D'Shannon Products, LTD

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|------|--|--|----------|
| | REVISION RECORD | | |
| LTR. | CHANGES | BY | DATE |
| NC | RELEASED | D. B. | 05/06/11 |
| A | ADD STC(S) AND IU-470 ENGINE | D. B. | 01/12/12 |
| В | ADD STC | D. B. | 03/23/12 |

INSTALLATION MANUAL

DSP-IM95-10

STC SA2200SW STC SA2361CH

STC SA2660SW

STC SA5527SW

STC SA5635SW

REVISION B

INSTALLATION DRAWINGS
AND INSTRUCTIONS
INDUCTION AIR BOX
IO-550/520
IO-470

FAA APPROVED

MAR 0 7 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

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

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | | | | С | 0 | VER | : S | HEE | Т | | | 2772-6 | | |
|--|--------------|----|-----|--------------|------|-----|-----|-----|-----|-------|---|--------|---|--|
| TOLERANCES X_10 XXX_01 | D^{\prime} | S | HA | 4 <i>N</i> . | NO1 | V | PI | RO. | DU | CTS | , | LT | D | |
| .XX03 .XXXX001 ANGLES ±5% | DWC | ١. | NoI | SP. | -IM9 | 5 | -10 | -1 | REV | ISION | ī | В | | |
| UNLESS STATED | SCA | LF | : N | INE | DAT | E | 05/ | 06 | /11 | SH | 1 | DF | 1 | |

NUMERICAL DRAWING LIST CONTROL

| DWG. No. | DATED | REV. | No. SHTS | EFF, EO | EO | EO | EO | DESCRIPTION |
|----------------|----------|-------|-------------|---------|-------------|----|----|--|
| DSP-IM95-10-1 | 03/23/12 | В | 1 | | | | | COVER SHEET |
| DSP-IM95-10-2 | 03/23/12 | В | 1 | | | | | NUMERICAL DRAWING LIST |
| DSP-IM95-10-3 | 05/06/11 | NC | 1 | | | | | INSTALLATION BILL OF MATERIAL |
| | 05/06/11 | NC | 3 | | | | | REMOVAL OF ORIGINAL AIR HORN |
| DSP-IM95-10-10 | 05/06/11 | NC | 4 | | 350 Sent. = | | | INSTALLATION OF REINFORCE ANGLE |
| DSP-IM95-10-12 | | NC | 1 | | | | | INSTALLATION OF SHIM AND REINFORCE PLATE |
| DSP-IM95-10-14 | | NC | 2 | | | | | INSTALLATION OF AIR HORN |
| DSP-IM95-10-15 | | NC | 5 | | | | | INSTALLATION OF CHANNELS |
| DSP-IM95-10-20 | | | 6 | | | | | INSTALLATION OF CONTROL CABLE |
| DSP-IM95-10-26 | | W0.00 | 2 | | | | | INSTALLATION OF HOSE TO THROTTLE BODY |
| AMARIA AMARIA | | | | | | | | |

| | REVISION RECORD | | |
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| LTR. | CHANGES | BY | DATE |
| NC | RELEASED | D. B. | 05/06/11 |
| A | NEW COVER SHEET | D. B. | 01/12/12 |
| В | NEW COVER SHEET | D. B. | 03/23/12 |

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MAR 07 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | NU | IME | RICA | 4L 1 | DRA | WIN | 1G L | _I | ST | | |
|--|----|---------|------|------|------|------|------|-------|----|----|---|
| TOLERANCES X10 XXX01 | D | SHA | NΝ | ION | PI | 201 | DUC | CTS | , | LT | D |
| XX03 XXXX001 ANGLES ±6% | DW | G. No. | DSP | -IM9 | 5-10 | -2 | REV | ISION | ī | В | |
| UNLESS STATED | SC | ALE: NO | NE. | DATE | 05/ | ′06. | /11 | SH | 1 | OF | 1 |

| 31 | DSP-IM95-10-26 | 2 | QS200M56S | CLAMP |
|----|--------------------|-------|------------------|--------------------------|
| 30 | DSP-IM95-10-26 | 1 | 258004Z | BEMCO HOSE |
| 29 | DSP-IM95-10-15 | 1 | 716009 | AIR BOX CHANNEL |
| 28 | DSP-IM95-10-15 | 1 | 716008 | AIR BOX CHANNEL |
| 27 | DSP-IM95-10-20 | 2 | AN3-5A | BOLT |
| 26 | DSP-IM95-10-15 | 2 | 716007Z | AIR BOX CHANNEL ASSEMBLY |
| 25 | DSP-IM95-10-15 | 1 | P105304 | AIR FILTER ASSEMBLY |
| 24 | DSP-IM95-10-20 | A. R. | G. E SILICONE II | SILICONE SEALANT |
| 23 | DSP-IM95-10-20 | A. R. | MS20995C32 | , 032 Ø SAFETY WIRE |
| 22 | DSP-IM95-10-20 | 1 | 61-175 | FIREWALL SHIELD |
| 21 | DSP-IM95-10-20 | 2 | AD44H | POP RIVET |
| 20 | DSP-IM95-10-14 | 1 | 716014Z | AIR HORN ASSEMBLY |
| 19 | DSP-IM95-10-20 | 4 | MS20365-1032 | LOCK NUT |
| 18 | DSP-IM95-10-20 | 1 | 716005 | CONTROL ATTACHING BOLT |
| 17 | DSP-IM95-10-20 | 1 | 35-380063-1 | CONTROL CABLE |
| | | | 002-410000-87 | BRACKET (ALT.) |
| 16 | DSP-IM95-10-20 | 1 | 35-919025-21 | BRACKET |
| 15 | DSP-IM95-10-20 | 2 | 716006 | BUSHING |
| | | | 002-910011-21 | LEVER (ALT.) |
| 14 | DSP-IM95-10-20 | 1 | 35-919025-23 | LEVER |
| 13 | DSP-IM95-10-20 | 7 | AN960-10 | WASHER |
| 12 | DSP-IM95-10-20 | 1 | AN3-6A | BOLT |
| 11 | DSP-IM95-10-20 | 1 | 100942-L0023-17 | SPRING |
| 10 | DSP-IM95-10-20 | 2 | TA1718DTS | CLAMP |
| 9 | DSP-IM95-10-15 | 40 | AN960-8L | WASHER |
| 8 | DSP-IM95-10-15 | 40 | NAS679-A08 | LOCK NUT |
| 7 | DSP-IM95-10-15 | 40 | AN525-832R8 | PAN HEAD SCREW |
| 6 | DSP-IM95-10-14 | 1 | 716004 | TEMPLATE |
| 5 | DSP-IM95-10-12 | 5 | 716003 | REINFORCE PLATE |
| 4 | DSP-IM95-10-12 | 2 | 716002 | MIHS |
| 3 | DSP-IM95-10-12 | 8 | MS20470AD5 | SOLID RIVET |
| 2 | DSP-IM95-10-10, 20 | 21 | MS20470AD4 | SOLID RIVET |
| 1 | DSP-IM95-10-10 | 1 | 716001 | ANGLE |
| | LOCATION OF ITEMS | QTY. | PART NUMBER | DESCRIPTION |

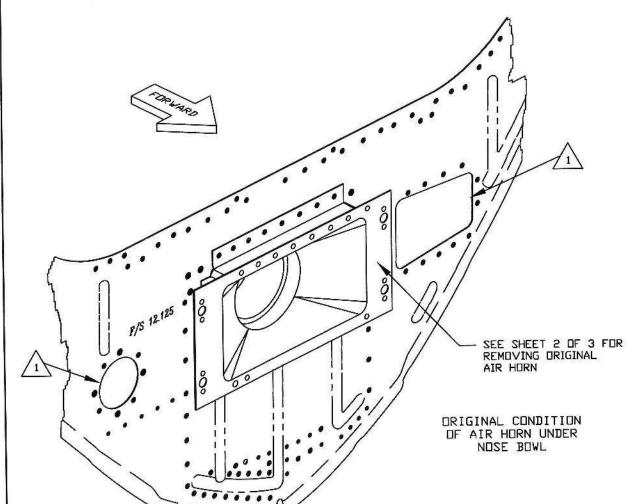
| | REVISION RECORD | | |
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| LTR. | CHANGES | BY | DATE |
| NC | REDRAWN | D. B. | 05/06/11 |

MAR 07 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | INSTA | LLATION | BILL | ΩF | MAT | TER I | AL |
|--|----------|-----------|--------|------|------|-------|----|
| TOLERANCES X10 XXX01 | D' SHA | NNON | PROL | UC | TS, | LTI | D |
| .XX09 .XXXX001 ANGLES ±5% | | DSP-IM95- | | | | NC | |
| UNLESS STATED | CALE: NO | NE DATE | 35/06/ | 11 : | 3H 1 | L OF | 1 |

| | REVISION RECORD | | |
|------|-----------------|-------|----------|
| LTR. | CHANGES | BY | DATE |
| NC | RELEASED | D. B. | 05/06/11 |

