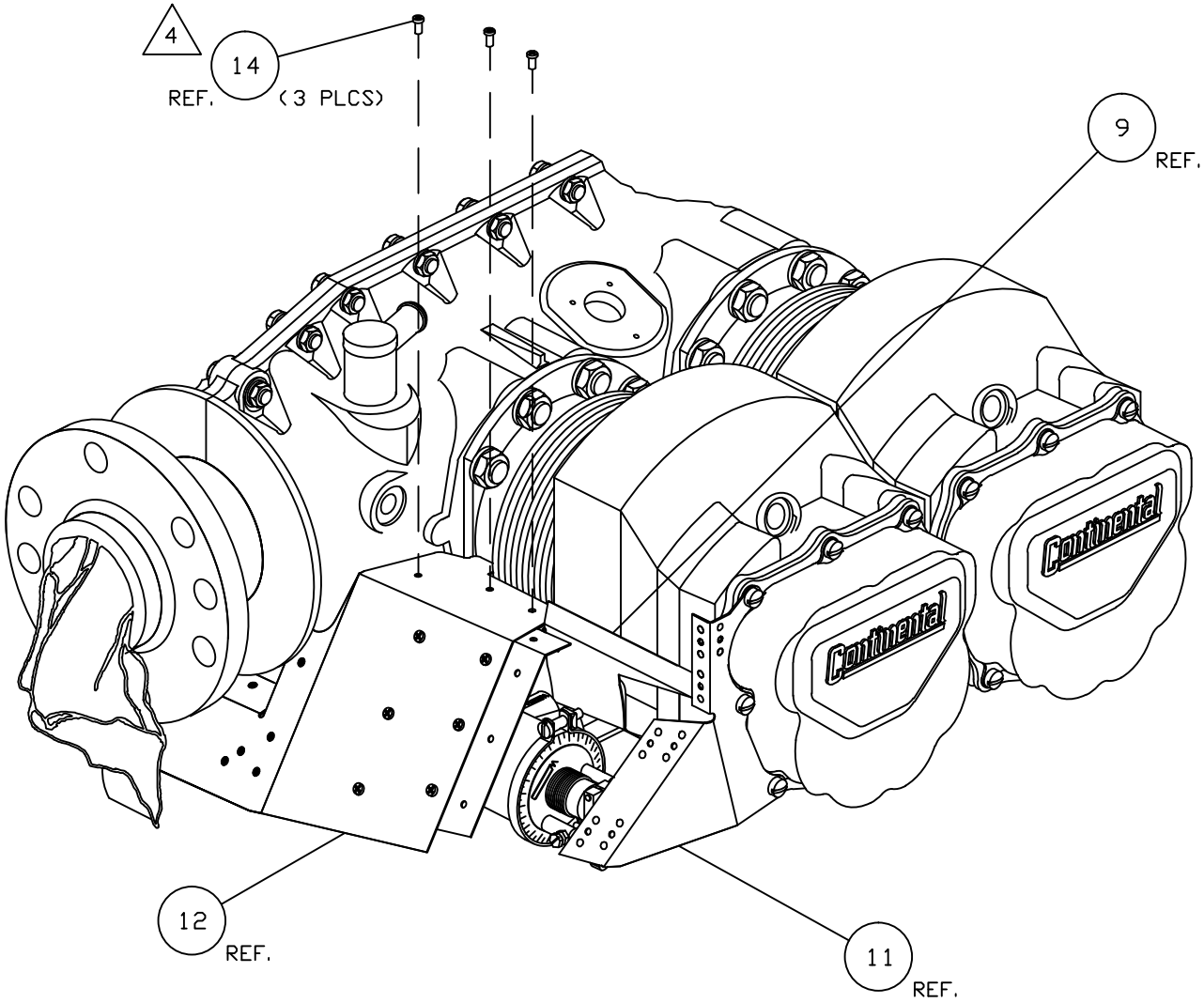
1 ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).



NOTES:

3 INSTALL ITEM (12) AS SHOWN USING ITEM (14).

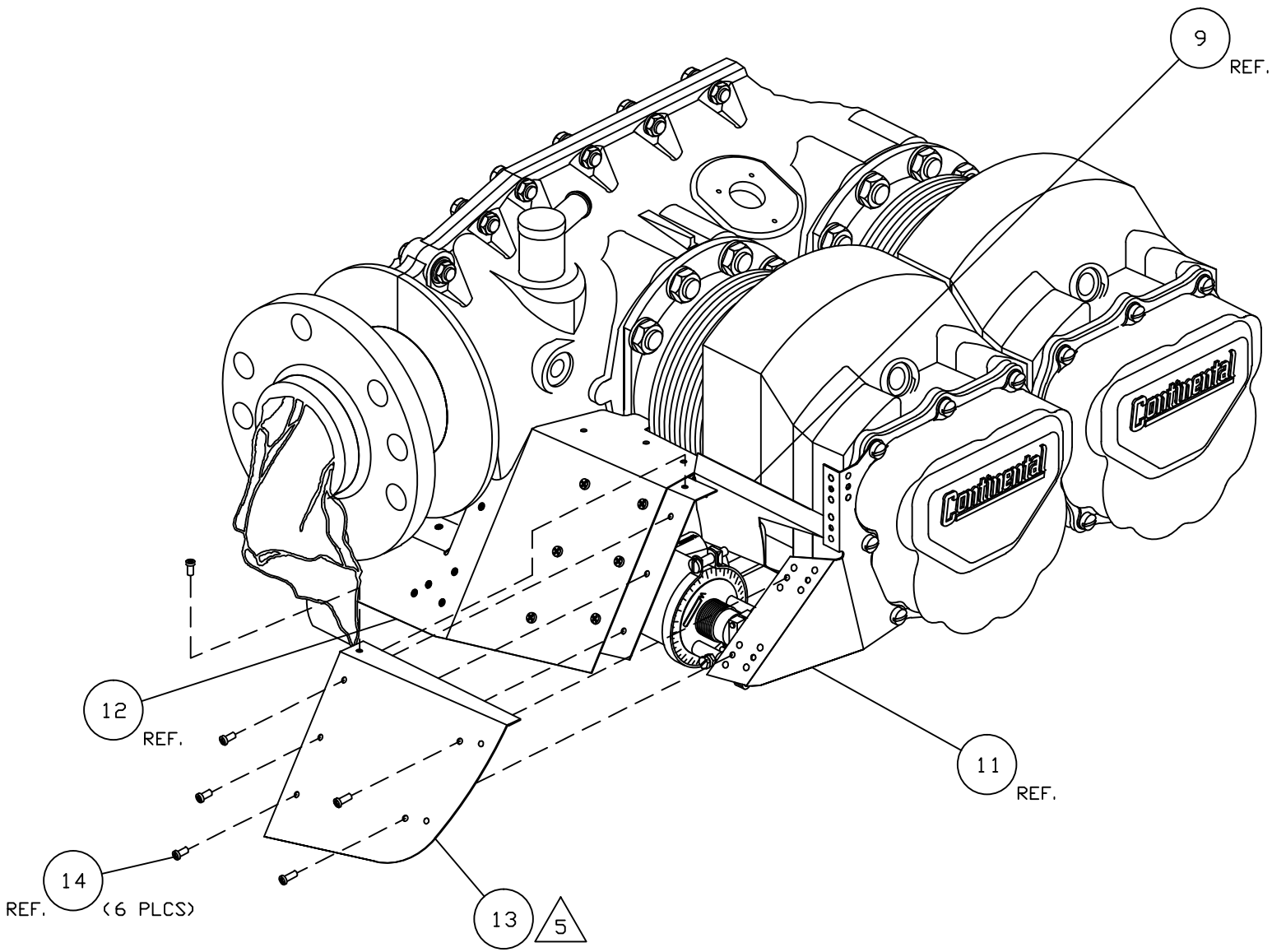
NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE FRONT LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-11	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 2 OF 4



NOTES:

4 INSTALL ITEM (14) THROUGH ITEM (12) AND FASTEN TO BRACKET PLATE NUTS.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE FRONT LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-11 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 4

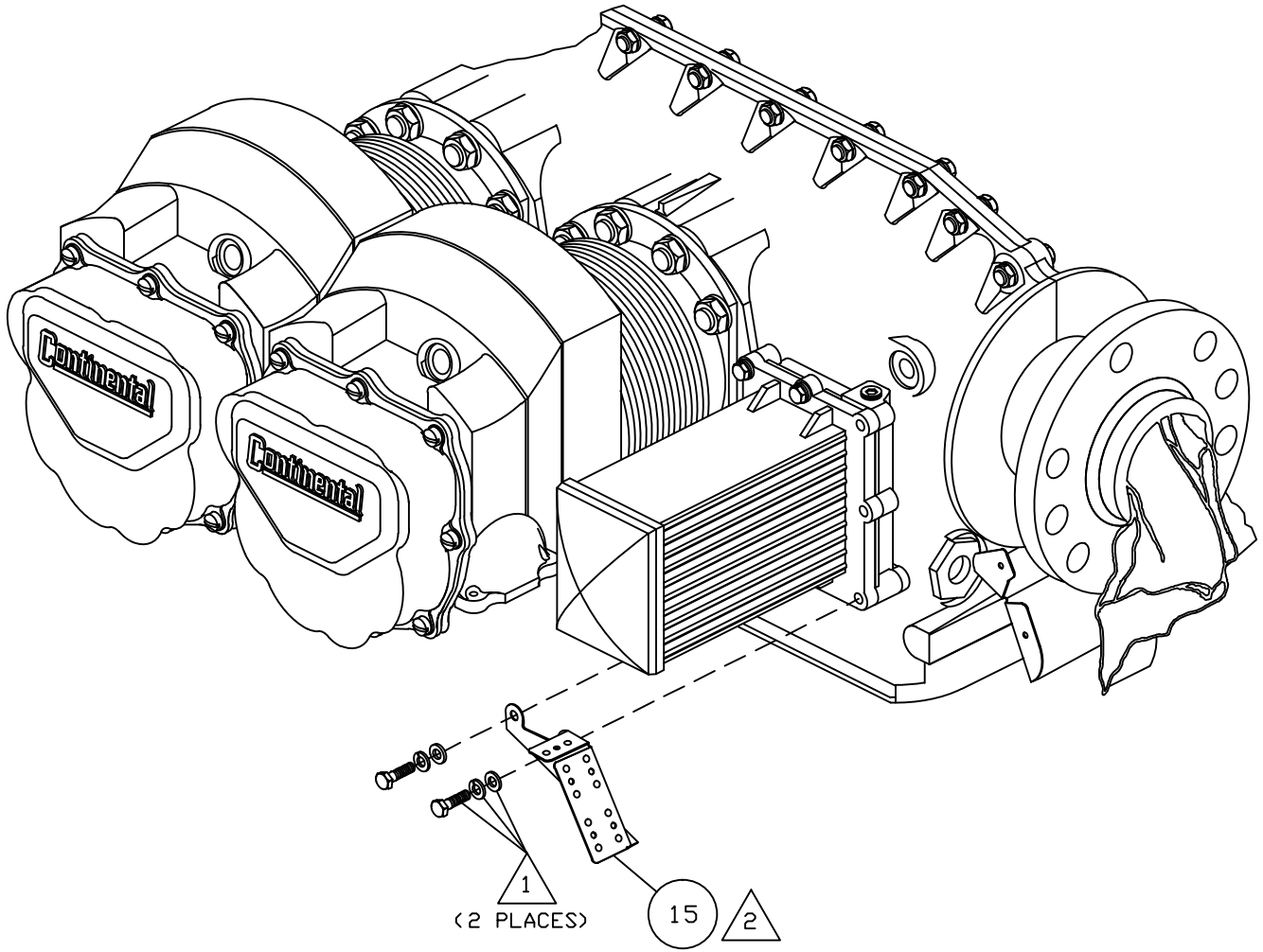


NOTES:

5 INSTALL ITEM (13) AS SHOWN USING ITEM (14).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE FRONT LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-11 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 4 OF 4

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



ITEM	QTY	PART No.	DESCRIPTION
42	2	AN960C6	FLAT WASHER
20	1	470C-A01	BAFFLE OIL COOLER ASSEMBLY
19	1	470C-007	BAFFLE OIL COOLER
18	1	470C-001	BAFFLE OIL COOLER
17	1	470C-A03	BRACKET OIL COOLER ASSEMBLY
16	1	470C-A02	BRACKET OIL COOLER ASSEMBLY
15	1	470C-A04	BRACKET OIL COOLER ASSEMBLY
14	7	AN526C632R6	TRUSS HEAD MACHINE SCREW

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

INSTALLATION OIL COOLER BAFFLE

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

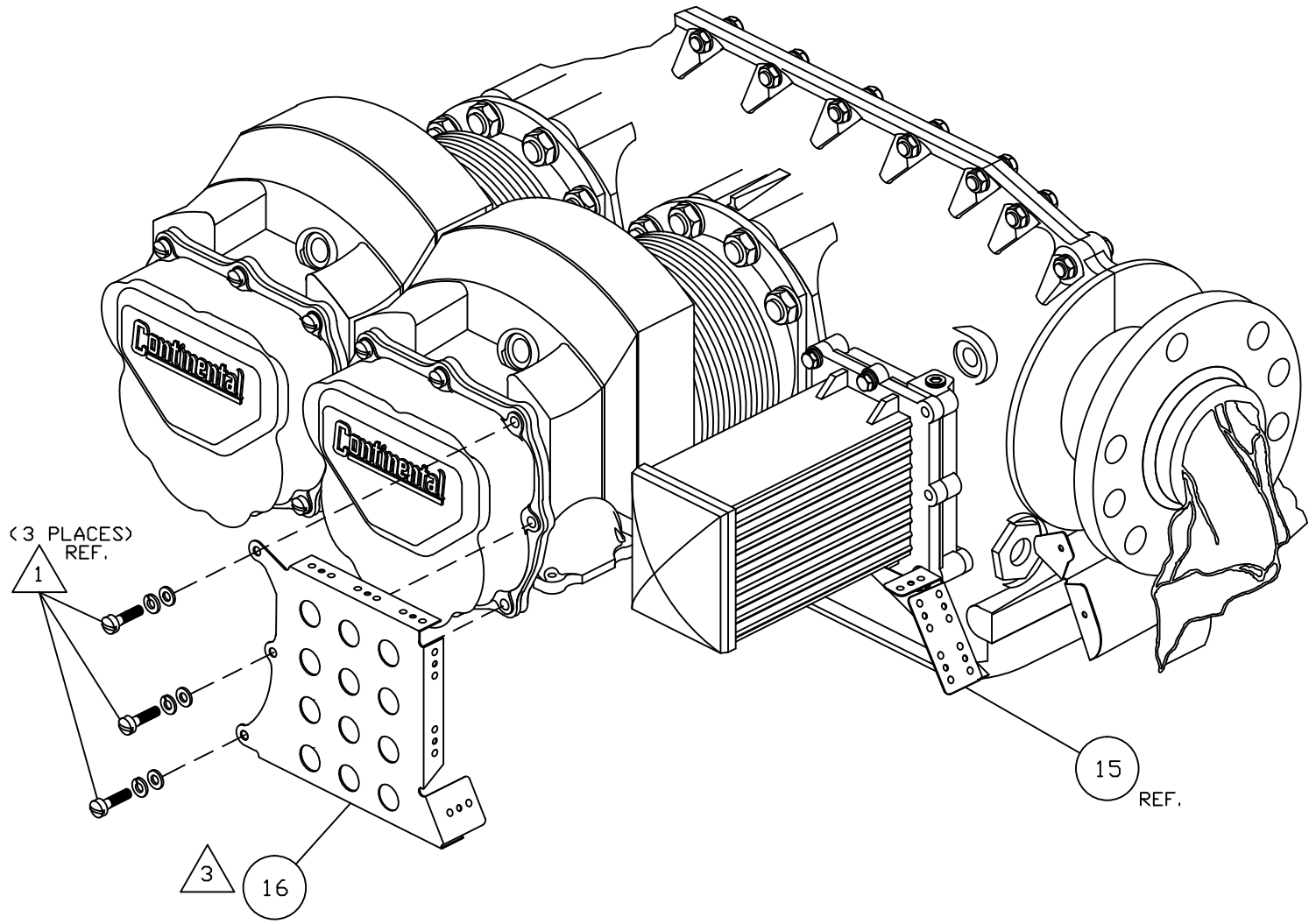
D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-12 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 6

NOTES:

2 INSTALL ITEM (15) USING ORIGINAL HARDWARE. TIGHTEN PER BEECHCRAFT SHOP MANUAL.

1 ORIGINAL HARDWARE (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).

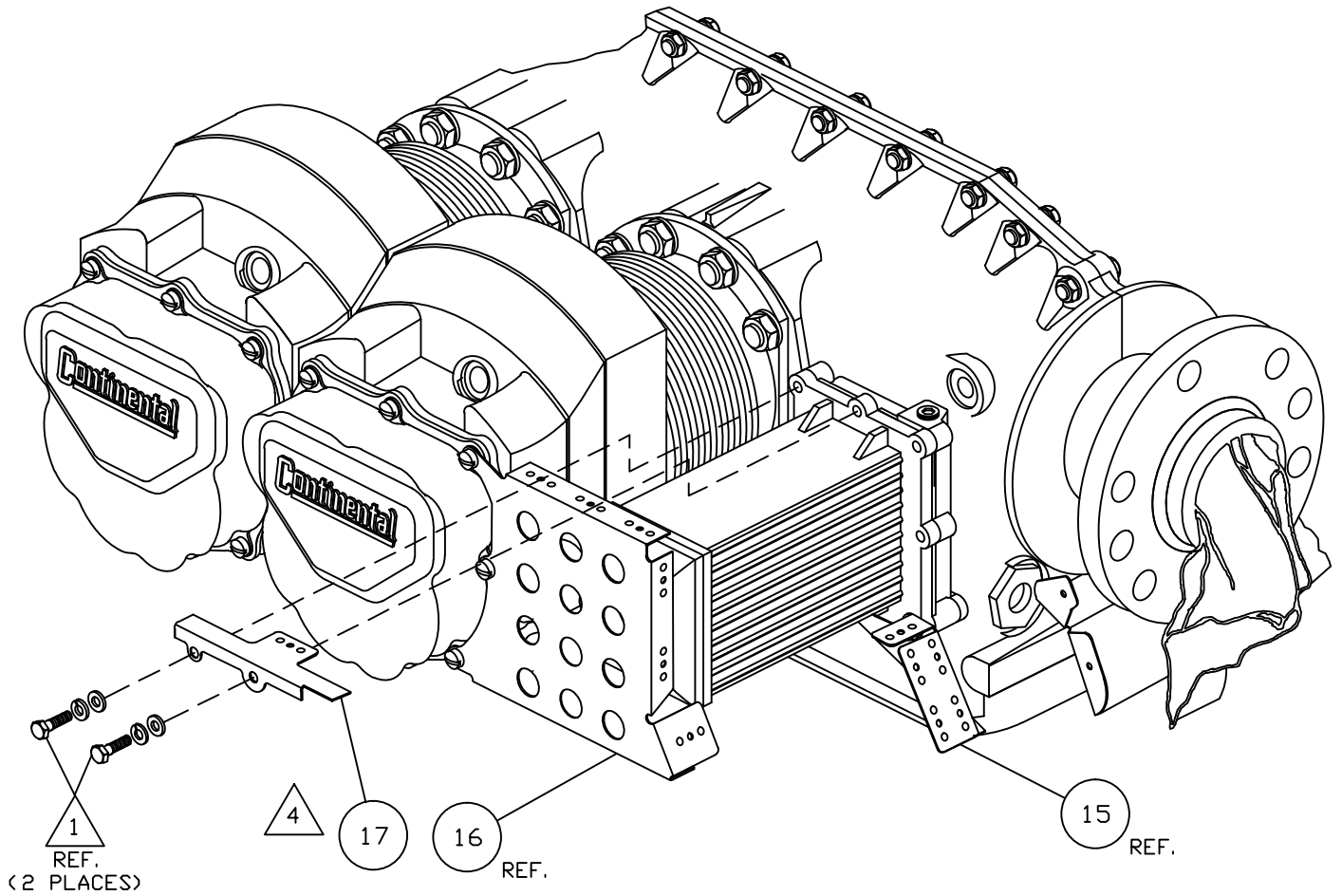


NOTES:

△3 INSTALL ITEM (16) USING ORIGINAL HARDWARE. TIGHTEN PER BEECHCRAFT SHOP MANUAL.

△1 ORIGINAL HARDWARE (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION OIL COOLER BAFFLE
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-12 | REVISION NC
	SCALE: NONE | DATE 05/15/10 | SH 2 OF 6

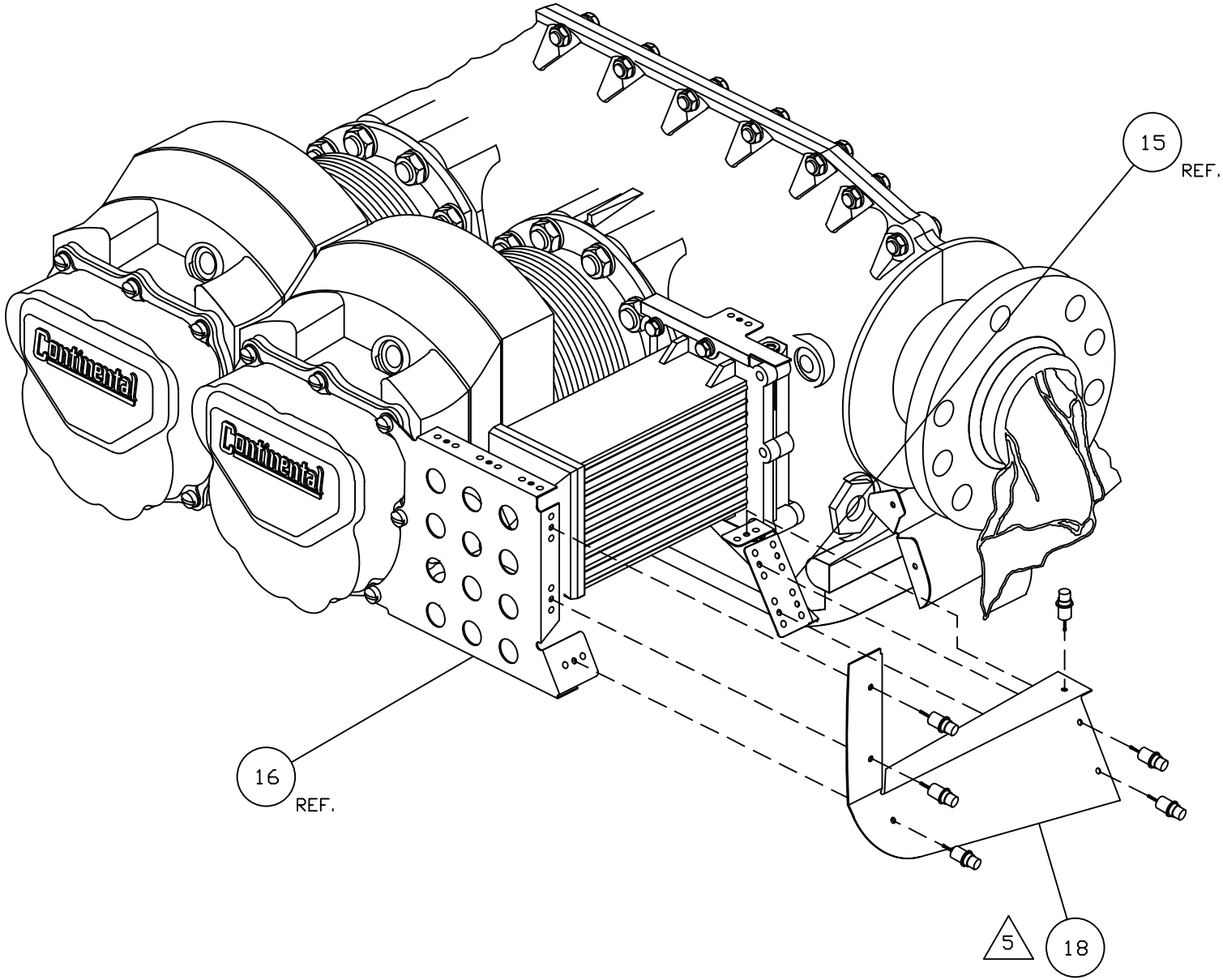


NOTES:

4 INSTALL ITEM (17) USING ORIGINAL HARDWARE. TIGHTEN PER BEECHCRAFT SHOP MANUAL.

1 ORIGINAL HARDWARE (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).

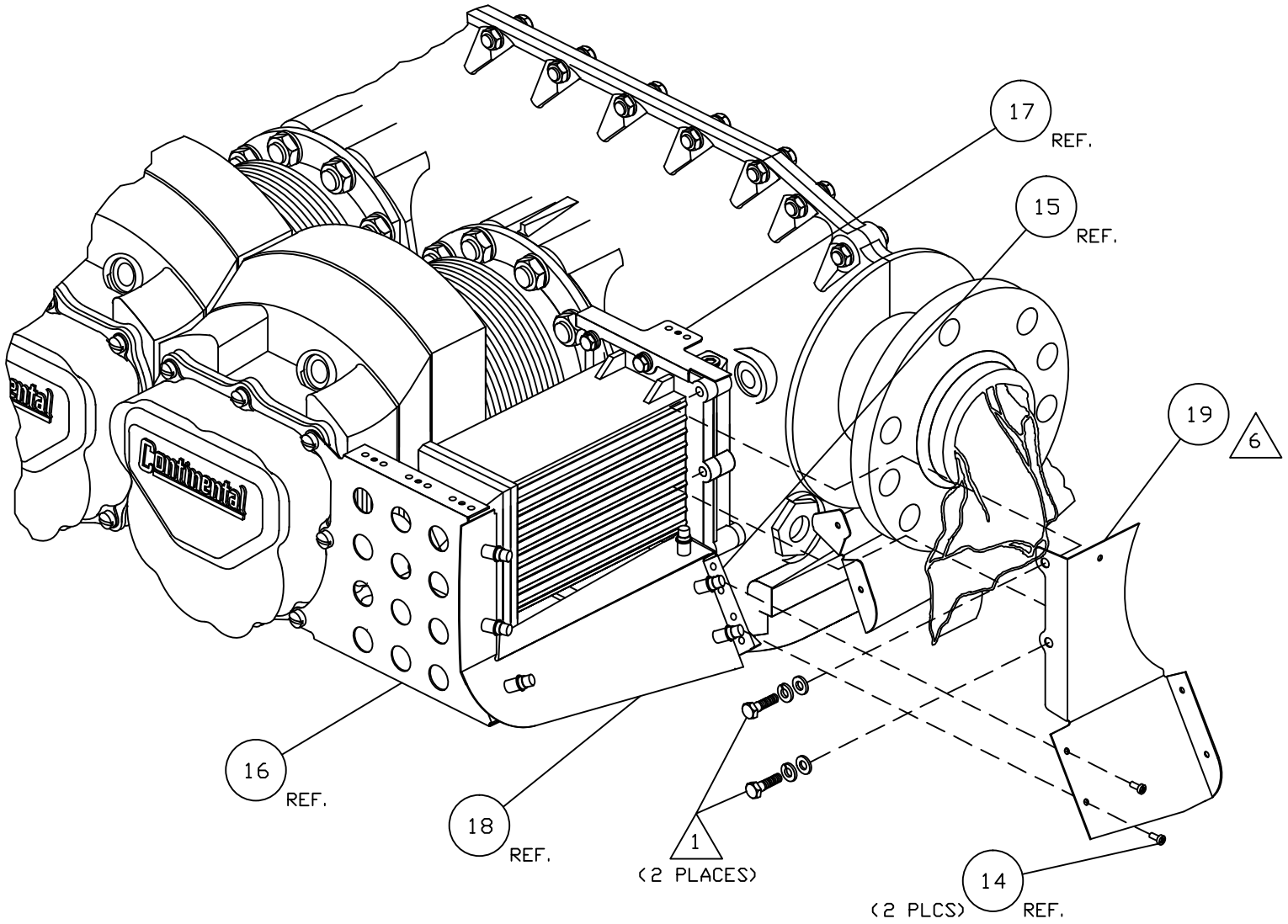
NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION OIL COOLER BAFFLE
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-12 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 6



