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RECORD OF REVISIONS			
REV	DATE (DD/MM/YY)	DESCRIPTION OF CHANGES	DWN APPD
A	12/12/12	INITIAL ISSUE	CES <i>TR</i>

## GENERAL NOTES:

- PERFORM ALL WORK IN ACCORDANCE WITH STANDARD PRACTICES OF AS350 AMM, AND/OR AC43.13-1B/2B:
  - METAL WORK \* AC43.13-1B, CHAPTER 4 & 6,
  - AIRCRAFT HARDWARE \* AC43.13-1B, CHAPTER 7,
  - STRUCTURAL DATA \* AC43.13-2A, CHAPTER 1.
- EQUIVALENT FASTENERS MAY BE USED IN LIEU OF THOSE SPECIFIED. FASTENER LENGTH TO BE DETERMINED ON INSTALL.
- DEBURR, BRUSH ALODINE (AS PER MIL-C-5541), EPOXY PRIME (AS PER MIL-P-23377) ALL MODIFIED OR NEWLY FABRICATED BARE METAL PARTS.

**13** DEBURR HOLE AND REMOVE DEBRIS AND LOOSE MATERIAL FROM CAVITY AND SURFACE OF COMPOSITE PANEL. FILL UNDERCUT WITH EPOCAST 87269-A/B (OR EQUIVALENT) TO MATCH THE HOLE EDGE IN THE FACINGS, SAND SMOOTH AND FLUSH WHEN CURED.

**14** ANTENNA INST. I.A.W MANUFACTURERS INSTRUCTIONS. ENSURE REQUIRED ELECTRICAL BONDING BETWEEN DOUBLER AND AIRCRAFT GROUND USING ELECTRICAL STRAPS.

**15** FOR SINGLE ANTENNA RHS INSTL IS SHOWN. OPPOSITE LHS INSTALLATION IS ACCEPTABLE.

**7** LOCATE ON INSTALL ON CENTER PEDESTAL DZUS RAIL. INSTALL I.A.W. MANUFACTURERS INSTRUCTIONS.

**8** SIZE/TRIM PARTS TO SUIT INSTALL.

**9** RESERVED

**10** RESERVED

**11** ENSURE ANTENNA IS 6 INCHES CLEAR OF ANY EXISTING STRUCTURES IE. LIGHTS, LANDING GEAR, JACKING MOUNTS OPENINGS, OR OTHER EXISTING ANTENNAS. SPACE ANTENNA WITH RESPECT TO ITS CONNECTOR.

**12** MATCH FOOTPRINT OF ANTENNA AND MOUNTING HOLES.



QTY	DASH	NO	DESCRIPTION	MATERIAL	SPEC	SIZE	ITEM			
1	1	OB1252-(-)-(-)	TDFM-136B TRANSCEIVER	(VHF FM COMM)	TECHNISONIC	3.5 LBS	302			
2	1	CL292-3	FM EXT BAND BENT WHIP ANTENNA		COMANT	0.5 LBS	301			
6	3	MS21058L3	NUTPLATE, ZLUG, SELF-LOCKING			#10-32	205			
6	3	P101D31-(-)	PLUG INSERT				204			
6	3	S101D31-(-)	SLEEVE INSERT				203			
12	6	MS20428AD3	RIVET, SOLID, 100DEG CSK				202			
6	3	MS27039-(-)	SCREW, MACHINE, PAN HEAD			#10-32	201			
2	1	-101	CL292 INTERNAL DOUBLER	AL ALY 2024-T3	QQ-A-250/5	0.050" THK	101			
		-003	DUAL TDFM 136B INSTALLATION	136B CONFIGURATION			3			
		-001	SINGLE TDFM 136B INSTALLATION	136B CONFIGURATION			1			
		-003	NUMBER	SHT	ZONE	DESCRIPTION	MATERIAL	SPEC	SIZE	ITEM

LIST OF MATERIAL  
ODD DASH NUMBER IS SHOWN. THE NEXT HIGHER CONSECUTIVE EVEN DASH NUMBER IS OPPOSITE.