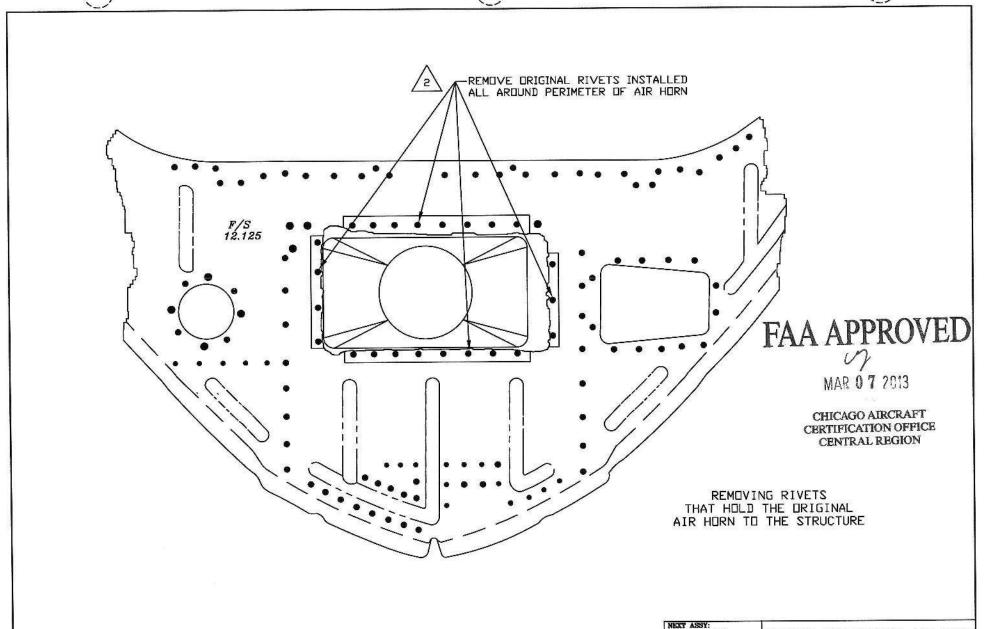


MAR 0 7 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

| DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | REMOVAL OF ORIGINAL AIR HORN |
|--|-------------------------------------|
| TOLERANCES X10 .XXX01 | D'SHANNON PRODUCTS, LTD |
| XX03 .XXXX001 ANGLES ±5% | DWG. No. DSP-IM95-10-6 REVISION NC |
| UNLESS STATED | SCALE: NONE DATE 05/06/11 SH 1 OF 3 |

 $\stackrel{\textstyle \frown}{\textstyle \bigwedge}$ hole may or may not be as shown. Notes:



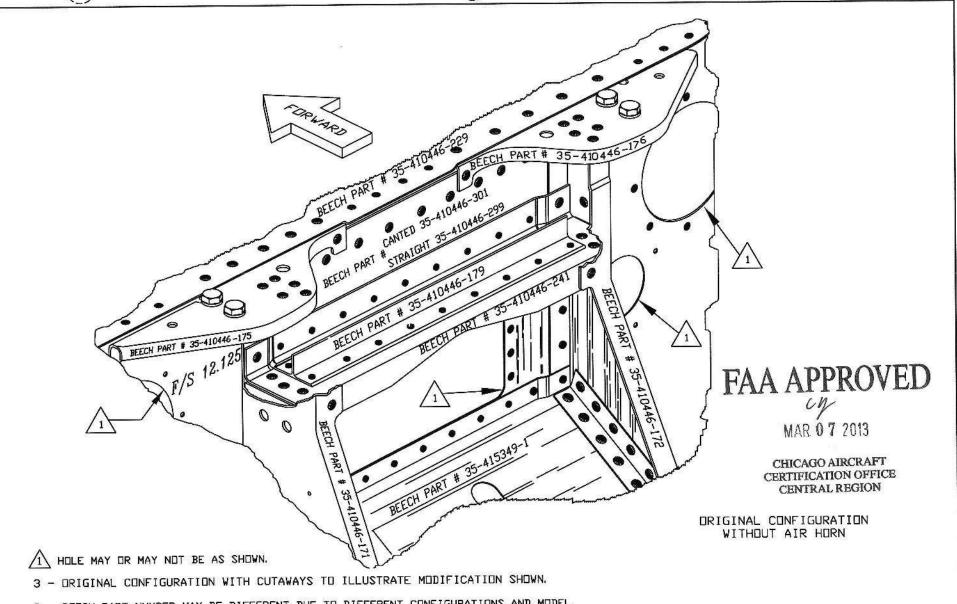
1 USE ONE DRILL SIZE SMALLER THAN THE RIVETS YOU ARE REMOVING. SEE FAA ADVISORY CIRCULAR AC43-13-1A CHAPTER 2 SECTION 3 \$98 FOR PROCEDURES.

NOTES:

NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. REMOVAL OF ORIGINAL AIR HORN TOLERANCES D'SHANNON PRODUCTS, LTD X__.10_.XXX__.01 XX_.03 XXXX..001

ANGLES ±5% UNLESS STATED

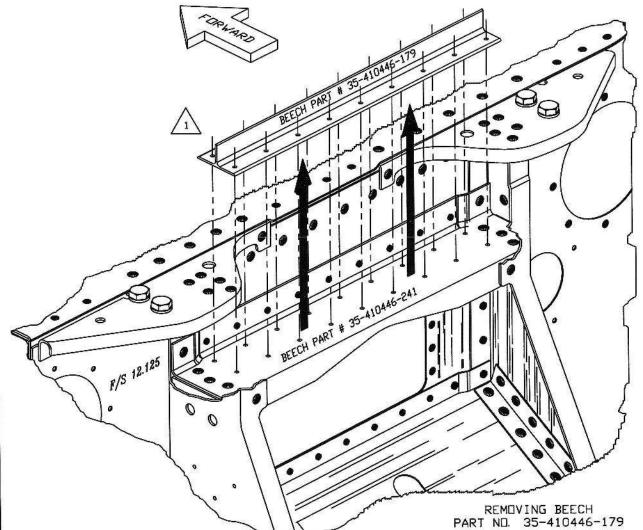
DWG. No. DSP-IM95-10-6 REVISION SCALE: NONE DATE 05/06/11 SH 2 OF 3



2 - BEECH PART NUMBER MAY BE DIFFERENT DUE TO DIFFERENT CONFIGURATIONS AND MODEL. CROSS REFERENCE BEECH SHOP MANUALS MAY BE HELPFUL IN RESOLVING DISCREPANCIES.

1 - INSTALLATION DOES NOT REQUIRE FRONT CAST ENGINE MOUNTS TO BE REMOVED, ENGINE MOUNTS ARE NOT SHOWN FOR CLARITY. SOME INSTALLERS FIND IT HELPFUL TO REMOVE A BOLT FROM THE ENGINE MOUNT FOR CLEARANCE WHILE WORKING, TORQUE BOLT ON REINSTALLATION PER BEECH SHOP MANUALS IF A BOLT IS REMOVED.

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | | REMO | VAL | OF | DRIG | INAL | AIR | HORN |
|--|----|---------|-------------|------|--------|------|------|-------------|
| TOLERANCES X10 XXX01 | D | 'SHA | I <i>NN</i> | ON | PRO | DUC | CTS, | LTD |
| XX03 XXXX001 ANGLES ±5% | | | | | 5-10-6 | | | NC |
| UNLESS STATED | SC | ALE: NO | INE | DATE | 05/00 | 5/11 | SH 3 | DF 3 |



| | REVISION RECORD | | |
|------|-----------------|-------|----------|
| LTR. | CHANGES | BY | DATE |
| NC | RELEASED | D. B. | 05/06/11 |

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CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

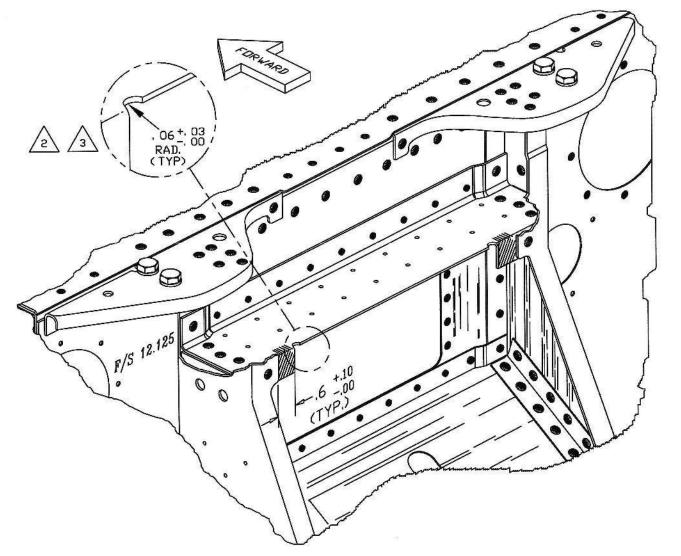
| 2 | 18 | MS20470A | D4 SOLID RIVET |
|------|------|----------|--------------------------|
| 1 | 1 | 716001 | REINFORCE ANGLE |
| TEM | QTY | PART No. | DESCRIPTION |
| DRAW | | | INSTL OF REINFORCE ANGLE |
| TO | LERA | NCES D' | GILLANDON DEODUCTO ITI |

XX...03 .XXXX. 001

x_10 xxx_01 D'SHANNON PRODUCTS, LTD

DWG. No.DSP-IM95-10-10 REVISION ANGLES ±5% UNLESS STATED SCALE: NONE DATE 05/06/11 SH 1 OF 4

USING A #39 DRILL BIT, REMOVE BEECH PART NUMBER 35-410446-179, REPOSITION AND OPEN HOLES TO #40 DRILL SIZE, REMOVE ALL BURRS. DRESS HOLES DRILLED BEFORE GOING ON TO NEXT STEP.