NOTES:

5 CLECO IN PLACE ITEM (18) ONTO ITEMS (15) AND (16) AS SHOWN.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION OIL COOLER BAFFLE
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-12 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 4 OF 6

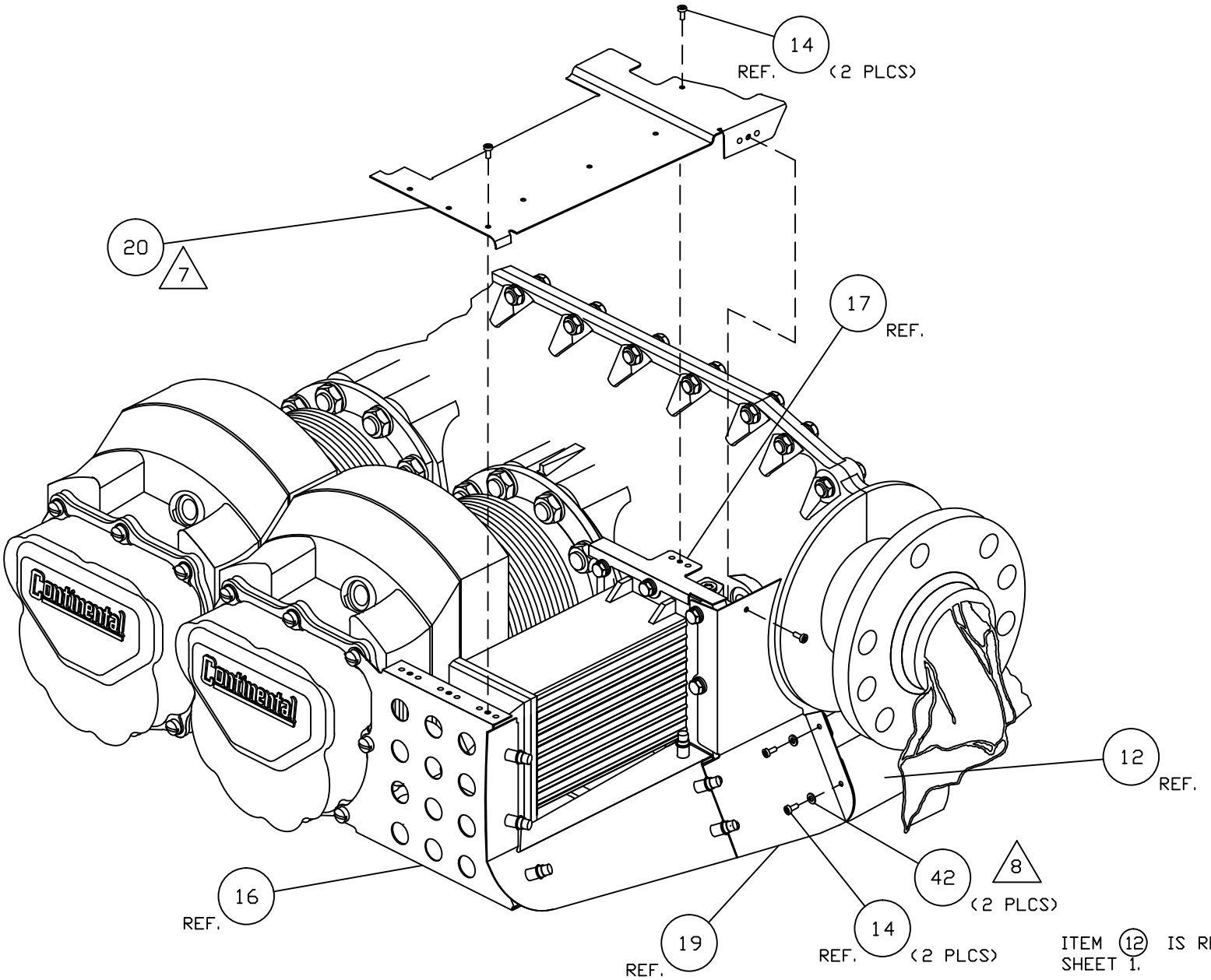


NOTES:

6 INSTALL ITEM (19) ONTO ITEM 15 AS SHOWN, USING ITEM (14) AND ORIGINAL HARDWARE. TIGHTEN PER BEECHCRAFT SHOP MANUAL.

1 ORIGINAL HARDWARE (FOR TORQUE VALUES SEE BEECHCRAFT SHOP MANUAL).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION OIL COOLER BAFFLE
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-12	REVISION NC
SCALE: NONE	DATE 05/15/10 SH 5 OF 6



ITEM (12) IS REFERENCED FROM DSP-IM97-1-11, SHEET 1.

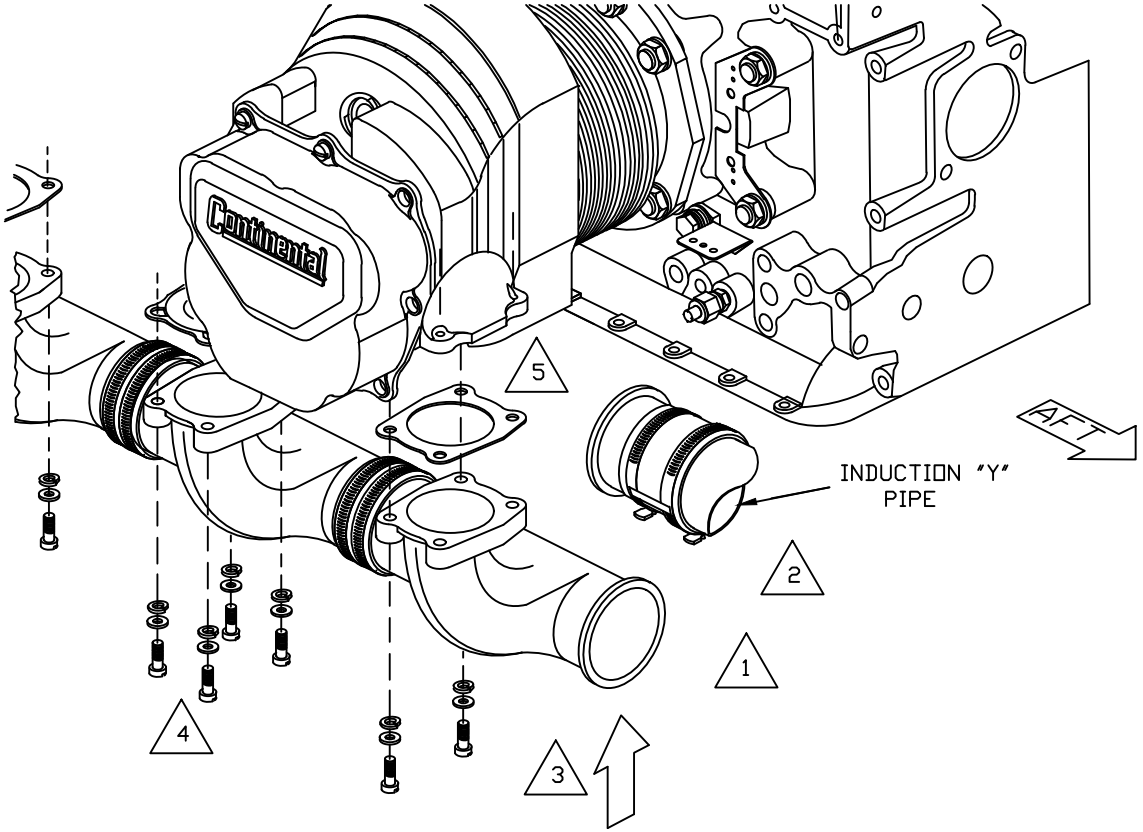
NOTES:

8 INSTALL ITEM (14) THROUGH ITEM (42), (19) AND (12) AS SHOWN.

7 INSTALL ITEM (20) ONTO ITEMS (19), (16) AND (17) AS SHOWN USING ITEM (14).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION OIL COOLER BAFFLE
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
DWG. No. DSP-IM97-1-12	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 6 OF 6

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	K. S.	04/24/09
A	MOVED NOTES. REMOVED SH 2.	D. B.	03/08/10



NOTES:

1. REMOVE ALL COVERS/CAPS FROM ALL ENDS OF INTAKE PIPES, BALANCE TUBE AND THE INDUCTION "Y" PIPE BEFORE REINSTALLING THE INDUCTION MANIFOLD

2. RE-INSPECT FOR ANY FOREIGN OBJECTS OR ANY OTHER OBTRUSION INSIDE THE PIPES.

3. ONE WAY TO INSTALL THE INTAKE MANIFOLD ASSEMBLY IS TO INSTALL THE HOSE ON THE BALANCE TUBE WITH THE INTAKE MANIFOLD ROTATED AT 90° OUTBOARD, AND PUSH THE MANIFOLD INTO THE HOSE ON THE BALANCE TUBE. ROTATE THE INTAKE MANIFOLD ASSEMBLY TO THE RIGHT SO YOU CAN RAISE THE MANIFOLD. WITH THE GASKET IN THE CORRECT POSITION, INSTALL THE ORIGINAL BOLTS INTO THE WASHER, FOLLOWED BY THE LOCK WASHER, THEN TO THE MANIFOLD, AND FINALLY THROUGH THE GASKET INTO THE HEAD.
TURN THE BOLTS INTO THE HEAD BUT DO NOT TIGHTEN AT THIS TIME. REPOSITION THE HOSE THAT WAS PUSHED ONTO THE "Y" PIPE BY SLIDING IT BACK ONTO THE INTAKE MANIFOLD PIPE. ROTATE ALL HOSE CLAMPS TO A POSITION THAT IS BEST SUITED TO CHECK THE TIGHTNESS OF THE HOSES IN THE AIRCRAFT, AND TO MAKE SURE THAT THE HOSES DO NOT TOUCH THE EXHAUST MANIFOLD.
IMPORTANT: YOU NEED TO PAY ATTENTION TO THE DIRECTION OF THE HOSE CLAMPS SO THAT THEY DO NOT LAY AGAINST THE EXHAUST MANIFOLD. THE "Y" PIPE AND THE BALANCE TUBE NEED TO BE POSITIONED IN A MANNER THAT THEY DO NOT HIT THE STAINLESS STEEL MOUNT SHIELD.

4. NOTE 3 IS APPLICABLE FOR BOTH SIDES OF THE ENGINES.

5. MAKE SURE THAT THE GASKET BETWEEN THE MANIFOLD AND THE CYLINDER MATCH, THEY ARE NOT SYMMETRICAL.

ITEM	QTY	PART No.	DESCRIPTION

NEXT ASSY:
DRAWN BY: K. R. S.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

REINSTALL INTAKE PIPE LEFT SIDE

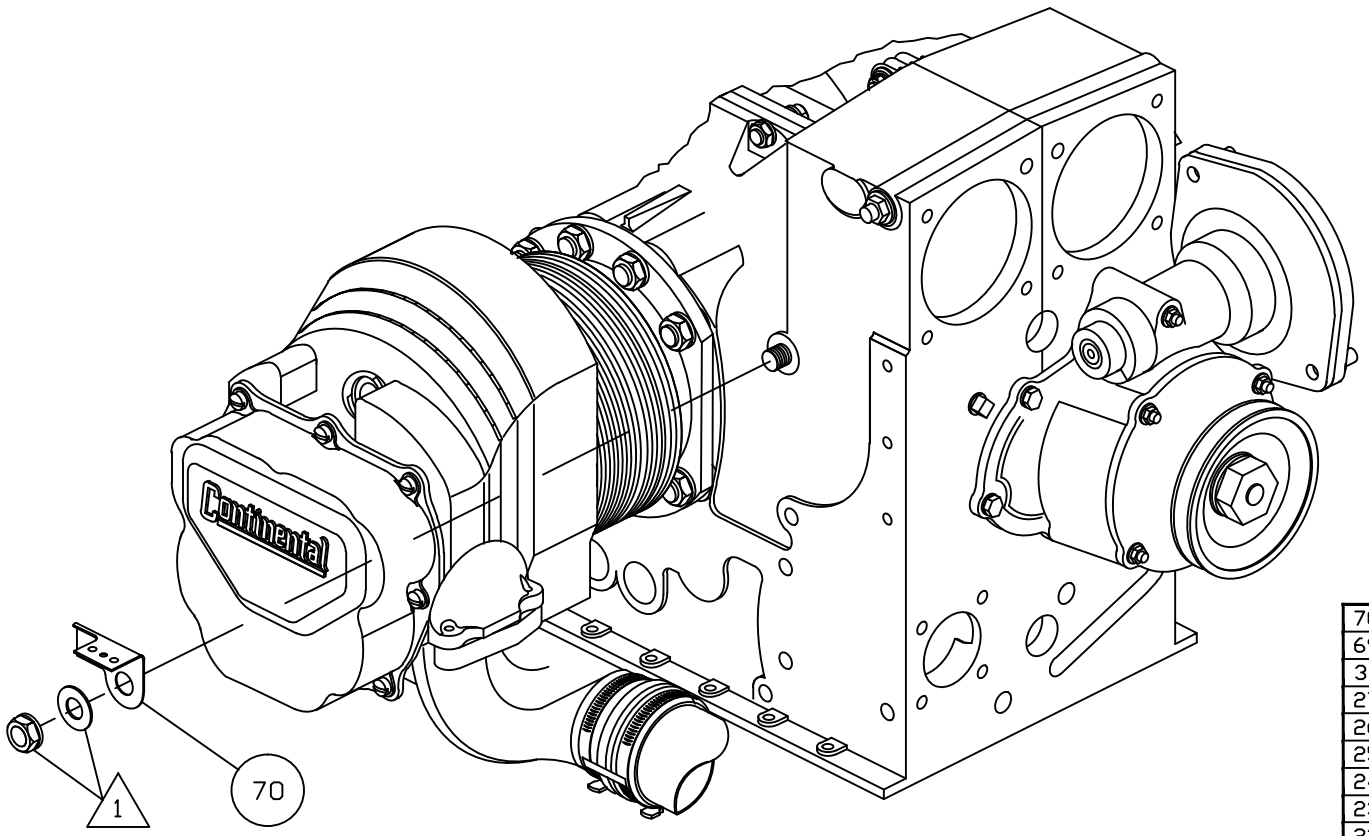
TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM95-1-17 | REVISION A

SCALE: NONE | DATE 04/24/09 | SH 1 OF 1

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



ITEM	QTY	PART No.	DESCRIPTION
70	1	47R-A10	BRACKET REAR LEFT ASSEMBLY
69	1	47R-A09	BAFFLE REAR LEFT ASSEMBLY
31	1	AN3-3A	BOLT UNDRILLED #10-32
27	17	MS35206-227	PAN HEAD MACHINE SCREW
26	1	47R-A08	BRACKET REAR LEFT ASSEMBLY
25	1	47R-A07	BAFFLE REAR LEFT ASSEMBLY
24	1	47R-A01	BAFFLE REAR LEFT ASSEMBLY
23	1	47R-020G	GASKET REAR CENTER
22	1	47R-A04	#2 CYL. VERTICAL HEAD BAFFLE ASSY
21	1	47R-A05	#2 CYL. LOWER FORWARD BAFFLE ASSY
6	1	AN960-10	FLAT WASHER

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

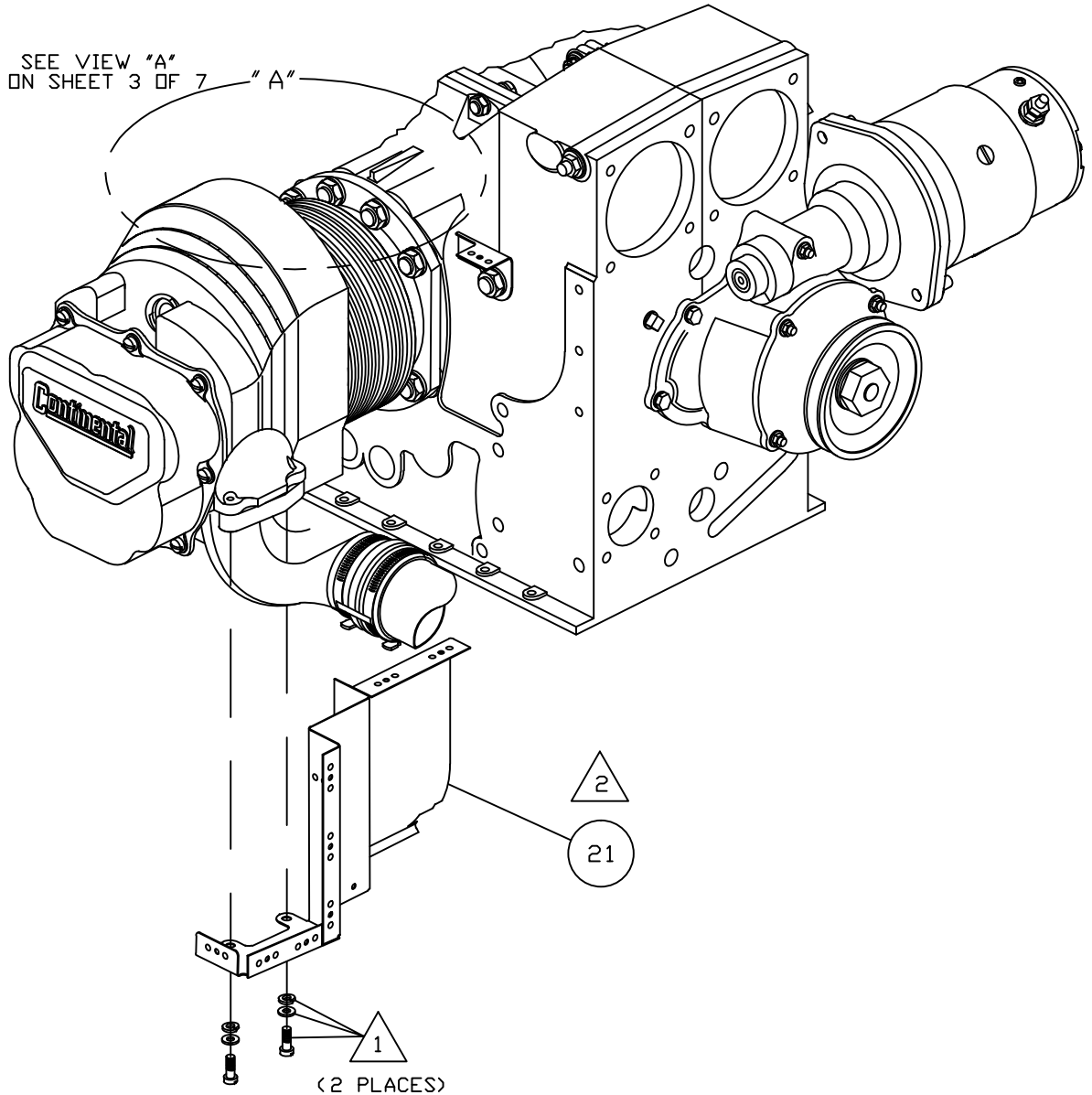
INSTALLATION BAFFLE REAR LEFT

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-15 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 7

NOTES:
1. ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

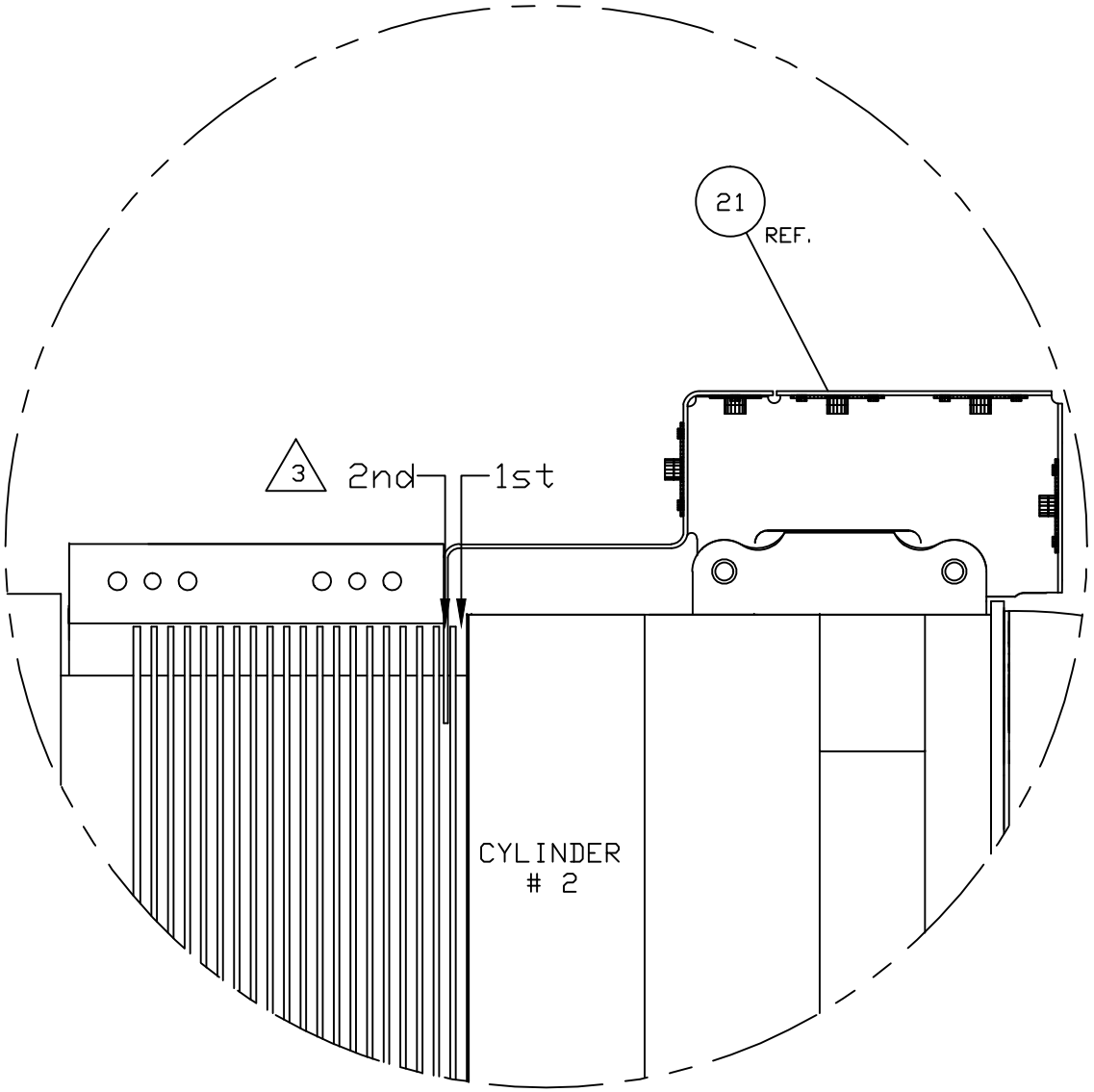


NOTES:

2 INSTALL ITEM (21) USING THE ORIGINAL BOLTS, WASHERS AND LOCK WASHERS ONTO THE #2 CYLINDER'S INTAKE PIPE FLANGE AS SHOWN. TORQUE EACH PIPE FLANGE BOLT PREVIOUSLY REMOVED IN EVERY CYLINDER ON BOTH SIDES IN SEQUENCE. (FOR TORQUE VALUES SEE THE TCM SHOP MANUAL).

