

**ROCKWELL COLLINS**  
**COMPONENT MAINTENANCE MANUAL with IPL**  
TDR-94, PART NO 622-9352

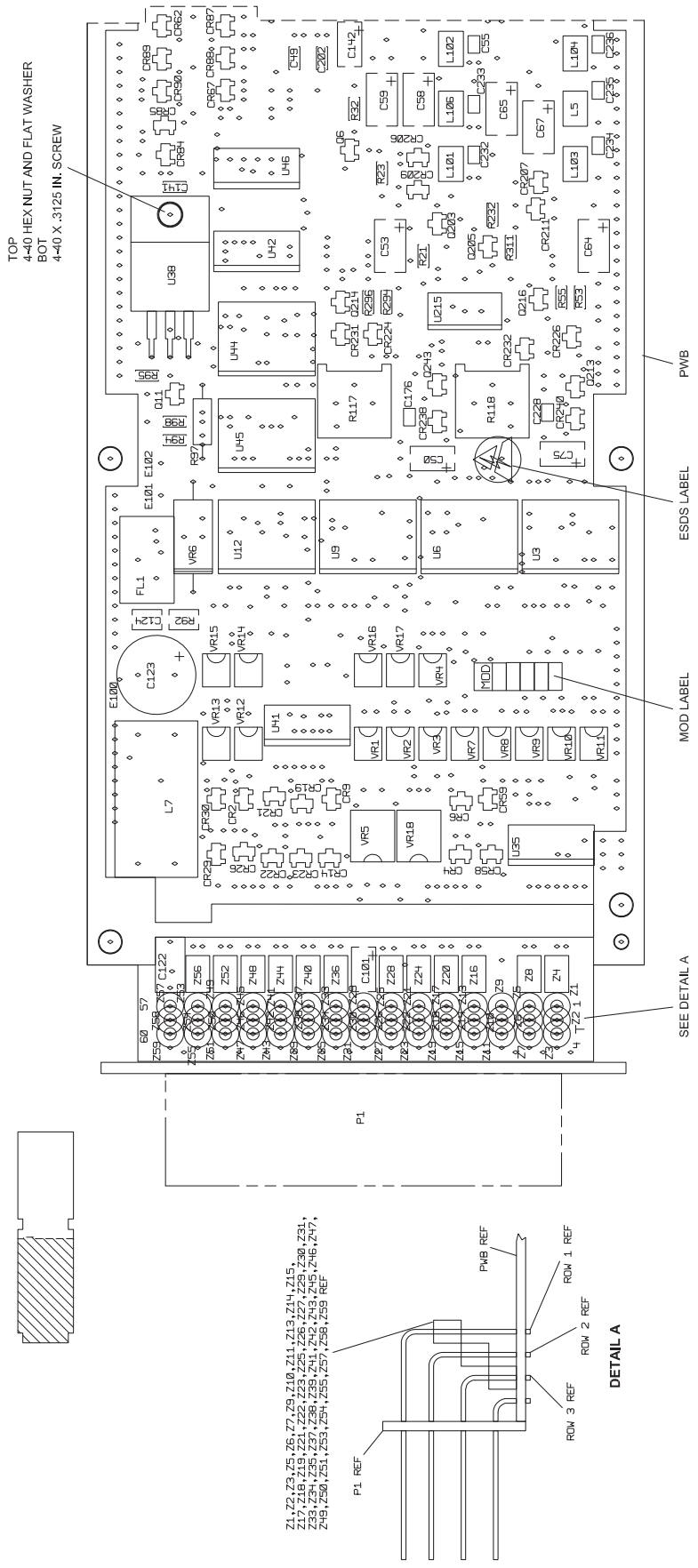
**MAINTENANCE AID/SCHEMATIC CHANGES**

REVISION IDENT (SHEET)	DESCRIPTION OF REVISION AND CAUSE FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY MARKING
N/A	Added mod label and service bulletin marking information.	15	REV A
N/A	Changed to 1-inch wide insulation tape at production request.		REV B
N/A	Changed to 2-part silicone adhesive to reduce cure time. Bonded C123 to board.		REV C
N/A	Added information for production.		REV D
N/A	CPN of P3 changed from 653-3984-001 to 372-0033-750. This change was initiated by a production review.		REV E
F (2,3,4,5)	Made one cut and added five jumper wires to circuit card. This modification connects NOR gates U24C and U24D between U108-6 and the R53/R294 junction to correct an intermittent TCAS bus failure problem.	21	REV F
G (2)	U215 changes from 74HC4316 to MC74HC4316AD. The component being replaced is no longer procurable.		REV G
H (6)	Installed three jumper wires to connect C122, C124, and FL1 to chassis ground. This modification will reduce potential interference with VHF communications.	22	REV H
J (5)	U24 changes from 74HC02 to SN74HC02AD. This change was made to improve production yield.		REV J

Video Processor Circuit Card A6 (CPN 687-0726-005), Maintenance Aid and Schematic Changes  
Table 2014/Table 34-50-96-99A-025-A01



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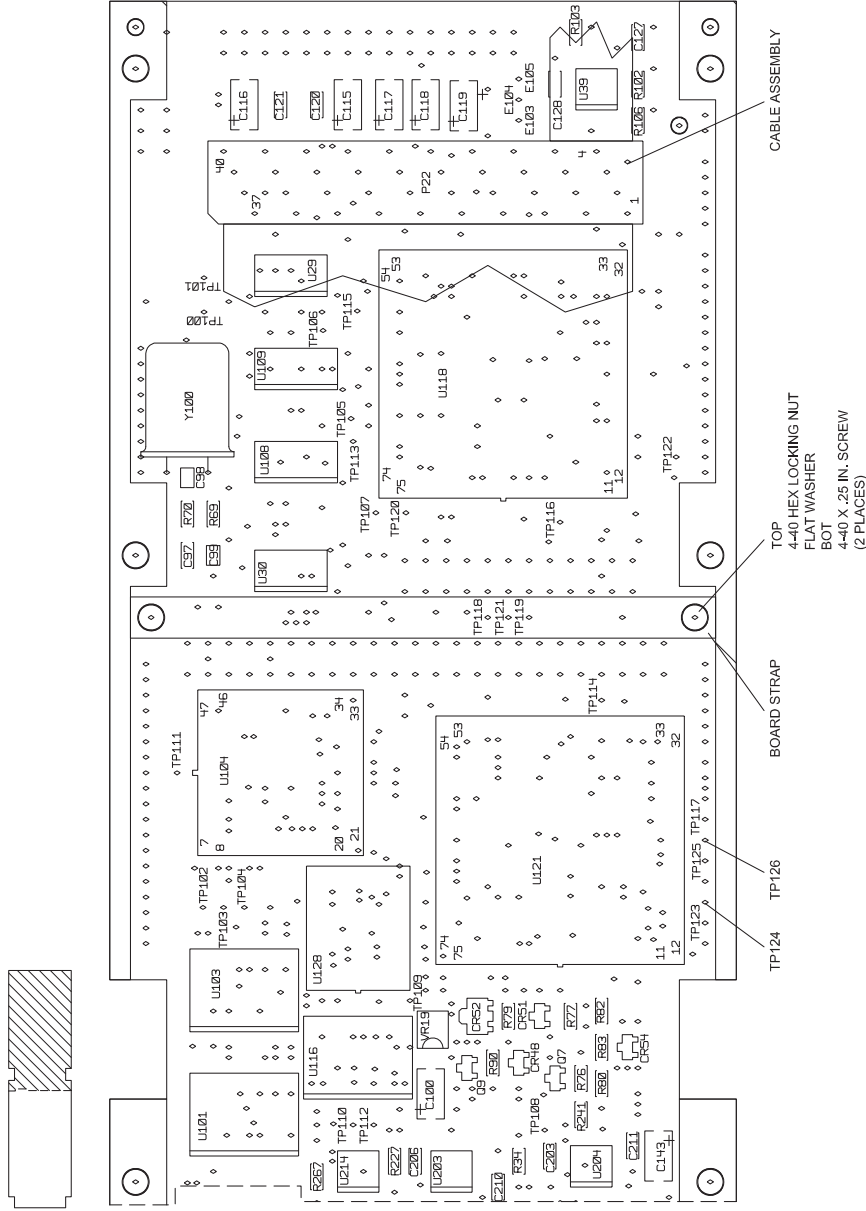
(687-0726-005\_4)  
 CSU-69H4HC01

PARTIAL TOPSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-005), Maintenance Aid Diagram  
 Figure 2025 (Sheet 1 of 4)/GRAPHIC 34-50-96-99B-060-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



(687-0726-005\_4)  
 000-560-004-002

PARTIAL TOPSIDE VIEW

CABLE ASSEMBLY

TOP  
 4-40 HEX LOCKING NUT  
 FLAT WASHER  
 BOT  
 4-40 X .25 IN. SCREW  
 (2 PLACES)

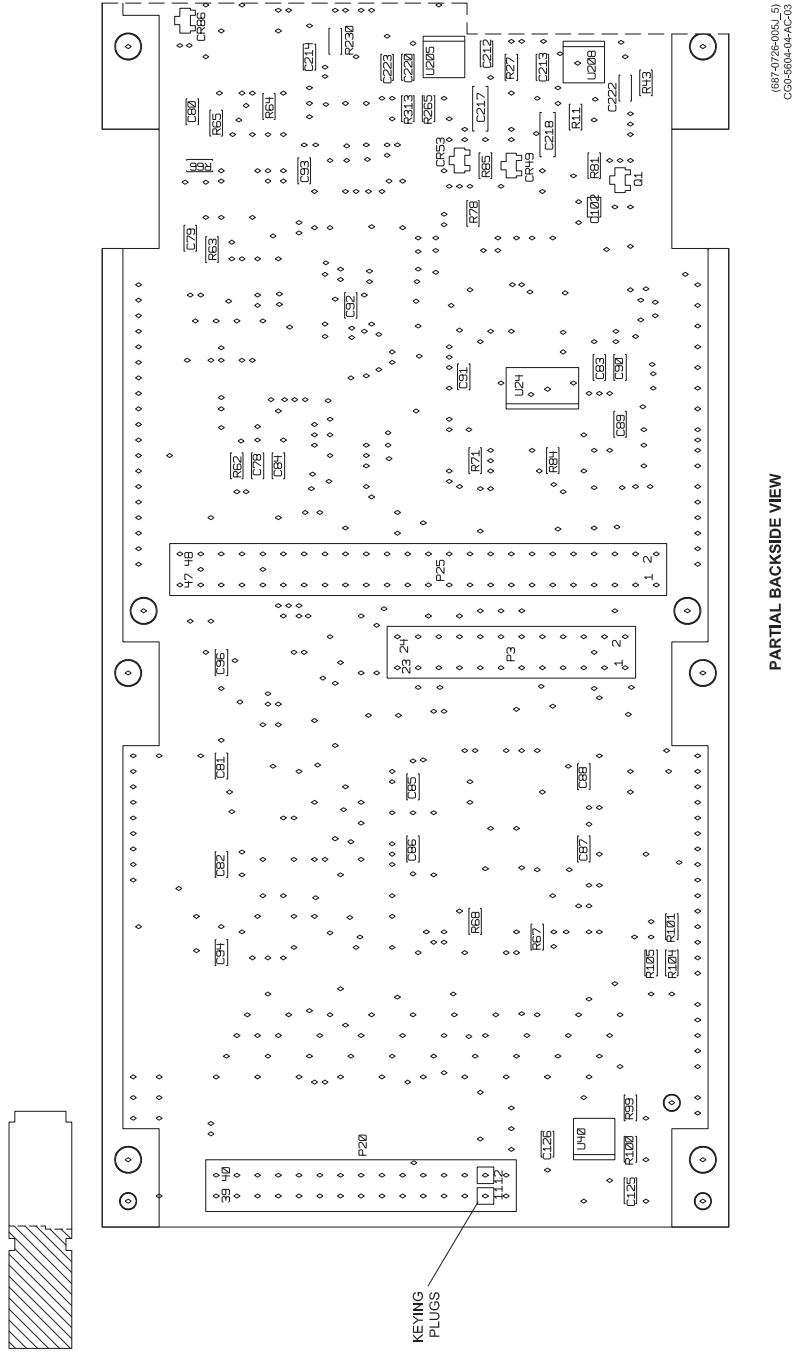
BOARD STRAP

TP126  
 TP124  
 TP123  
 TP125  
 TP117

Video Processor Circuit Card A6 (CPN 687-0726-005), Maintenance Aid Diagram  
 Figure 2025 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-060-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



