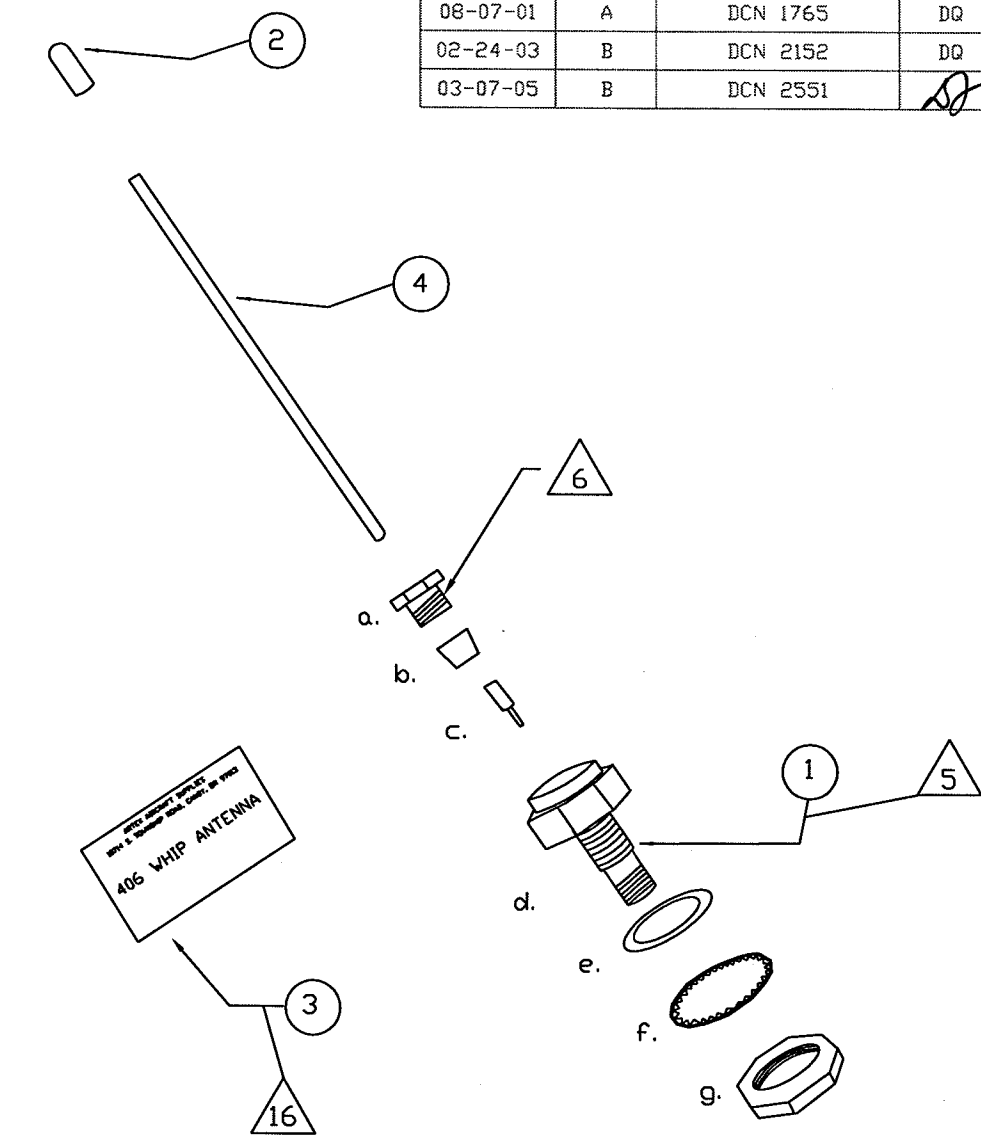


DATE	SYM	REVISION RECORD	AUTH	DR	CK
08-07-01	A	DCN 1765	DQ	RJ	TK
02-24-03	B	DCN 2152	DQ	DF	CL
03-07-05	B	DCN 2551	<i>DF</i>	<i>RB</i>	<i>DE</i>

