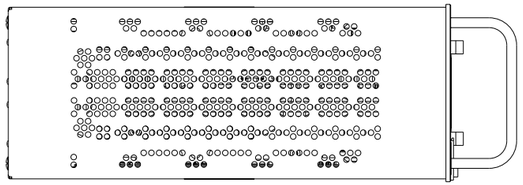
DRAWING NO.	SHEET
940-0400-001	1

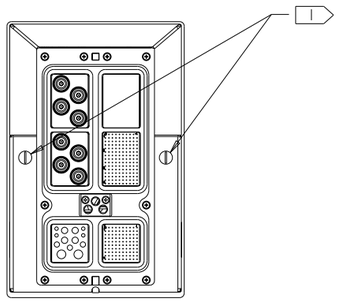
NOTES: UNLESS OTHERWISE SPECIFIED,

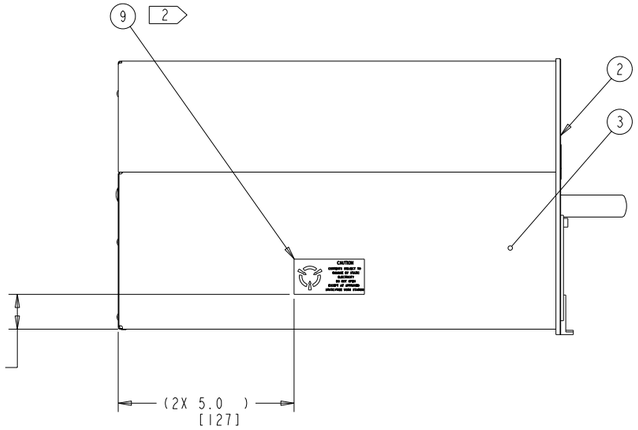
1. QUARTER-TURN FASTENERS: SLIDE SHEET METAL COVER (FIND NO 3) OVER CONFIGURATION ASSEMBLY (FIND NO 2) AND FULLY ENGAGE FASTENERS. ROTATE FASTENER ONE-QUARTER TURN CLOCKWISE AND ENSURE SPRING ENGAGEMENT.
2. LOCATE LABEL APPROXIMATELY AS SHOWN.
3. CENTER LABEL IN RECESS.
4. APPROPRIATE DASH NUMBER AND SERIAL NUMBER SHALL BE ON DATA MATRIX IDENTIFICATION PLATE PRIOR TO SHIPMENT.
5. MARK APPLICABLE MOD DOTS USING FIND NO. 11.
6. THE DRAWING AND BOM REVISION LEVELS SHOWN REPRESENT THE "RELEASED AT" LEVEL. ALL FUTURE REVISIONS AND DASHES OF THE SAME BASE NUMBERED DOCUMENT WILL INCORPORATE PREVIOUS MODS.