(687-0726-005,L5)  
 COP-5604-04-AC03

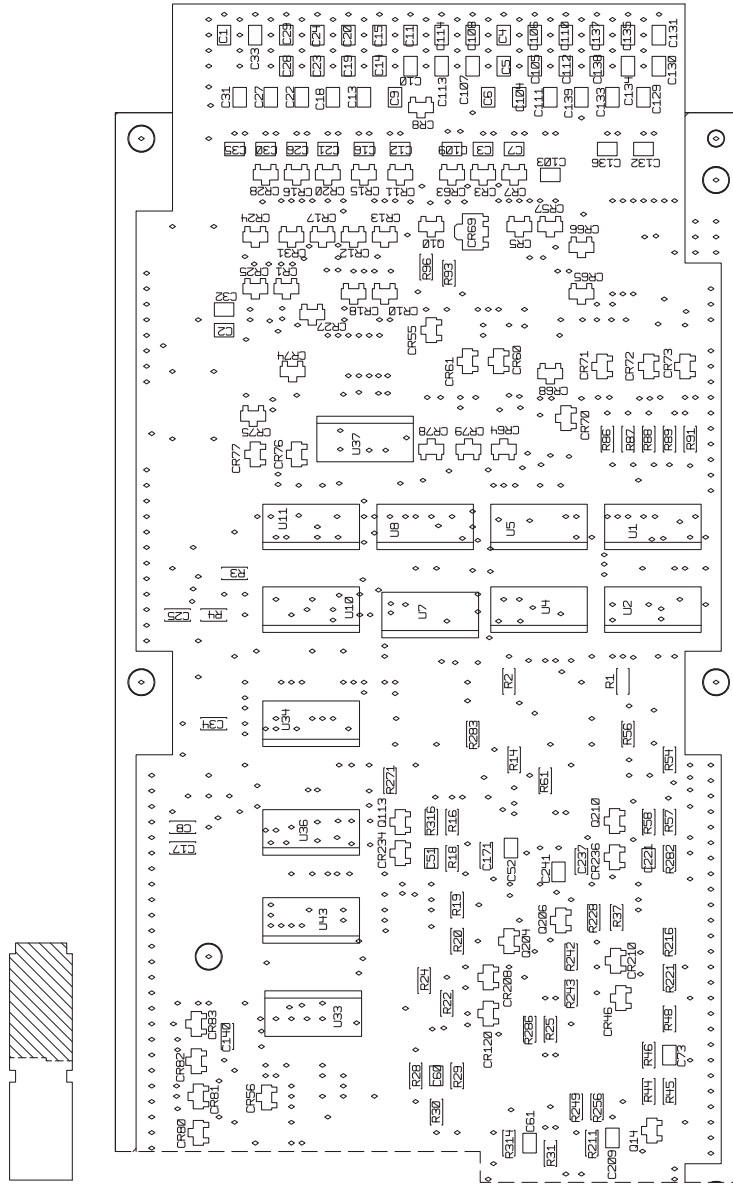
PARTIAL BACKSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-005), Maintenance Aid Diagram  
 Figure 2025 (Sheet 3 of 4)/GRAPHIC 34-50-96-99B-060-A01





ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
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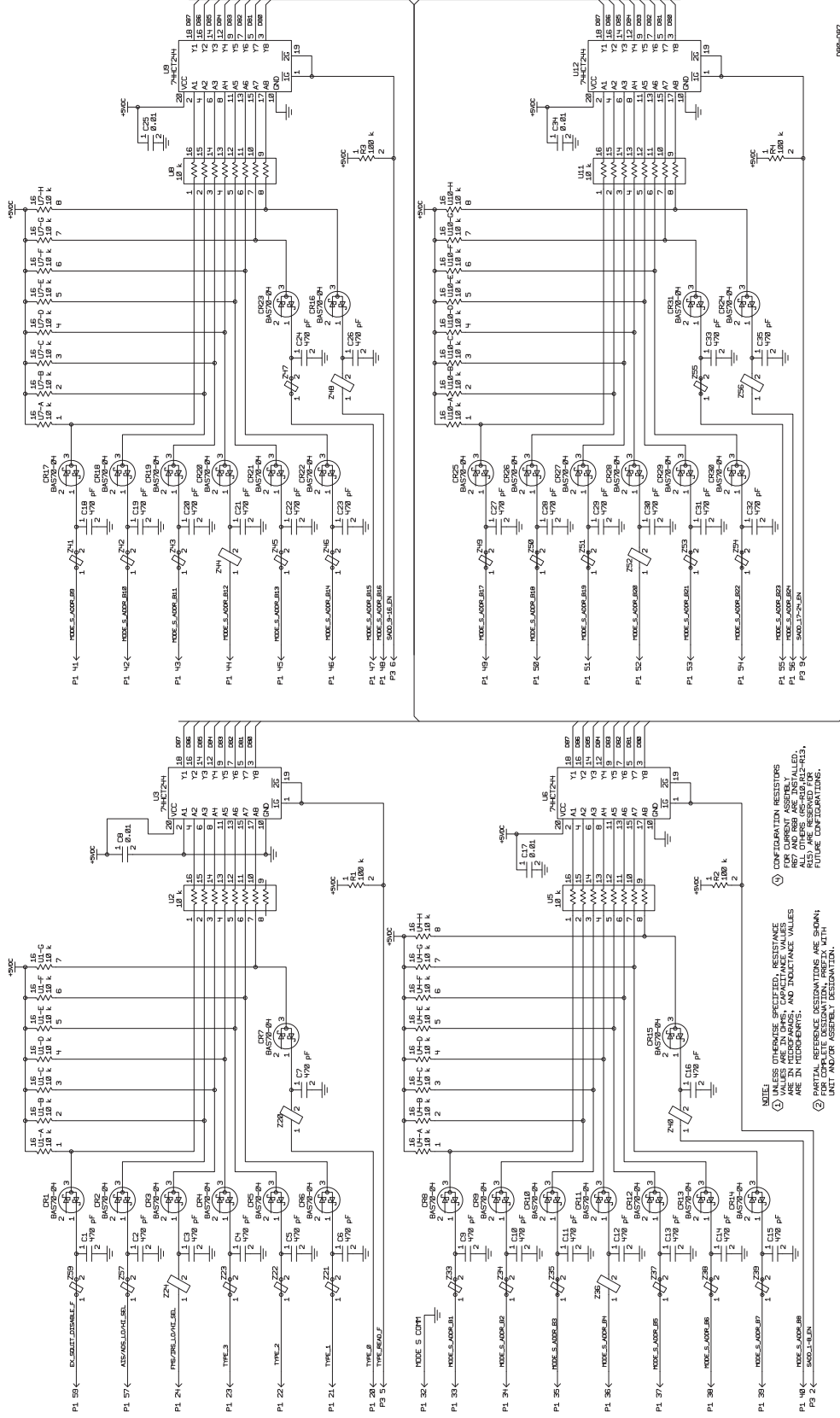
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 CS9-604-94-AC24

PARTIAL BACKSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-005), Maintenance Aid Diagram  
 Figure 2025 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-060-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
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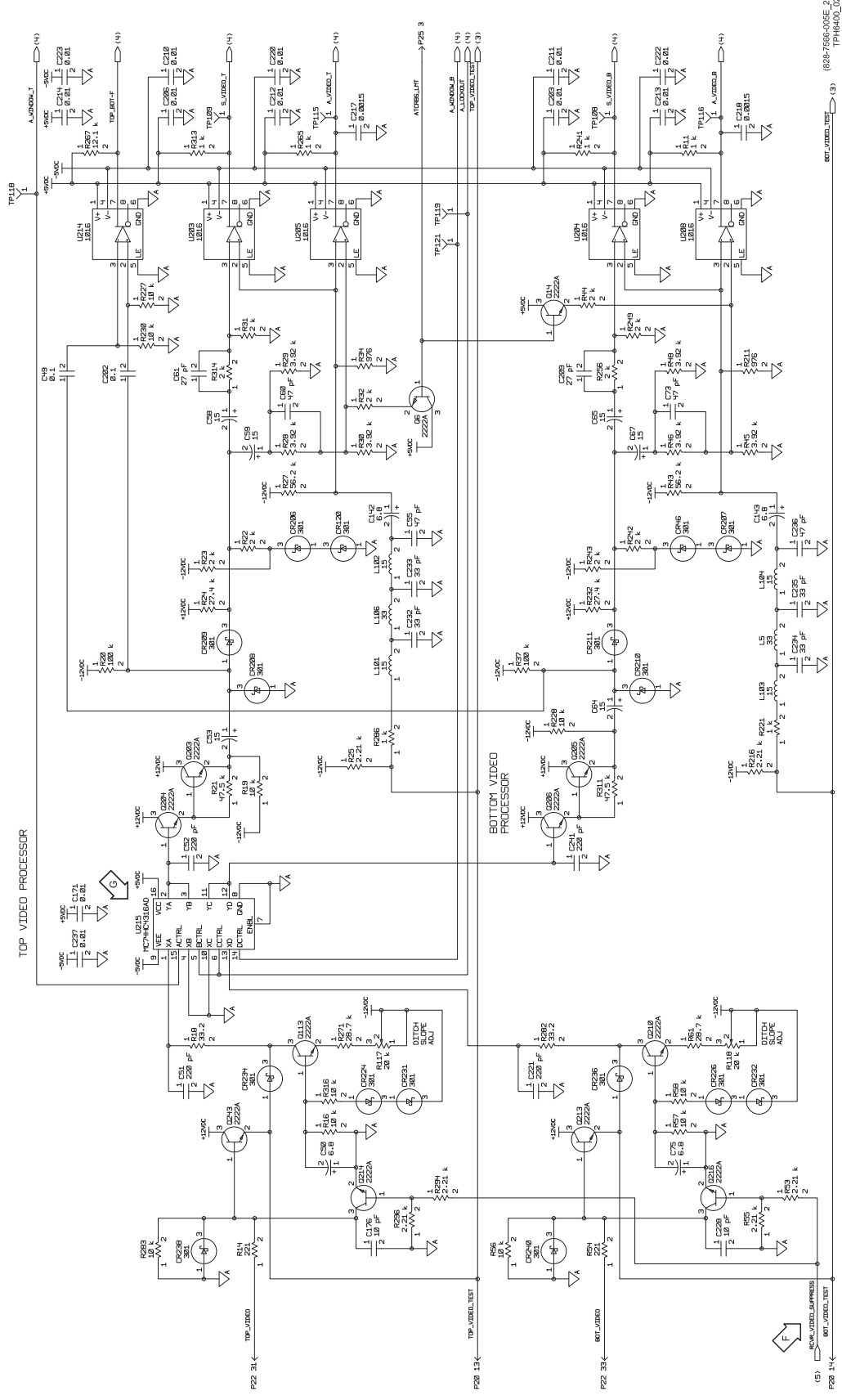