1 ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-15 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 2 OF 7



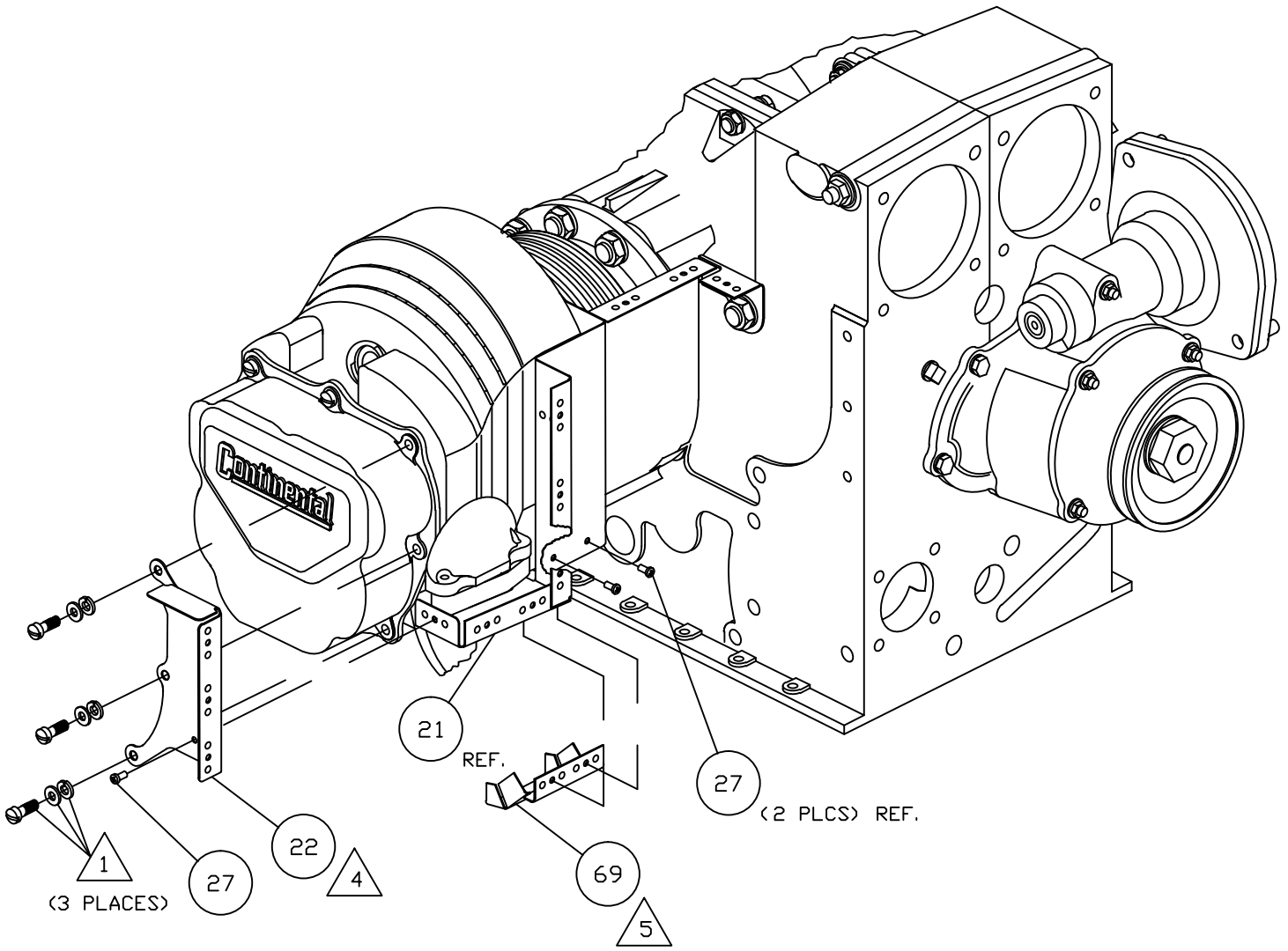
VIEW "A"

FROM SH. 2 OF 7
POSITIONING OF BAFFLE
CYL. # 2

NOTES:

3 INSERT FLANGE OF ITEM (21) IN THE SECOND COOLING FIN SPACE AS SHOWN..

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-15 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 7



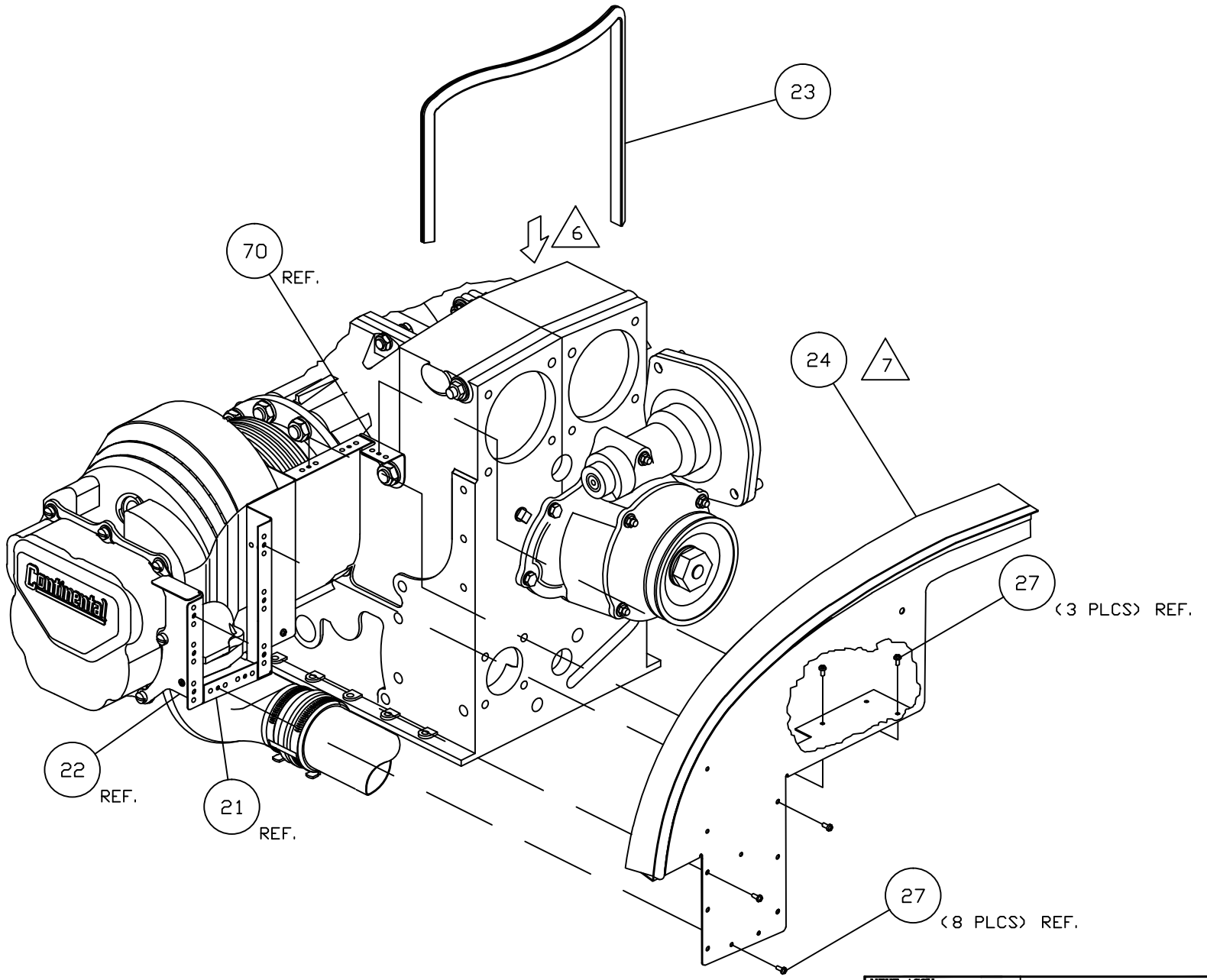
NOTES:

1. ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

4. INSTALL ITEM (22) TO THE ROCKER COVER USING ORIGINAL HARDWARE AS SHOWN. TORQUE PER TCM SHOP MANUAL. FASTEN ITEM (22) TO ITEM (21) USING ITEM (27).

5. INSTALL ITEM (69) ONTO ITEM (21) USING ITEM (27) AS SHOWN.

NEXT ASSY:	INSTALLATION BAFFLE REAR LEFT
DRAWN BY: D. B.	
ENGINEER: D. BRAUN	
CHECKED BY: D. B.	
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
DWG. No. DSP-IM97-1-15	REVISION NC
SCALE: NONE	DATE 05/15/10 SH 4 OF 7

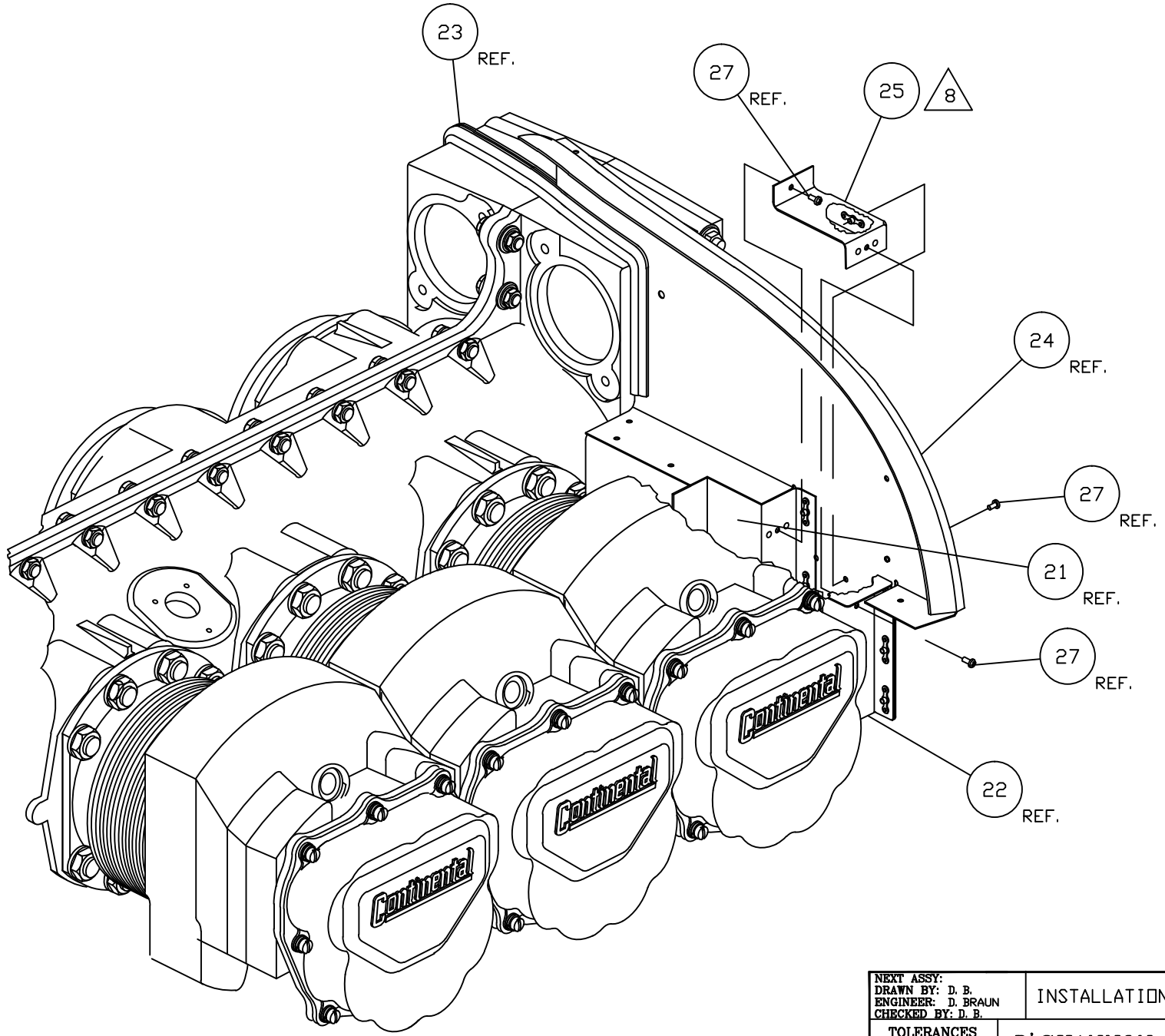


NOTES:

7 INSTALL ITEM (24) ONTO ITEMS (21), (22) AND (70) USING ITEM (27).

6 PLACE ITEM (23) ON THE ENGINE CASE AS SHOWN.

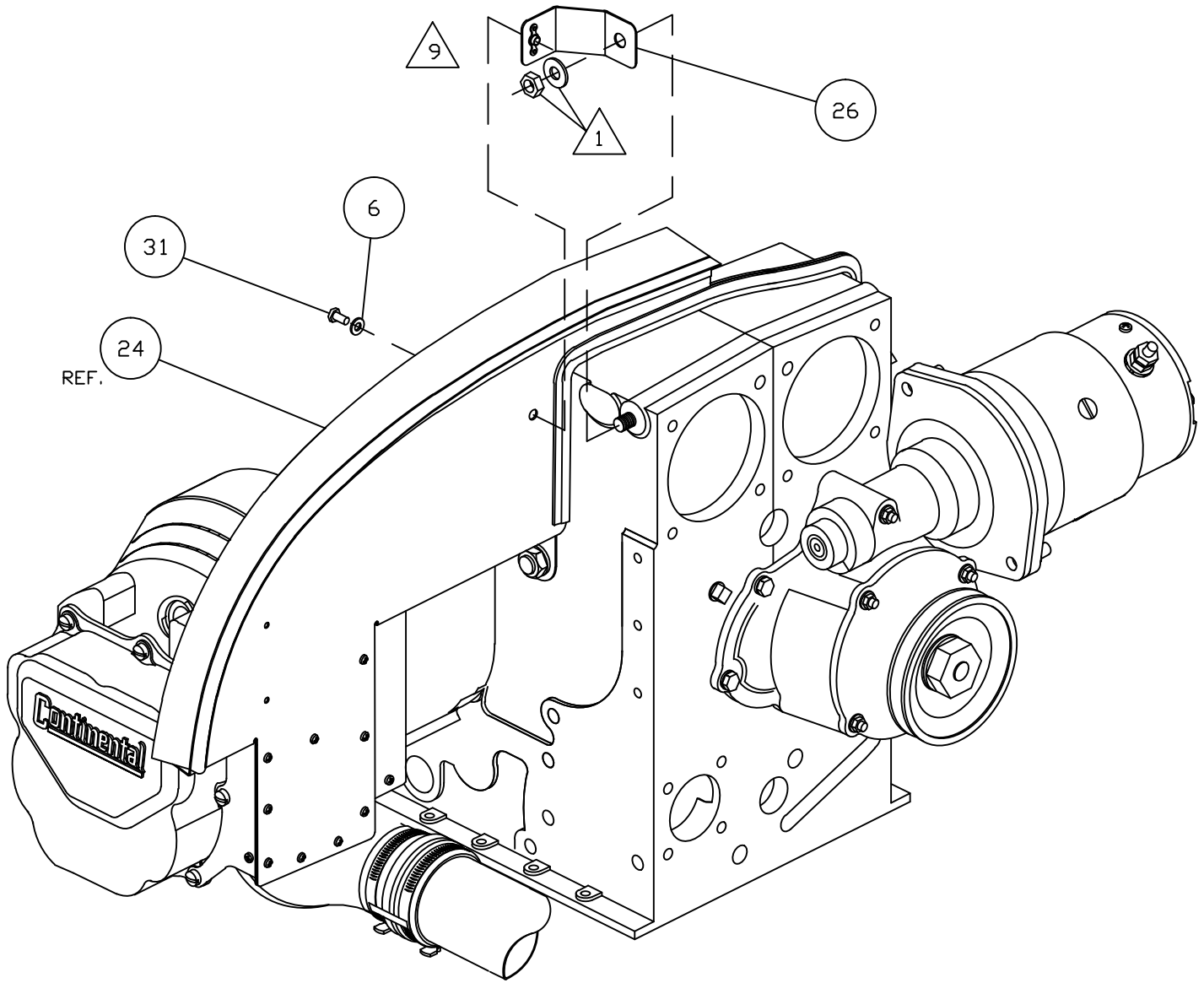
NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-15	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 5 OF 7



NOTES:

8 INSTALL ITEM (25) ONTO ITEMS (21) AND (24) USING ITEM (27).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-15 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 6 OF 7



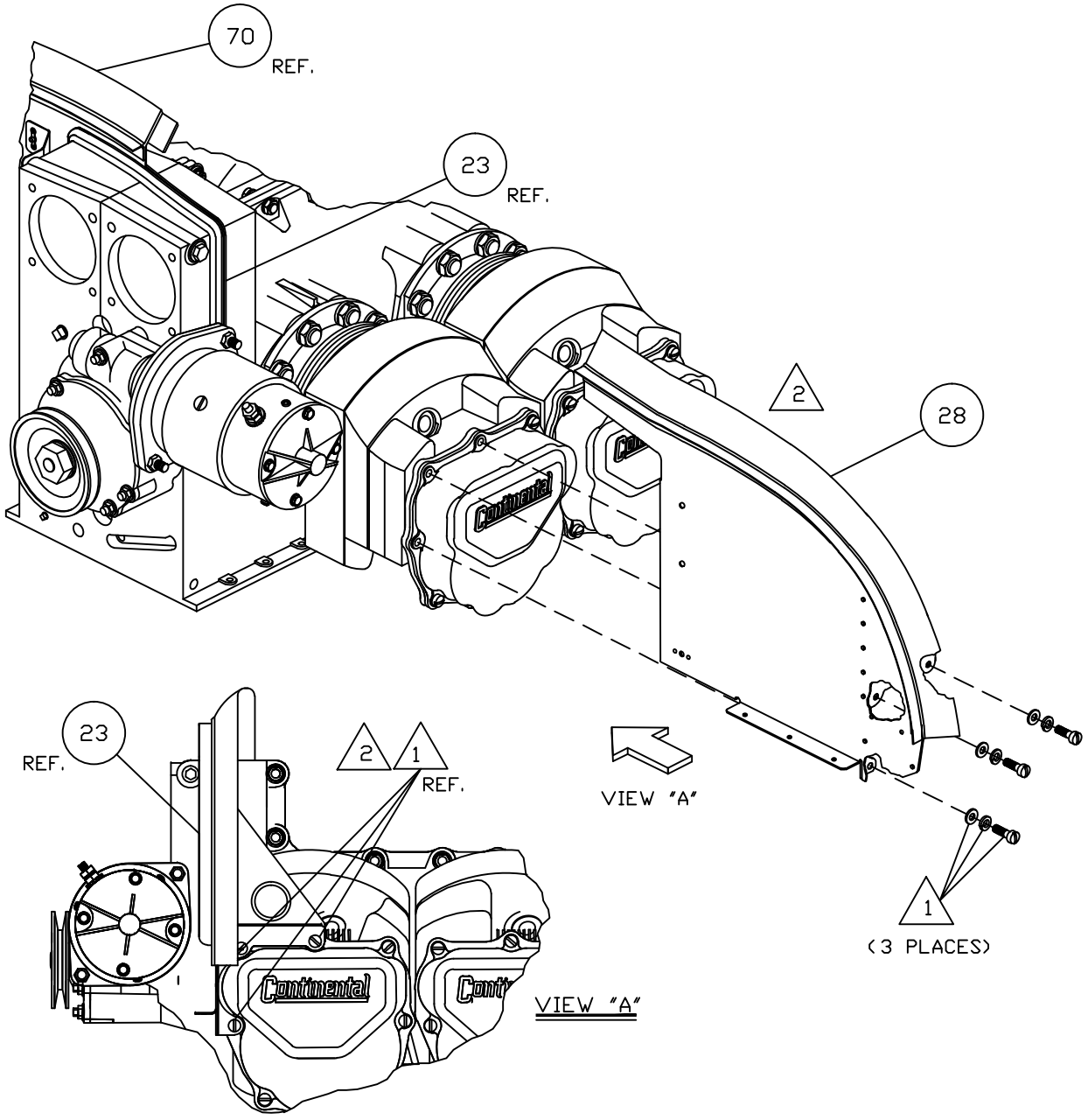
NOTES:

9 INSTALL ITEM (26) BETWEEN ITEM (24) AND THE ENGINE USING ITEMS (31) AND (6) AND ORIGINAL HARDWARE AS SHOWN. SEE TCM SHOP MANUAL FOR TORQUE VALUES.

1 ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR LEFT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-15	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 7 OF 7

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



ITEM (23) IS REFERENCED FROM DSP-IM97-1-15, SHEET 1.

ITEM (70) IS REFERENCED FROM DSP-IM97-1-15, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
31	3	AN3-3A	BOLT UNDRILLED #1C-32
30	1	47R-A03	STARTER STUD BRACKET ASSEMBLY
29	1	47R-A06	#1 CYL. LOWER FORWARD BAFFLE ASSY
28	1	47R-A02	BAFFLE REAR RIGHT ASSEMBLY
27	5	MS35206-227	PAN HEAD MACHINE SCREW
6	3	AN960-10	FLAT WASHER

NOTES:

2 INSTALL ITEM (28) ON ENGINE USING ORIGINAL ROCKER COVER HARDWARE AS GUIDE. SEE TCM SHOP MANUAL FOR TORQUE VALUES.

1 ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

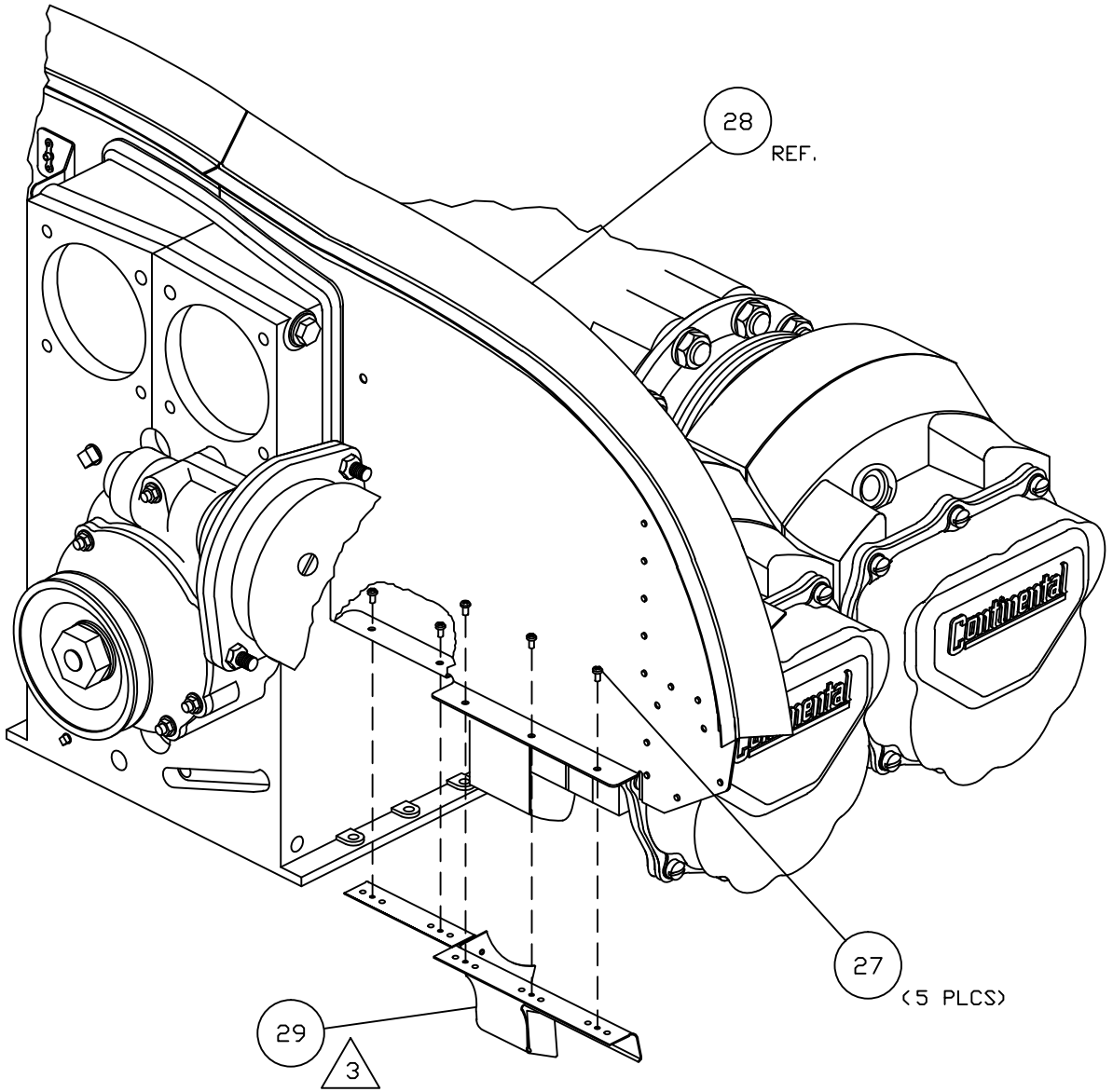
INSTALLATION BAFFLE REAR RIGHT

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-16 | REVISION NC

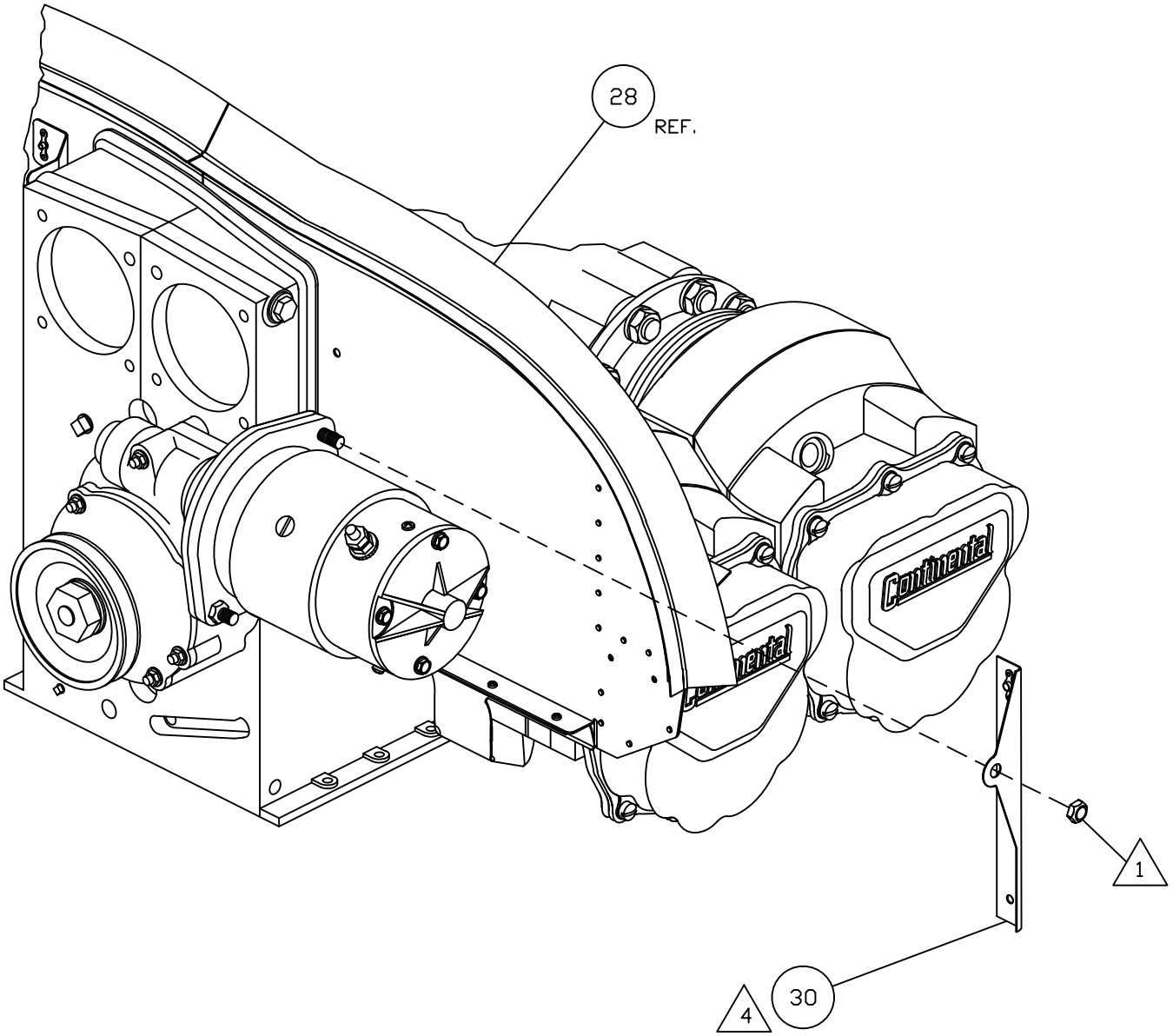
SCALE: NONE | DATE 05/15/10 | SH 1 OF 4



NOTES:

3 ALIGN ITEM (29) AS SHOWN. USE ITEM (27) THROUGH ITEMS (28) AND (29) AND TIGHTEN. NOTE THAT TWO OF THE FASTENERS ARE ON THE FORWARD SIDE OF THE BAFFLE.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR RIGHT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-16	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 2 OF 4