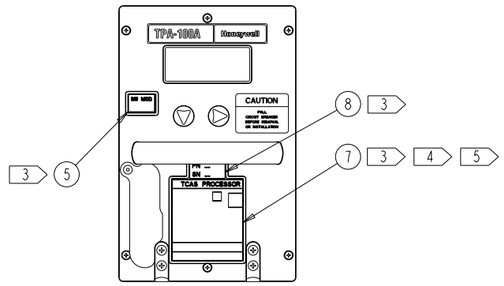
REVISIONS

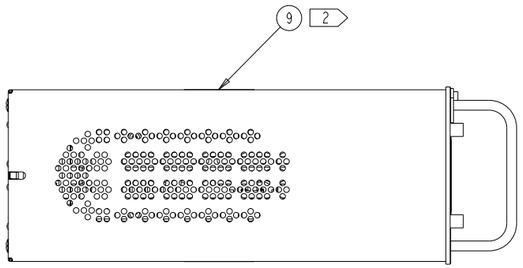
ZONE	REV	DESCRIPTION	DATE	APPROVED
C3-2	E	REV DESCRIPTIONS A THRU D DELETED. DIRECT UPDATE: ER 732631 ADDED MOD DOT 5. REASON: 02, SEVERITY: 08	10/3/03	KSHAYATSU J SPENCE L KING D CHACE G CHILDS
C3-2	F	DIRECT UPDATE: ER 732948 ADDED MOD DOT 6. REASON: 02, SEVERITY: 08	10/10/03	KSHAYATSU J SPENCE L KING D CHACE G CHILDS
C8-1 D8-2	G	DIRECT UPDATE: ER 733380 ADDED FLAGNOTE 6. REVISED/ADDED INFO TO TABLE, SH2-3. REASON: 02, SEVERITY: 08	10/24/03	KSHAYATSU J SPENCE L KING D CHACE W LAMBERT











SEE SEPARATE PARTS LIST

THIS DOCUMENT IS AN UNPUBLISHED WORK. COPYRIGHT 2002, 2003 HONEYWELL INTERNATIONAL INC. ALL RIGHTS RESERVED.

HONEYWELL PROPRIETARY
THIS DOCUMENT AND ALL INFORMATION AND EXPRESSION CONTAINED HEREIN ARE THE PROPERTY OF HONEYWELL INTERNATIONAL INC., ARE LOANED IN CONFIDENCE, AND MAY NOT, IN WHOLE, OR IN PART, BE USED, DUPLICATED OR DISCLOSED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF HONEYWELL INTERNATIONAL INC.

CAD PREPARED DRAWING USING PRO/ENGINEER SOFTWARE. NOT TO BE MANUALLY ALTERED.

UNLESS OTHERWISE SPECIFIED

ALL DIMS ARE IN INCHES	± .XX	0.03
	± .XXX	0.010
	± ANGLE	0.5°

INTERPRET DRAWING PER ASME Y14.100-2000

ANGLE PROJECTION

PRECIOUS METAL INDICATOR CODE
NA

CONTRACT NO.

TYPED SIGNATURES CONSTITUTE APPROVAL. ACTUAL SIGNATURES ARE ON FILE AT HONEYWELL IN REDMOND, WA.