687-0726-005 (1)  
 TDR-9400\_01

Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 1 of 7) GRAPHIC 34-50-96-99B-061-A-01



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 COMPONENT MAINTENANCE MANUAL with IPL  
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Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 2 of 7)/GRAPHIC 34-50-96-99B-061-A01

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 May 18/06

(628-7566-005E 2)  
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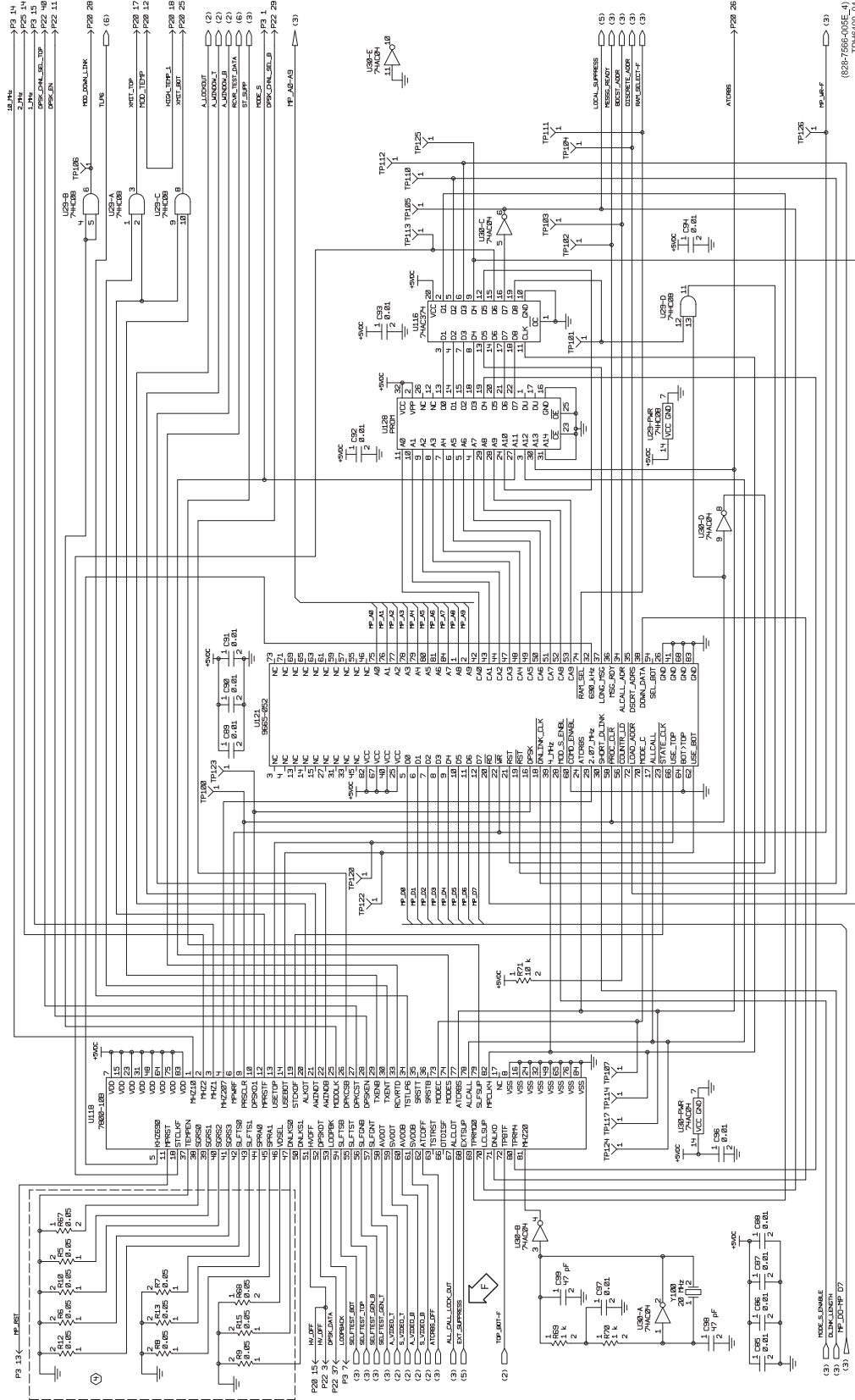








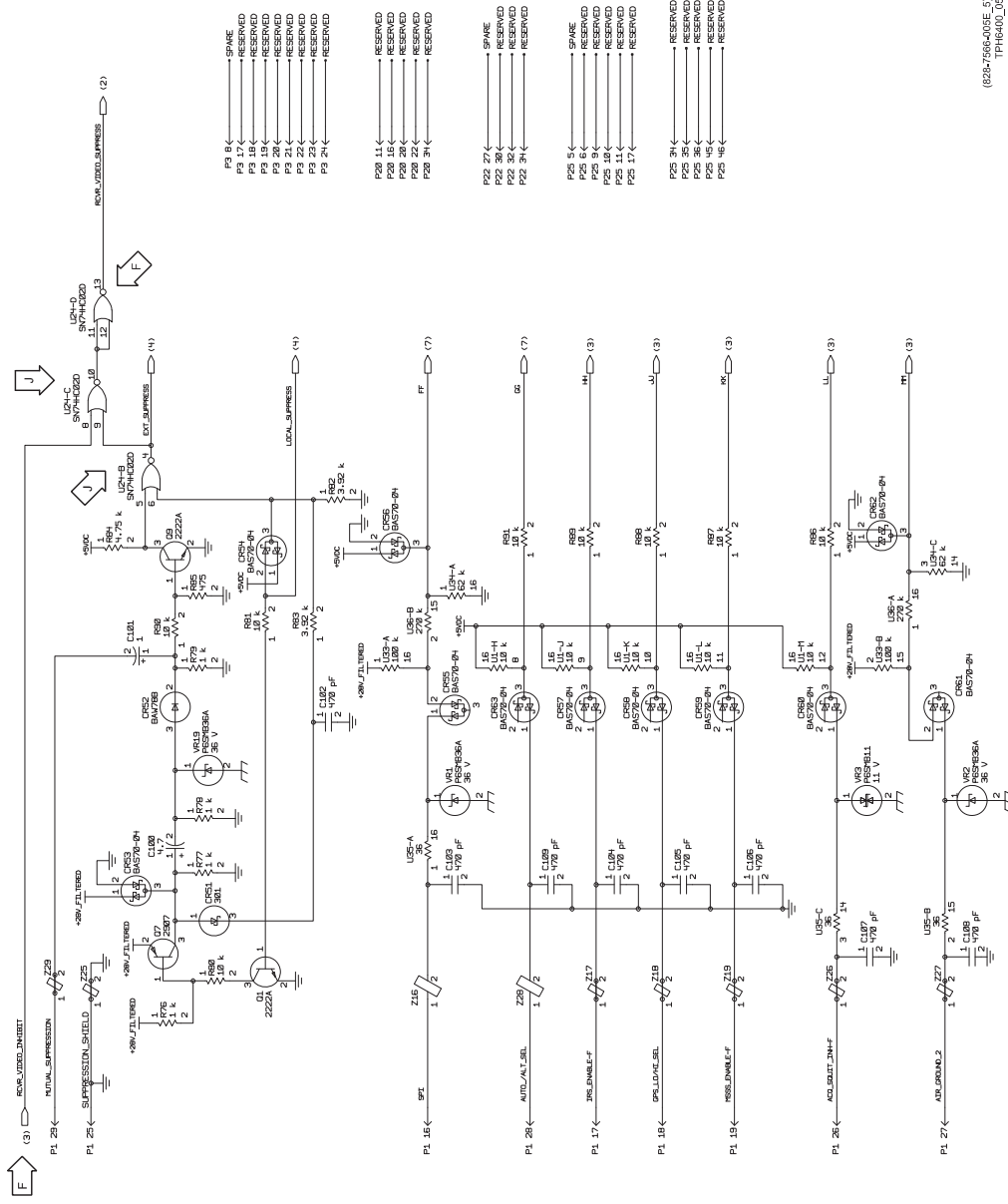
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 4 of 7) GRAPHIC 34-50-96-99B-061-A01



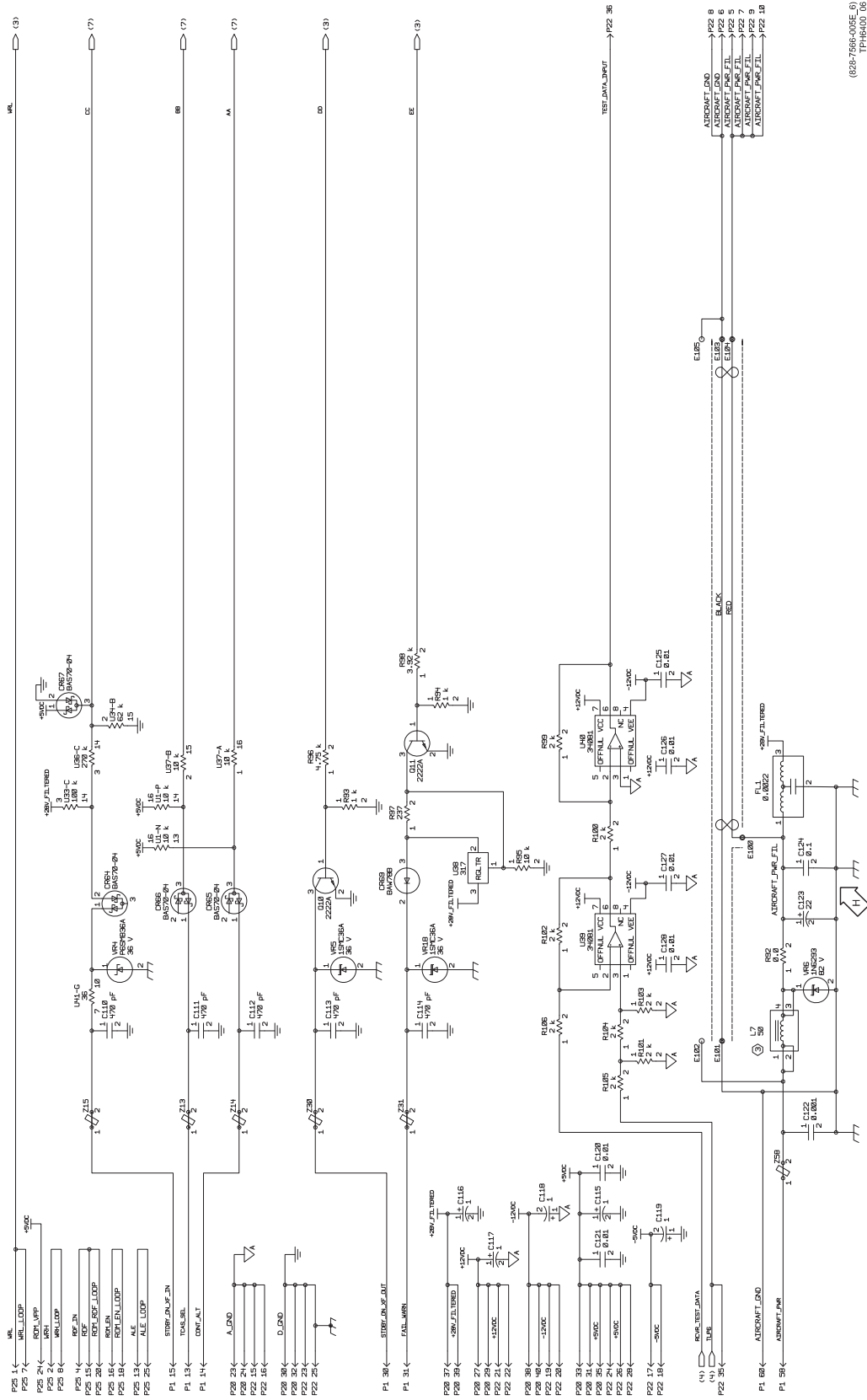
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 5 of 7) GRAPHIC 34-50-96-99B-061-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
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Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 6 of 7)/GRAPHIC 34-50-96-99B-061-A01