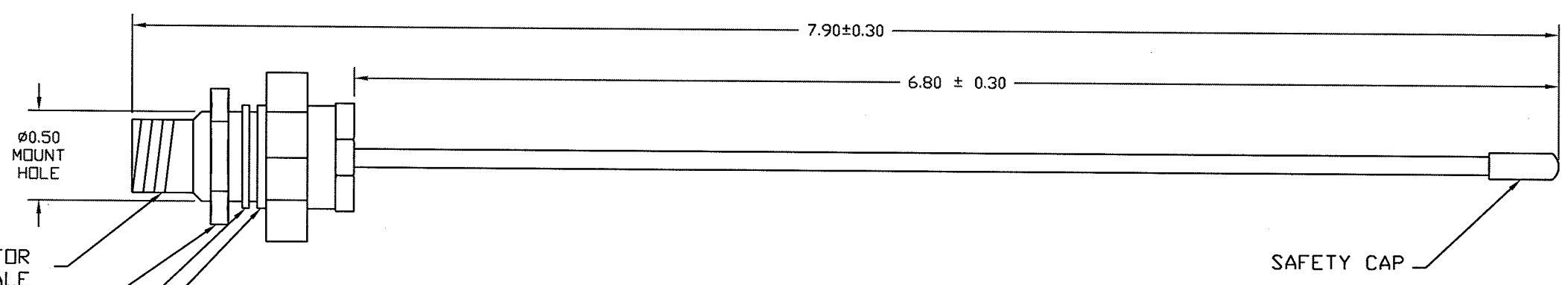
NOTES:

- ASSEMBLE ACCORDING TO DRAWING.
- CUT ANTENNA WIRE (ITEM 4) INTO LENGTH 7.5" LONG.
- CLEAN .375" OF SURFACE ON ONE END OF THE WIRE WITH ALCOHOL.
- SOLDER CENTER CONDUCTOR PIN (1c) USING SOLDER FLUX TO THE CLEANED END OF THE WIRE (ITEM 4).
- CONNECTOR (ITEM 1) INCLUDES COMPONENTS a-g: a=CLAMP NUT, b=CONE, c=CONNECTOR PIN, d=BODY ASSY., e=GASKET, f=INTERNAL TOOTH LOCK WASHER, g=HEX NUT.
- INSERT THE WIRE/PIN ASSEMBLY INTO CONE (1b) AND THEN INTO THE BODY ASSY (1d). SLIDE CLAMP NUT (1a) OVER ANTENNA WIRE ASSY. APPLY THREAD LOCKER (ITEM 5) TO THREADS OF CLAMP NUT AND THEN SCREW INTO BODY ASSY (1d) AND TIGHTEN. WIPE OFF ANY EXCESS THREAD LOCKER.
- CENTER THE WIRE WITHIN THE CONNECTOR. BY ROLLING THE WIRE IN YOUR FINGER, CHECK IF THE CONNECTOR REMAINS FAIRLY LINED UP WITH THE WIRE. ADJUST THE WIRE IF NECESSARY.
- TAKE THE CONNECTOR/WIRE ASSEMBLY TO THE POURING ROOM OR A WELL VENTILATED AREA. USE THE NECESSARY EQUIPMENT REQUIRED TO SAFELY HANDLE THE RESIN AND THE HARDENER PER MSD SHEETS.
- PLACE THE CONNECTOR IN A STAND TO KEEP THE CONNECTOR/WIRE ASSEMBLY IN AN UPRIGHT POSITION.
- MIX THE RESIN (ITEM 6) AND HARDENER (ITEM 7) TO A RATIO OF 8.33 TO 1 (THE RESIN WILL HAVE THE LARGEST AMOUNT). MIX THOROUGHLY. REFER TO PROCEDURE 4850.
- USING A SMALL CONTAINER OR SYRINGE, FILL THE CONNECTOR CAVITY WITH EPOXY MIXTURE ALL THE WAY UP TO THE TOP EDGE OF THE CLAMP NUT (1a). ALLOW TO CURE FOR 12 HOURS.
- INSTALL THE SAFETY TIP GUARD (ITEM 2) TO THE END OF THE WIRE.
- TEST ANTENNA IN ACCORDANCE WITH ANTENNA TEST PROCEDURE 4300, TRIM WIRE (ITEM 4) IF NEEDED TO MEET VSWR AND TOTAL PHYSICAL LENGTH SPECIFICATIONS.
- MIX EPOXY (ITEM 6 AND 7) AS DESCRIBED IN STEPS 8-10. USING A SYRINGE FILL THE INTERIOR OF TIP SAFETY GUARD (ITEM 2) WITH THE MIXTURE. INSTALL TIP ONTO END OF WIRE. WIPE OFF EXCESS EPOXY. ALLOW TO CURE FOR 24 HOURS OR UNTIL FIRM.
- INSTALL ANTENNA BASE CONNECTOR HARDWARE 1e-1g.
- PLACE ANTENNA IN PLASTIC BAG, APPLY LABEL (ITEM 3) TO EXTERIOR OF BAG AND SEAL.