DWN	KSHAYATSU	10/2/02
CHECK	J CHUNGBIN	10-3-02
ENGR	L KING	10-7-02
MFG	D CHACE	10-11-02
QA	G CHILDS	10/8/02
APPD		

HONEYWELL INTERNATIONAL INC.
REDMOND, WASHINGTON 98073-9701
Honeywell

TITLE
TOP ASSEMBLY,
TPA-100A, 4MCU

SIZE	CAGE CODE	DRAWING NO.	REV
D	97896	940-0400-001	G

SCALE: 1/2 WT: — SHEET: 1 OF 3

TPA-100A

SHEET	1	2
	G	G
	F	F
	E	E

REVISION STATUS OF SHEETS

-001	-	940-0400
DASH	NEXT ASSY	USED ON
APPLICATION		

RED LABEL UNITS ONLY

MOD DOT 5	ECP NO.	ER NO.	REASON FOR CHANGE	PARTS CHANGE	ASSEMBLY DESCRIPTION	ASSEMBLY/BOM, REV 6
1	14860	727100	Historical Data.	Add Find No. 161 (R575 and R576) P/N: 104-5058-134. Add Find No. 162 (R577) P/N: 104-5058-018.	CCA, TCAS DATA PROCESSOR (CPU)	PL722-4350-003, G
		727814	Change A/D input Bias.	Replaced Find No. 162 (R577) from P/N: 104-5058-018 RES, 18.2K, 0805, 1%,.1W with P/N: 104-5058-135 RES, 14.0K, 0805, 1%,.1W.	CCA, TCAS DATA PROCESSOR (CPU)	PL722-4350-003, H
		733038	Change A/D input Bias.	Replaced Find No. 162 (R577) from P/N: 104-5058-018 RES, 18.2K, 0805, 1%,.1W with P/N: 104-5058-135 RES, 14.0K, 0805, 1%,.1W.	CCA, TCAS DATA PROCESSOR (CPU)	PL722-4350-003, F
2	14832	729115	Unit fails antenna E4 BITE test at low temperature (-40°c).	Add jumper wire only.	CCA, RECEIVER	722-4435-001, G
3	14853	731642	1. To change Pulse transformer (T6, T9 & T10) and inductors (L8, L9 & L17) for structural weakness. 2. To change 429 line drivers due to low temperature instability. 3. Need to change Pushbutton switches due to high temperature susceptibility.	1A. Replace Find No. 95 (L8 and L9) from P/N: 320-0243-001 with P/N: 320-0243-012. 1B. Replace Find No. 99 (L17) from P/N: 320-0242-001 with P/N: 320-0242-002. 1C. Replace Find No. 188 (T9) from P/N: 310-0537-001 with P/N: 310-0537-002. 1D. Replace Find No. 185 (T9) from P/N: 310-0536-001 with P/N: 310-0536-002. 2A. Replace Find No. 27 (U44 - U48, U56 - U60) from P/N: 321-2633-001 with P/N: 321-2633-004. 3A. Replace Find No. 9 (SW 1 AND 2) from P/N: 031-22207-0004 with P/N: 031-22207-0007.	1. CCA, POWER SUPPLY 2. CCA, TCAS DATA PROCESSOR (CPU) 3. CCA, FRONT INTERCONNECT	PL722-4348-004, C PL722-4350-005, C PL722-4354-004, F
	14853R1	732360	1. To change Pulse transformer (T6, T9 & T10) and inductors (L8, L9 & L17) for structural weakness. 2. To change 429 line drivers due to low temperature instability.	1A. Replace Find No. 94 (L8 and L9) from P/N: 320-0243-001 with P/N: 320-0243-012. 1B. Replace Find No. 98 (L17) from P/N: 320-0242-001 with P/N: 320-0242-002. 1C. Replace Find No. 187 (T9) from P/N: 310-0537-001 with P/N: 310-0537-002. 1D. Replace Find No. 184 (T9) from P/N: 310-0536-001 with P/N: 310-0536-002. 2A. Replace Find No. 27 (U44 U48, U56 U60) P/N: 321-2633-001 with P/N: 321-2633-004.	1. CCA, POWER SUPPLY 2. CCA, TCAS DATA PROCESSOR (CPU)	PL722-4348-003, K PL722-4350-003, J
4	14840	732257	DEI1026 (Six channel Discrete-to Digital interface) discrete switch transitions to ground at 3.2 volts. Per ARINC 735A, they should transition at 3.5 volts.	Replace Find No. 31, 14 places (U65 - U69, U73 - U76, U277 - U229 & U233 - U234) P/N: 321-2622-001 Adds P/N: 321-2622-002.	CCA, TCAS DATA PROCESSOR (CPU)	PL722-4350-003, G
	14840R1	732360			CCA, TCAS DATA PROCESSOR (CPU)	PL722-4350-003, J
5	14843	731921	1. Corrects a problem with the undervoltage and overvoltage operating limits to meet DO-160D requirements. 2. Corrects a problem during warm start conditions between 200 - 300 ms that prevented the unit from meeting the DO-160D 200 ms. Power transparency requirements.	Replaces CCA, POWER SUPPLY P/N: 722-4348-003 with P/N: 722-4348-004.	CCA, POWER SUPPLY	PL722-4348-004, D & 722-4348-004, * **ONLY**

PROPIETARY NOTICE ON TITLE PAGE APPLIES

RED LABEL UNITS ONLY (CON'T)