CUTTING DOWNWARD FLANGE ON EXISTING STRUCTURE

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CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

DRESS ALL CUT FACES. SMOOTH THE CUT CORNER. FILE SMOOTH RADIUS WITH FINE FILE.

CUT, NOTCH, GRIND OR FILE DOWNWARD FLANGE LEAVING O. 6 INCH AS SHOWN, BOTH SIDES.

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

INSTL OF REINFORCE ANGLE

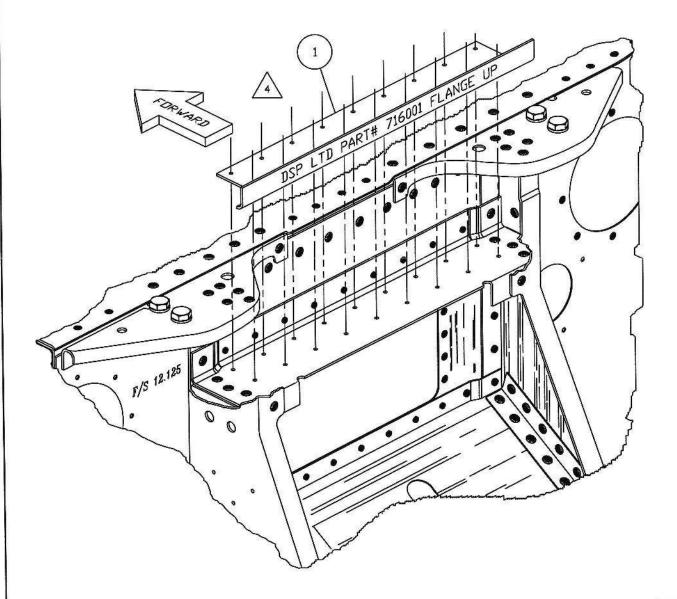
TOLERANCES

X__.10 .XXX__.01

XX__.03 .XXXX_.001

D'SHANNON PRODUCTS, LTD

ANGLES ±5% UNLESS STATED DWG. No.DSP-IM95-10-10 REVISION NC SCALE: NONE DATE 05/06/11 SH 2 OF 4



INSTALLATION OF REINFORCE ANGLE
D'SHANNON PRODUCTS, LTD
PART# 716001
ON EXISTING STRUCTURE

FAA APPROVED

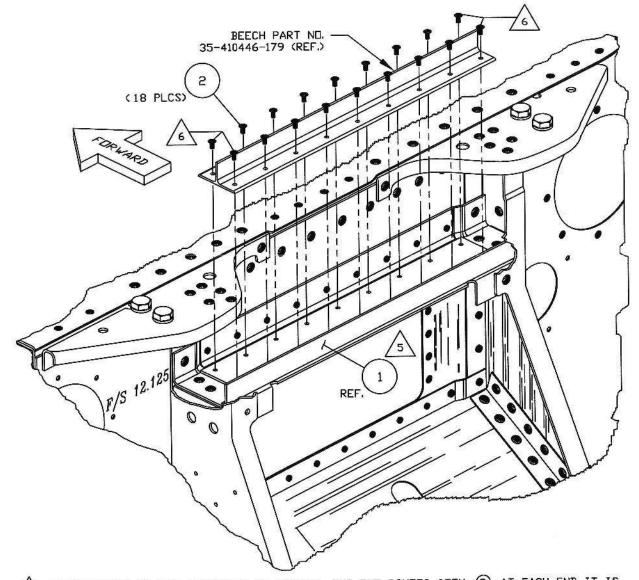
MAR 0 7 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

LINE UP ITEM (1) ON ORIGINAL CUT STRUCTURE AS SHOWN AND BACK DRILL HOLES IN ITEM (1). PERMISSIBLE TO OVER SIZE TO -4 OR -5 IF NECESSARY.

1 - USE DRAWING# DSP-IM95-10-12 FOR ADDITIONAL ALIGNMENT OF ITEM 1. NOTES:

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | | IN | STL | OF | REI | NF |]RC | E 4 | M | GLE | |
|--|-----|-------|------|-------|-------|-----|------|------|----|-----|---|
| TOLERANCES X10 XXX01 | D | SH | ANI | VON | PR | OL | UC | TS | , | LT | D |
| XX03 .XXXX001 ANGLES ±5% | DWG | . No. | DSP- | -IM95 | -10-1 | 0 | REVI | SION | r. | NC | 7 |
| UNLESS STATED | SCA | LE: N | DNE | DATE | 05/ | 06/ | 11 | SH | 3 | DF | 4 |



RIVETING BEECH PART ND. 35-410446-179 TO EXISTING STRUCTURE THROUGH REINFORCE ANGLE ITEM ① (REF SH 3 DF 4)

FAA APPROVED

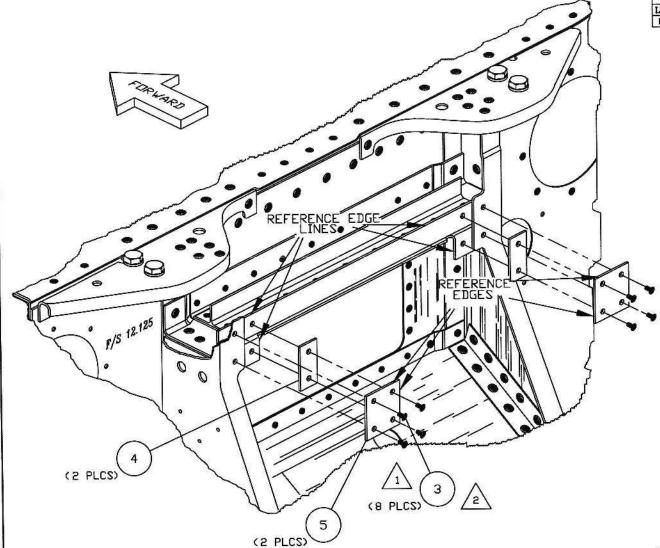
MAR 0 7 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

IF CLEARANCE IS NOT AVAILABLE TO INSTALL THE TWO RIVETS ITEM ② AT EACH END IT IS PERMISIBLE TO SUBSTITUTE A STRUCTURAL BOLT, WASHER AND NUT IN THE TWO LOCATIONS AT EACH END OF THE ANGLE.

CLEAN HOLES IN ANGLE ITEM ① (REF). POSITION ITEM ① AND RIVET USING ITEM ②.
USE FAA ADVISORY CIRCULAR AC43. 13-1A, CHAPTER 2, SECTION 3, \$99 FOR RIVETING
PROCEDURE.

| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | INSTL OF REINFORCE ANGLE |
|--|-------------------------------------|
| TOLERANCES X10 XXX01 | D'SHANNON PRODUCTS, LTD |
| XX_03 XXXX_001 ANGLES ±5% | DWG. No. DSP-1M95-10-10 REVISION NC |
| UNLESS STATED | SCALE: NONE DATE 05/06/11 SH 4 OF 4 |



| | REVISION RECORD | | |
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| NC | RELEASED | D. B. | 05/06/11 |

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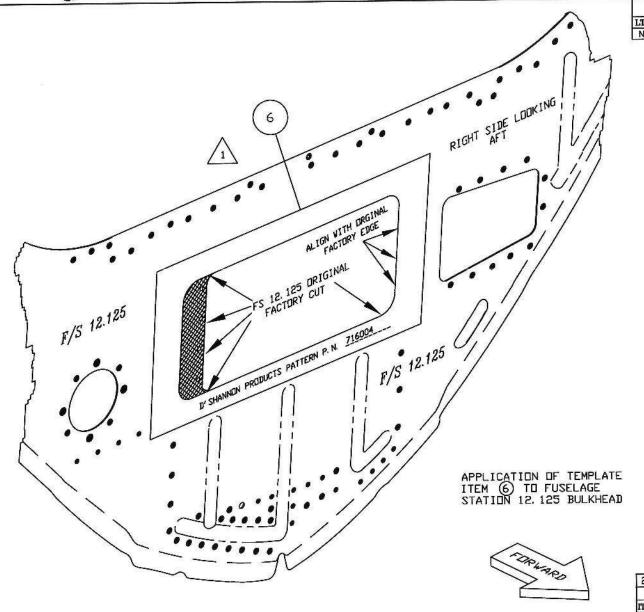
CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

INSTL OF SMALL SHIM ITEM (4) AND REINFORCE PLATE ITEM (5) TO REINFORCE ANGLE ITEM (1) (REF DWG DSP-IM95-10-10) TO EXISTING STRUCTURE

| DRILL HOLES | LOCATED IN 1 USING DRILL BIT SIZE #21. INSTALL ITEMS 4 AND 5 | 9 |
|-------------|--|---|
| IN PLACE AS | SHOWN USING RIVETS ITEM (3). REFER TO FAA ADVISORY CIRCULAR CHAPTER 2, SECTION 3, \$99 FOR RIVETING PROCEDURE. | |