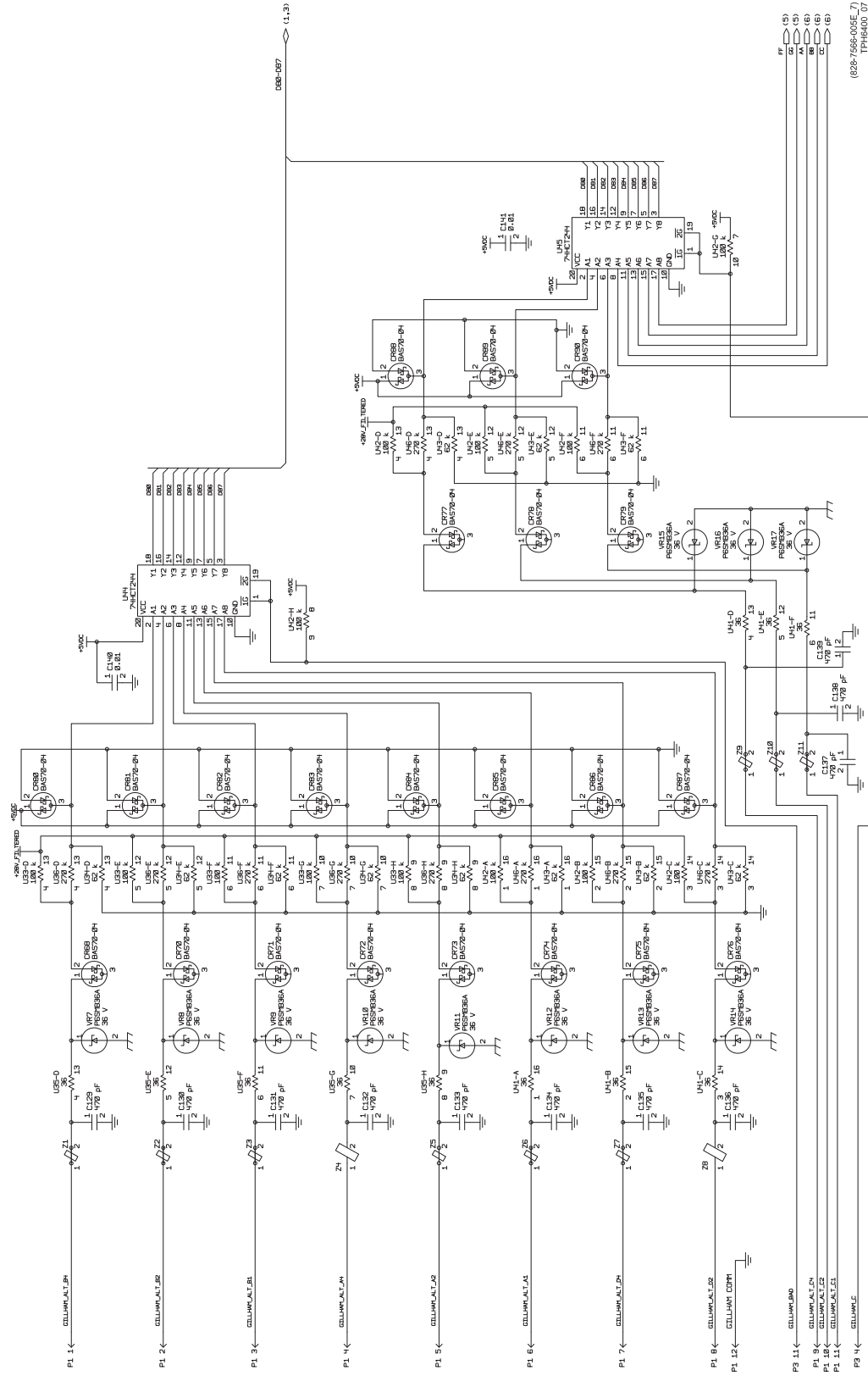
**34-50-96**

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(826-7556-005E 6)  
 TPH6400\_D6



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-005), Schematic Diagram  
 Figure 2026 (Sheet 7 of 7)GRAPHIC 34-50-96-99B-061-A01

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**COMPONENT MAINTENANCE MANUAL with IPL**  
TDR-94, PART NO 622-9352

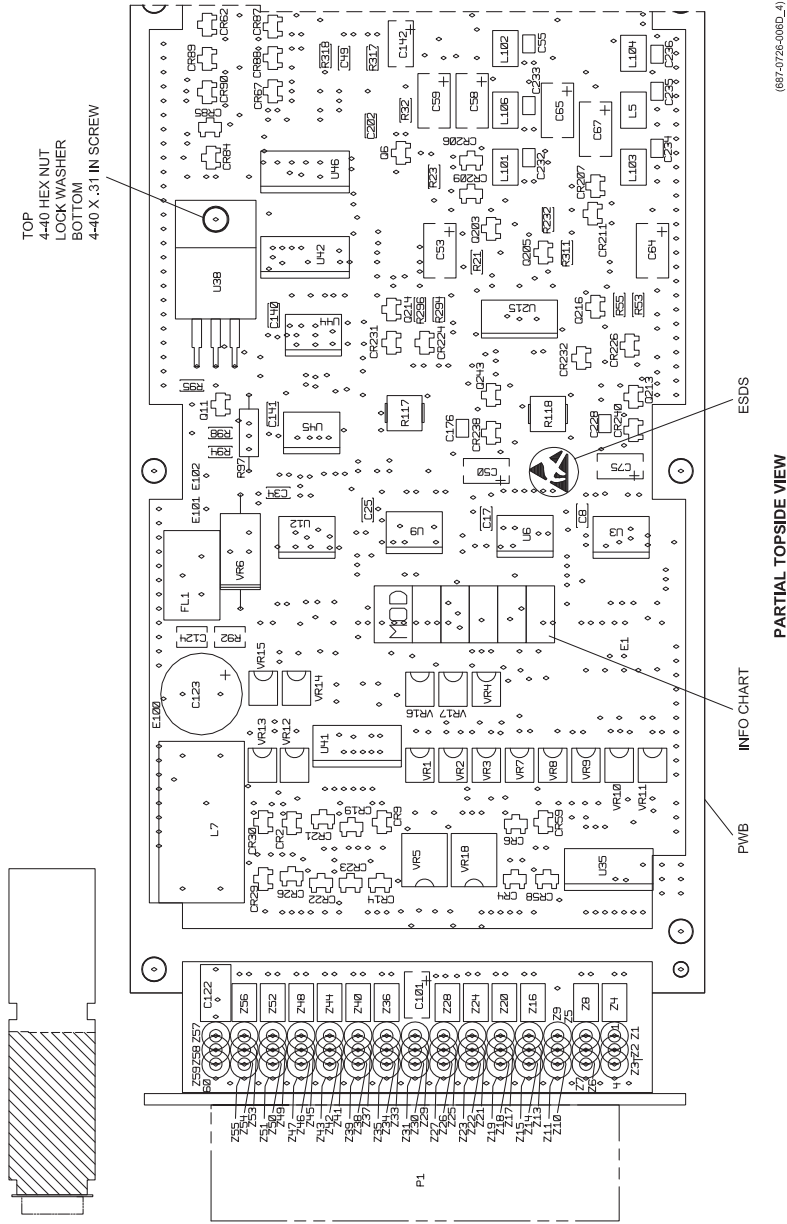
**MAINTENANCE AID/SCHEMATIC CHANGES**

REVISION IDENT (SHEET)	DESCRIPTION OF REVISION AND CAUSE FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY MARKING
A (1,6,8)	R95 changed from 1 kΩ to 10 kΩ. Note 5 is added to indicate that connector P26 is shown for reference only. This connector is not installed on the finished assembly.		REV A to CPN 687-0726-006
B (1,3,5,8)	U104, 7130, changes from CPN 835-5891-010 to CPN 835-8515-030. Also added notes 6 and 7.		REV B to CPN 687-0726-006
N/A	Internal documentation change only.		REV C to CPN 687-0726-006
D (2)	Changed R227 and R230 from 10 kΩ to 8.25 kΩ. Also added 1.82 kΩ resistors R317 and R318.		REV D to CPN 687-0726-006
N/A	Changed Video Circuit Card A6 to CPN 687-0726-007. CPN 687-0726-006 may be used as alternate.		REV D to CPN 983-8019-001

Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card Assembly A6 (CPN 983-8019-001), Maintenance Aid and Schematic Changes  
Table 2015/Table 34-50-96-99A-026-A01



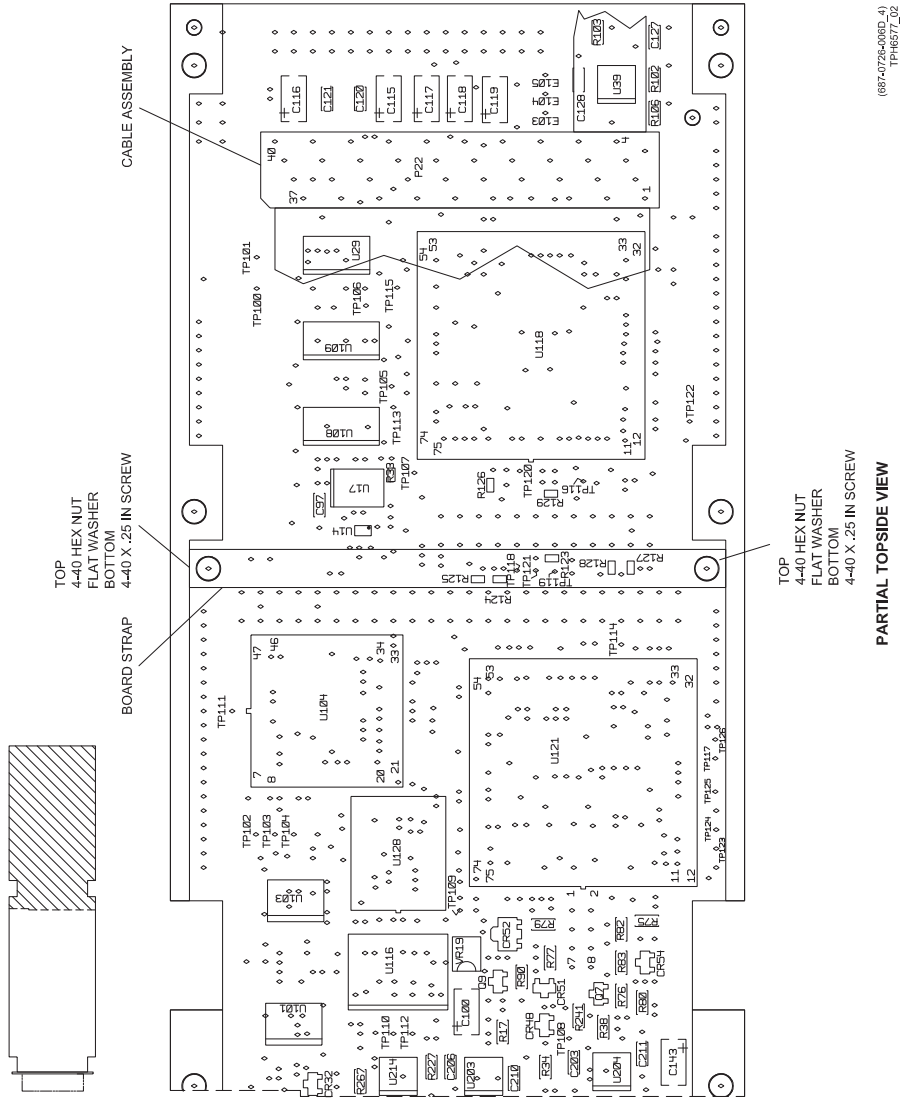
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Maintenance Aid Diagram  
 Figure 2027 (Sheet 1 of 4)/GRAPHIC 34-50-96-99B-062-A01