MOD DOT 5	ECP NO.	ER NO.	REASON FOR CHANGE	PARTS CHANGE	ASSEMBLY DESCRIPTION	ASSEMBLY/BOM, REV 6
6	14844	732812	1. Fixes failure of DPSK spectrum per DO-185A, Vol. I Sec. 2.2.3.3. 2. Adds temperature compensation for amplitude modulation circuit. 3. Fixes timing failure of Mode C and Mode-S timing requirements per DO-185A, Vol. I, Sec. 2.2.3.8.1 and 2.2.3.8.2.	Replaces CCA, TRANSMITTER P/N: 722-4432-002 with P/N: 722-4432-003. Replace: Find No. 95 (R8, R9, R79 & R80) P/N: 104-5026-071 with P/N: 104-5026-279. Replace: Find No. 99 (R31, R49, & R58) P/N: 104-5076-015 With P/N: 104-5076-016. Replace: Find No. 98 (R47) P/N: 104-5060-037 with P/N: 104-5060-279. Replace: Find No. 96 (R42) P/N: 104-5060-130 with P/N: 104-5060-279. Replace: Find No. 137 (R520) P/N: 104-5060-243 with P/N: 104-5060-222. Replace: Find No. 97 (R25, R35, R46, R53, R54 & R62) P/N: 104-5076-026 With P/N: 104-5060-025. Replace: Find No. 143 (R566) P/N: 104-5076-079 With P/N: 104-5076-126. Add Find No. 171 (R566) P/N: 104-5076-127 ALT TO FIND 143. Replace: Find No. 93 (R5, R6, R11, R12, R75, R76, R81 & R82) P/N: 139-00412-000 With P/N: 104-5026-280. Add Find No. 173 (R 8, R9, R79 & R80) P/N: 104-5026-281 ALT TO FIND 95. Add Find No. 173 (R 8, R9, R79 & R80) P/N: 104-5026-282 ALT TO FIND 95. Add Find No. 168 (R579) P/N: 104-5060-164. Add Find No. 167 (C716) P/N: 106-05104-1327. Add Find No. 169 (U322) P/N: 322-0921-004. Add Find No. 170 (U322) P/N: 322-0921-003 ALT TO FIND 169. Add Find No. 172 (WIRE, ELEC, 30AWG, GRN) P/N: 520-0241-005.	CCA, TRANSMITTER	PL722-4432-003, D & 722-4432-003, * ONLY
		732985		Add Find No. 179 (ADHESIVE, EPOXY). Delete Find No. 96 (R17, R18) P/N: 104-5060-130. Add Find No. 175 (R17, R18) P/N: 104-5060-142. Delete Find No. 98 (R21) P/N: 104-5060-037. Add Find No. 77 (R21) P/N: 104-5060-025. Delete Find No. 97 (R25, R35, R46, R53, R54 & R62) P/N: 104-5076-025. Add Find No. 176 (R25, R35, R46, R53, R54 & R62) P/N: 104-5076-025. Delete Find No. 99 (R31, R49 & R58) P/N: 104-5076-016. Add Find No. 178 (R31, R49 & R58) P/N: 104-5076-016. Delete Find No. 96 (R42) P/N: 104-5060-142. Add Find No. 96 (R42) P/N: 104-5060-130. Delete Find No. 98 (R47) P/N: 104-5060-025. Add Find No. 98 (R47) P/N: 104-5060-037. Delete Find No. 143 (R566) P/N: 104-5076-126. Add Find No. 171 (R566) P/N: 104-5076-127.	CCA, TRANSMITTER	PL722-4432-003, E
		733104		Delete Find No. 167 (C716) P/N: 106-05104-1327. Add Find No. 39 (C716) P/N: 106-05104-1327. Delete Find No. 168 (R579) P/N: 104-5060-164. Add Find No. 102 (R579) P/N: 104-5060-164. Delete Find No. 143 (R566) P/N: 104-5076-128 Delete Find No. 171 (R566) P/N: 104-5076-127, ALT TO FIND 143. Add Find No. 171 (R566) P/N: 104-5076-127. Add Find No. 180 (U322) P/N: 104-5076-128, ALT TO FIND 171.	CCA, TRANSMITTER	PL722-4432-003, F
		733397		Delete Find No. 138 (R544 & R547) P/N: 104-5076-087. Add Find No. 138 (R544 & R547) P/N: 104-5076-130. Add Find No. 181 (R544 & R547) P/N: 104-5076-131, ALT TO FIND 138.	CCA, TRANSMITTER	PL722-4432-003, G