POSITION REINFORCE PLATE ITEM (5) ON THE EXISTING STRUCTURE ALIGNING REFERENCE EDGES ON ITEM (5) TO REFERENCE EDGE LINES ON STRUCTURE, MARK EXISTING HOLES FROM ITEM (5) TO STRUCTURE AND REINFORCE ANGLE, REMOVE ITEM (5) FOR STEP (2), NOTES:

| 2 | 716 | 003 | | 3 | | 2011 | | | | | | | | | | | |
|-------|---|--|---|---|--|--|---|---|---|--|---|---|--|--|--|--|--|
| 2 | 716 | 002 | | | SHIM | | | | | | | | | | | | |
| 8 | MS204 | 70A | D5 | 5 | SOLID RIVET | | | | | | | | | | | | |
| QTY | PART | PART No. | | | | DESCRIPTION | | | | | | | | | | | |
| N BY: | D. B. D. BRAUN | | I | NSTL | DF | SHI | M Al | מא | REIN | IFOR(| CE | PLA | TE | | | | |
| .10 X | XX01 | D | ' 5 | SHA | NΝ | ION | Ρ. | RC | DU | CTS | 5, | LT | 'D | | | | |
| | 100 A | DW | G. | No. D | SP- | IM95 | -10- | -12 | RE | VISIO | N | NC | ; | | | | |
| | | | | | | | | | | | | DF | 1 | | | | |
| | 2 QTY ASSY: N BY: NEER: KED B ULERA 10 X NGLES | 2 716 8 MS204 QTY PART ASSY: N BY: D. B. | 2 716002 8 MS20470A QTY PART No. ASSY: N BY: D. B. NEER: D. BRAUN KED BY: D. B. LIERANCES. 10 XXX01 005 XXXX001 NGLES ±5% DW | 2 716002 8 MS20470AD5 QTY PART No. ASSY: N BY: D. B. NEER: D. BRAUN KED BY: D. B. LIERANCES. 10 XXXX_01 NGLES ±5X DWG. | 2 716002 8 MS20470AD5 QTY PART No. ABSY: N BY: D. B. NEER: D. BRAUN KED BY: D. B. LLERANCES. 10 XXXX_01 NGLES ±5X DWG. No. D | 2 716002 8 MS20470AD5 QTY PART No. ASSY: N BY: D. B. NEER: D. BRAUN KEED BY: D. B. LIERANCES. 10 XXX01 005 XXXX001 NGLES ±5% DWG. No. DSP- | 2 716002 8 MS20470AD5 QTY PART No. D E ASSY: N BY: D. B. NEER. D. BRAUN KED BY: D. B. LIERANCES. 10 XXX01 NGLES ±5X DWG. No. DSP-IM95- | 2 716002 8 MS20470AD5 SOL QTY PART No. DESC ASSY: N BY: D. B. NEER: D. BRAUN KED BY: D. B. LIERANCES. 10 XXX01 NGLES ±5X DWG. No.DSP-IM95-10- | 2 716002 SH 8 MS20470AD5 SOLID QTY PART No. DESCR ASSY: N BY: D. B. NEER: D. BRAUN KEED BY: D. B. LIERANCES. 10 XXX01 NGLES ±5X DWG. No.DSP-IM95-10-12 | 2 716002 SHIM 8 MS20470AD5 SULID RIV QTY PART No. DESCRIPT ASSY: N BY: D. B. NEER: D. BRAUN KEED BY: D. B. LIERANCES. 10 JOXX01 OS JOXXX001 NGLES ±5% DWG. No.DSP-IM95-10-12 RET | 2 716002 SHIM 8 MS20470AD5 SULID RIVET QTY PART No. DESCRIPTIO ASSY: N BY: D. B. NEER: D. BRAUN KEED BY: D. B. LIERANCES. 10 XXX01 NGLES ±5% DWG. No.DSP-IM95-10-12 REVISIO | 2 716002 SHIM 8 MS20470AD5 SULID RIVET QTY PART No. DESCRIPTION ASSY: N BY: D. B. NKER: D. BRAUN KEED BY: D. B. LO XXXX001 NGLES ±5% DWG. No.DSP-IM95-10-12 REVISION | 2 716002 SHIM 8 MS20470AD5 SULID RIVET QTY PART NO. DESCRIPTION ASSY: N BY: D. B. NEER. D. BRAUN KEED BY: D. B. LIERANCES. 10 XXXX01 NGLES ±5% DWG. No.DSP-IM95-10-12 REVISION NO. | | | | |



 REVISION RECORD

 LTR.
 CHANGES
 BY
 DATE

 NC
 RELEASED
 D. B. 05/06/11

FAA APPROVED

MAR 0 7 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

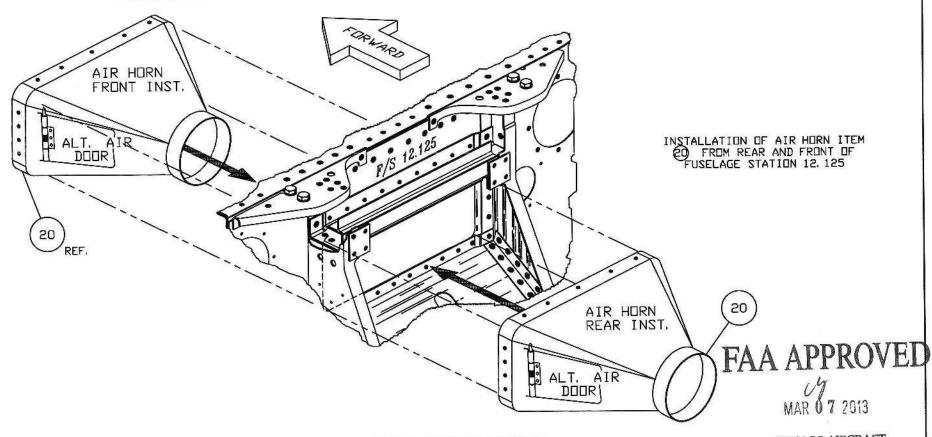
TOLERANCES
.X 10 .XXX .01
.XX .08 .XXXX .001

D'SHANNON PRODUCTS, LTD

CUT OUT TEMPLATE ITEM (6) AS INDICATED. APPLY RUBBER CEMENT ON BACKSIDE OF ITEM (6) AND ATTACH TEMPLATE TO FORWARD SIDE OF FUSELAGE STATION 12, 125 BULKHEAD. TRIM TO INSIDE OF TEMPLATE AS SHOWN. REMOVE TEMPLATE AND CLEAN RESIDUE FROM BULKHEAD.



FRONT INSTALLATION OF AIR
HORN ITEM (2) ON F/S 12. 125
REQUIRES NOSE BOWL TO BE REMOVED. DRAWING ASSUMES THE NOSE BOWL HAS BEEN REMOVED.



REAR INSTALLATION

REAR INSTALLATION OF AIR
HORN ITEM (20) ON F/S 12. 125 DOES
NOT REQUIRE NOSE BOWL TO BE REMOVED.

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

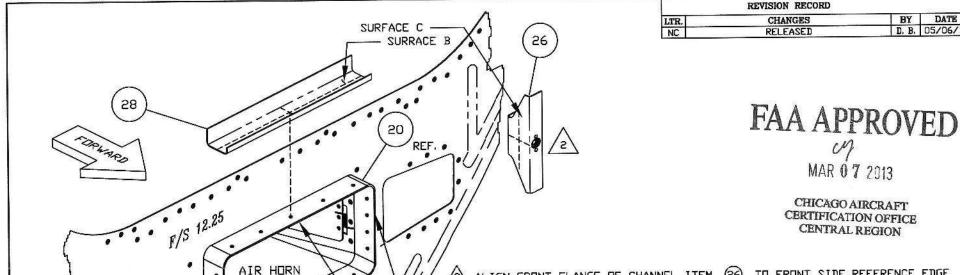
NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. TOLERANCES XXX 01._X

ANGLES ±5%

INSTALLATION OF AIR HORN

D'SHANNON PRODUCTS, LTD XX_.03 .XXXX_.001 DWG. No.DSP-IM95-10-14 REVISION

UNLESS STATED SCALE: NONE DATE 05/06/11 SH 2 OF 2



ALIGN FRONT FLANGE OF CHANNEL ITEM (26) TO FRONT SIDE REFERENCE EDGE LINE, DRILL PILOT HOLE O. 40±0. 1 UP FROM INTERSECTION OF MIDPOINT LINES ON THE FACE (SURFACE C) OF CHANNEL ITEM (26), THROUGH AIR HORN USING DRILL BIT #30. DRESS HOLES. CLECO CHANNEL TO THE AIR HORN. DRILL ONE MORE HOLE DOWN O. 40±0. 1 FROM INTERSECTION OF MIDPOINT LINES, SURFACE C MUST HAVE FOUR ALIGNED HOLES WITH AT LEAST A DISTANCE OF O. 80 BETWEEN EACH HOLE. THIS METHOD WILL NOT UTILIZE EXISTING HOLES WHICH MAY BE PRESENT IN ITEM (20). YOU MAY ALIGN THE FRONT FLANGE TO THE REFERENCE LINE AND MATCH DRILL THE EXISTING ITEM (20) HOLES IF YOU PREFER, REPEAT FOR SECOND ITEM (26).