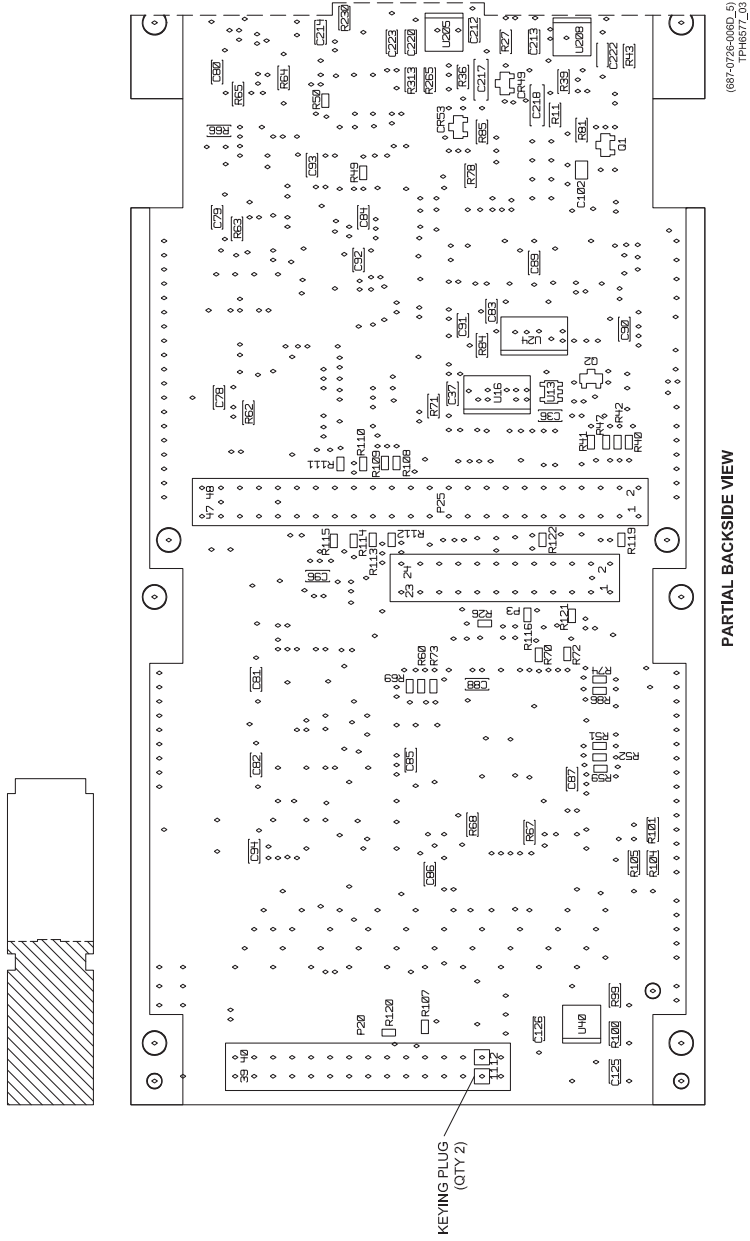
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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Maintenance Aid Diagram  
 Figure 2027 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-062-A01



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COMPONENT MAINTENANCE MANUAL with IPL  
TDR-94, PART NO 622-9352

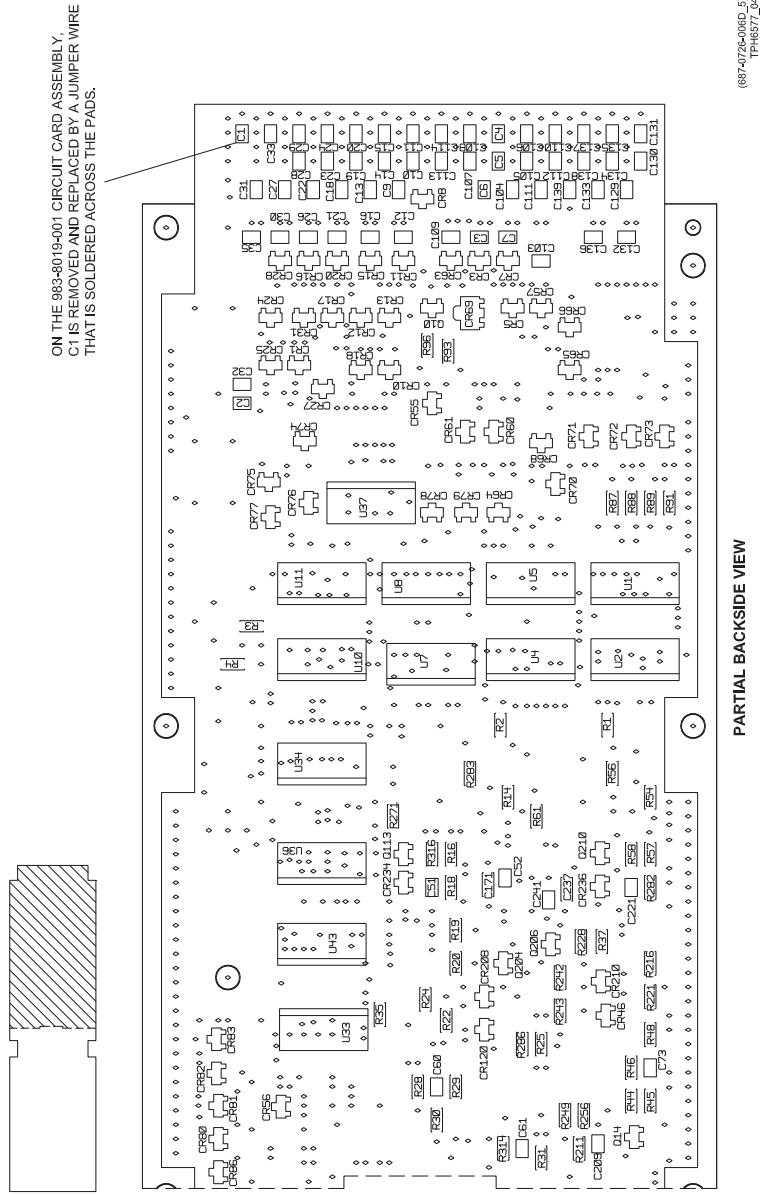


Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
Assembly A6 (CPN 983-8019-001), Maintenance Aid Diagram  
Figure 2027 (Sheet 3 of 4)/GRAPHIC 34-50-96-99B-062-A01





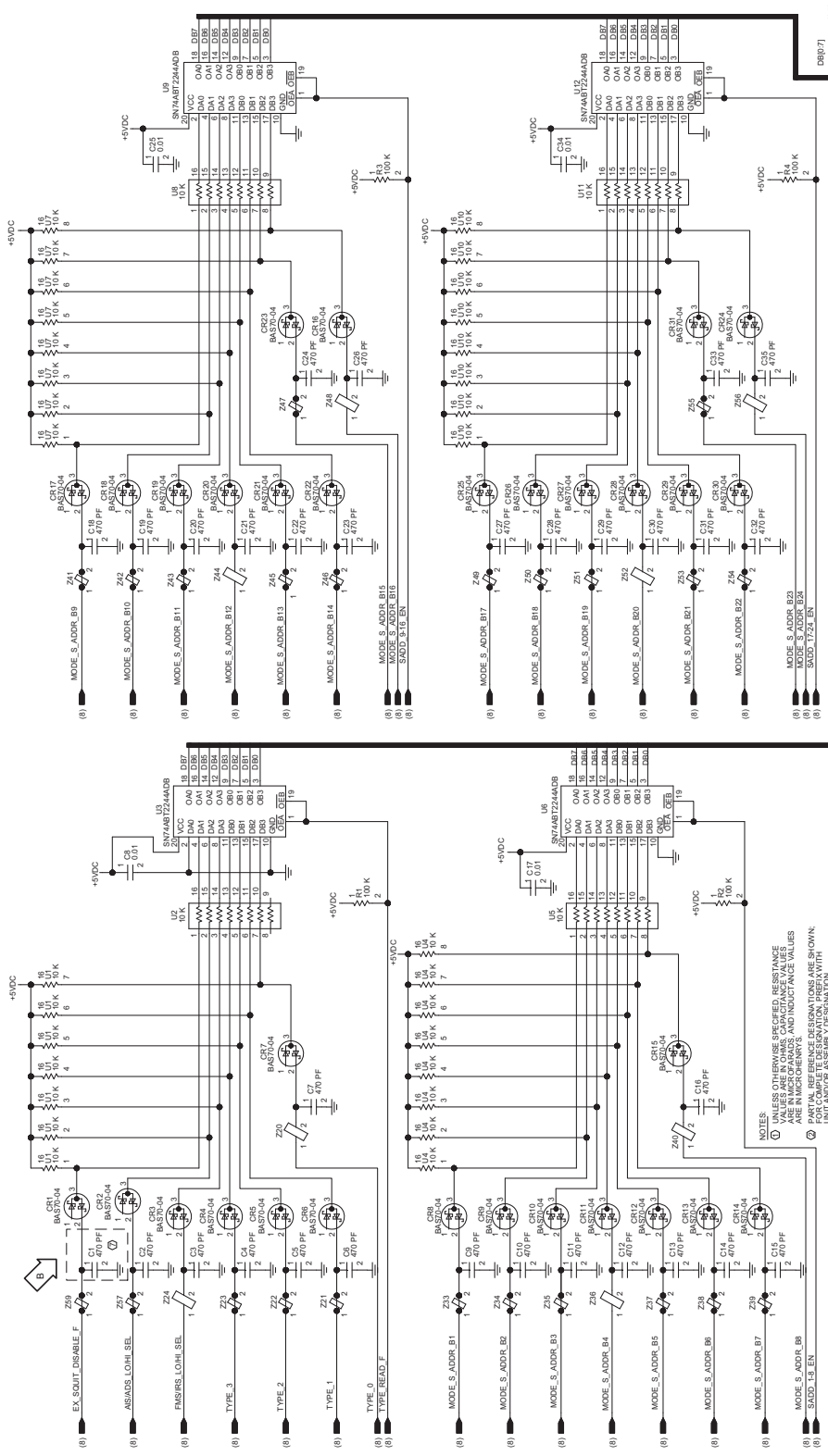
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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Maintenance Aid Diagram  
 Figure 2027 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-062-A01



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NOTES: UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN PICO FARADS, AND INDUCTANCE VALUES ARE IN MICROHENRYS.

① PARTS IDENTIFICATION NUMBERS ARE SHOWN; UNIT AND/OR ASSEMBLY DESIGNATION.

② A TWISTED PAIR WIRE MAY BE USED IN THE FUTURE.

③ CPN 687-0726-006 IS OBSOLETE.

④ R12, R13, R14, R15 ARE RESERVED FOR FUTURE.

⑤ R16 AND R18 ARE INSTALLED ON OTHER RS-R10.

⑥ RS-R10 IS FOR REFERENCE ONLY.

⑦ NOT INSTALLED ON THIS ASSEMBLY.

⑧ FOR TL, CPN 622-9310-008, 622-9310-009 AND CPN 622-9310-010 LABELS, CAPACITANCE VALUES SHOULD BE "100 P" FOR PORT A/B AND "100 K" FOR PORT C/D.