**15**

REVISION	COMPUTER GENERATED DOCUMENT DO NOT REVISE MANUALLY DO NOT SCALE DRAWING	DRAWN C. SUTTON	DATE 12-12-12	7050 TELFORD WAY, UNIT 200 MISSISSAUGA, ONTARIO CANADA L5S 1V7 TEL (905) 405-1371 FAX (905) 405-1373
REVISION RECORD		CHECKED <i>T. Muller</i>	DATE 2/1/13	
DWN/DATE	AS350	UNLESS OTHERWISE SPECIFIED, ALL LINEAR DIMENSIONS ARE IN INCHES.		TECHNISONIC ANTENNA INSTALLATION - AS350
CHECK/DATE	APPLICATION	TOLERANCES: LINEAR: X.XX ±0.03 X.XXX ±0.010 ANGULAR: X.X ±0°30'		
		MACHINED SURFACES: 125 ✓	SIZE B	DWG NUMBER: 5004214
			SCALE: NTS	NCAGE: L6518
			SHEET 1	OF 6

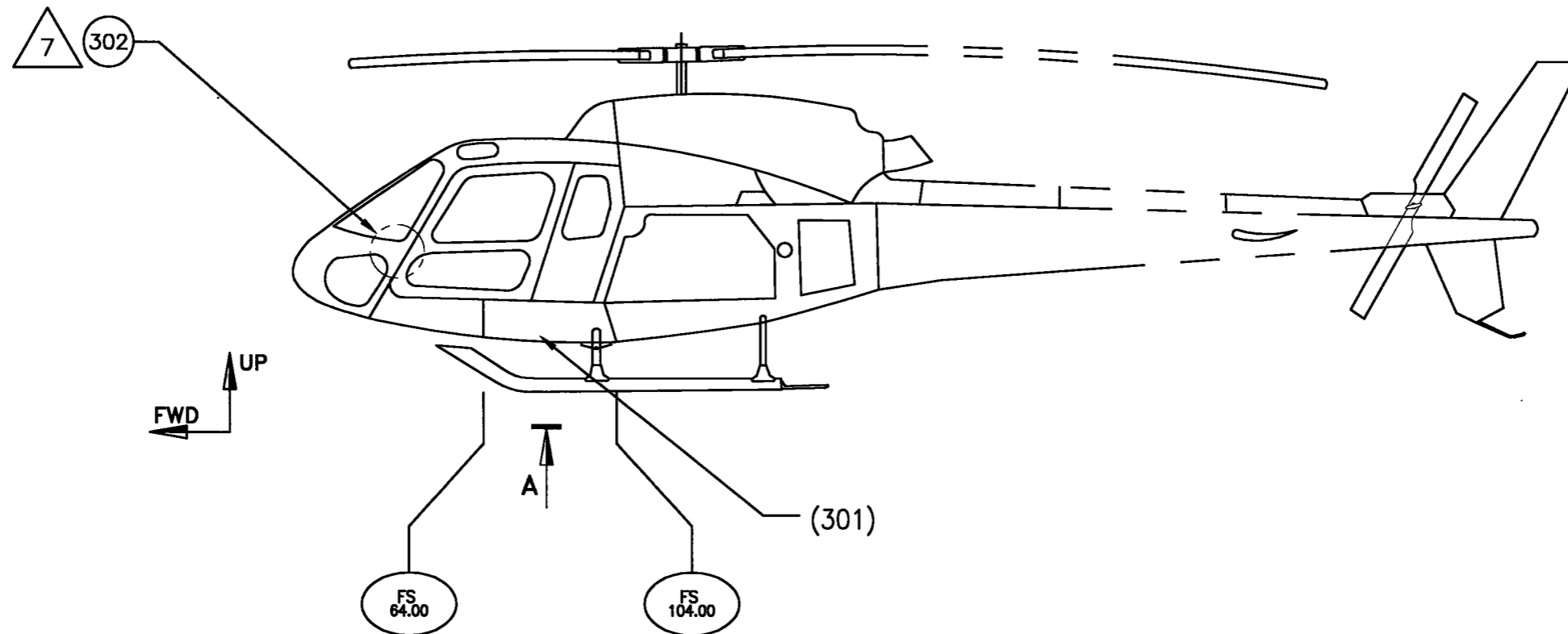
DWG NO 5004214 REV A

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# WEIGHT & BALANCE

NOTE: RECALCULATE MOMENT WITH ANY DEVIATION TO THE ITEM LOCATIONS

FOR AS350 (ALL ANTENNA INSTALLED)				
ITEM	DESCRIPTION	WEIGHT (LBS)	ARM (IN)	MOMENT (LBSxIN)
301	CL 292-3	0.5	88.52	44.26
302	TRANSCEIVER	3.5	31.40	109.940