REFERENCE EDGE LINES TO BE FLUSH WITH CHANNEL FLANGE FRONT SURFACES

CHANNEL FLANGE FRONT SURFACE (TYP)

1 ALIGN FRONT FLANGE OF CHANNEL ITEM (29) TO FRONT BOTTOM REFERENCE EDGE LINE. DRILL PILOT HOLE ON INTERSECTION OF MIDPOINT LINES OF THE BASE (SURFACE A) OF CHANNEL ITEM (29) THROUGH THE AIR HORN USING DRILL BIT SIZE #30. DRESS HOLES, CLECO CHANNEL TO THE AIR HORN. KEEPING THE FRONT FLANGE ALIGNED WITH THE BOTTOM REFERENCE LINE DRILL THE REST OF THE HOLES (A TOTAL OF FIVE HOLES MINIMUM ON SURFACE A) WITH A DISTANCE OF 1,8±0,3 BETWEEN EACH HOLE EQUALLY SPACED. THIS METHOD WILL NOT UTILIZE EXISTING HOLES WHICH MAY BE PRESENT IN ITEM (20) . YOU MAY ALIGN THE FRONT FLANGE TO THE REFERENCE LINE AND MATCH DRILL THE EXISTING ITEM (2) HOLES IF YOU PREFER. REPEAT USING ITEM (28) . NOTES

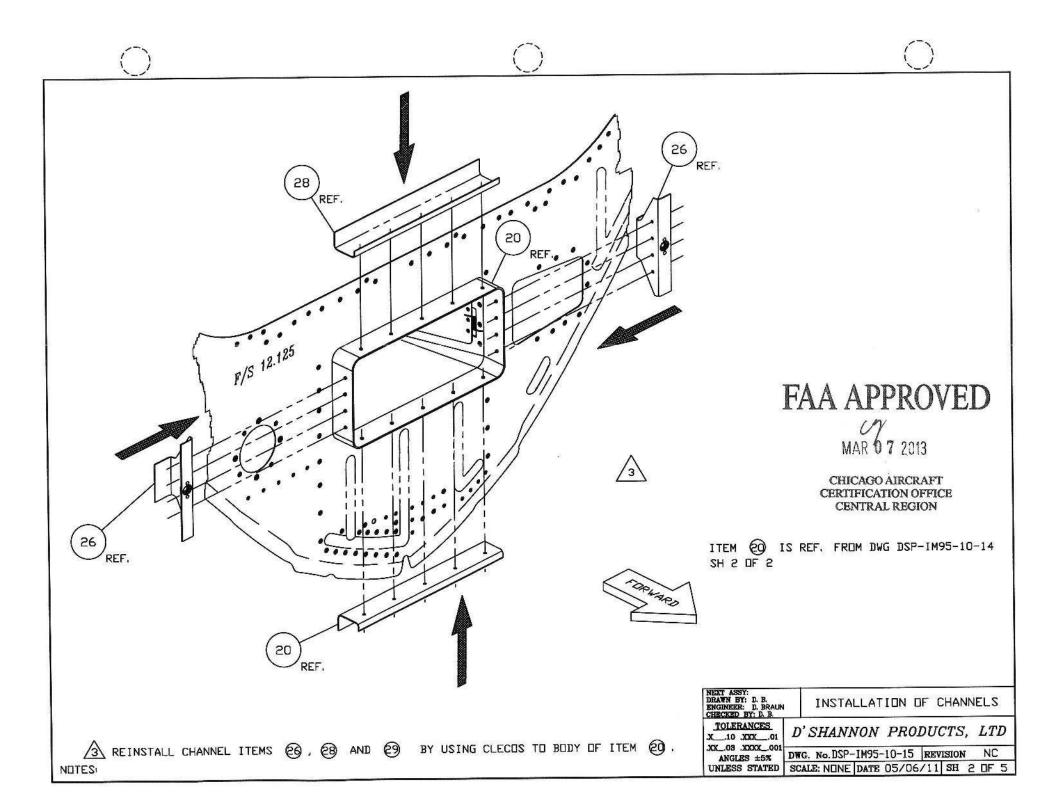
SURFACE A

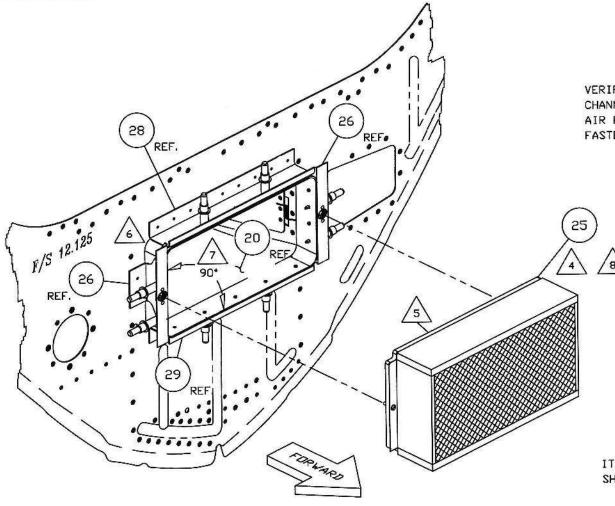
ITEM (0) IS REF. FROM DWG DSP-IM95-10-14 SH 2 DF 2

DATE

D. B. 05/06/11

| 29 | 1 | 71600 | 9 | AIR BOX CHANNEL | | | | | | | | | | | |
|------|---------------------------------|-------------------------------------|------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| 28 | 1 | 71600 | 18 | AIR BOX CHANNEL | | | | | | | | | | | |
| 26 | 5 | 71600 | 7Z | AIR BOX CHANNEL ASSEMBLY | | | | | | | | | | | |
| 25 | 1 | P1053 | 04 | DONALDSON AIR FLITER ASSEMBLY | | | | | | | | | | | |
| 9 | 40 | AN960- | -8L | WASHER | | | | | | | | | | | |
| 8 | 40 | NAS679- | -A08 | LOCK NUT | | | | | | | | | | | |
| 7 | 40 | AN525-CE | 32R8 | PAN HEAD SCREW | | | | | | | | | | | |
| TEM | QTY | PART ! | ła. | DESCRIPTION | | | | | | | | | | | |
| DRAW | ASSY N BY: NEER: KED E | : D. B. D. BRAUN BY: D. B. |] | INSTALLATION OF CHANNELS | | | | | | | | | | | |
| x_ | 10 X | | D'S. | HANNON PRODUCTS, LTD | | | | | | | | | | | |
| | | | | No.DSP-IM95-10-15 REVISION NC | | | | | | | | | | | |
| | | STATED S | CALE | NONE DATE 05/06/11 SH 1 OF 5 | | | | | | | | | | | |





VERIFYING POSITION AND ALIGNMENT OF CHANNEL ITEMS & & AND & WITH AIR FILTER ITEM & BEFORE CHANNELS ARE FASTENTED TO AIRPLANE.

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CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

ITEM (0) IS REF. FROM DWG DSP-IM95-10-14

A REMOVE ITEM (3) AFTER FIT OPERATION AND SET ASIDE.

ASSURE THAT AIR HORN ITEM @ IS SQUARE.

SEAL OFF ANY AIR ENTRY POINTS ON ITEM (0) USING G.E. SILICONE II. APPLY TO ALL GAPS AS NECESSARY. ASSURE THE SEAL FITS ON THE FLANGE.

PRIOR TO INSTALLING ITEM (), CHECK THE EXISTING ADHESIVE BETWEEN SEAL AND AIR FILTER, ALL AROUND.

CHECK ALIGNMENT OF CHANNEL ITEMS & , & AND & WITH AIR FILTER ITEM & .
TO KEEP FILTER CLEAN, PLACE FILTER IN A CLEAN, TRANSLUCENT PLASTIC BAG UNTIL
TO INSTALLATION IS COMPLETED.