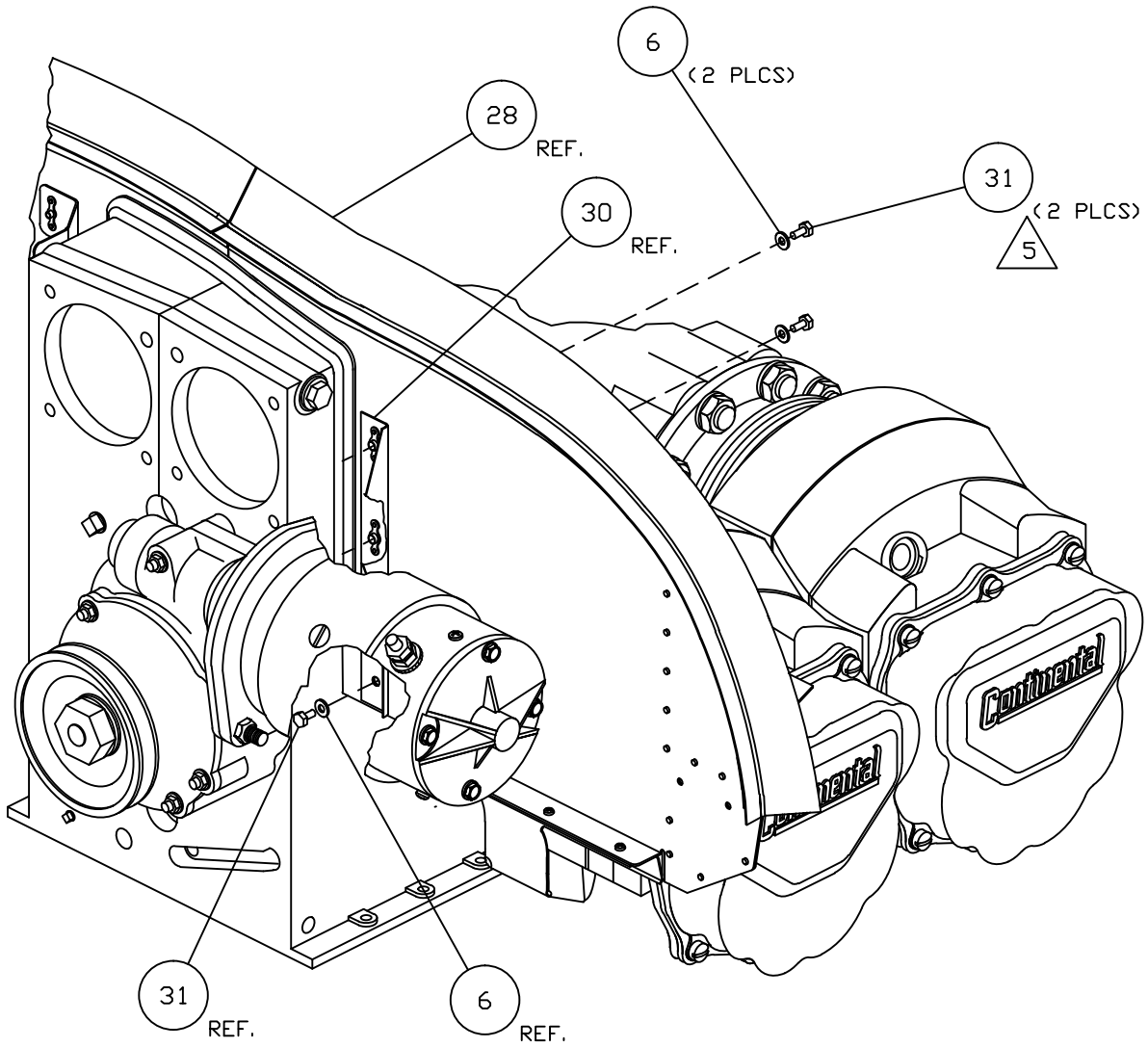


NOTES:

4 INSTALL ITEM (30) AS SHOWN USING ORIGINAL HARDWARE.

1 ORIGINAL HARDWARE. (FOR TORQUE VALUES SEE BEECHCRAFT OR TCM SHOP MANUAL).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR RIGHT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-16 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 4

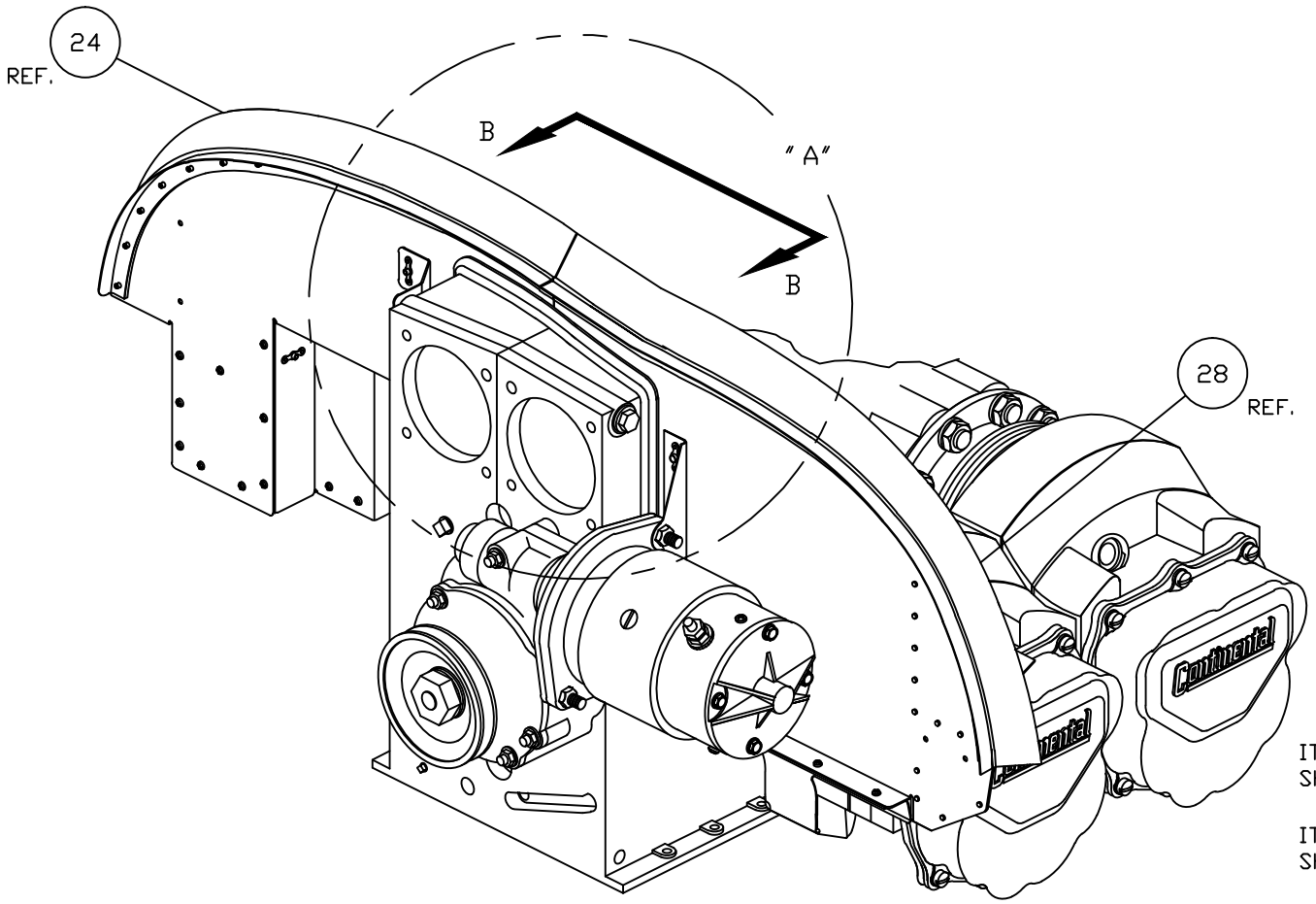


NOTES:

5 ALIGN HOLES IN ITEM (30) WITH HOLES IN ITEM (28) . FASTEN USING ITEMS (31) AND (6), THEN TIGHTEN.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION BAFFLE REAR RIGHT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-16	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 4 OF 4

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



ITEM (28) IS REFERENCED FROM DSP-IM97-1-16, SHEET 1.

ITEM (24) IS REFERENCED FROM DSP-IM97-1-15, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
67	1	47R-022	RETAINER CENTER REAR
35	8	MS21042-06	REDUCED DIMENSION LOCKNUT
34	6	AN526C632R8	TRUSS HEAD MACHINE SCREW
33	1	47R-017	BACK RETAINER FOR GASKET
32	1	47R-016	FRONT RETAINER FOR GASKET
27	2	MS35206-227	PAN HEAD MACHINE SCREW

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

INSTL CENTER BRACKET REAR

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

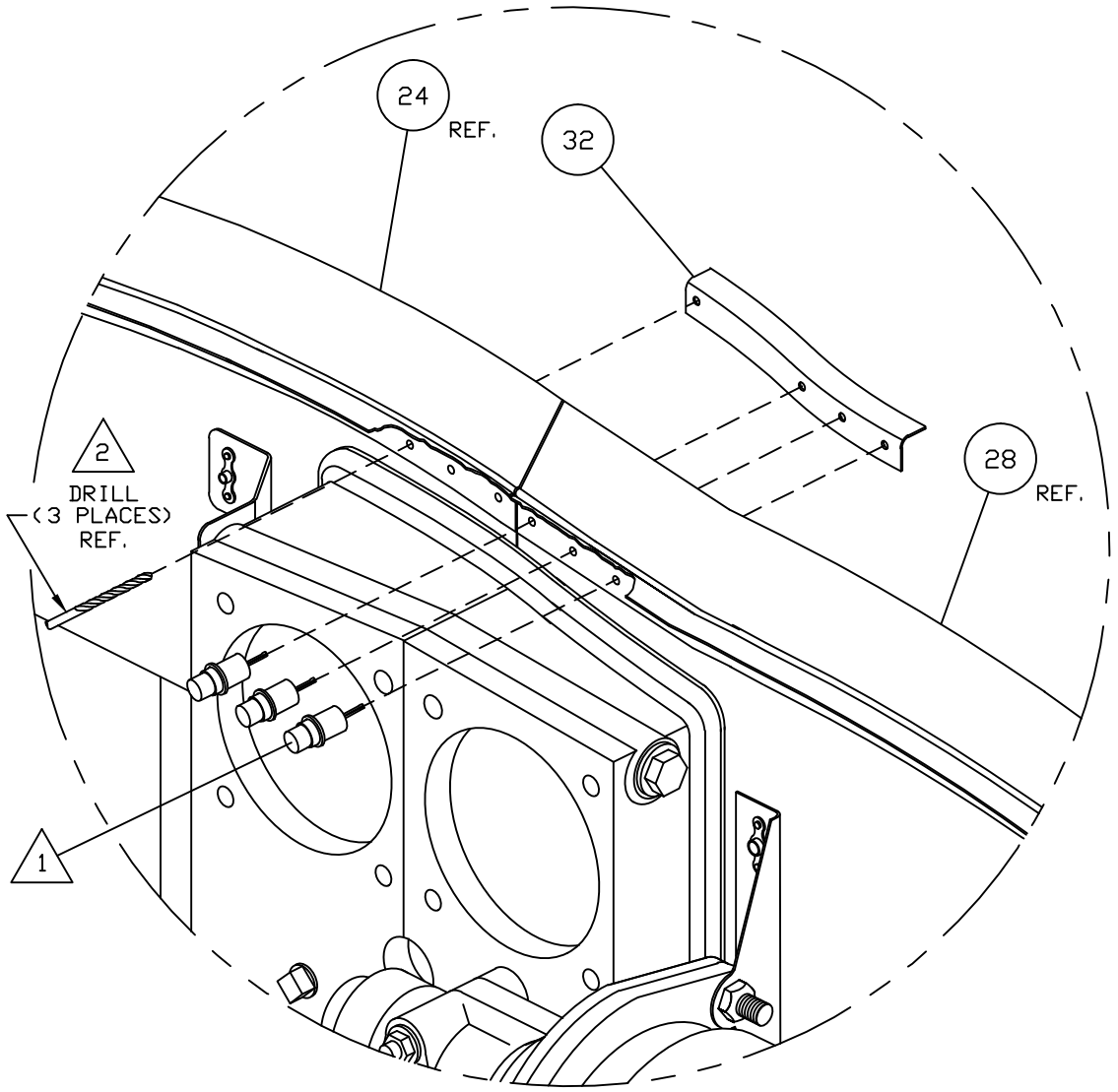
D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-17 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 7

2. SEE VIEW B-B ON SHEET 7 OF 7 FOR MILLENNIUM ENGINES ONLY.

1. SEE DETAIL "A" ON SHEETS 2, 3, 4, 5 AND 6 OF 7.

NOTES:



DETAIL "A"

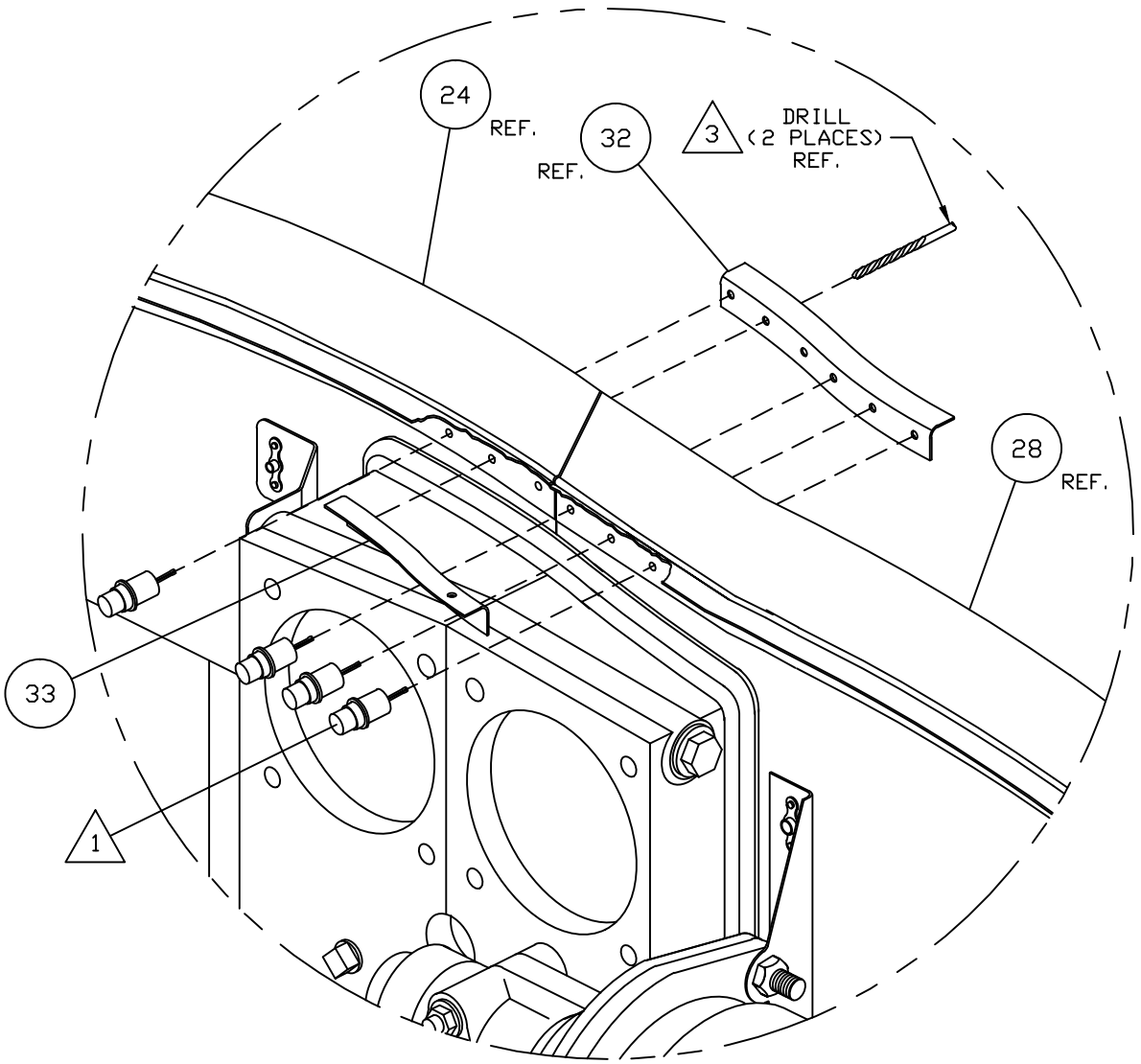
COMES FROM SHEET 1 OF 7
STEP 1

NOTES:

2 TO PIERCE, GO THROUGH THREE HOLES FROM ITEM (24) TO ITEM (32) USING DRILL SIZE NO. 29 AND CLECOS AS SHOWN.

1 CLECO.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-17 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 2 OF 7



DETAIL "A"

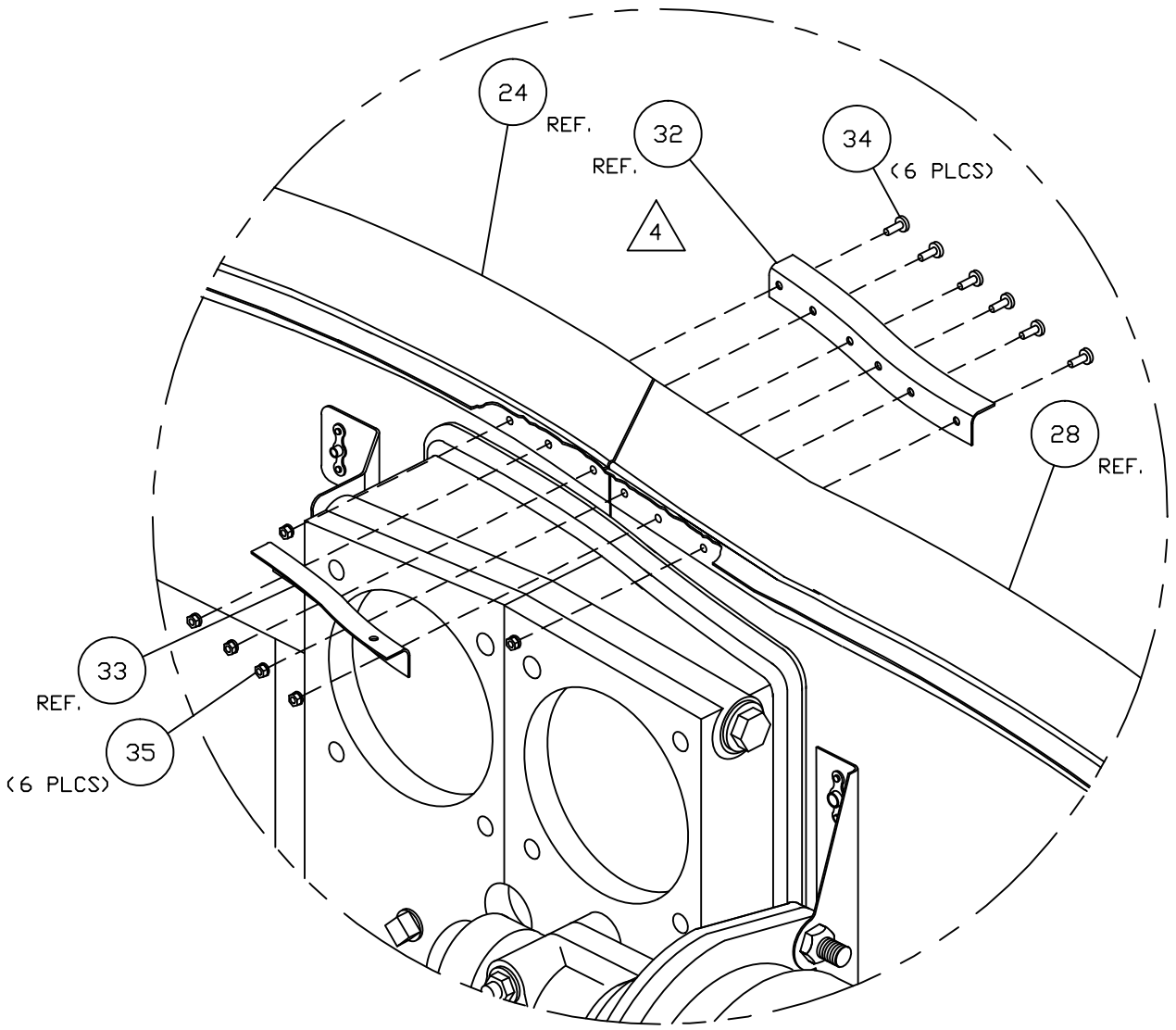
COMES FROM SHEET 1 OF 7
STEP 2

NOTES:

3 TO PIERCE, GO THROUGH TWO HOLES FROM ITEMS (32) AND (24) USING DRILL SIZE NO. 29 AND CLECOS AS SHOWN.

1 CLECO.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-17 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 7



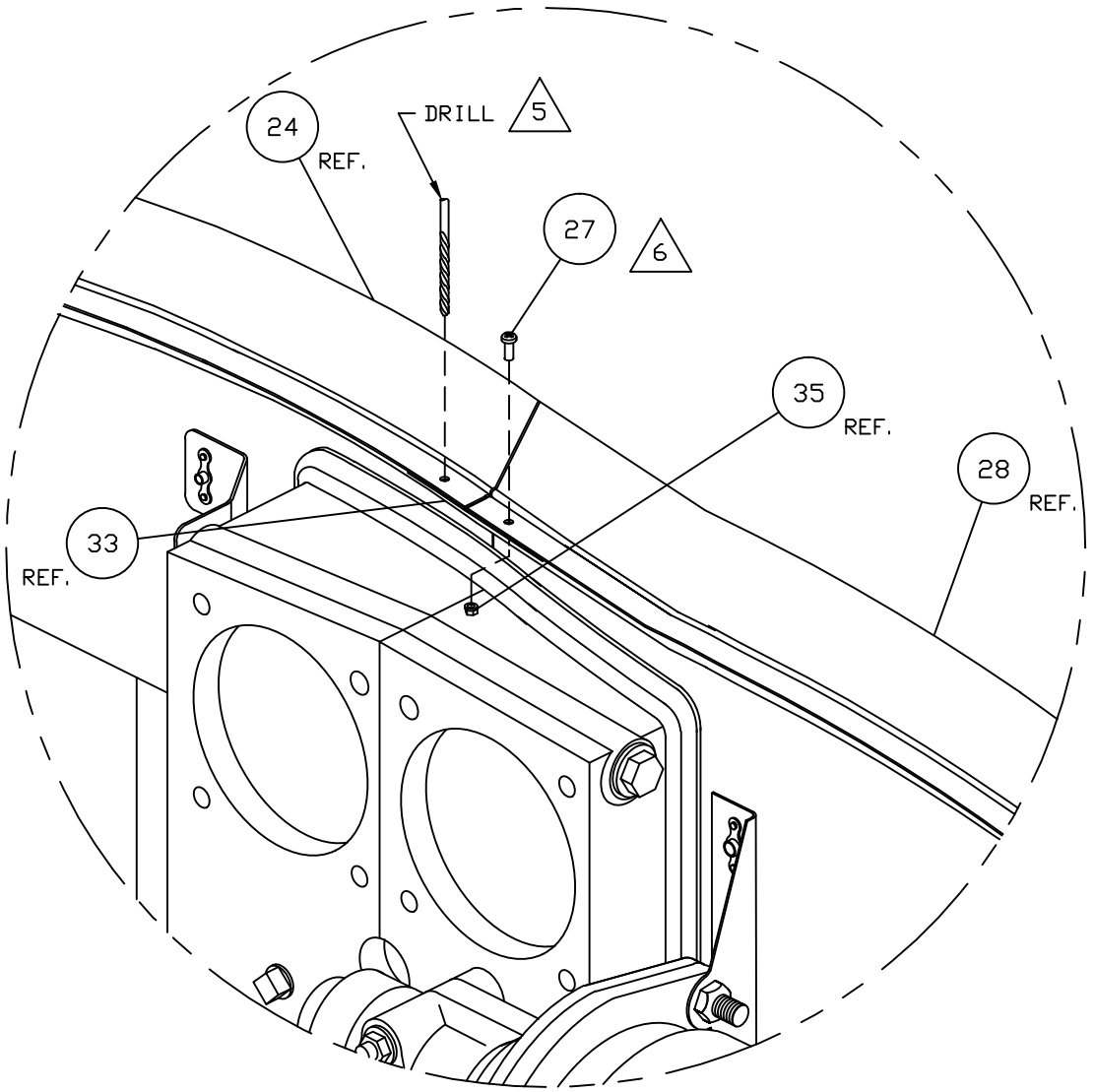
DETAIL "A"

COMES FROM SHEET 1 OF 7
STEP 3

NOTES:

4 REMOVE CLECOS AND INSTALL ITEMS (32) AND (33) IN ITEMS (24) AND (28) USING ITEMS (34) AND TIGHTEN WITH ITEM (35) AS SHOWN.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-17 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 4 OF 7



DETAIL "A"

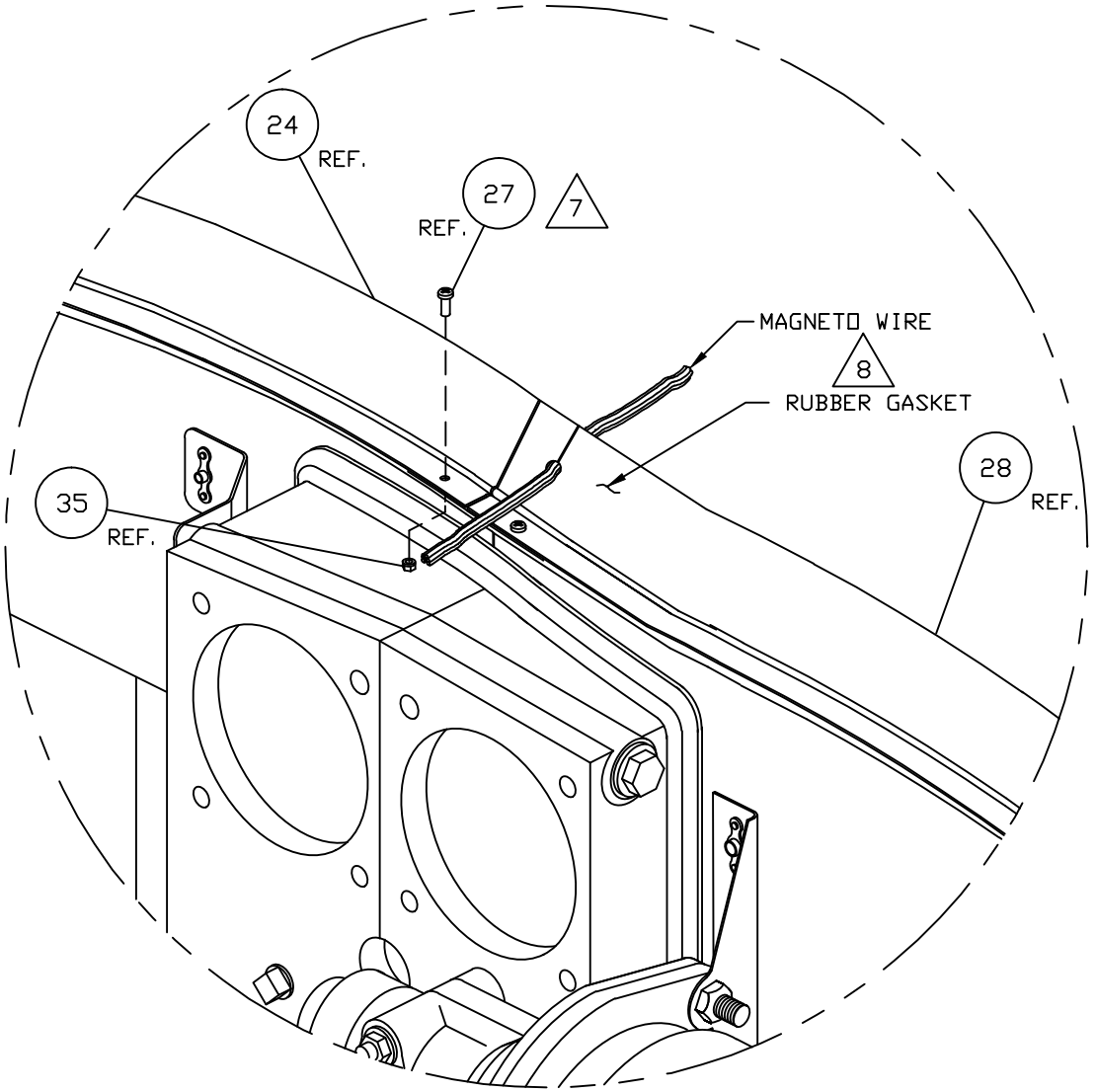
COMES FROM SHEET 1 OF 8
STEP 4

NOTES:

6 FASTEN ITEM (27) THROUGH ITEMS (28) AND (33). TIGHTEN WITH ITEM (35).

5 TO PIERCE, GO THROUGH ONE HOLE FROM ITEM (24) TO ITEM (33) USING DRILL SIZE NO. 29.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-17 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 5 OF 7



DETAIL "A"

COMES FROM SHEET 1 OF 7
STEP 5

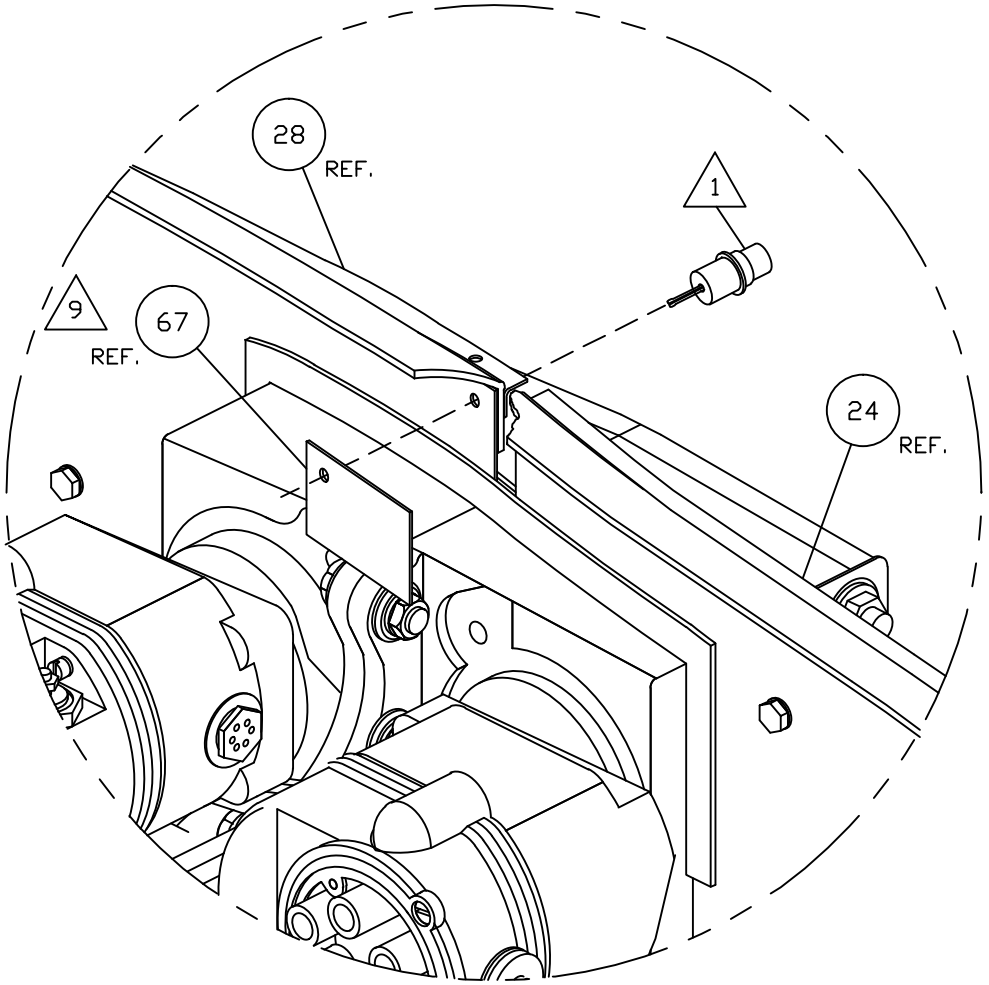
NOTES:

8 MAKE A SMALL HOLE APPROXIMATELY 1/4" AS SHOWN TO ALLOW WIRES TO BE PASSED THROUGH.

7 FASTEN ITEM (27) THROUGH ITEMS (24) AND (33). TIGHTEN WITH ITEM (35).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-17	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 6 OF 7

ONLY FOR MILLENNIUM ENGINES



VIEW B-B

COMES FROM SHEET 1 OF 7

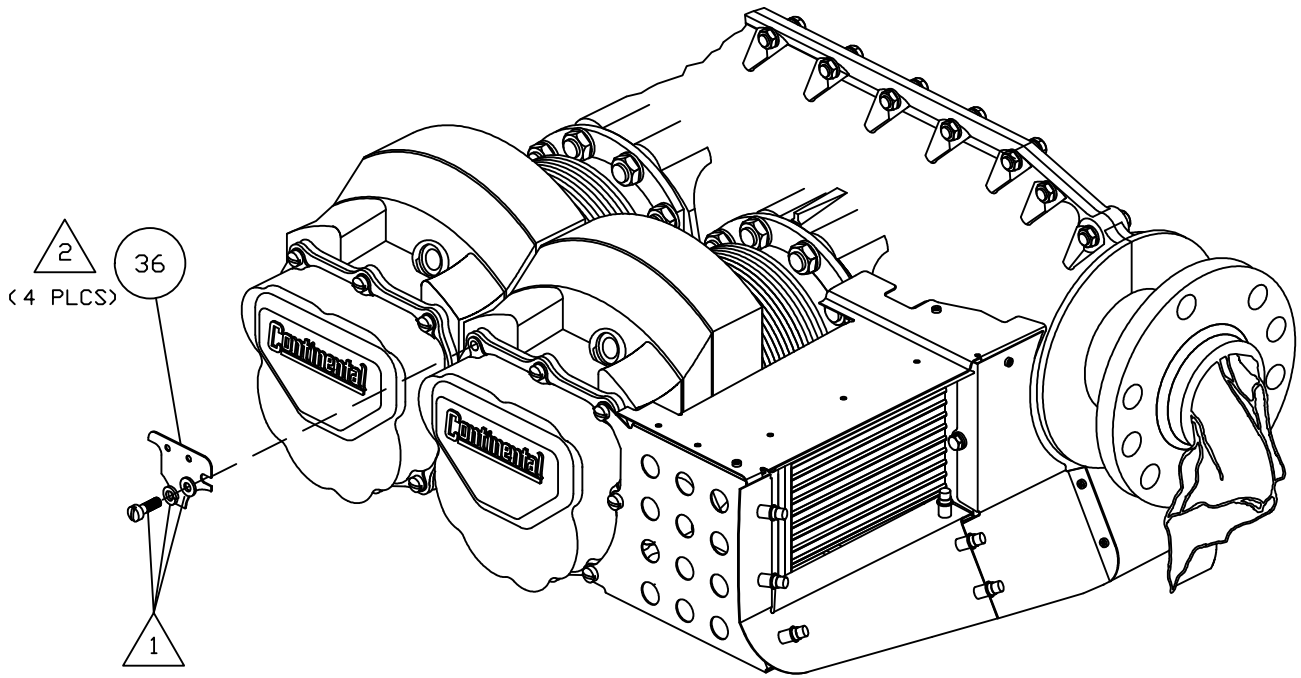
NOTES:

1. CLECO.

9. INSTALL ITEM (67) ONLY ON MILLENNIUM ENGINES. INSTALL ITEM (67) IN ITEM (28) USING CLECO. ONCE INSTALLED, PERFORM THE STEPS 1, 2, 3, 4 AND 5.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTL CENTER BRACKET REAR
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-17	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 7 OF 7

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	5/15/10
A	REMOVED ITEMS 35 AND 42	L. L.	03/02/16



CYLINDER #6 AND #4
CYLINDER #5 AND #3
CYLINDER #4 AND #2
CYLINDER #3 AND #1

TYP. INSTALLATION

ITEM	QTY	PART No.	DESCRIPTION
63	A. R.	G.E. SILLICONE II	SILICONE SEALANT
43	4	AN931-4-7	ELASTIC GROMMET
41	1	47S-A02	BAFFLE SIDE LEFT ASSEMBLY
40	1	47S-A01	BAFFLE SIDE RIGHT ASSEMBLY
39	1	244050-1Z	BRACKET BAFFLE SIDE
38	1	244050Z	BRACKET BAFFLE SIDE
37	2	244047Z	BRACKET BAFFLE SIDE
36	4	244045Z	BRACKET BAFFLE SIDE
34	3	AN526C632R8	TRUSS HEAD MACHINE SCREW
27	25	MS35206-227	PAN HEAD MACHINE SCREW

NOTES:

2 REMOVE MAGNETO WIRE SUPPORTS FROM THE CYLINDERS AND INSTALL ITEM (36) USING ORIGINAL ROCKER COVER HARDWARE.

1 ORIGINAL HARDWARE. SEE BEECHCRAFT OR TCM SHOP MANUALS FOR TORQUE VALUES.

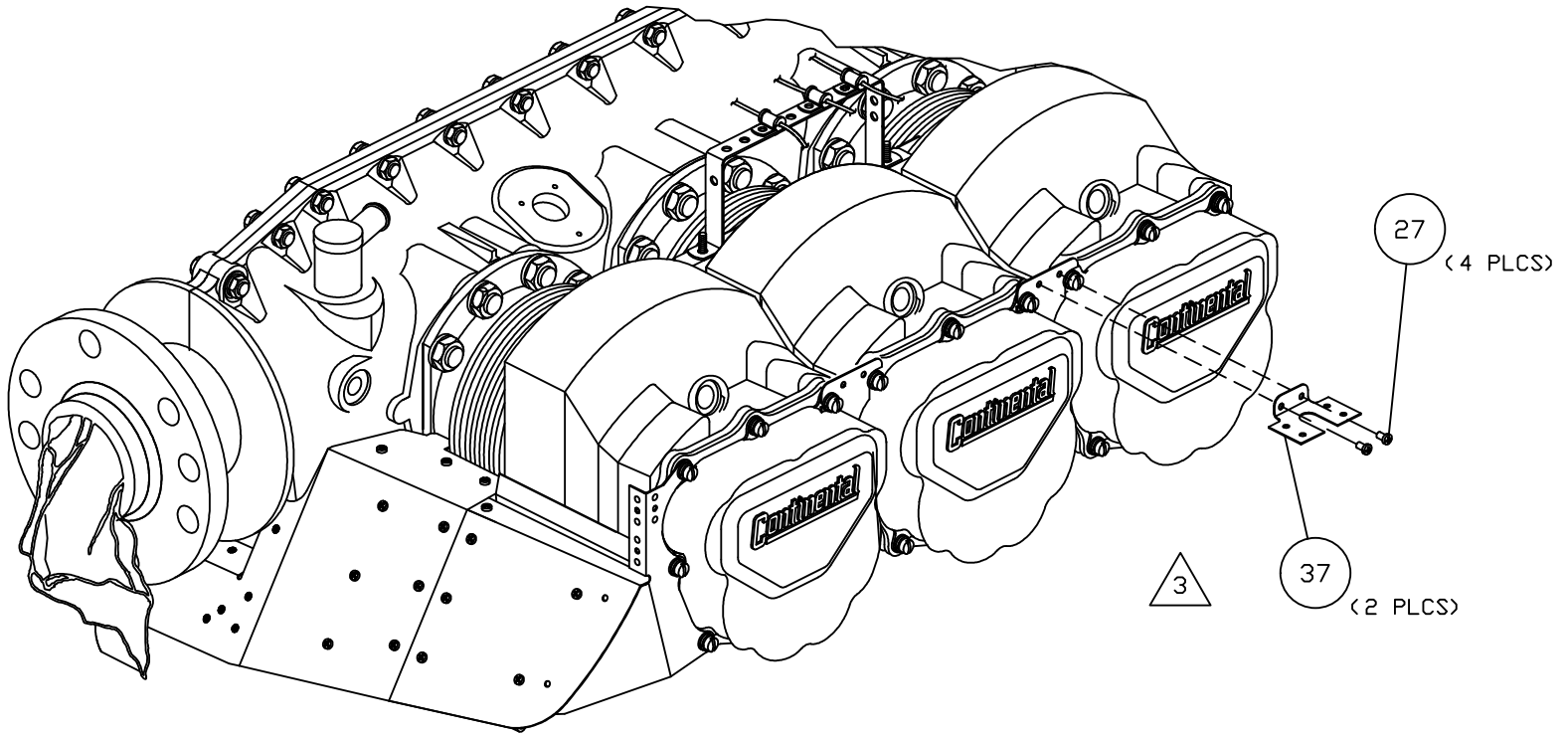
NEXT ASSY:
DRAWN BY: W. E.
ENGINEER: R. R.
CHECKED BY: L. L.

INSTALLATION SIDE BAFFLES

TOLERANCES
.X___.10 .XXX___.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-19 | REVISION A
SCALE: NONE | DATE 03/02/16 | SH 1 OF 7

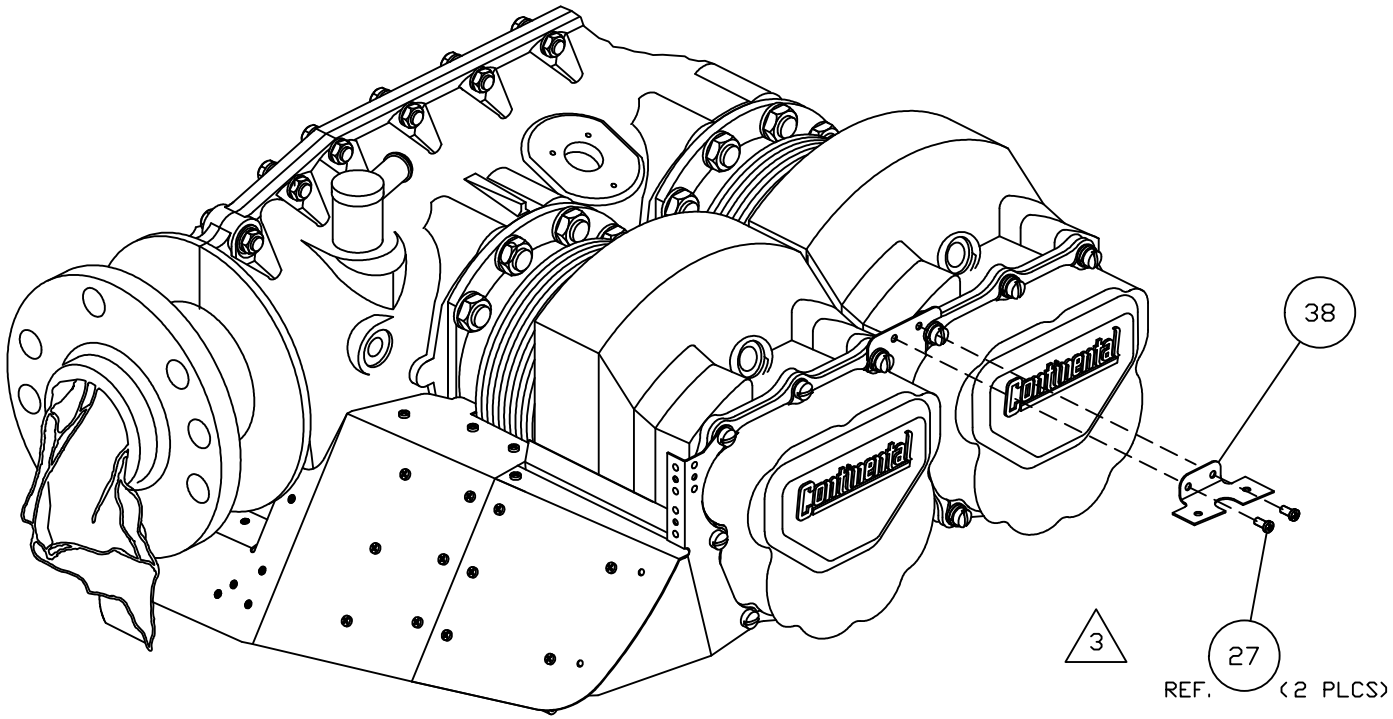


CYLINDER #4 AND #2
CYLINDER #3 AND #1
TYP. INSTALLATION

NOTES:

△3 INSTALL ITEMS (37), (38) AND (39) USING ITEM (27) AS SHOWN ON SH. 2, 3 AND 4 OF 7.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION SIDE BAFFLES	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*	
	DWG. No. DSP-IM97-1-19	REVISION A
	SCALE: NONE	DATE 03/02/16 SH 2 OF 7

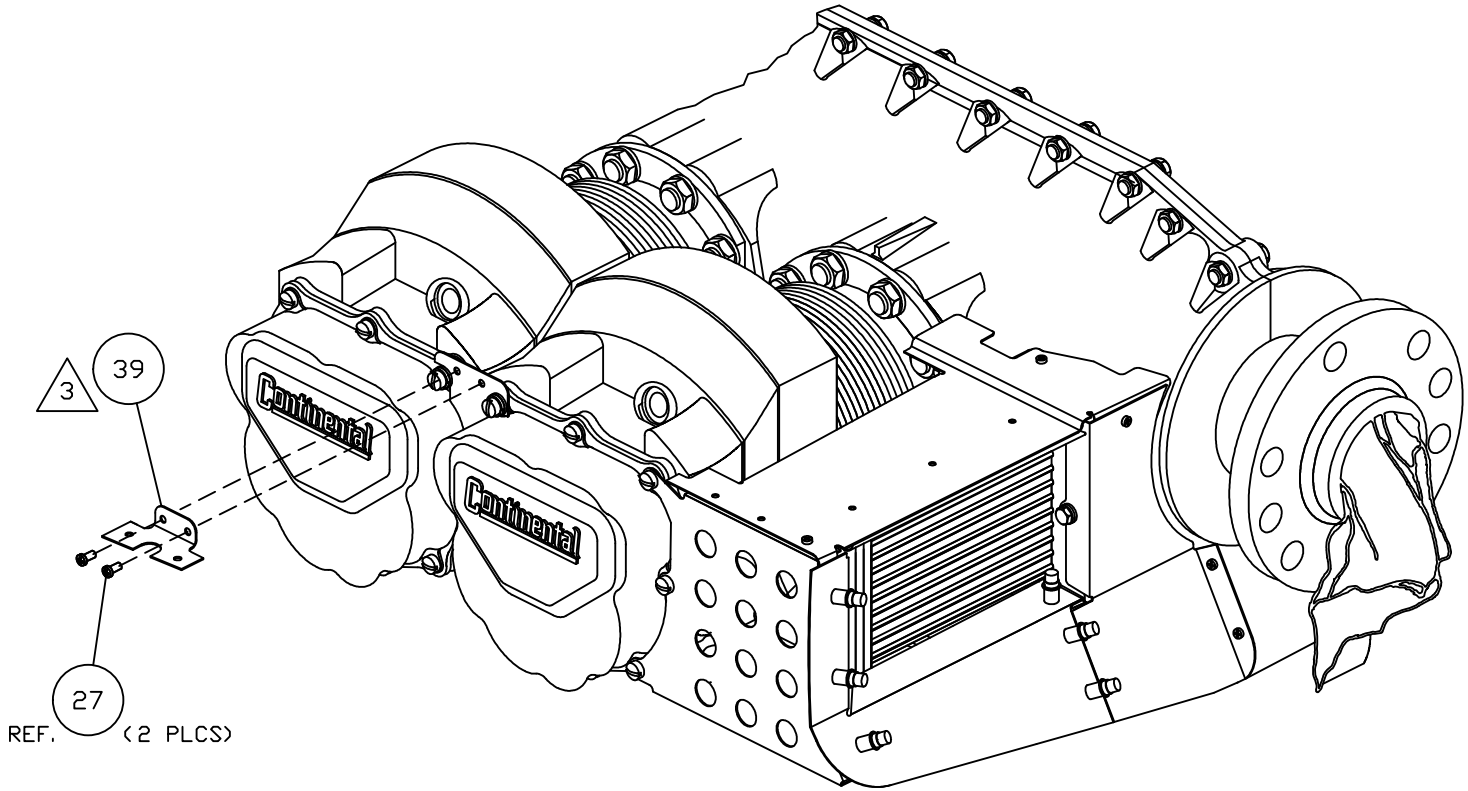


CYLINDER #6 AND #4

NOTES:

3 INSTALL ITEMS (37), (38) AND (39) USING ITEM (27) AS SHOWN ON SH. 2, 3 AND 4 OF 7.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION SIDE BAFFLES
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM97-1-19	REVISION A
SCALE: NONE	DATE 03/02/16 | SH 3 OF 7

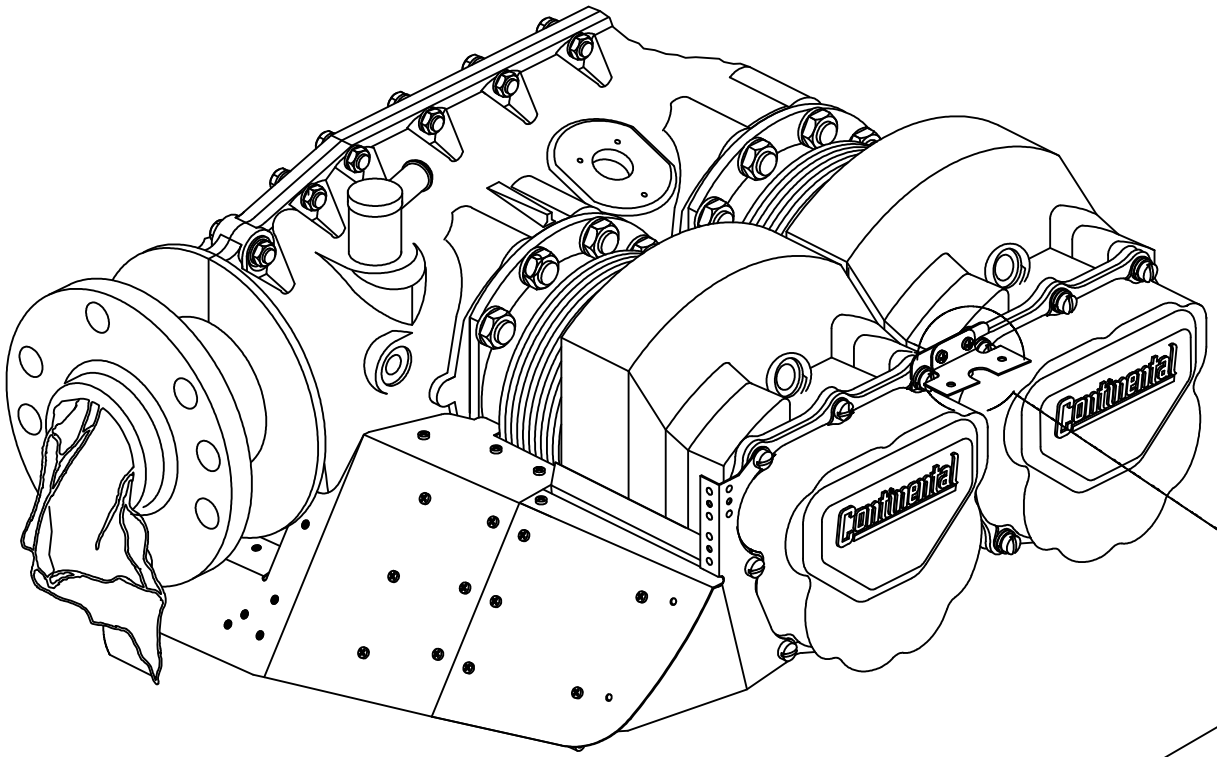


CYLINDER #5 AND #3

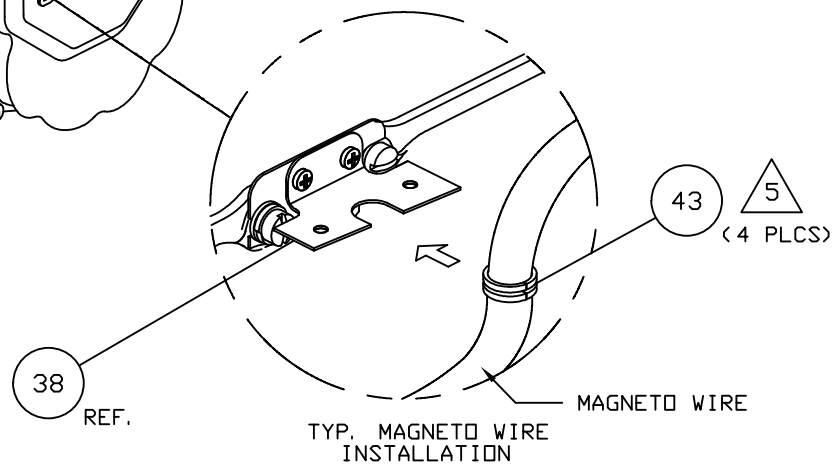
NOTES:

3 INSTALL ITEMS (37), (38) AND (39) USING ITEM (27) AS SHOWN ON SH. 2, 3 AND 4 OF 7.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION SIDE BAFFLES		
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*		
	DWG. No. DSP-IM97-1-19	REVISION A	
	SCALE: NONE	DATE 03/02/16	SH 4 OF 7



CYLINDER #6 AND #4

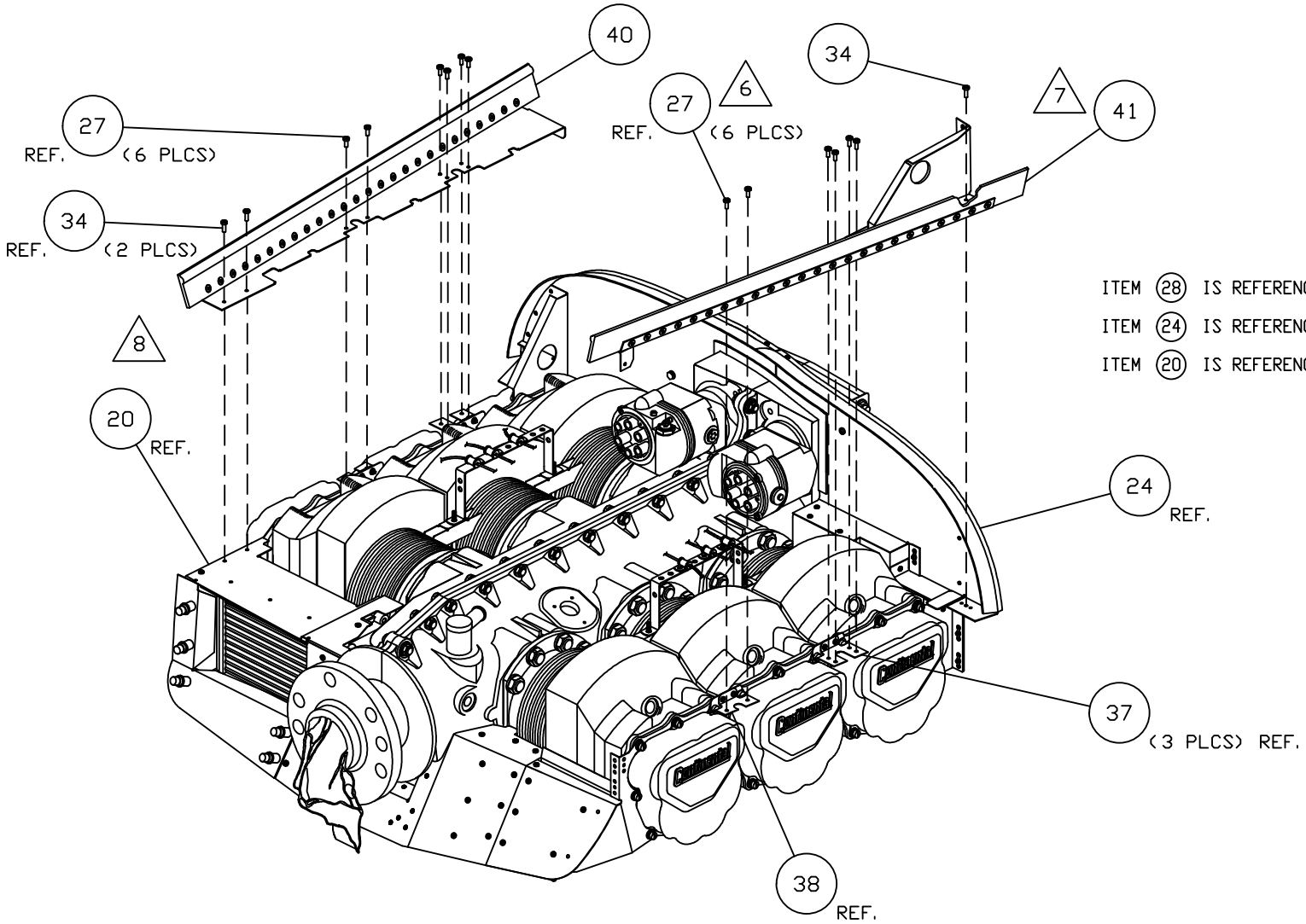


TYP. MAGNETO WIRE INSTALLATION

NOTES:

5 INSTALL ALL NEW AN931-4-7 ELASTIC GROMMETS, ITEM (43) ON THE MAGNETO WIRE SLOTS IN THE SUPPORT BRACKETS ITEMS (37), (38) AND (39).