-001 SINGLE TDFM 136B INSTALLATION  
GENERAL LAYOUT

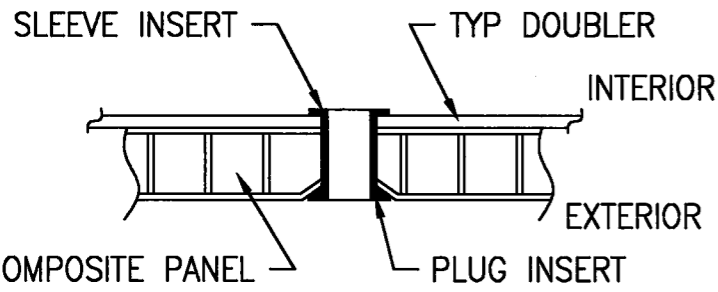
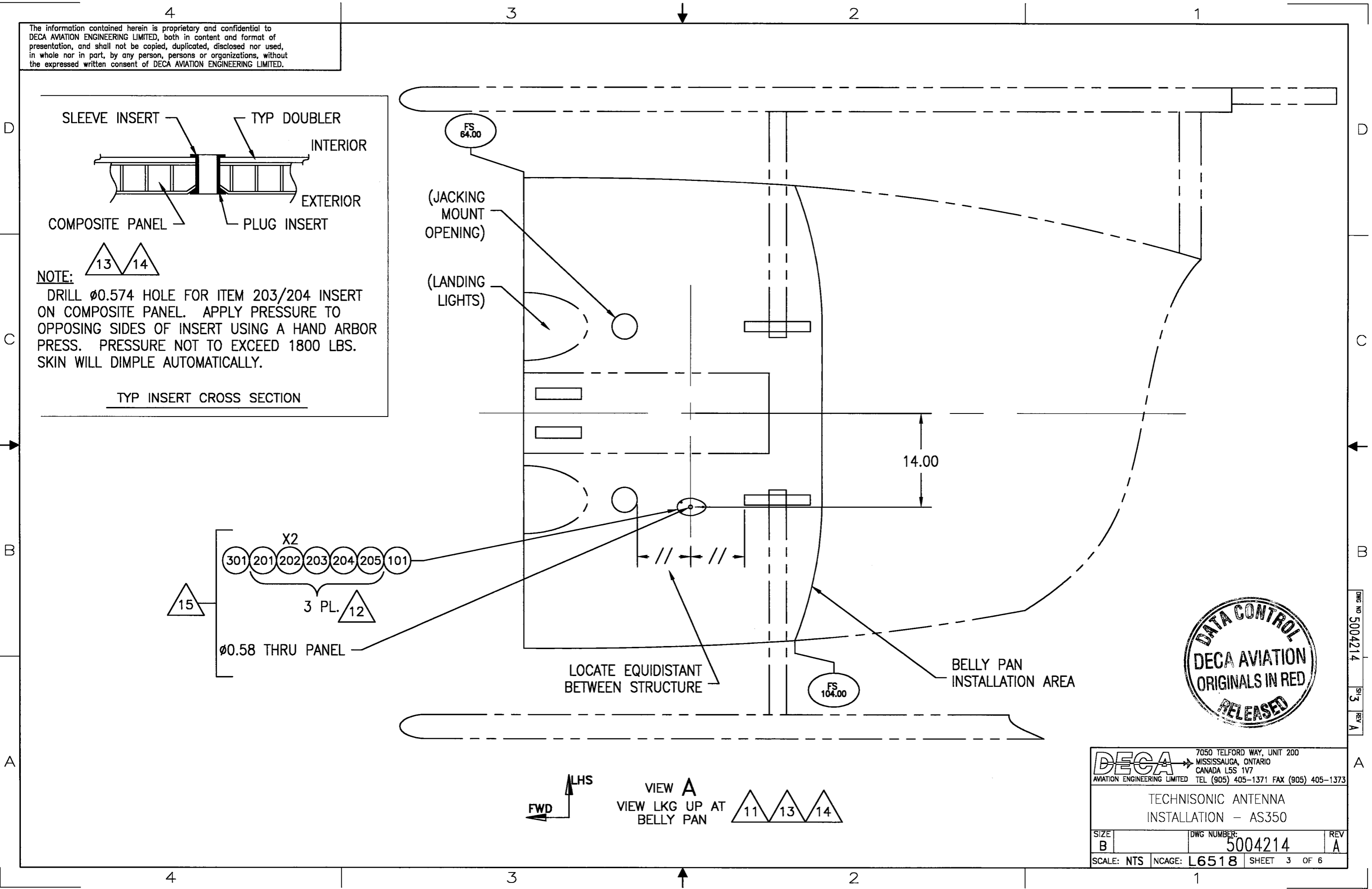
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CANADA L5S 1V7  
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TECHNISONIC ANTENNA  
INSTALLATION - AS350