⑨ FOR TL, CPN 622-9310-008, 622-9310-009 AND CPN 622-9310-010 LABELS, CAPACITANCE VALUES SHOULD BE "100 P" FOR PORT A/B AND "100 K" FOR PORT C/D.

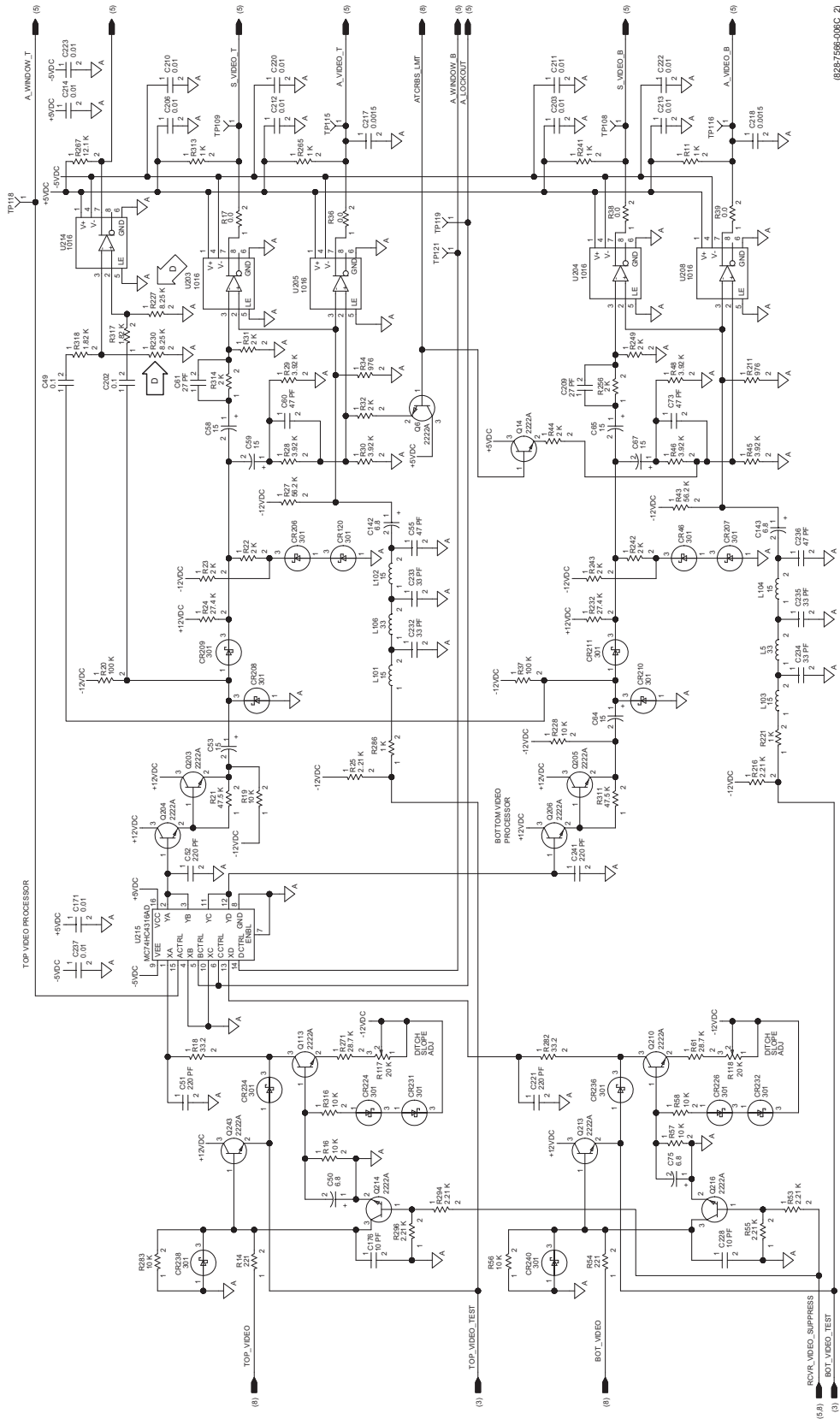
⑩ C1 IS SHORTED TO GROUND ON 883-8019-001.

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**COMPONENT MAINTENANCE MANUAL with IPL**  
**TDR-94, PART NO 622-9352**

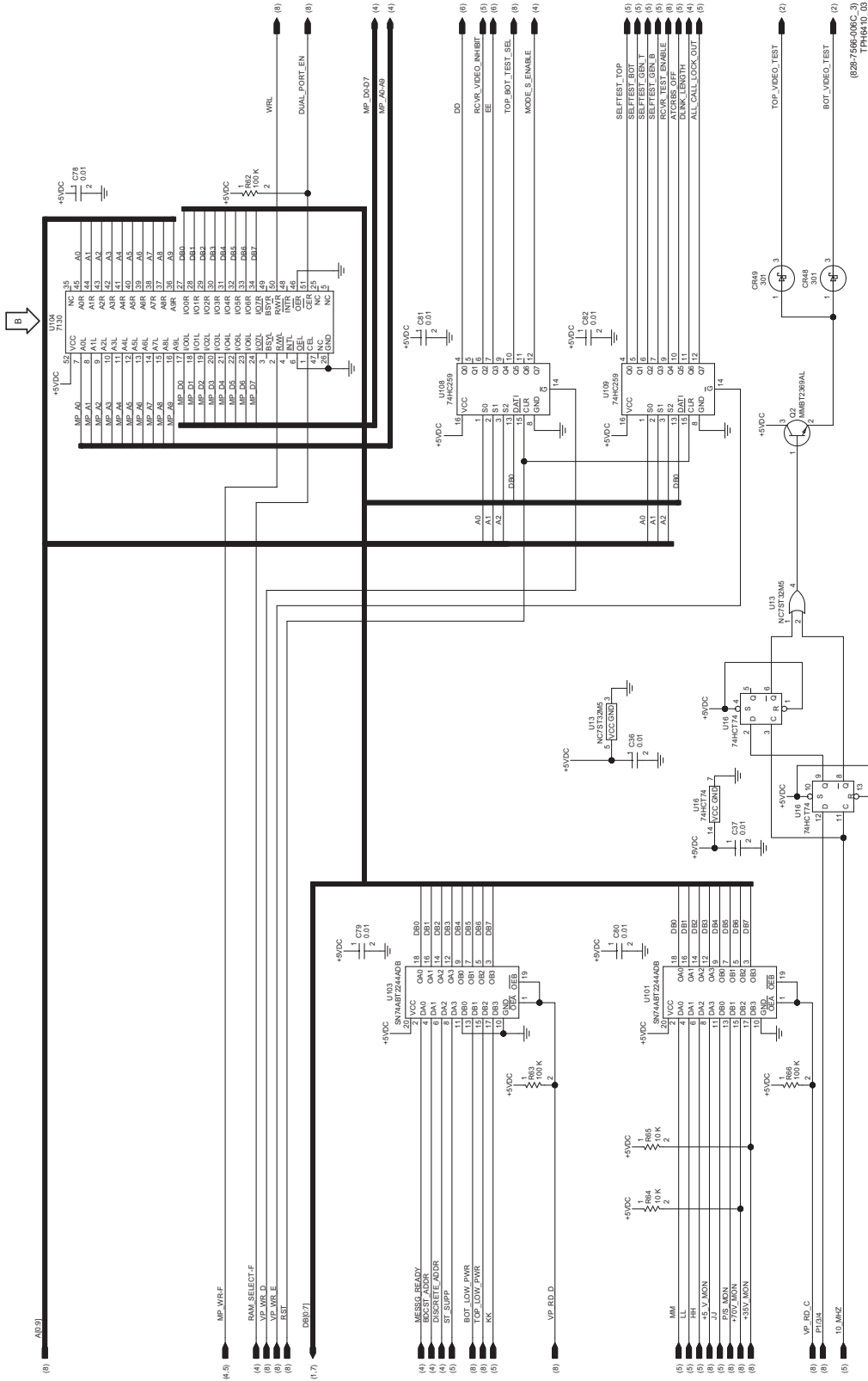


(6287598-006C-2)  
 TPH0410\_02

Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 2 of 8) GRAPHIC 34-50-96-99B-063-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

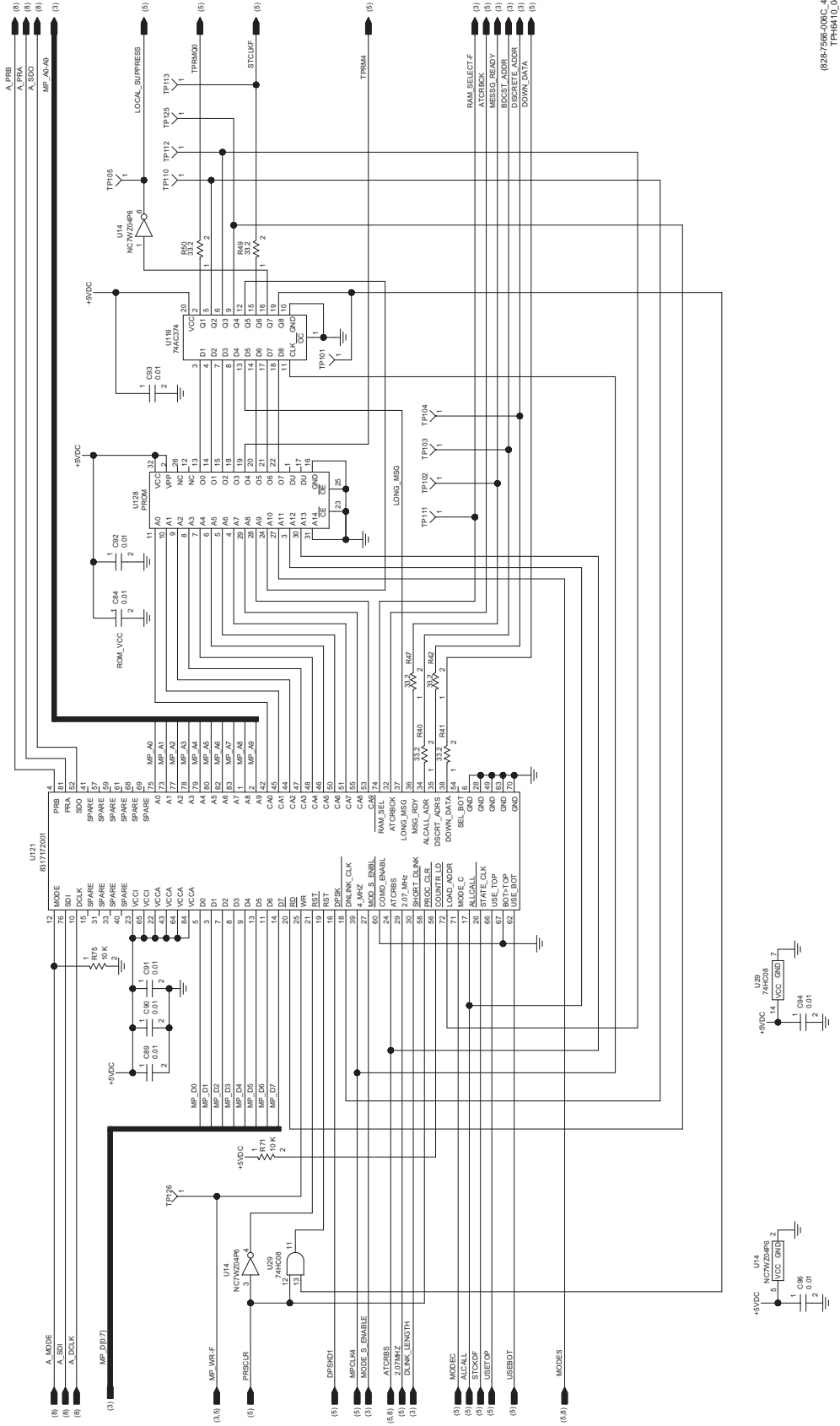


Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 3 of 8)/GRAPHIC 34-50-96-99B-063-A01





ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



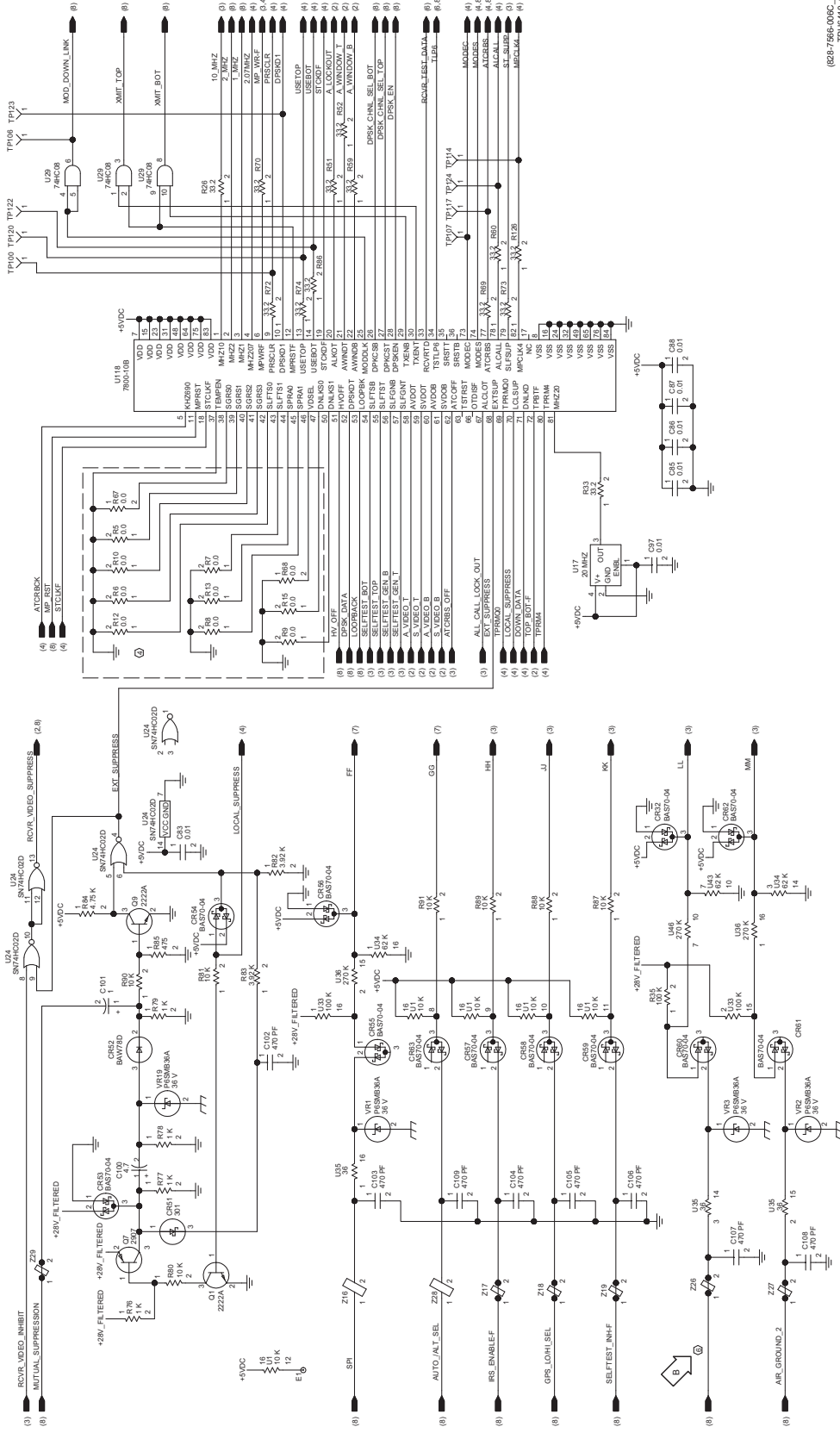
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Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 4 of 8)/GRAPHIC 34-50-96-99B-063-A01

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ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

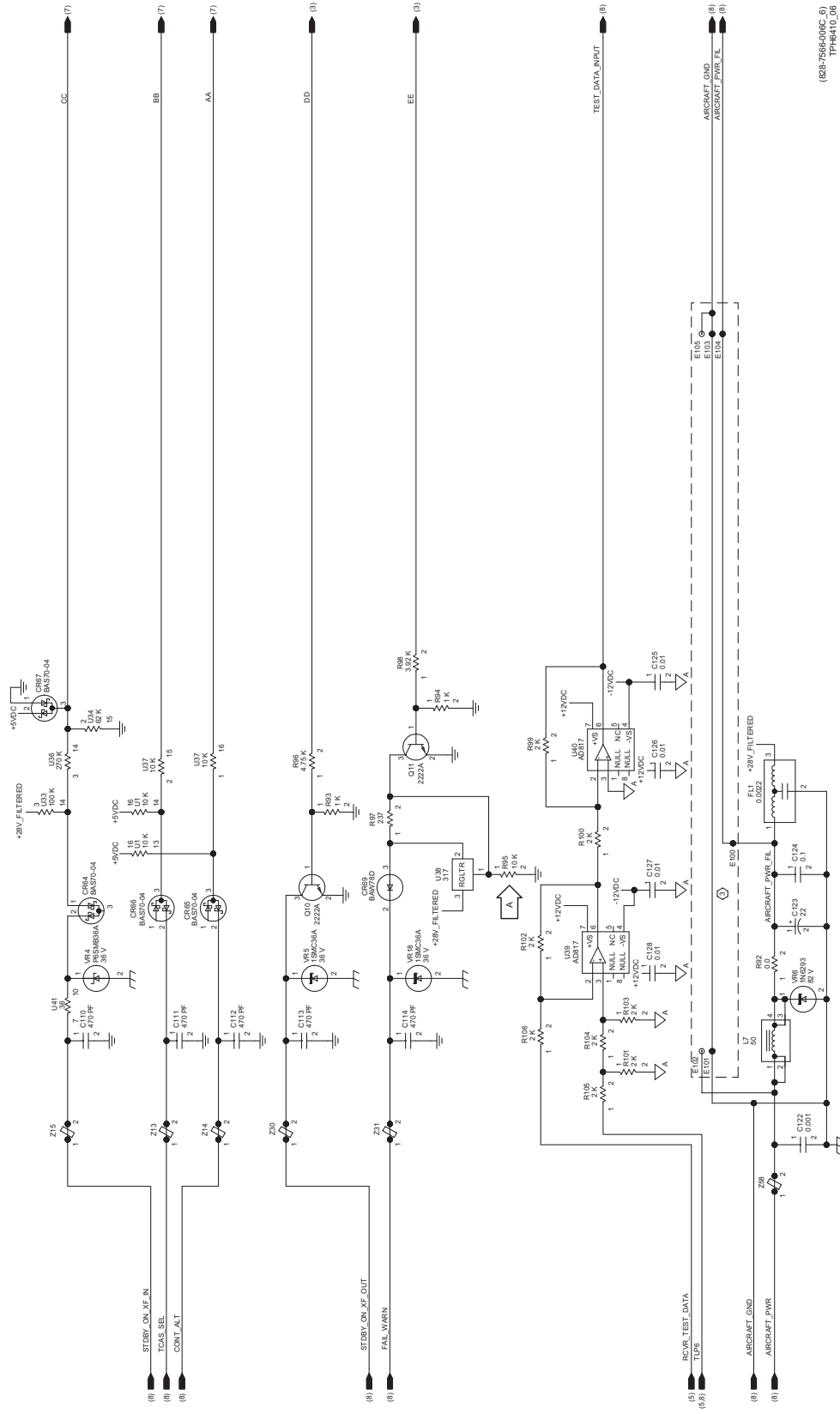


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Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 5 of 8)/GRAPHIC 34-50-96-99B-063-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

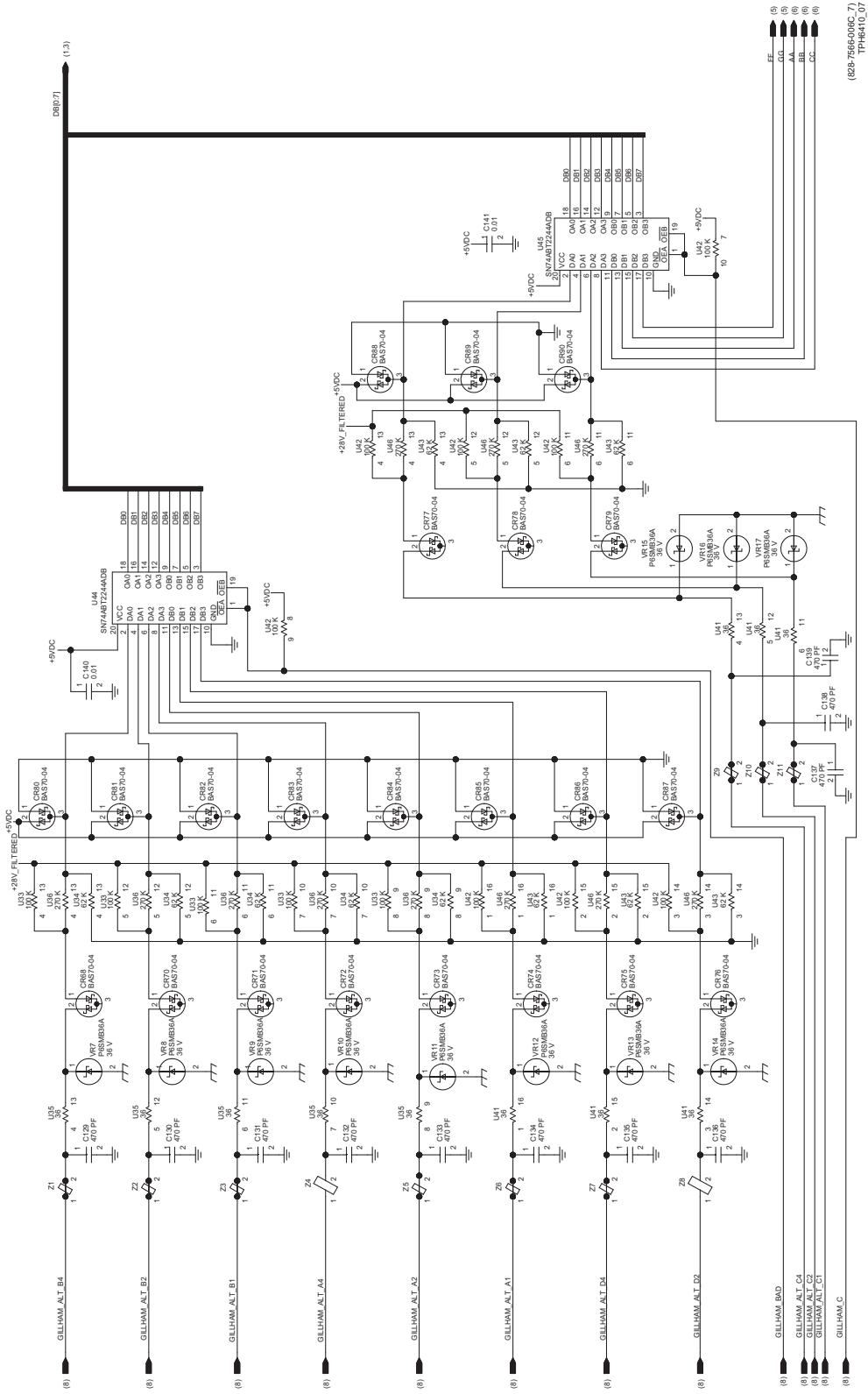


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Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 6 of 8)/GRAPHIC 34-50-96-99B-063-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