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION SIDE BAFFLES
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-19 REVISION A
	SCALE: NONE DATE 03/02/16 SH 5 OF 7



ITEM (28) IS REFERENCED FROM DSP-IM97-1-16, SHEET 1.

ITEM (24) IS REFERENCED FROM DSP-IM97-1-15, SHEET 1.

ITEM (20) IS REFERENCED FROM DSP-IM97-1-12, SHEET 1.

NOTES:

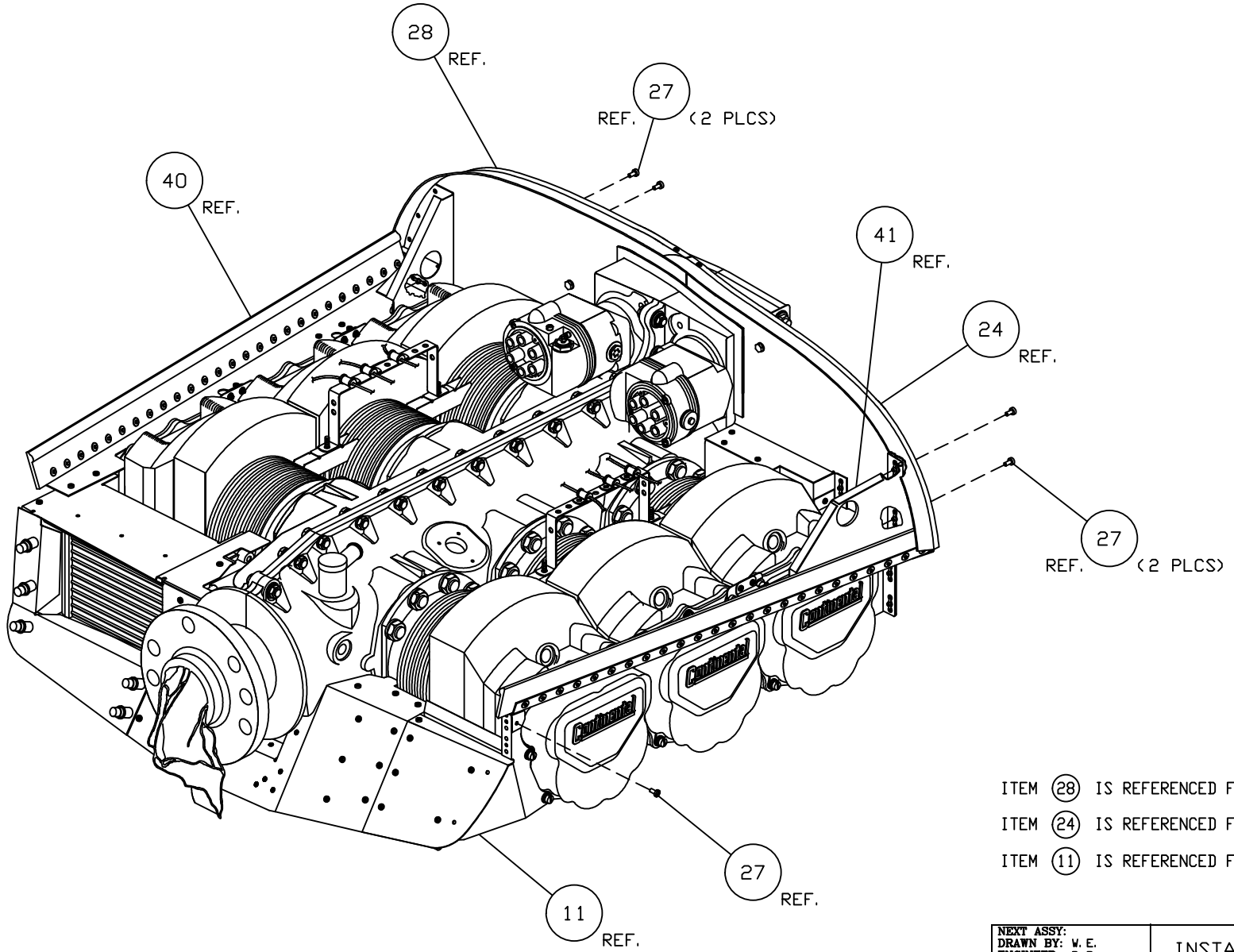
△9 USE SHEET 7 AS A GUIDE TO THE FINISHED INSTALLATION.

△8 ALL REMAINING GAPS AND OPENINGS SHOULD BE SEALED WITH CLEAR G.E. SILICONE ITEM (63) (-65 TO +40°) OR EQUIVALENT.

△7 VERY IMPORTANT: TIGHTEN SNUGLY AND BACK-OFF 1/4 TURN TO ALLOW FOR EXPANSION

△6 AS NOTED, THE LEFT-HAND IS ITEM (41), RIGHT-HAND IS ITEM (40). ATTACH SIDE BAFFLE ASSEMBLY TO SUPPORT BRACKETS USING ITEM (27) SCREWS THROUGH ITEM (42) AND ITEM (35).

NEXT ASSY:	INSTALLATION SIDE BAFFLES
DRAWN BY: W. E.	
ENGINEER: R. R.	
CHECKED BY: L. L.	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-19 REVISION A
	SCALE: NONE DATE 03/02/16 SH 6 OF 7



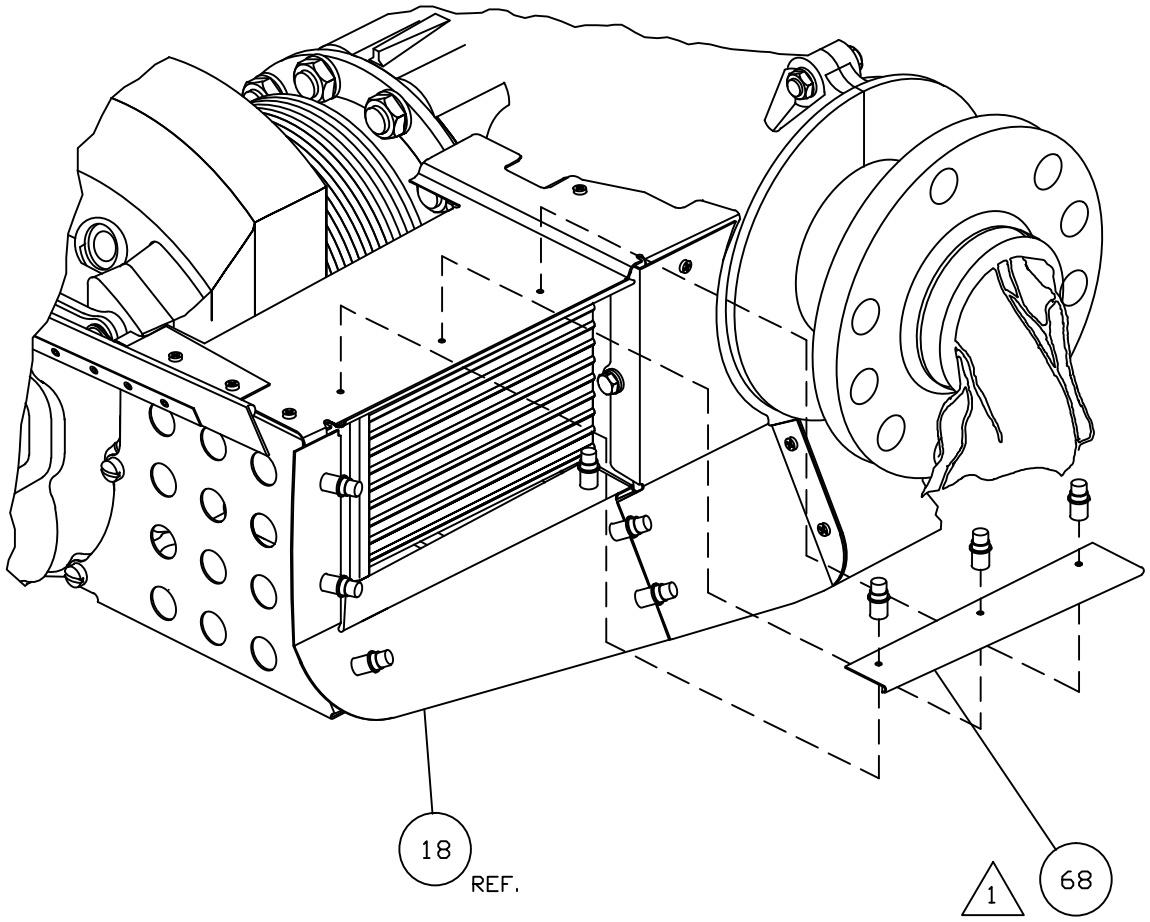
ITEM (28) IS REFERENCED FROM DSP-IM97-1-16, SHEET 1.

ITEM (24) IS REFERENCED FROM DSP-IM97-1-15, SHEET 1.

ITEM (11) IS REFERENCED FROM DSP-IM97-1-11, SHEET 1.

NEXT ASSY: DRAWN BY: W. E. ENGINEER: R. R. CHECKED BY: L. L.	INSTALLATION SIDE BAFFLE
TOLERANCES .X___.10 .XXX___.01 .XX__.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-19 | REVISION A
	SCALE: NONE | DATE 03/02/16 | SH 7 OF 7

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



ITEM (18) IS REFERENCED FROM DSP-IM97-1-12, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
68	1	470C-005	BAFFLE OIL COOLER
65	5	AN507C632R10	FLAT HEAD MACHINE SCREW
64	33	AD44H	POP RIVET
57	1	47F-014	RETAINER FOR GASKET FRONT
56	1	47F-013	RETAINER FOR GASKET FRONT
55	1	47F-010	RETAINER FOR GASKET FRONT
54	1	47F-016G	GASKET FRONT
53	1	47F-012	RETAINER FOR GASKET FRONT
52	1	47F-011	RETAINER FOR GASKET FRONT
51	1	47F-015G	GASKET FRONT
50	1	470C-014G	GASKET OIL COOLER
49	1	470C-010	RETAINER FOR GASKET OIL COOLER
48	1	470C-013G	GASKET OIL COOLER
47	1	470C-011	RETAINER FOR GASKET OIL COOLER
46	1	470C-012G	GASKET OIL COOLER
45	1	470C-009	RETAINER FOR GASEKT OIL COOLER
44	1	470C-008	RETAINER FOR GASEKT OIL COOLER
42	5	AN960C6	FLAT WASHER
35	5	MS21042-06	REDUCED DIMENSION LOCKNUT
34	4	AN526C632R8	TRUSS HEAD MACHINE SCREW
14	6	AN526C632R6	TRUSS HEAD MACHINE SCREW

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: D. BRAUN
CHECKED BY: D. B.

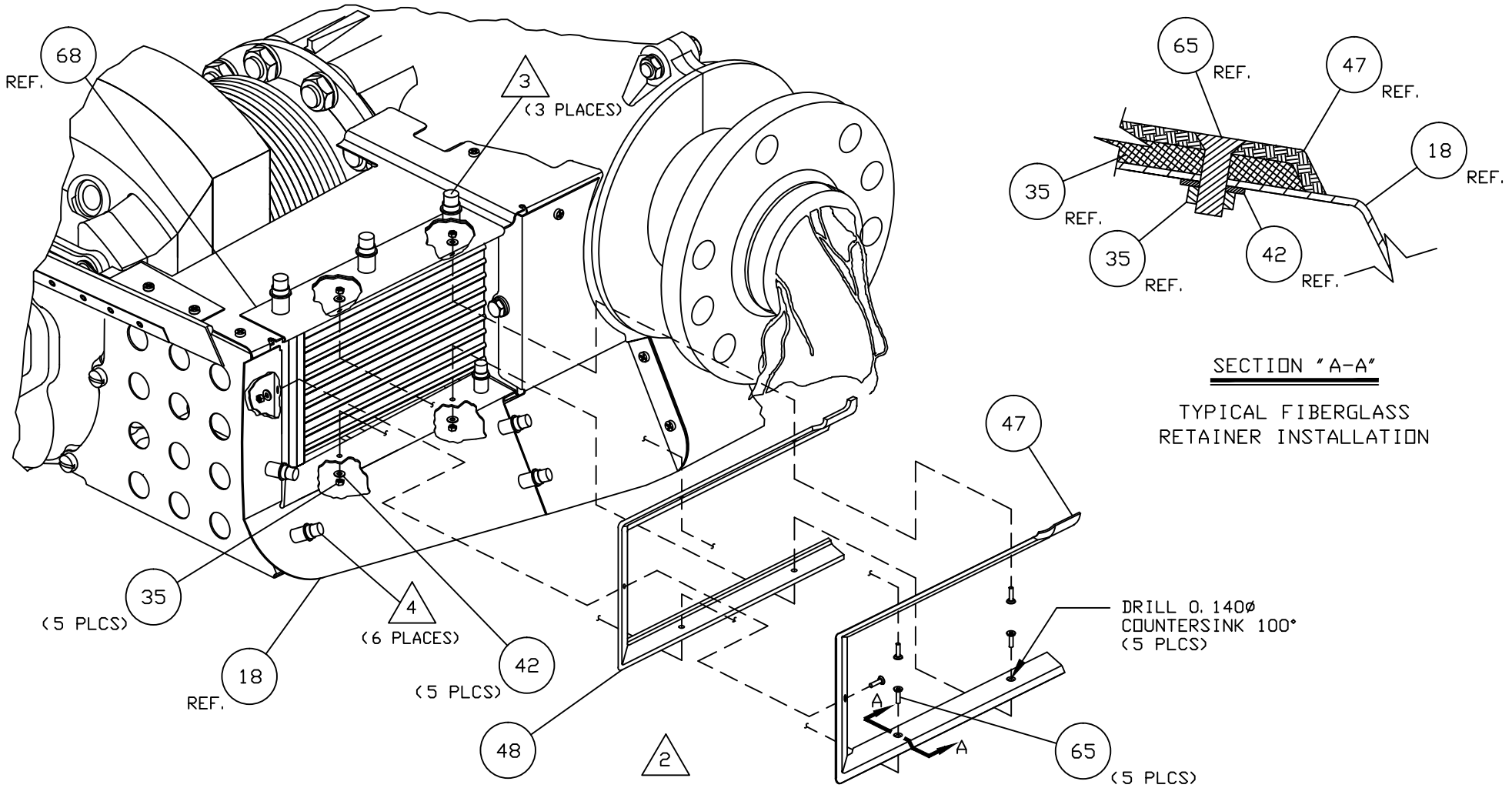
INSTALLATION GASKET FRONT

TOLERANCES
.X__.10 .XXX__.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-20 | REVISION NC
SCALE: NONE | DATE 05/15/10 | SH 1 OF 6

NOTES:
1. INSTALL ITEM (68) USING CLECOS..



SECTION "A-A"

TYPICAL FIBERGLASS
RETAINER INSTALLATION

4 REMOVE THE CLECOS AND REPLACE USING ITEM (14).

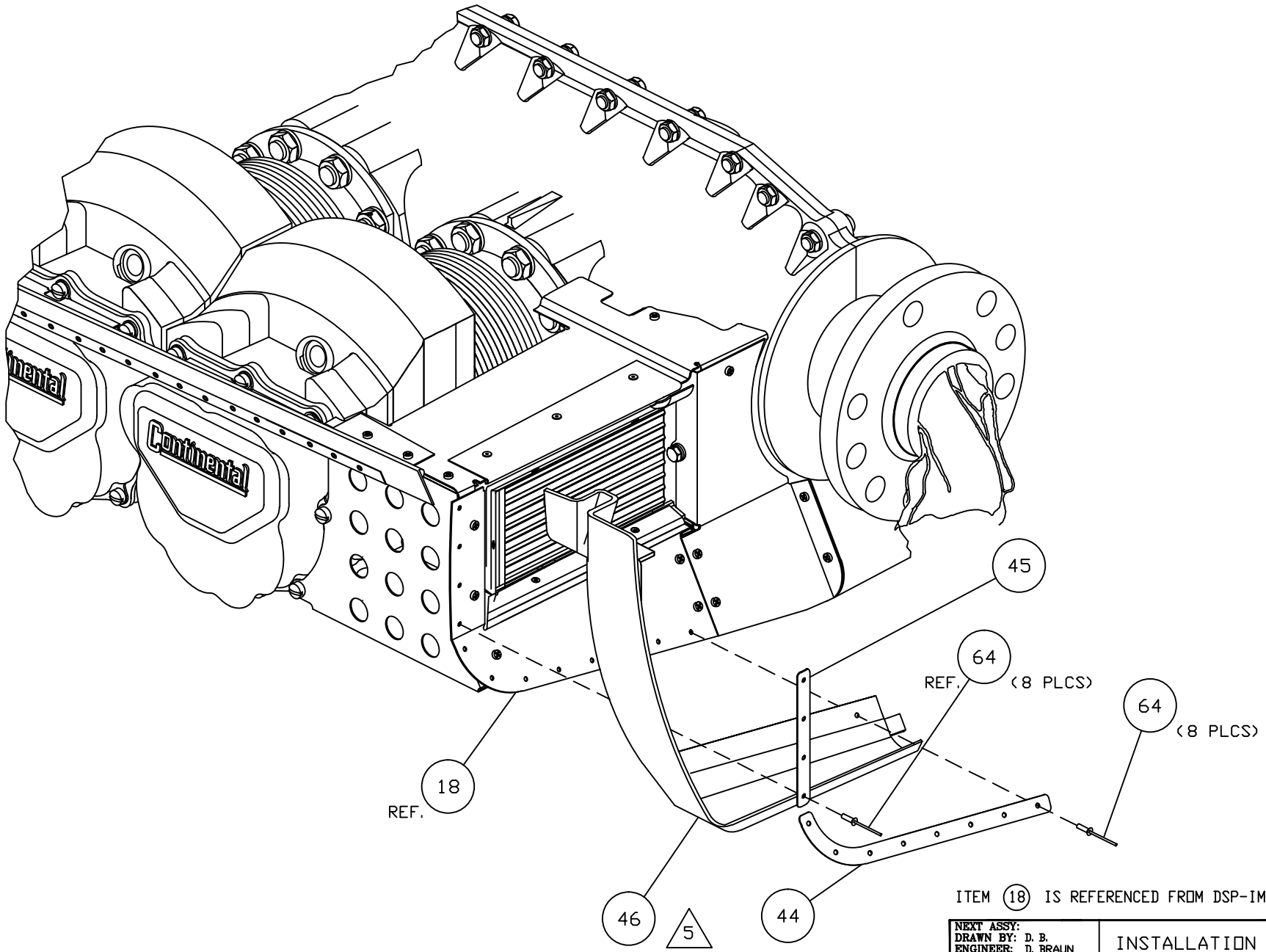
3 REMOVE THE CLECOS AND REPLACE USING ITEM (64).

2 PLACE ITEM (48) AND (47) AS SHOWN AND MARK THE HOLES. REMOVE ITEMS (18) AND (68). ON THE WORK BENCH DRILL FIVE PLACES WITH A NO. 28 DRILL BIT. ASSEMBLE THE ITEMS (65), (42) AND (35) AND INSTALL ON THE ENGINE.

NOTES:

ITEM (18) IS REFERENCED FROM DSP-IM97-1-12, SHEET 1.

NEXT ASSY:	INSTALLATION GASKET FRONT
DRAWN BY: D. B.	
ENGINEER: D. BRAUN	
CHECKED BY: D. B.	
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
DWG. No. DSP-IM97-1-20	REVISION NC
SCALE: NONE	DATE 05/15/10 SH 2 OF 6

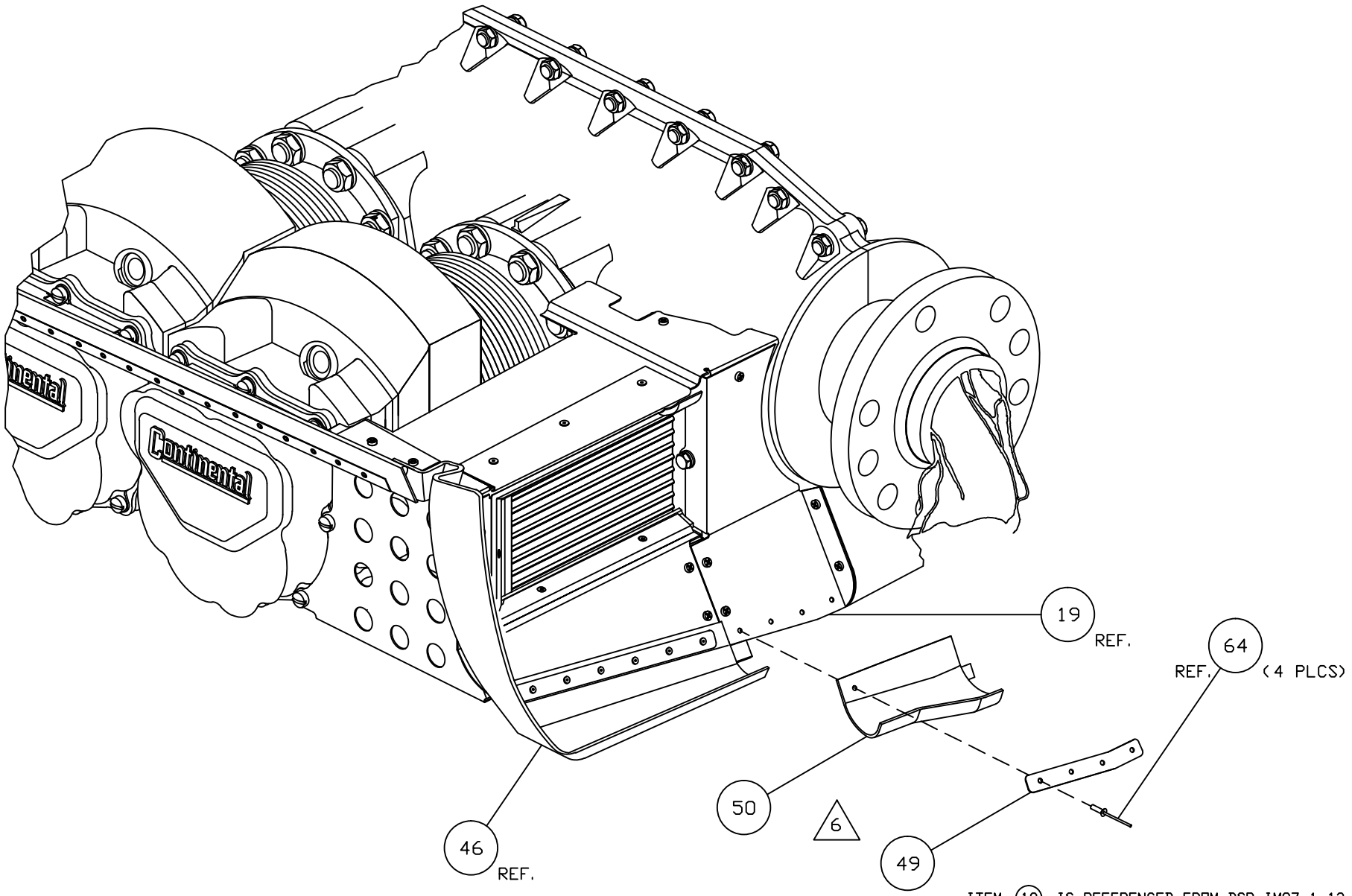


ITEM (18) IS REFERENCED FROM DSP-IM97-1-12, SHEET 1.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION GASKET FRONT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-20 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 3 OF 6

NOTES:

5 INSTALL ITEM (46) AS SHOWN USING ITEMS (44), (45) AND (64).

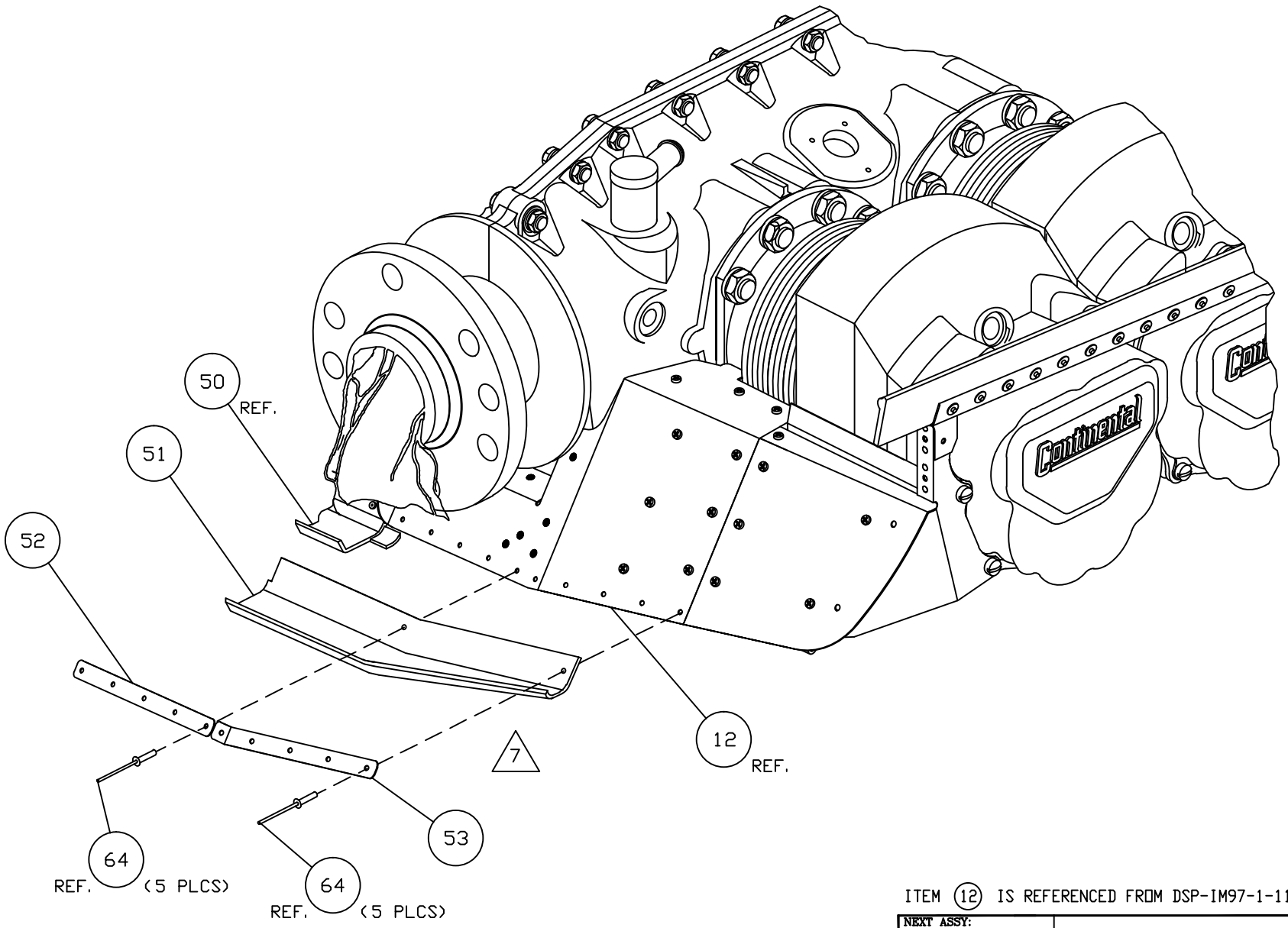


ITEM (19) IS REFERENCED FROM DSP-IM97-1-12, SHEET 1.