SIZE B	DWG NUMBER: 5004214	REV A
SCALE: NTS	NCAGE: L6518	SHEET 2 OF 6

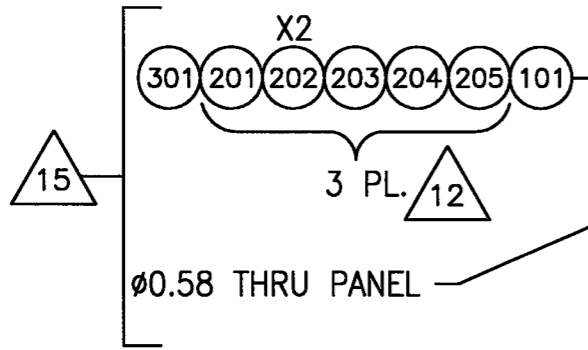
DWG NO 5004214  
SH 2  
REV A

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**NOTE:** DRILL  $\phi 0.574$  HOLE FOR ITEM 203/204 INSERT ON COMPOSITE PANEL. APPLY PRESSURE TO OPPOSING SIDES OF INSERT USING A HAND ARBOR PRESS. PRESSURE NOT TO EXCEED 1800 LBS. SKIN WILL DIMPLE AUTOMATICALLY.

TYP INSERT CROSS SECTION



$\phi 0.58$  THRU PANEL

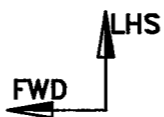


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TECHNISONIC ANTENNA  
 INSTALLATION - AS350