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

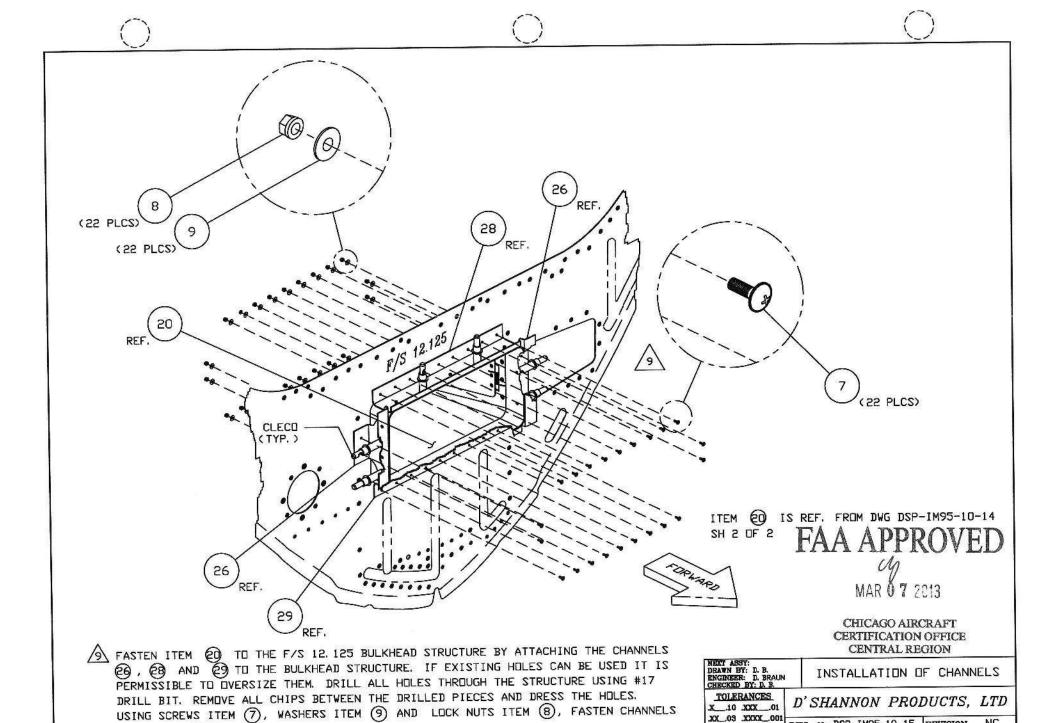
TOLERANCES
X_10 XXXX_01

XX_03 XXXXX_001

ANGLES ±55

UNLESS STATED

SCALE: NONE DATE 05/06/11 SH 3 OF 5



XX_.03 .XXXX_.001

ANGLES ±5%

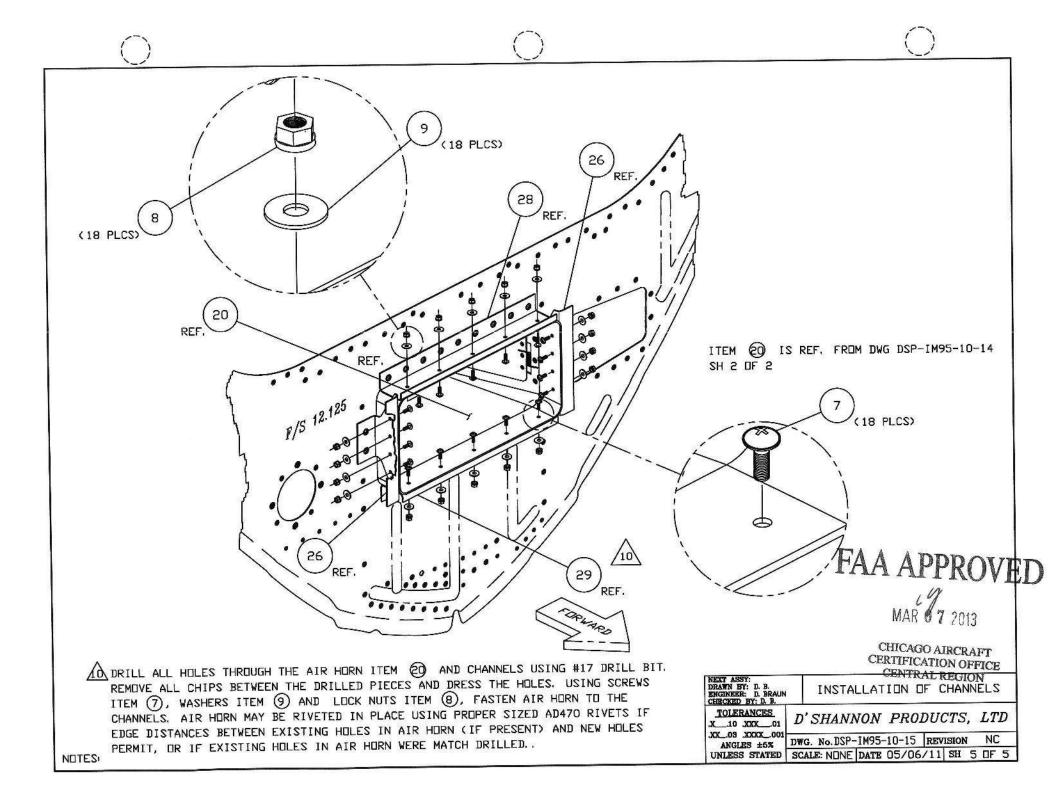
UNLESS STATED

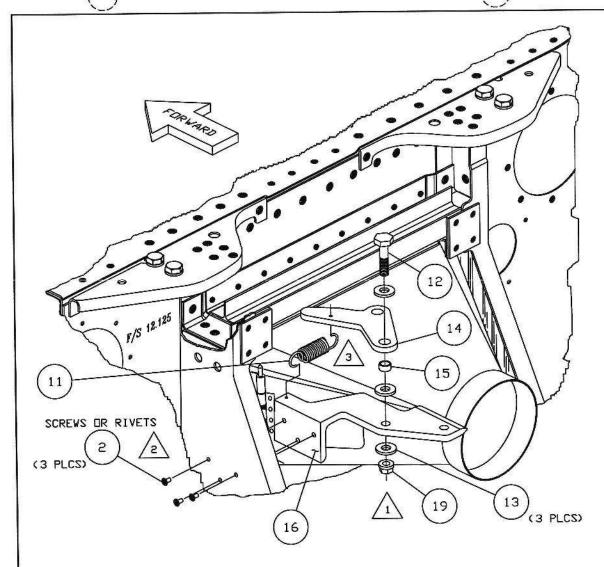
DWG. No.DSP-IM95-10-15 REVISION

SCALE: NONE DATE 05/06/11 SH 4 OF 5

NOTES

TO THE BULKHEAD.





3 INSTALL ITEM (1) SPRING.

INSTALL ITEM (6) TO STRUCTURE USING ITEM (3). THE INSTALLER SHOULD VERIFY THE PROPER LENGTH OF ITEM (3) AND ADJUST ACCORDINGLY. LEVER ITEM (4) SHOULD CONTACT DOOR IN THE AREA SHOWN ON SH 5 OF 6.

ASSEMBLE LEVER ITEM (4) AND BRACKET ITEM (6) USING BOLT ITEM (7) THROUGH ITEMS (3) (4), (5), (3), (6) AND (3). START ITEM (9) AND TIGHTEN, LEVER ITEM (4) SHOULD BE ABLE TO MOVE FREELY ON BRACKET ITEM (6). IF BINDING OCCURS, CALL THE MANUFACTURER. NOTES:

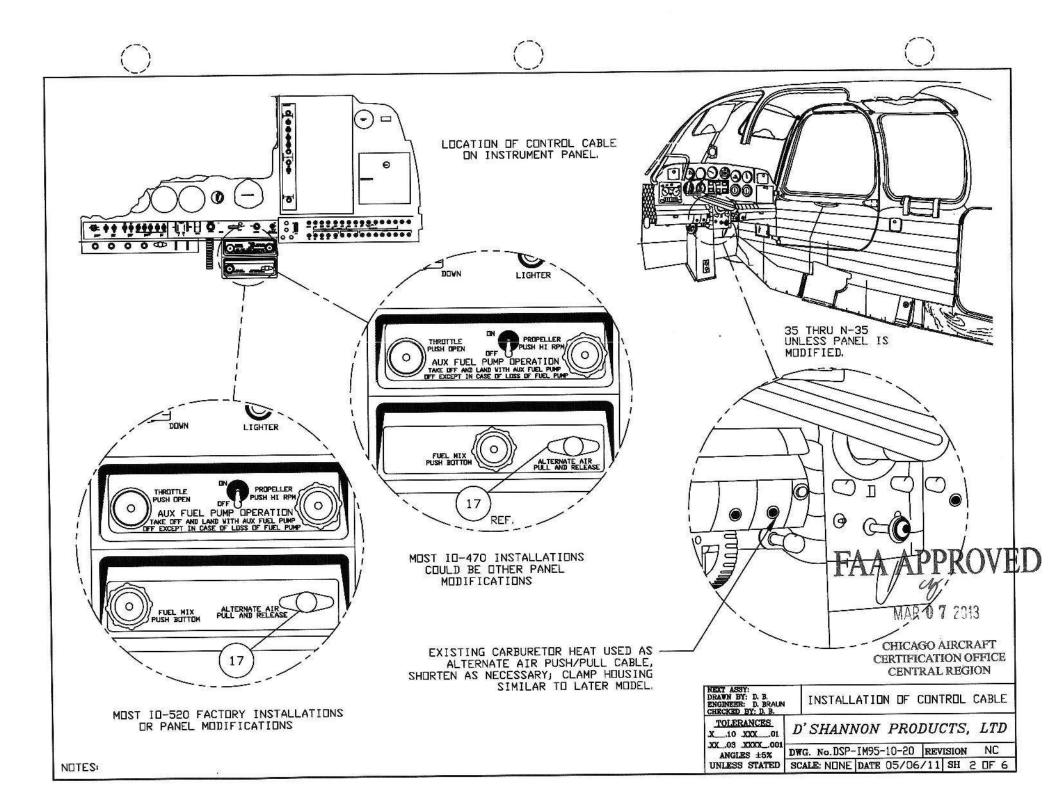
| 3761 | | REVISION RECORD | |
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| | NC | RELEASED | D. B. 05/06/11 |