NOTES:

6 INSTALL ITEM (50) AS SHOWN USING ITEMS (49) AND (64).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION GASKET FRONT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-20 | REVISION NC
	SCALE: NONE | DATE 05/15/10 | SH 4 OF 6

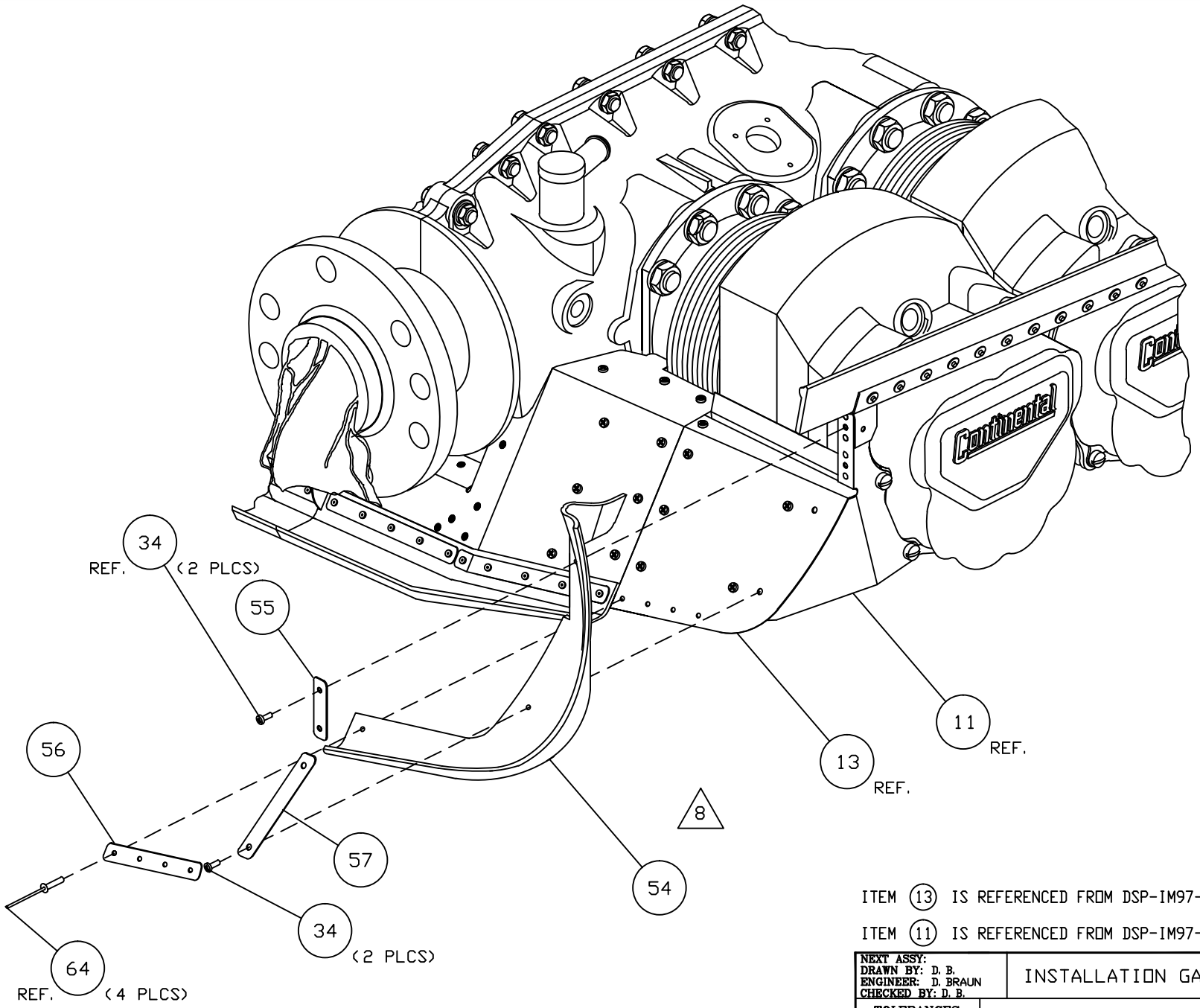


ITEM (12) IS REFERENCED FROM DSP-IM97-1-11, SHEET 1.

7 INSTALL ITEM (51) AS SHOWN USING ITEMS (52), (53) AND (64).

NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION GASKET FRONT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-20 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 5 OF 6



ITEM (13) IS REFERENCED FROM DSP-IM97-1-11, SHEET 1.

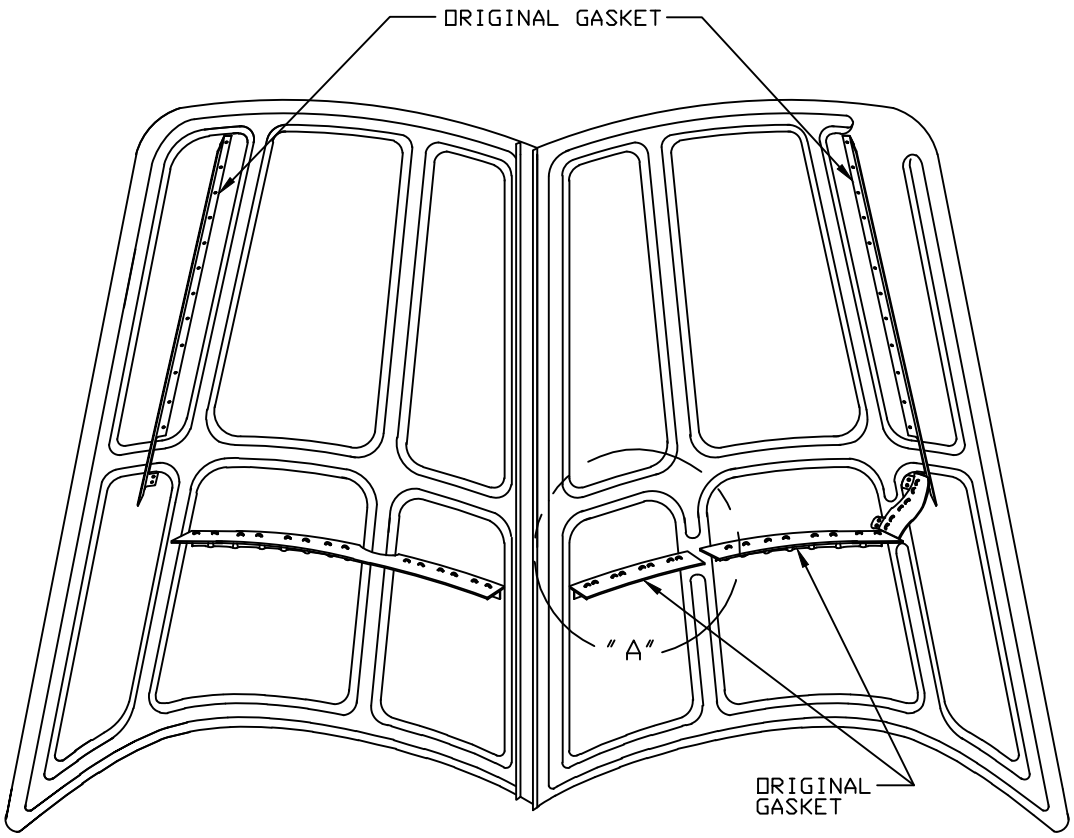
ITEM (11) IS REFERENCED FROM DSP-IM97-1-11, SHEET 1.

NOTES:

8 INSTALL ITEM (54) AS SHOWN USING ITEMS (55), (56), (57), (34) AND (64).

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	INSTALLATION GASKET FRONT
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM97-1-20 REVISION NC
	SCALE: NONE DATE 05/15/10 SH 6 OF 6

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10



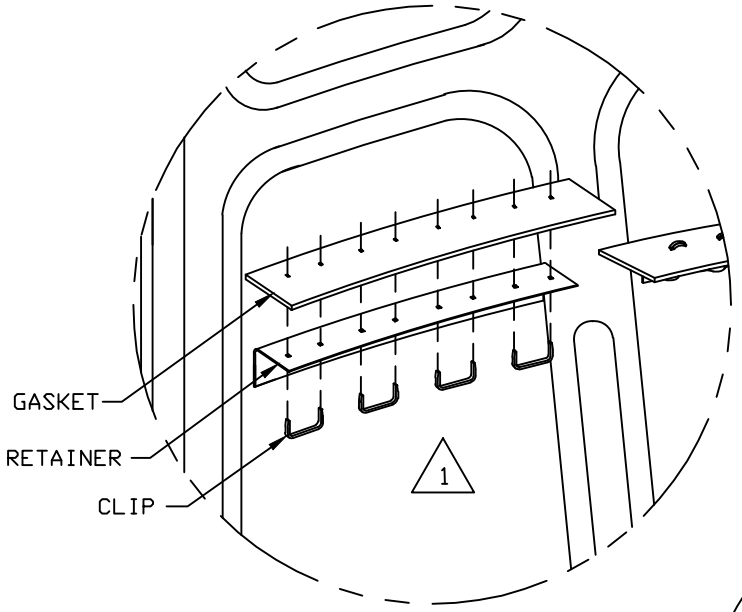
SEE DETAIL "A"
ON SHEET 2 OF 2

NOTES:

2. - REMOVAL THE ORIGINAL GASKET ON BOTH SIDES OF COWLING.

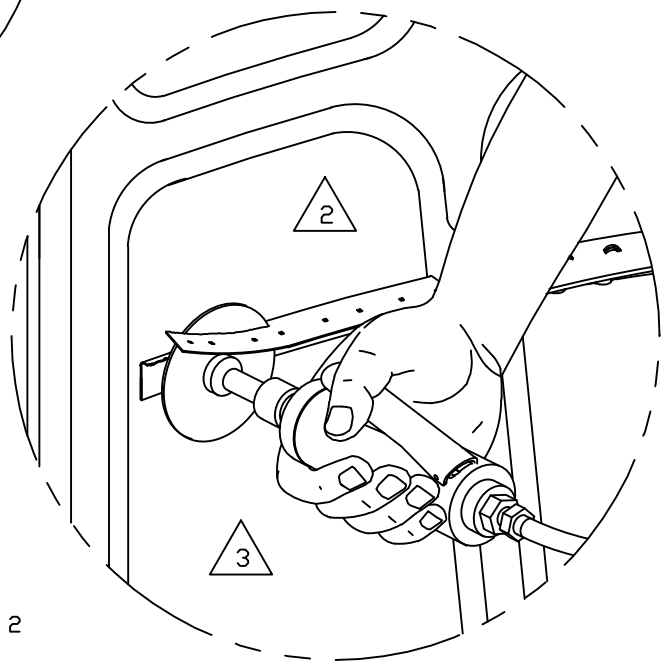
1. - SEE DETAIL "A" ON SHEET 2 OF 2

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	REMOVAL OF ORIG. COWLING GASKETS
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
DWG. No. DSP-IM95-1-25A	REVISION NC
SCALE: NONE	DATE 05/15/10 | SH 1 OF 2



DETAIL "A" STEP 1

COMES FROM SHEET 1 OF 2



DETAIL "A" STEP 2

COMES FROM SHEET 1 OF 2

NOTES:

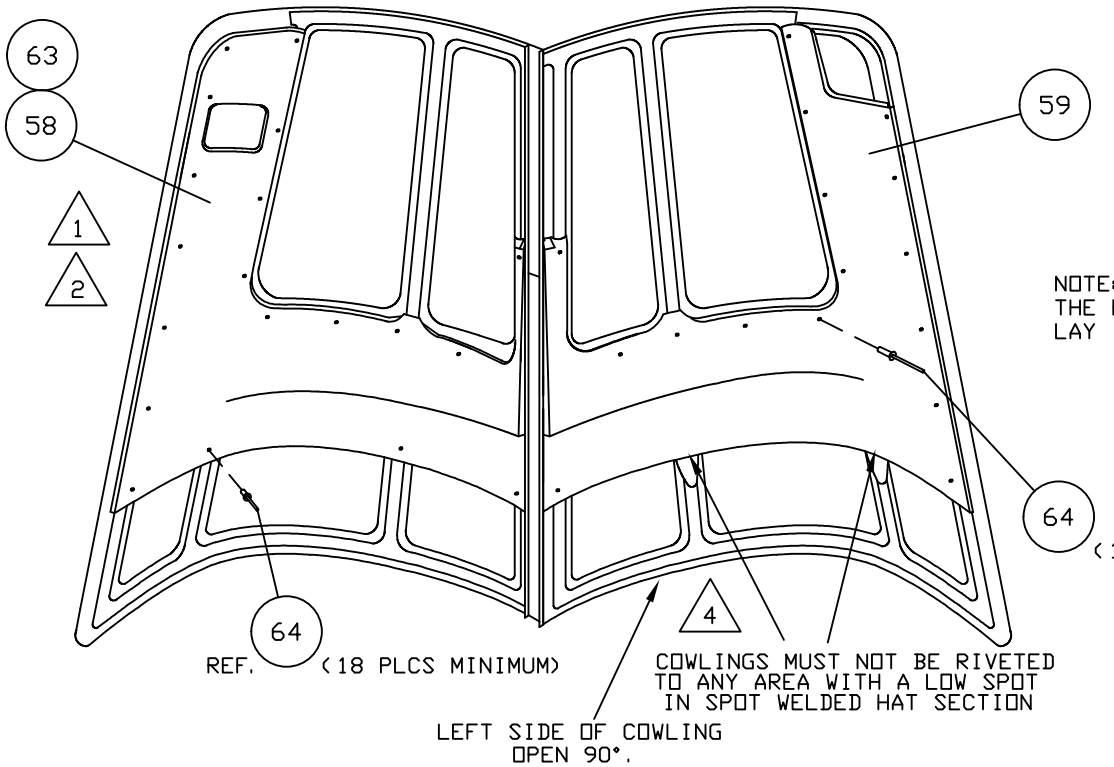
3 REMOVE ALL SHARP EDGES AND BURRS USING A CUTTING TOOL. THEN SMOOTH ALL EDGES WITH A FILE.

2 CUT OFF THE ORIGINAL GASKET RETAINERS. NOTE: TAKE CARE NOT TO DAMAGE THE RETAINER SURFACE.

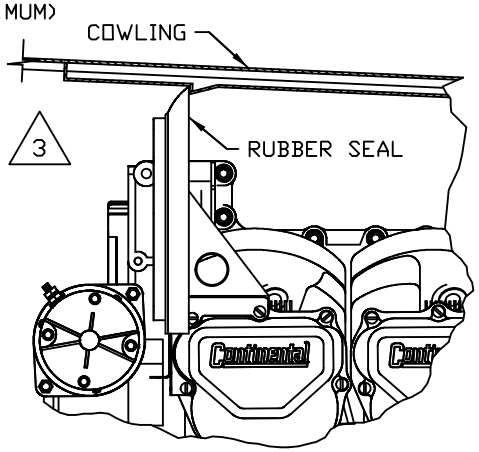
1 REMOVE CLIPS AND GASKET. NOTE: DO NOT REMOVE RIVETS FROM RETAINERS.

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B.	REMOVAL OF ORIG. COWLING GASKETS
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	*D'SHANNON PRODUCTS, LTD*
	DWG. No. DSP-IM95-1-25A REVISION NC
	SCALE: NONE DATE 05/15/10 SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	5/15/10
A	ADDED NOTE	L. L.	03/02/16



NOTE: MUST START THE RELIEF CUTS AT THE HINGE SIDE OF THE F.C.I. AS YOU WORK YOUR WAY OUTBOARD THE F.C.I. WILL LAY INTO PLACE



RIGHT SIDE VIEW

ONLY FOR EXPLANATION

△4 REPEAT BOTH SIDES. APPLY AUTO WAX OR A SILICONE BASED LUBRICANT ON THE SEAL AND THE F.C.I. FACE WHERE THE SEAL MEETS THE F.C.I.

△3 CLOSE ONE COWL DOOR AT A TIME AND CHECK THE RUBBER SEAL AGAINST THE F.C.I. RAISED FLANGE. MARK ANY PORTION OF THE SEAL THAT HITS THE FORMED LIP WHEN CLOSING. TRIM TO MARKED LINE. REPEAT CLOSING AND TRIM SEAL SO THE EDGE OF THE SEAL LIES AFT OF THE F.C.I. LIP BY APPROXIMATELY 1/8".

△2 INSTALL THE BEECH COWLING ON THE AIRCRAFT AND TIGHTEN FASTENERS.

△1 INSTALL THE ENTIRE FIBERGLASS COWLING INSERTS (F.C.I.) ITEMS (58) AND (59). THE COWLING PLATES FIT ALL UNMODIFIED BEECH COWLINGS.
IMPORTANT: THE F.C.I. ARE MADE TO FIT INSIDE THE ORIGINAL COWL. THEREFORE THE CONTOUR IS LARGER AT THE INSIDE SKIN OF THE COWL THAN THE EDGES OF THE F.C.I.
CENTER THE F.C.I. ON TOP OF THE RIDGES AND RELIEVE WITH A FILE TO LOWER THE F.C.I. TO THE INSIDE SKIN OF THE COWL DOOR.
WHEN THE FIT IS SATISFACTORY FASTEN THE OUTER EDGES TO THE ORIGINAL BEECH COWL SUPPORT STRUCTURE WITH RIVETS ITEM (64).
APPLY SILICONE SEAL ITEM (63) TO FILL ANY AIR GAPS IN THE MATING EDGES OF THE COWL AND AROUND THE STRINGERS AND THE FIBERGLASS MATING SURFACES.

NOTES:

ITEM	QTY	PART No.	DESCRIPTION
64	35	AD44H	POP RIVET
63	A. R.	G. E. SILICONE II	SILICONE SEALANT
59	1	STCP-02	BAFFLE COWLING INSIDE LEFT
58	1	STCP-01	BAFFLE COWLING INSIDE RIGHT

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: R. R.
CHECKED BY: L. L.

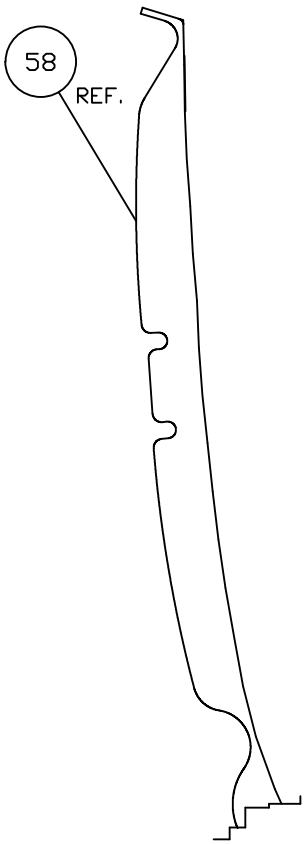
INSTL BAFFLE COWLING PLATES

TOLERANCES
.X___.10 .XXX___.01
.XX__.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

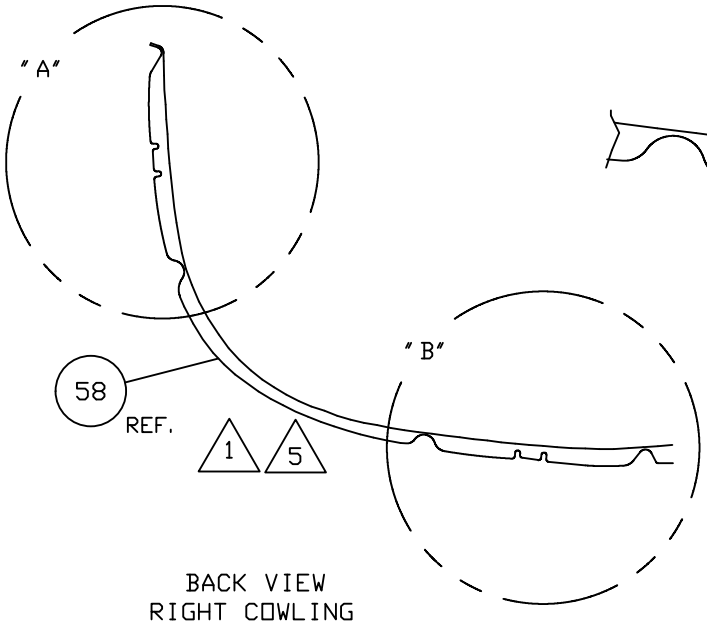
D'SHANNON PRODUCTS, LTD

DWG. No. DSP-IM97-1-21 | REVISION A

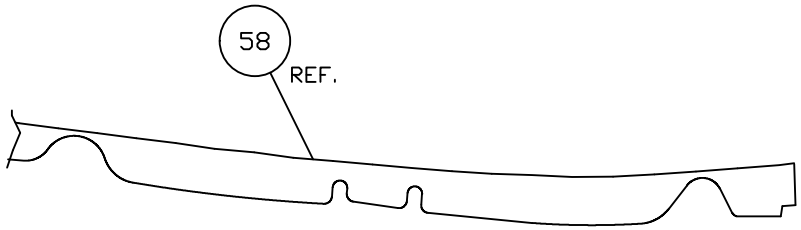
SCALE: NONE | DATE 03/02/16 | SH 1 OF 3



DETAIL "A"



BACK VIEW
RIGHT COWLING



DETAIL "B"

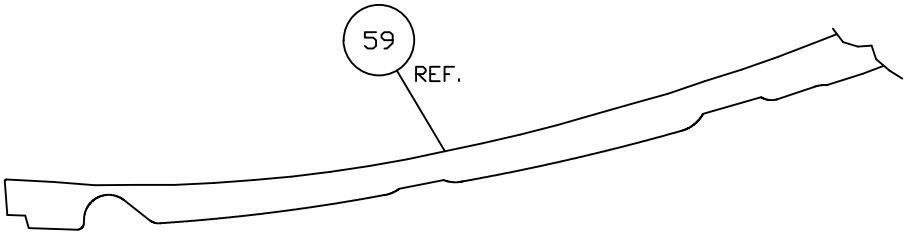
NOTE: MUST START THE RELIEF CUTS AT THE HINGE SIDE OF THE F.C.I. AS YOU WORK YOUR WAY OUTBOARD THE F.C.I. WILL LAY INTO PLACE

NOTES:

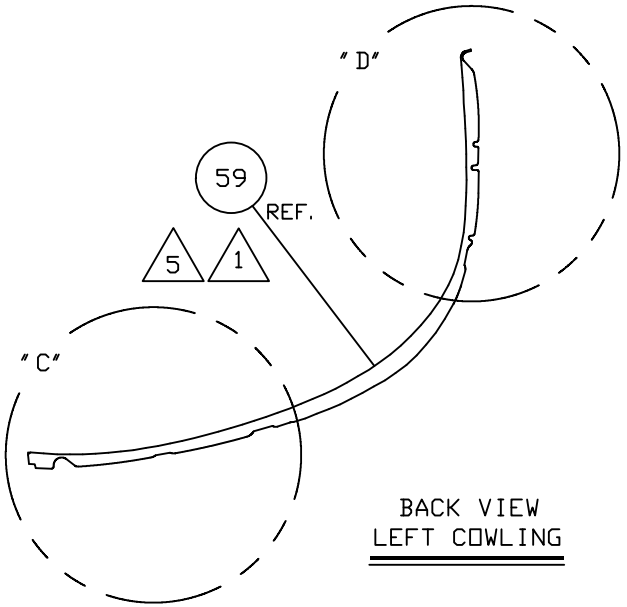
△5 IF NECESSARY ADJUST GAPS FILED IF ADDITIONAL OR LESS STRUCTURE IS FOUND IN COWLING THAN IS STANDARD.