SIZE B	DWG NUMBER: 5004214	REV A
SCALE: NTS	NCAGE: L6518	SHEET 3 OF 6

VIEW A  
 VIEW LKG UP AT  
 BELLY PAN



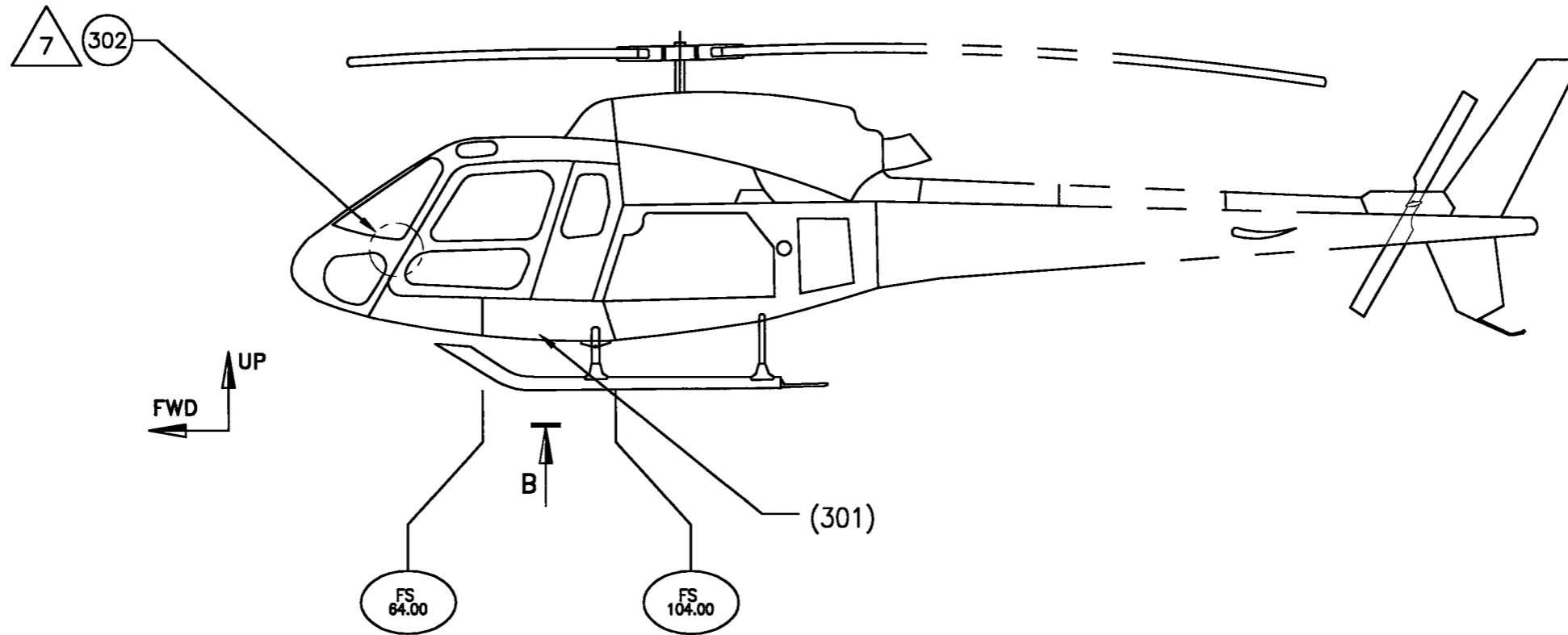
DWG NO 5004214 SH 3 REV A

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# WEIGHT & BALANCE

NOTE: RECALCULATE MOMENT WITH ANY DEVIATION TO THE ITEM LOCATIONS

FOR AS350 (ALL ANTENNA INSTALLED)				
ITEM	DESCRIPTION	WEIGHT (LBS)	ARM (IN)	MOMENT (LBSxIN)
301	CL 292-3	1.0	88.52	88.52
302	TRANSCEIVER	3.5	31.40	109.940



## -003 DUAL TDFM 136B INSTALLATION

GENERAL LAYOUT

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TECHNISONIC ANTENNA  
 INSTALLATION - AS350

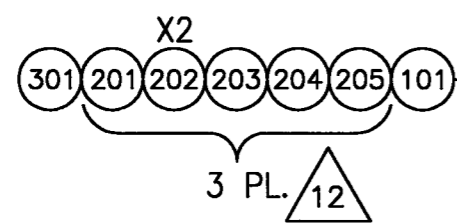
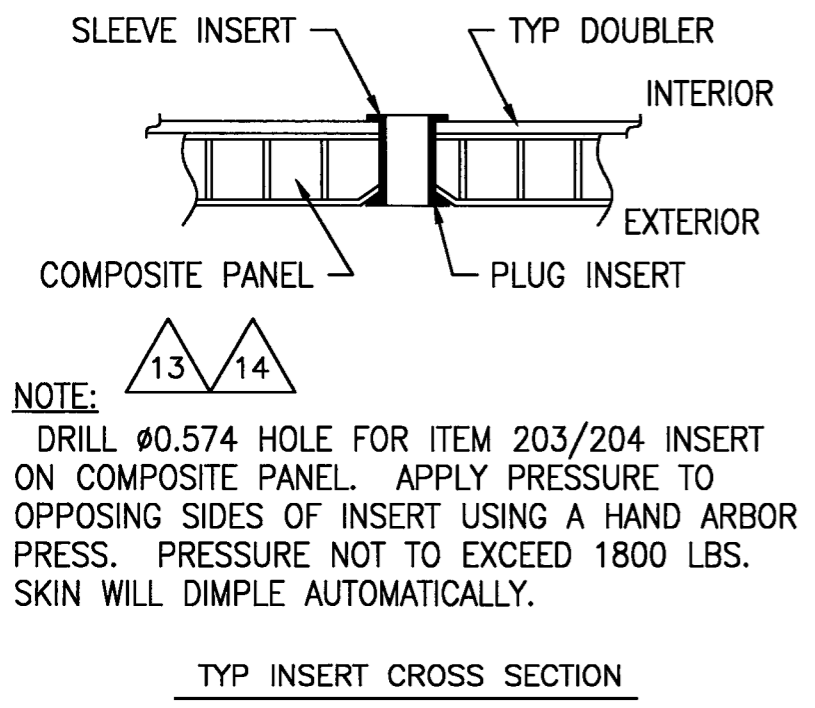
SIZE B	DWG NUMBER: 5004214	REV A
SCALE: NTS	NCAGE: L6518	SHEET 4 OF 6