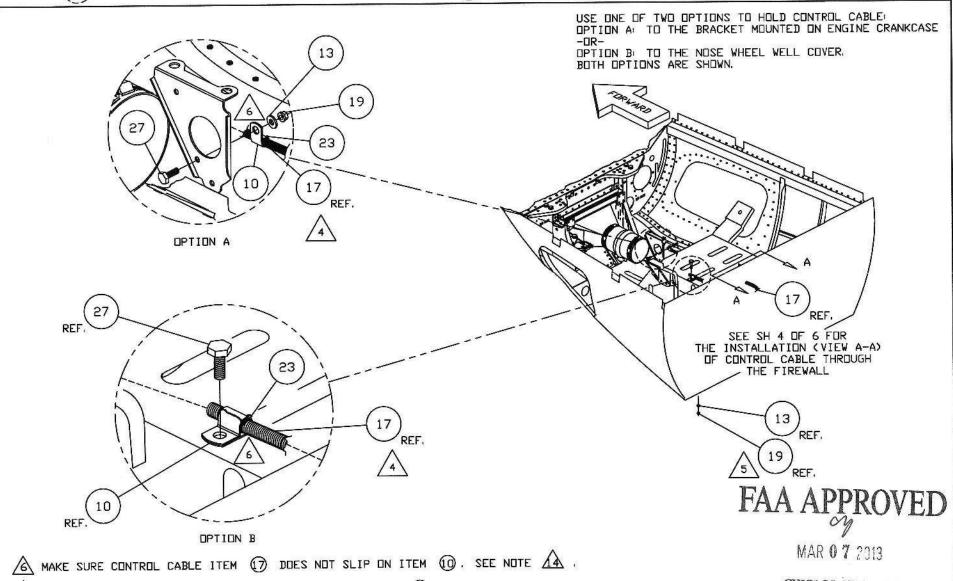
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CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

| 27 | 2 | AN3- | -5A | BOLT | | | | | | | | |
|-------|----------------------------------|-----------------|------------------------|--------------------------------|--|--|--|--|--|--|--|--|
| 24 | A. R. | G. E. SILI | CONE II | SILICONE SEALANT | | | | | | | | |
| 23 | A. R. | MS209 | 95C32 | , 032Ø SAFETY WIRE | | | | | | | | |
| 22 | 1 | 61- | 175 | FIREWALL SHIELD | | | | | | | | |
| 21 | 2 | AD4 | 4H | POP RIVET | | | | | | | | |
| 19 | 4 | MS2036 | 5-1032 | LOCK NUT | | | | | | | | |
| 18 | 1 | 716 | 005 | CONTROL ATTACHING BOLT | | | | | | | | |
| 17 | 1 | 35-380 | 063-1 | CONTROL CABLE | | | | | | | | |
| 16 | 1 | 002-410 | 000-87 | BRACKET (ALT.) | | | | | | | | |
| 16 | 1 | 35-919 | 025-21 | BRACKET | | | | | | | | |
| 15 | 2 | 716 | 006 | BUSHING | | | | | | | | |
| 14 | 1 | 002-910 | 011-21 | LEVER (ALT.) | | | | | | | | |
| 14 | 1 | 35-919 | 025-23 | 23 LEVER | | | | | | | | |
| 13 | 7 | AN96 | 0-10 | WASHER | | | | | | | | |
| 12 | 1 | AN3 | -6A | BOLT | | | | | | | | |
| 11 | 1 | 100942-L | 0023-17 | SPRING | | | | | | | | |
| 10 | 5 | TA171 | STES. | CLAMP | | | | | | | | |
| 2 | 3 | MS204 | 70AD4 | SOLID RIVET | | | | | | | | |
| ITEM | QTY | PART | No. | DESCRIPTION | | | | | | | | |
| DRAV | ASSY IN BY: NEER: KED E | | IN | STALLATION OF CONTROL CABLE | | | | | | | | |
| x_ | .10 .X | NCES XX01 | D'SHANNON PRODUCTS, L' | | | | | | | | | |
| 0.000 | | XXX001 3 ±5% | | No.DSP-IM95-10-20 REVISION NC | | | | | | | | |
| UNI | ESS | STATED | SCALE | : NONE DATE 05/06/11 SH 1 OF 6 | | | | | | | | |



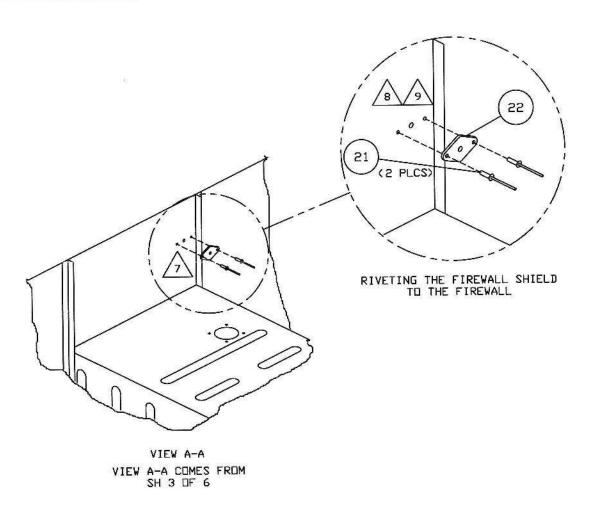


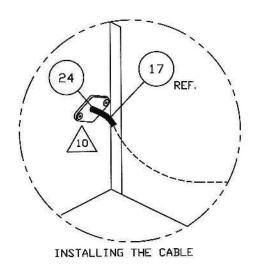
CHECK BEHIND THE ENGINE MOUNT TO MAKE SURE NUT ITEM (9) DOES NOT INTERFERE WITH NOSE GEAR DOOR ACTUATOR.

A PROTECT AIRFRAME AND/OR ENGINE MOUNT WITH PROTECTIVE FIRE SLEEVE OR EQUIVALENT ON THE CABLE. DRILL A , 2500 HOLE IN THE DESIRED LOCATION, INSTALL THE CLAMP ITEM (1) OVER THE CABLE HOUSING ITEM (17) INSERT THE BOLT ITEM (27) THROUGH THE HOLE AND INSERT WASHER ITEM (3). INSTALL NUT ITEM (9) AND TIGHTEN. DO NOT NOTES, OVER-TORQUE THE NUT ITEM (19)

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

DRAWN BY: D. B. ENGINEER: D. BRAUN INSTALLATION OF CONTROL CABLE CHECKED BY: D. B. TOLERANCES D'SHANNON PRODUCTS, LTD X__10 .XXX__.01 XXXX. 60._XX. DWG. No.DSP-IM95-10-20 REVISION ANGLES ±5% SCALE: NUNE DATE 05/06/11 SH 3 DF 6 UNLESS STATED





APPLY SILICONE ITEM (2) ALL AROUND CABLE AT ITEM (2) FIREWALL SHIELD AFTER CABLE IS INSTALLED.

DRILL THROUGH THE FIREWALL USING 3/16" DRILL BIT SIZE TAKING CARE NOT TO PENETRATE MORE THAN 1/16". REAM HOLE LARGER SO THE CABLE IS A SNUG FIT IN ITEM (2) FIREWALL SHIELD.

USING STUB DRILL BIT SIZE #30 AND TAKING CARE NOT TO PENETRATE MORE THAN 1/16', DRILL HOLES AS SHOWN. MAKE SURE THAT FIREWALL IS CLEAR OF ALL ITEMS PRIOR TO DRILLING. RIVET ITEM (2) TO THE FIREWALL AS SHOWN USING ITEM (2).

LOCATE THE MOST PRACTICAL POSITION FOR ITEM (2) FIREWALL SHIELD. THE NEW CONTROL CABLE MUST NOT BE IN CONFLICT WITH ANY OTHER CABLE OR ELECTRICAL BUNDLE.

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CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

CONTROL CABLE

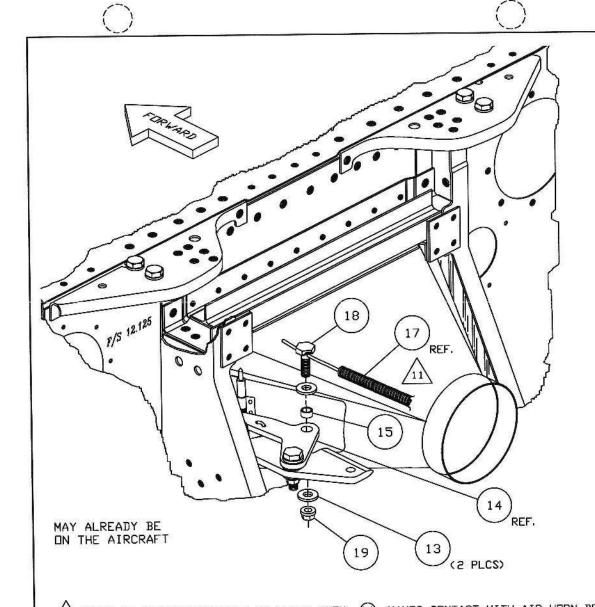
| EXT ASSY: RAWN BY: D.B. NGINEER: D.BRAUN HECKED BY: D.B. | INSTALLATION | OF | |
|---|--|----|--|
| MOT ED ANCES | ************************************** | | |

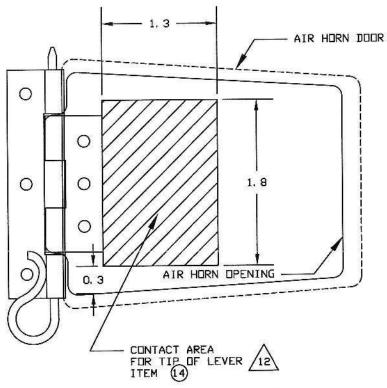
TOLERANCES
X_10_XXX_.01
XX_03_XXXX_.001
ANGLES ±5%
UNLESS_STATED

D'SHANNON PRODUCTS, LTD

DWG. No.DSP-IM95-10-20 REVISION NC

SCALE: NONE DATE 05/06/11 SH 4 OF 6





VIEW OF AIR HORN ALTERNATE AIR OPENING. SPRING AND SAFETY WIRE OMITTED FOR CLARITY.