△1 INSTALL THE ENTIRE FIBERGLASS COWLING INSERTS (F.C.I.) ITEMS (58) AND (59). THE COWLING PLATES FIT ALL UNMODIFIED BEECH COWLINGS.
IMPORTANT: THE F.C.I. ARE MADE TO FIT INSIDE THE ORIGINAL COWL. THEREFORE THE CONTOUR IS LARGER AT THE INSIDE SKIN OF THE COWL THAN THE EDGES OF THE F.C.I.
CENTER THE F.C.I. ON TOP OF THE RIDGES AND RELIEVE WITH A FILE TO LOWER THE F.C.I. TO THE INSIDE SKIN OF THE COWL DOOR.
WHEN THE FIT IS SATISFACTORY FASTEN THE OUTER EDGES TO THE ORIGINAL BEECH COWL SUPPORT STRUCTURE WITH RIVETS ITEM (64).
APPLY SILICONE SEAL ITEM (63) TO FILL ANY AIR GAPS IN THE MATING EDGES OF THE COWL AND AROUND THE STRINGERS AND THE FIBERGLASS MATING SURFACES.

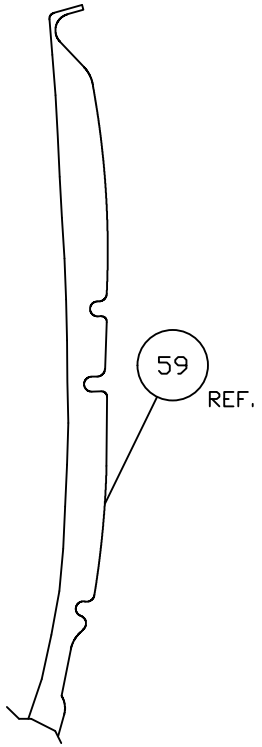
NEXT ASSY:	INSTL BAFFLE COWLING PLATES
DRAWN BY: D. B.	
ENGINEER: R. R.	
CHECKED BY: L. L.	
TOLERANCES .X___.10 .XXX___.01 .XX__.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-21 REVISION A
	SCALE: NONE DATE 03/02/16 SH 2 OF 3



DETAIL "C"



BACK VIEW
LEFT COWLING



DETAIL "D"

NOTE: MUST START THE RELIEF CUTS AT THE HINGE SIDE OF THE F. C. I. AS YOU WORK YOUR WAY OUTBOARD THE F. C. I. WILL LAY INTO PLACE

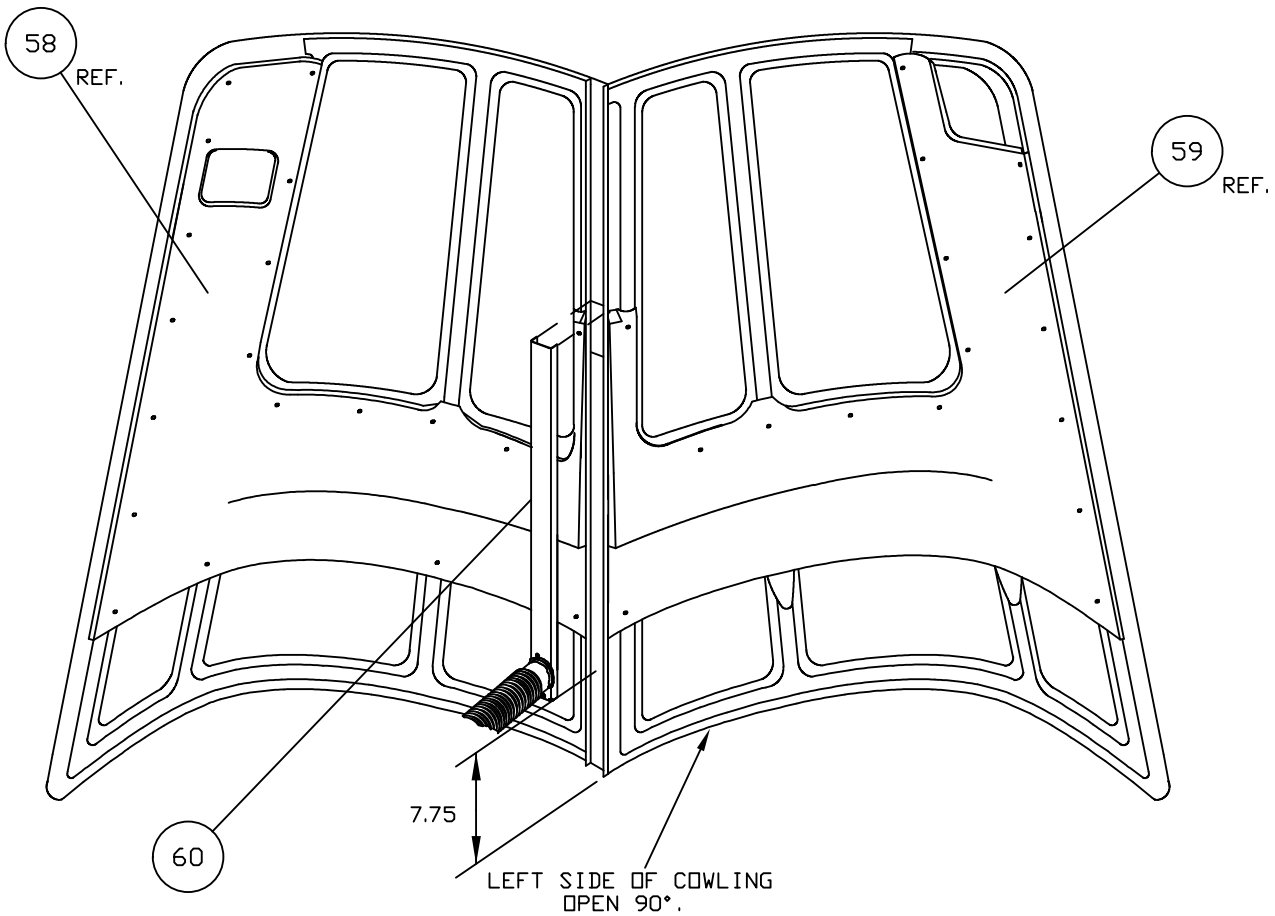
NOTES:

5 IF NECESSARY ADJUST GAPS FILED IF ADDITIONAL OR LESS STRUCTURE IS FOUND IN COWLING THAN IS STANDARD.

1 INSTALL THE ENTIRE FIBERGLASS COWLING INSERTS (F.C.I.) ITEMS (58) AND (59). THE COWLING PLATES FIT ALL UNMODIFIED BEECH COWLINGS.
IMPORTANT: THE F.C.I. ARE MADE TO FIT INSIDE THE ORIGINAL COWL. THEREFORE THE CONTOUR IS LARGER AT THE INSIDE SKIN OF THE COWL THAN THE EDGES OF THE F.C.I.
CENTER THE F.C.I. ON TOP OF THE RIDGES AND RELIEVE WITH A FILE TO LOWER THE F.C.I. TO THE INSIDE SKIN OF THE COWL DOOR.
WHEN THE FIT IS SATISFACTORY FASTEN THE OUTER EDGES TO THE ORIGINAL BEECH COWL SUPPORT STRUCTURE WITH RIVETS ITEM (64).
APPLY SILICONE SEAL ITEM (63) TO FILL ANY AIR GAPS IN THE MATING EDGES OF THE COWL AND AROUND THE STRINGERS AND THE FIBERGLASS MATING SURFACES.

NEXT ASSY:	INSTL BAFFLE COWLING PLATES
DRAWN BY: D. B.	
ENGINEER: R. R.	
CHECKED BY: L. L.	
TOLERANCES .X___.10 .XXX___.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD
	DWG. No. DSP-IM97-1-21 REVISION A
	SCALE: NONE DATE 03/02/16 SH 3 OF 3

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10
A	ADDED ITEM 73	L. L.	03/02/16



DIMENSION 7.75 AND VIEW ONLY FOR
D'SHANNON PRODUCTS WET VACUUM PUMP
STC'D SYSTEM

SEE SH 2 OF 2 FOR DETAILED COWLING
HOSE HOLDER INSTALLATION.

ITEM (58) IS REFERENCED FROM DSP-IM97-1-21, SHEET 1.

ITEM (59) IS REFERENCED FROM DSP-IM97-1-21, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
73	1	242001-S	FUEL PUMP BLAST TUBE
64	6	AD44H	POP RIVET
63	A. R.	G. E. SILICONE II	SILICONE SEALANT
62	2	AN960C4	FLAT WASHER
60	1	242005	COWLING HOSE HOLDER

NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: R. R.
CHECKED BY: L. L.

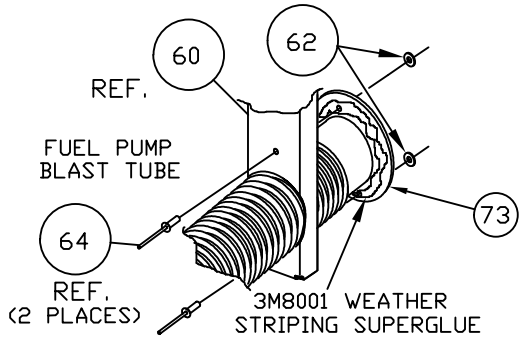
INSTL OF COWLING HOSE HOLDER OPT. 'A'

TOLERANCES
.X___.10 .XXX___.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

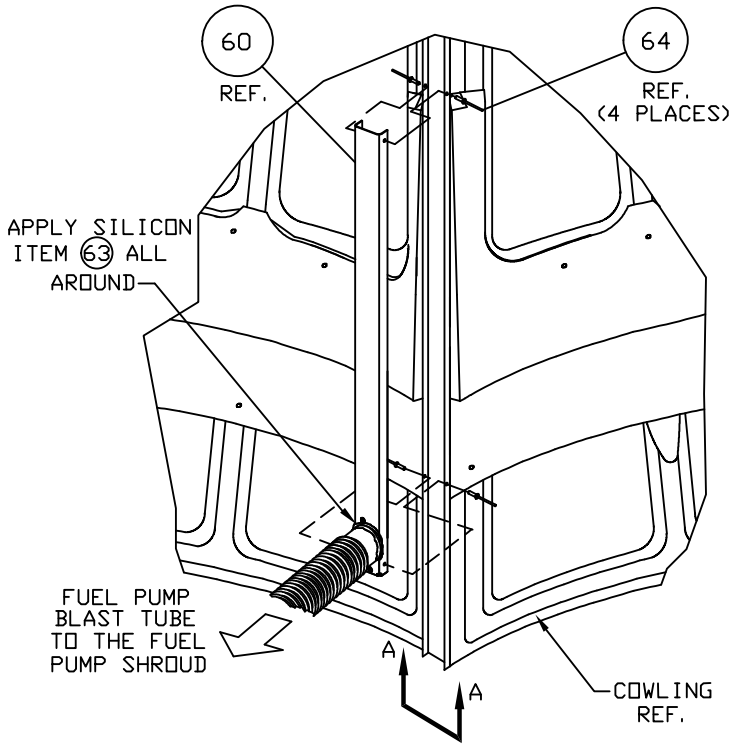
DWG. No. DSP-IM97-1-22 | REVISION A

SCALE: NONE | DATE 03/02/16 | SH 1 OF 2

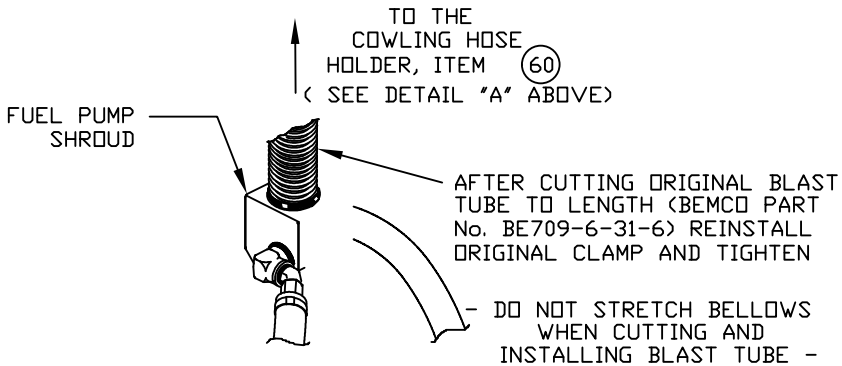


STEP 1

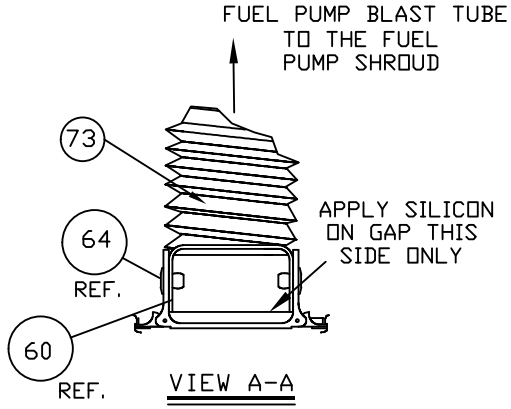
FUEL PUMP BLAST TUBE
INSTALLATION



STEP 2



STEP 3



VIEW A-A

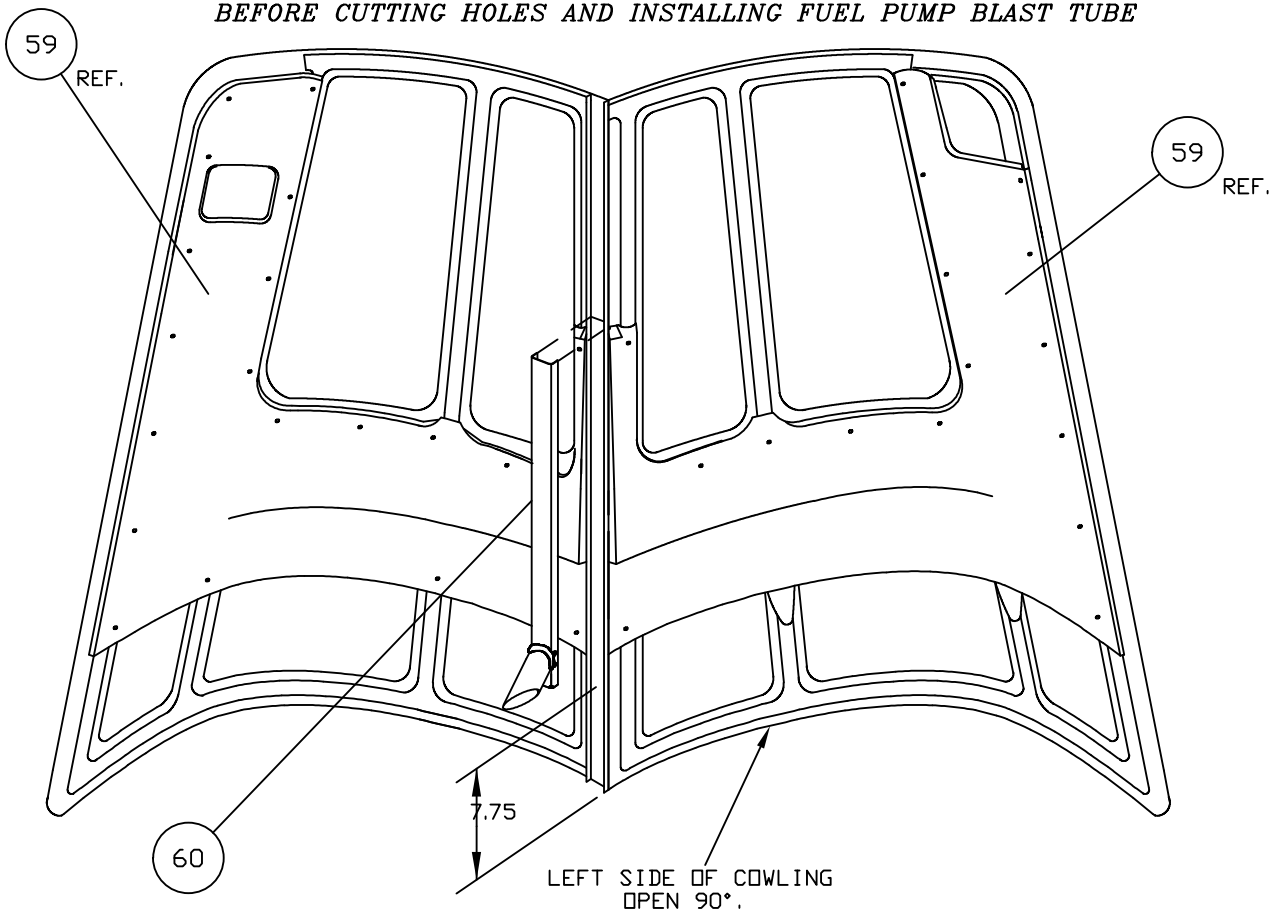
TYPICAL INSTALLATION OF
POP RIVETS
(ONCE ITEM (60) IS INSTALLED)

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	INSTL OF COWLING HOSE HOLDER OPT. "A"		
TOLERANCES .X___.10 .XXX___.01 .XX__.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD		
	DWG. No. DSP-IM97-1-22	REVISION A	
	SCALE: NONE	DATE 03/02/16	SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	D. B.	05/15/10
A	ADDED ITEM 61 NOTE	L. L.	03/02/16

— *WARNING* —

READ AND BE FAMILIAR WITH INSTRUCTIONS
BEFORE CUTTING HOLES AND INSTALLING FUEL PUMP BLAST TUBE



SEE SH 2 OF 2 FOR DETAILED
AIR DISCHARGE TUBE ASSEMBLY INSTALLATION.

ITEM (61) ASSEMBLED USING EXHISTING DUCT WHEN REQUIRED.

ITEM (58) IS REFERENCED FROM DSP-IM97-1-21, SHEET 1.

ITEM (59) IS REFERENCED FROM DSP-IM97-1-21, SHEET 1.

ITEM	QTY	PART No.	DESCRIPTION
64	6	AD44H	POP RIVET
63	A. R.	G. E. SILICONE II	SILICONE SEALANT
61	1	242016Z	AIR DISCHARGE TUBE ASSEMBLY

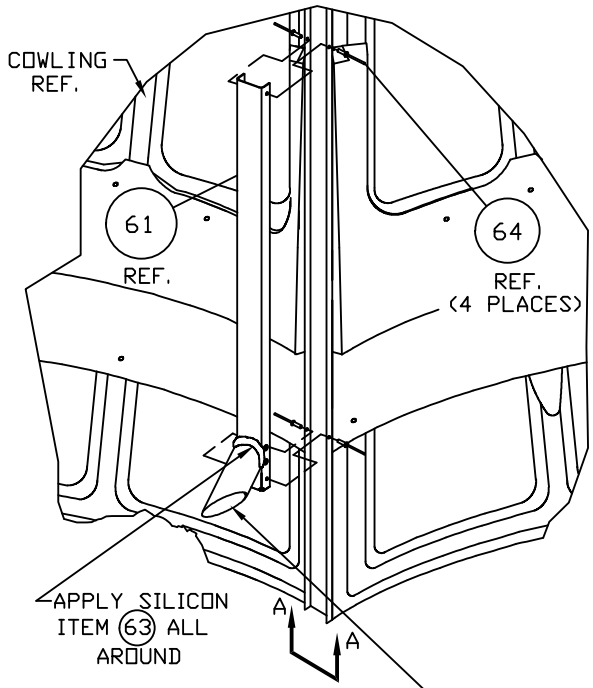
NEXT ASSY:
DRAWN BY: D. B.
ENGINEER: R. R.
CHECKED BY: L. L.

INSTL OF COWLING HOSE HOLDER OPT. 'B'

TOLERANCES
.X___.10 .XXX___.01
.XX_.03 .XXXX_.001
ANGLES ±5%
UNLESS STATED

D'SHANNON PRODUCTS, LTD

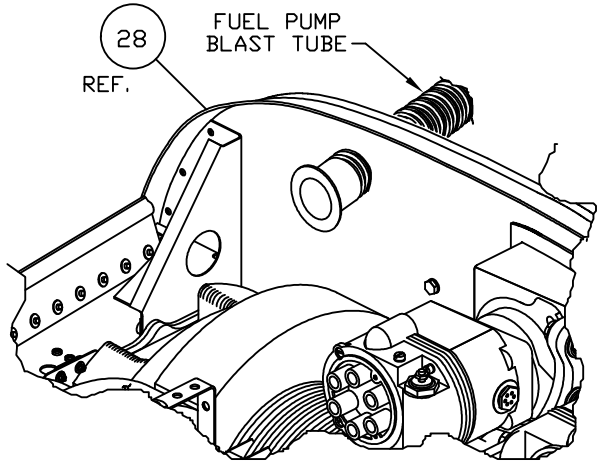
DWG. No. DSP-IM97-1-22A | REVISION A
SCALE: NONE | DATE 03/02/16 | SH 1 OF 2



ALIGN THE DISCHARGE OF THE TUBE TO THE FINS ON PRESSURE PUMP, TUBE SHOULD NOT TOUCH DRY PRESSURE PUMP OR DRY VACUUM PUMP

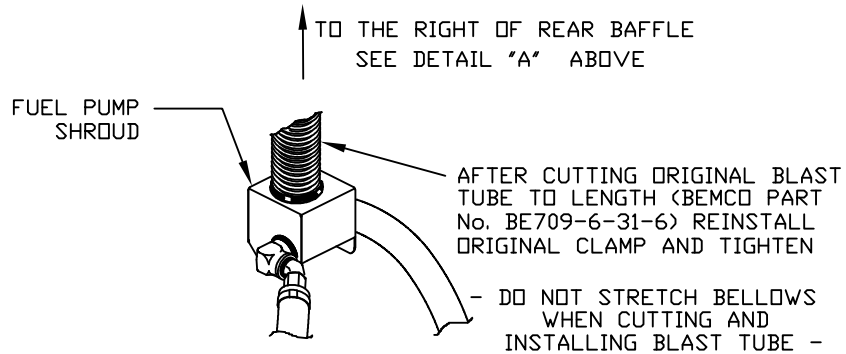
ONLY FOR PRESSURE PUMP SYSTEM NOT FOR D'SHANNON PRODUCTS WET VACUUM PUMP STC'D SYSTEM

STEP 1

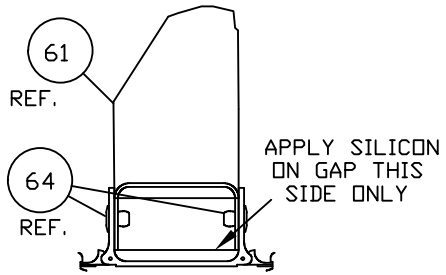


FUEL PUMP BLAST TUBE INSTALLATION TO THE RIGHT OF REAR BAFFLE AS HIGH AS PRACTICAL

STEP 2



STEP 3



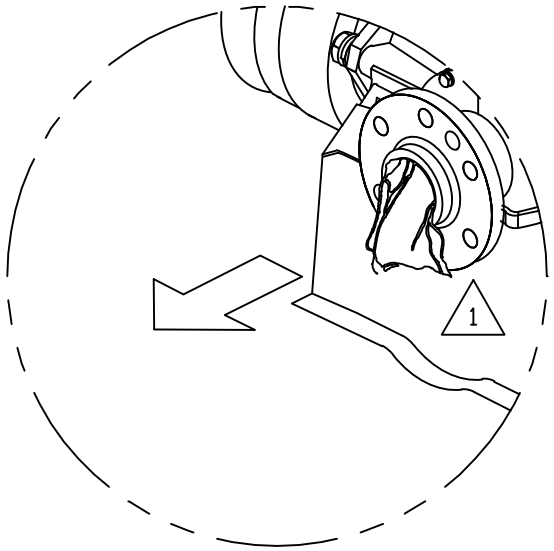
VIEW A-A

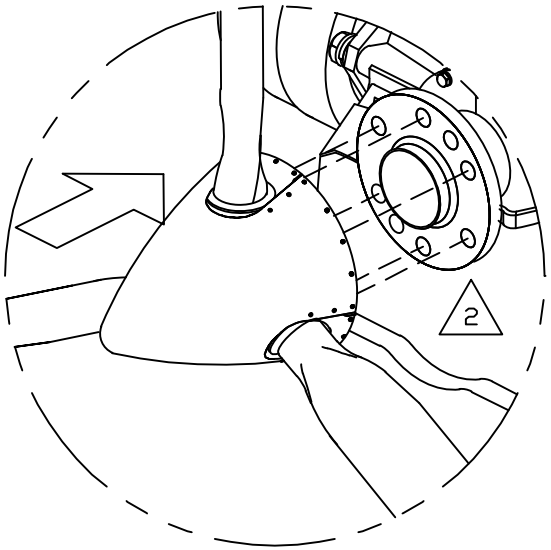
TYPICAL INSTALLATION OF POP RIVETS

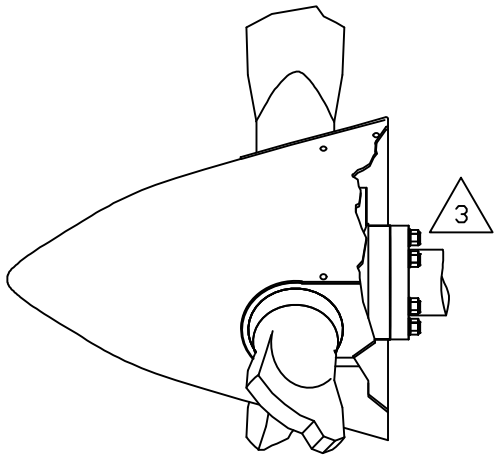
(ONCE ITEM (61) IS INSTALLED)

NEXT ASSY: DRAWN BY: D. B. ENGINEER: R. R. CHECKED BY: L. L.	INSTL OF COWLING HOSE HOLDER OPT. 'B'		
TOLERANCES .X___.10 .XXX___.01 .XX__.03 .XXXX_.001 ANGLES ±5% UNLESS STATED	D'SHANNON PRODUCTS, LTD		
	DWG. No.DSP-IM97-1-22A	REVISION A	
	SCALE: NONE	DATE 03/02/16	SH 2 OF 2

REVISION RECORD			
LTR.	CHANGES	BY	DATE
NC	RELEASED	K. S.	04/24/09
A	MOVED NOTES. REMOVE SH 2.	D. B.	03/08/10







NOTES:

3 TIGHTEN AND TORQUE AS PER PROP MANUFACTURE'S TORQUE VALUES. AND IF REQUIRED INSTALL SAFETY WIRE IN ACCORDANCE WITH AC-43. 13 .

2 REINSTALL THE PROPELLER AFTER INSTALLATION OF THE BAFFLES. ASSURE THAT THE ENGINE HAS #1 CYLINDER ON COMPRESSION AND #1 BLADE UP/ WHEN REQUIRED BY MANUFACTURER'S INSTRUCTIONS.

1 WARNING : REMOVE ANY RAG OR CAP FROM THE PROPELLER SHAFT IN THE FRONT OF THE ENGINE

ITEM	QTY	PART No.	
NEXT ASSY: DRAWN BY: K. R. S. ENGINEER: D. BRAUN CHECKED BY: D. B.			INSTALLATION OF PROPELLER
TOLERANCES .X__.10 .XXX__.01 .XX_.03 .XXXX_.001 ANGLES ±5% UNLESS STATED			D'SHANNON PRODUCTS, LTD
		DWG. No. DSP-IM95-1-27	REVISION A
		SCALE: NONE DATE 04/24/09	SH 1 OF 1