DWG NO 5004214 SH 4 REV A

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D  
C  
B  
A

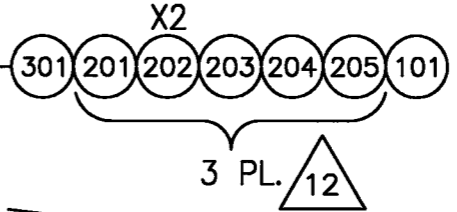
LOCATE EQUIDISTANT BETWEEN STRUCTURE



$\phi 0.58$  THRU PANEL

(JACKING MOUNT OPENING)

(LANDING LIGHTS)



LOCATE EQUIDISTANT BETWEEN STRUCTURE

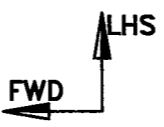
BELLY PAN INSTALLATION AREA

FS 104.00

FS 64.00

14.00

14.00



VIEW B  
VIEW LKG UP AT  
BELLY PAN



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TECHNISONIC ANTENNA  
INSTALLATION - AS350

SIZE B	DWG NUMBER 5004214	REV A
SCALE: NTS	NCAGE: L6518	SHEET 5 OF 6

A

4

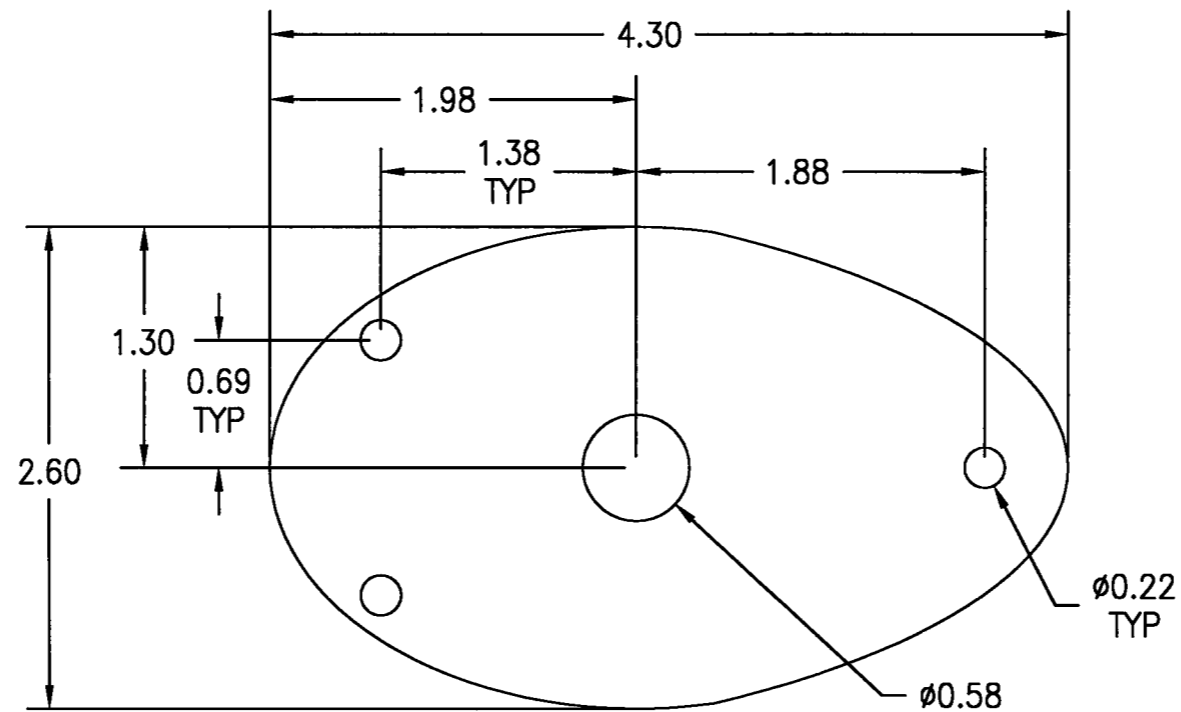
3

2

1

DWG NO 5004214 SH 5 REV A

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-101 CL292 INTERNAL DOUBLER 



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TECHNISONIC ANTENNA  
 INSTALLATION - AS350

SIZE: B	DWG NUMBER: 5004214	REV: A
SCALE: NTS	NCAGE: L6518	SHEET 6 OF 6

DWG NO 5004214  
 6  
 REV A

A