SPECIFICATIONS:

- RF CHARACTERISTICS:
VSWR AT 406 MHz: LESS THAN 1.5:1
POLARIZATION: VERTICAL
RADIATION PATTERN: TYPICAL OF $\lambda/4$ MONOPOLE ANTENNA.
- AIRSPPEED RATING: 300 KNOTS TAS.



ITEM	PART NO.	REV	DESCRIPTION	QTY
7	850-0851	-	HARDENER, EL-CAST	AS REQ
6	850-0850	-	RESIN, EL-CAST WHITE	AS REQ
5	850-0290	-	THREAD LOCKER/SEALANT	AS REQ
4	654-0329	-	WIRE, .045" X 22" SS W/ NICKEL PLATE	.625FT
3	591-0407	-	LABEL, ANTENNA PRODUCT	1
2	183-0056	-	GUARD, SAFETY TIP	1
1	150-1123	-	CONNECTOR, TNC	1

ARTEX AIRCRAFT SUPPLIES, INC.
14405 KEIL ROAD NE, AURORA, OR. 97002

SCALE: NONE	APPROVED BY: <i>DF</i>	REVISED BY: RB
ORG. DR. BY: DF	ORG. DATE: 04-12-95	REV. DATE: 03-07-05

ANTENNA, 406MHz WHIP

SIZE B	SHEET 1 OF 1	DRAWING NUMBER: 110-329	REV. B
---------------	--------------	-------------------------	---------------

TOLERANCE TABLE	
UNLESS OTHERWISE SPECIFIED	.XX ±.03
TOLERANCES ARE:	.XXX ±.010
	.XXXX ±.0050
	XX" ±1"
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & PER ASME Y14.5M	

REVISION HISTORY ON SHEET 1

PROPRIETARY INFORMATION
THIS DOCUMENT DISCLOSES SUBJECT MATTER IN WHICH ARTEX AIRCRAFT SUPPLIES, INC. HAS PROPRIETARY RIGHTS. NEITHER RECEIPT NOR POSSESSION THEREOF CONFERS OR TRANSFERS ANY RIGHT TO REPRODUCE OR DISCLOSE THE DOCUMENT, ANY PART THEREOF, ANY INFORMATION THEREIN, OR ANY PHYSICAL ARTICLE OR DEVICE, OR PRACTICE ANY METHOD OR PROCESS EXCEPT BY WRITTEN PERMISSION FROM OR WRITTEN AGREEMENT WITH ARTEX AIRCRAFT SUPPLIES, INC.