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MAR 07 2013

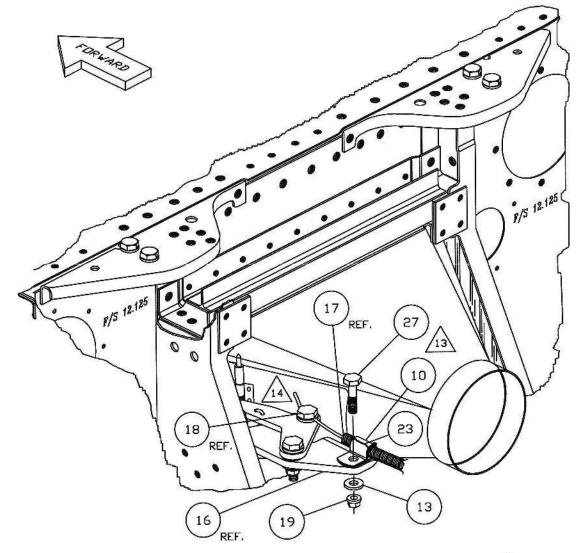
CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

CHECK TO ASSURE THAT TIP OF LEVER ITEM (4) MAKES CONTACT WITH AIR HORN DOOR IN THE AREA SHOWN, RELOCATE BRACKET ITEM (6) (SH 1 OF 1) IF NECESSARY. A DETERMINE T THROUGH ITE AND THROUGH

NUT ONTO IT IS STILL AL

| THE CORRECT LENGTH OF CABLE ITEM (17), INSTALL | THE INNER WIRE OF ITEM (1) |
|--|-----------------------------|
| EM (8). INSTALL ITEM (8) THROUGH WASHER ITEM | (3), BUSHING ITEM (27) |
| H THE LEVER AS SHOWN. INSTALL WASHER ITEM (3) | AND NUT ITEM (19) . RUN THE |
| TEM (8). DO NOT FULLY TIGHTEN AT THIS TIME, M | MAKING SURE THE INNER CABLE |
| LLOWED TO SLIP. | |

| NEXT ASSY: 5 DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | ľ | I | ١ | 1: | 2 | T | A | L | L | Α1 | Ī | | N | C |]F | C | :[| IN' | TR | 201 | | С | AB | L | E |
|--|-----------|-----|---|----|----|----|----|----|---|----|-----|----|-----|----|----|----|----|-----|----|-----|----|---|----|------|---|
| TOLERANCES X10 .XXX01 | 0,000,000 | ' . | 5 | 1 | H | A | 11 | V. | N | TC | V | | 1 | 9 | R | 01 | 0 | U | C | TS | 5, | | L7 | 1 |) |
| XX03 .XXXX001 ANGLES ±5% | DW | G. | | N | lo |] | DS | SΡ | _ | I١ | 195 | j- | -10 |)- | 20 |) | Б | E | 1S | 10 | N | | N | _ | |
| UNLESS STATED | SC | AL | E | : | N | VΓ | 10 | ٧E | 1 | D/ | TT | G | 0 | 5, | /0 | 6 | 1 | 11 | 1 | SH | | 5 | DF | 1000 | 6 |



MAR 0 7 2013

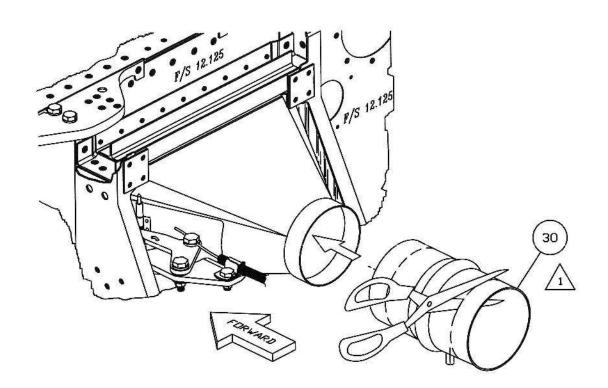
CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

BEND INNER WIRE FORWARD SO THAT EVEN IF THE INNER CABLE WIRE SLIPS IN ITEM (8) THE CABLE WOULD STILL ACTUATE THE LEVER, PLACE SAFETY WIRE ITEM (2) AROUND THE CLAMP AND CABLE SO THAT EVEN IF THE CLAMP WERE LOOSE THE CABLE HOUSING WOULD NOT SLIDE.

INSTALL THE CLAMP ITEM (1) OVER THE CABLE HOUSING ITEM (1) AND POSITION THE CABLE HOUSING SO THAT THE LEVER OPERATES FROM FULL ON TO FULL OFF. INSERT THE BOLT ITEM (2) THROUGH BRACKET ITEM (3) AND INSERT WASHER ITEM (3). INSTALL NUT ITEM (9) AND TIGHTEN, DO NOT OVER-TORQUE THE NUT ITEM (9). ASSURE THAT THE INNER CABLE IS NOTES: ADJUSTED CORRECTLY.

| NEXT ASSY: 5 DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | | Ι | ١ | 12 | ξT | Α | ۱L | Li | ΑĪ | ГΙ | 0 | N | ٦ |)F | С | 10 | I٦ | RE | JL | C | AB | LI | Ε |
|--|----|-----|---|-----|----|----|----|----|----|-----|----|-----|----|----|----|----|----|-----|----|---|----|----|---|
| TOLERANCES X10 XXX01 | D | 5 | S | F | L | 4. | N | N | 70 | N | r | F | 2 | R |)I | U | 10 | CT | S | , | LI | ľ |) |
| XX03 XXXX001 ANGLES ±5% | DW | 3. | | No | ٥. | D | SP | _ | I١ | 195 | j- | -10 |)- | 50 | | RE | ١٧ | ISI | ON | | N | 5 | |
| UNLESS STATED | SC | VI. | E | : 1 | NI | | NE | | D | TI | 3 | 0 | 5, | /0 | 6, | 1 | 1 | SI | 1 | 6 | OF | - | 6 |

| | REVISION RECORD | | | | | | |
|------|-----------------|-------|----------|--|--|--|--|
| LTR. | CHANGES | BY | DATE | | | | |
| NC | RELEASED | D. B. | 05/06/11 | | | | |

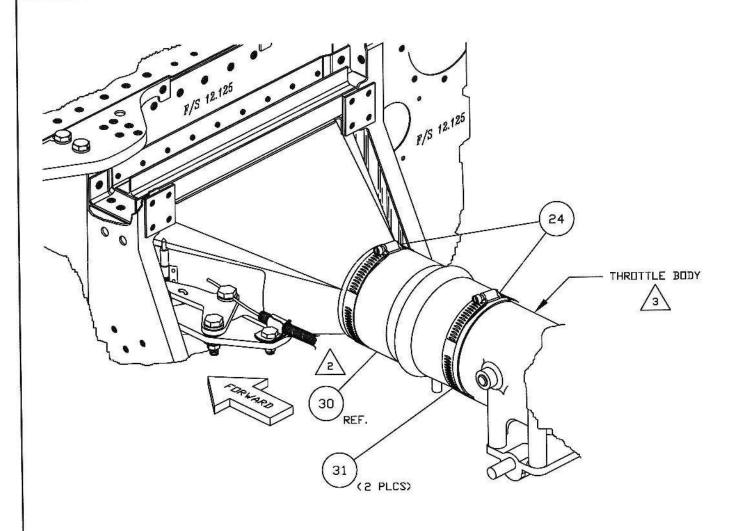


MAR 07 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

| 31 | 2 | 02500 | M56S | CLAMP | | | | | | | | | |
|--|--------|--------------|---------|--|--|--|--|--|--|--|--|--|--|
| 30 | 1 | 2580 | 004Z | BEMCO HOSE | | | | | | | | | |
| 24 | AR | G. E. SILI | CONE II | SILICONE SEALANT | | | | | | | | | |
| TEM | QTY | PART | No. | DESCRIPTION | | | | | | | | | |
| NEXT ASSY: DRAWN BY: D. B. ENGINEER: D. BRAUN CHECKED BY: D. B. | | | | INSTALLATION OF HOSE TO THE THROTTLE BODY | | | | | | | | | |
| _x_ | .10 .X | NCES XX01 | D'S. | HANNON PRODUCTS, LTD | | | | | | | | | |
| ANGLES ±6% UNLESS STATED | | | | No.DSP-IM95-10-26 REVISION NC | | | | | | | | | |
| | | | SCALE | NUNE DATE 05/06/11 SH 1 DF 2 | | | | | | | | | |

WITH THE ENGINE INSTALLED TRIM ITEM (30) TO ITS PROPER LENGTH USING THE LINES ON THE DUCT AS A GUIDE, NOTE: ITEM (30) IS MANUFACTURED TO FIT SEVERAL INSTALLATIONS, SO TRIMMING IS REQUIRED.



MAR 07 2013

CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION

THE THROTTLE BODY SHOWN MAY NOT BE THE EXACT THROTTLE USED FOR THE INSTALLATION.

INSTALL HOSE ITEM (3) ONTO BOTH FLANGES WITH HOSE CLAMP ITEM (3). DO NOT TIGHTEN SO AS TO CUT THE HOSE, PLACE SILICONE SEALANT ON BOTH SIDES OF THE CLAMPS SO THAT THE CLAMPS WON'T LOOSEN IN SERVICE.

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

INSTALLATION OF HOSE TO THE THROTTLE BODY

TOLERANCES
.X .10 .XXX .01
.XX .03 .XXXX .001
ANGLES ±5%

UNLESS STATED

D'SHANNON PRODUCTS, LTD

 DWG. No.DSP-IM95-10-26
 REVISION
 NC

 SCALE: NONE
 DATE 05/06/11
 SH 2
 DF 2