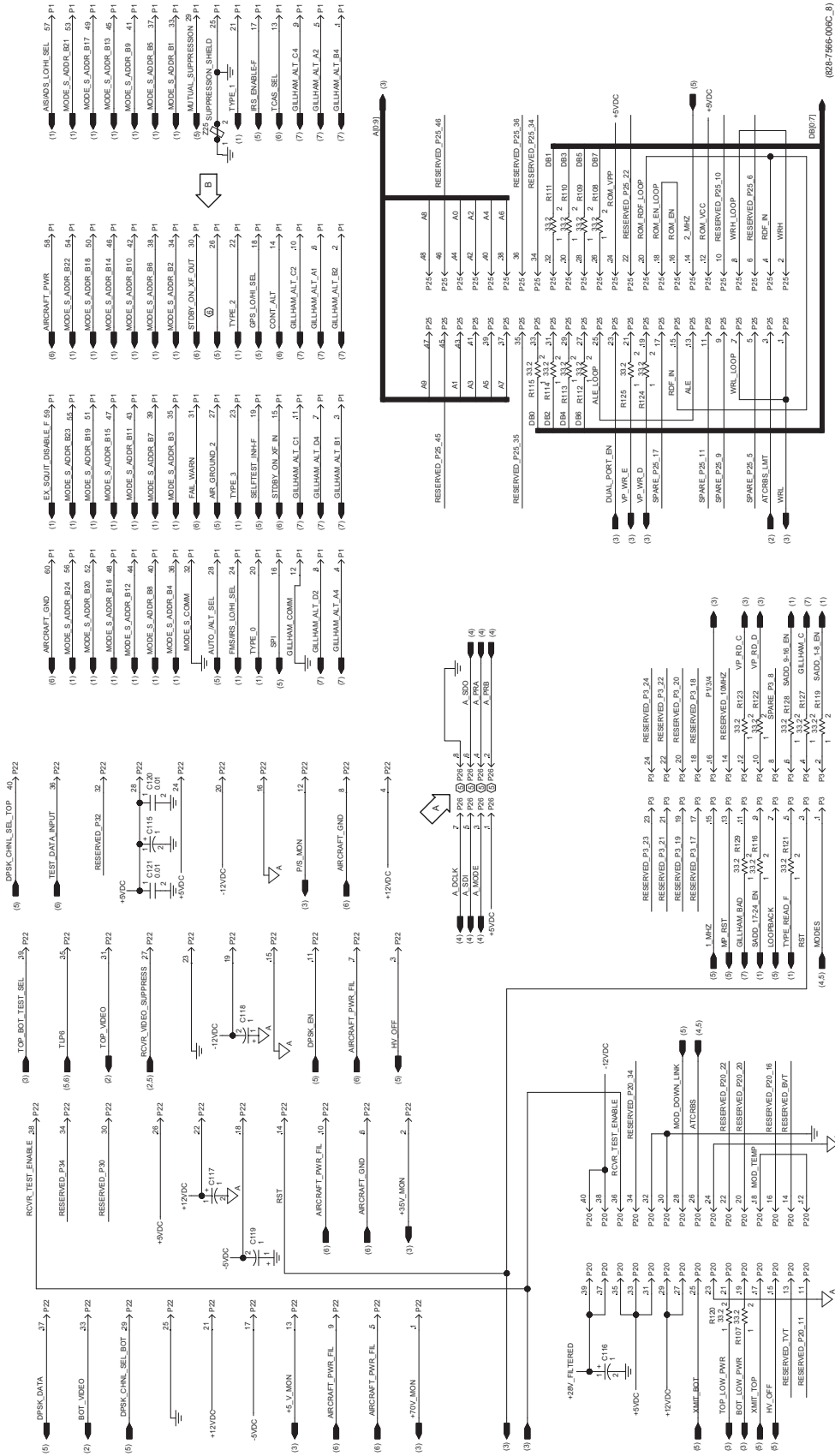


Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 7 of 8)/GRAPHIC 34-50-96-99B-063-A01





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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



(8287-7566-006C-5)  
 TPH6410\_08

Video Processor Circuit Card A6 (CPN 687-0726-006) and Video Processor Circuit Card  
 Assembly A6 (CPN 983-8019-001), Schematic Diagram  
 Figure 2028 (Sheet 8 of 8)/GRAPHIC 34-50-96-99B-063-A01



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**COMPONENT MAINTENANCE MANUAL with IPL**  
TDR-94, PART NO 622-9352

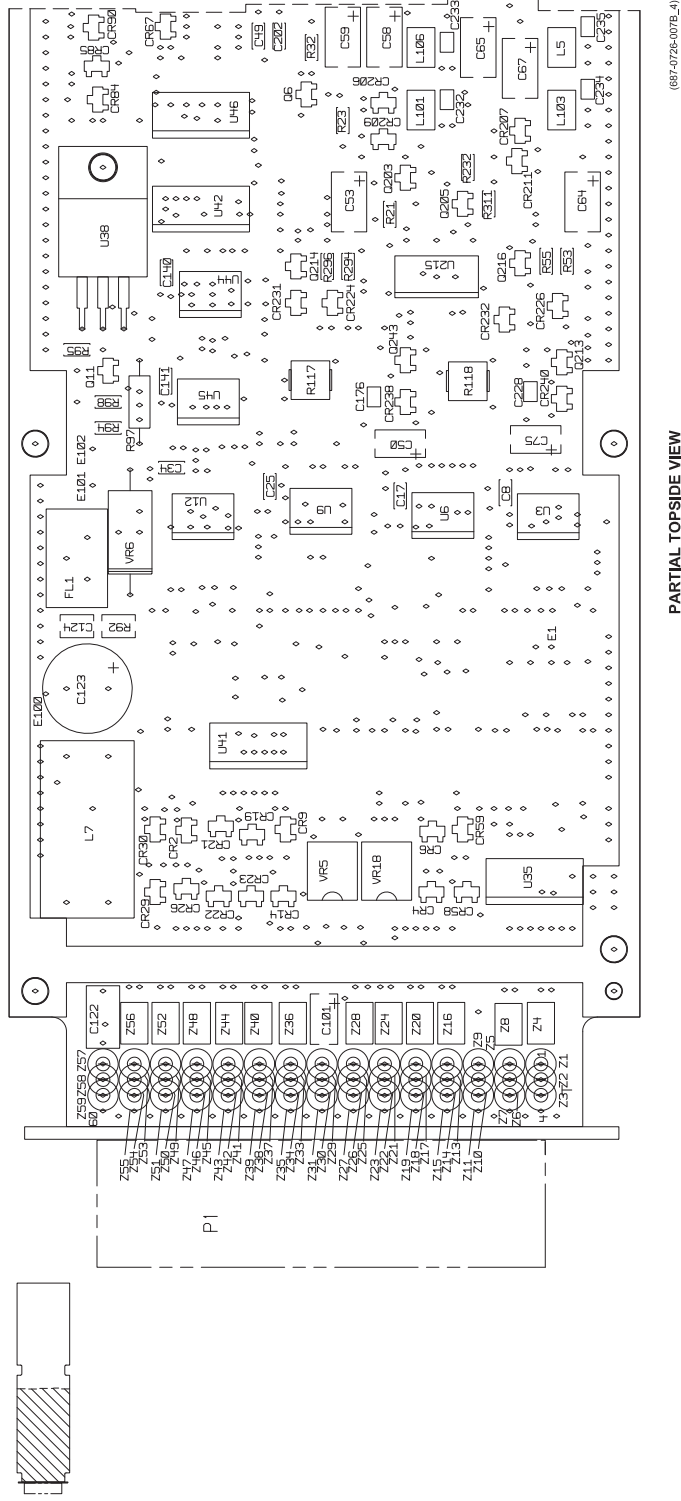
**MAINTENANCE AID/SCHEMATIC CHANGES**

REVISION IDENT (SHEET)	DESCRIPTION OF REVISION AND CAUSE FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY MARKING
	<p style="text-align: center;">(This sheet will contain maintenance aid and schematic revision data.)</p>		

Video Processor Circuit Card A6 (CPN 687-0726-007), Maintenance Aid and Schematic Changes  
Table 2015.1/Table 34-50-96-99A-045-A01



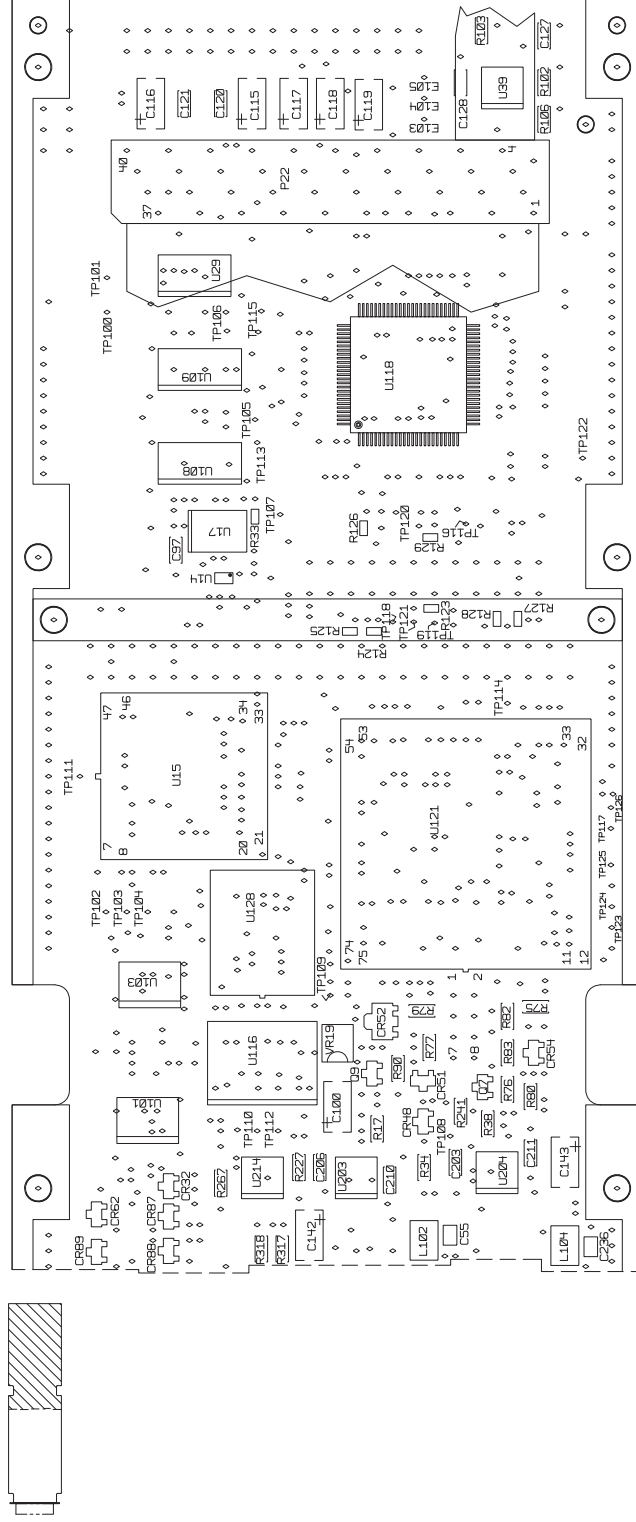
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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-007), Maintenance Aid Diagram  
 Figure 2028.1 (Sheet 1 of 4) GRAPHIC 34-50-96-99B-100-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



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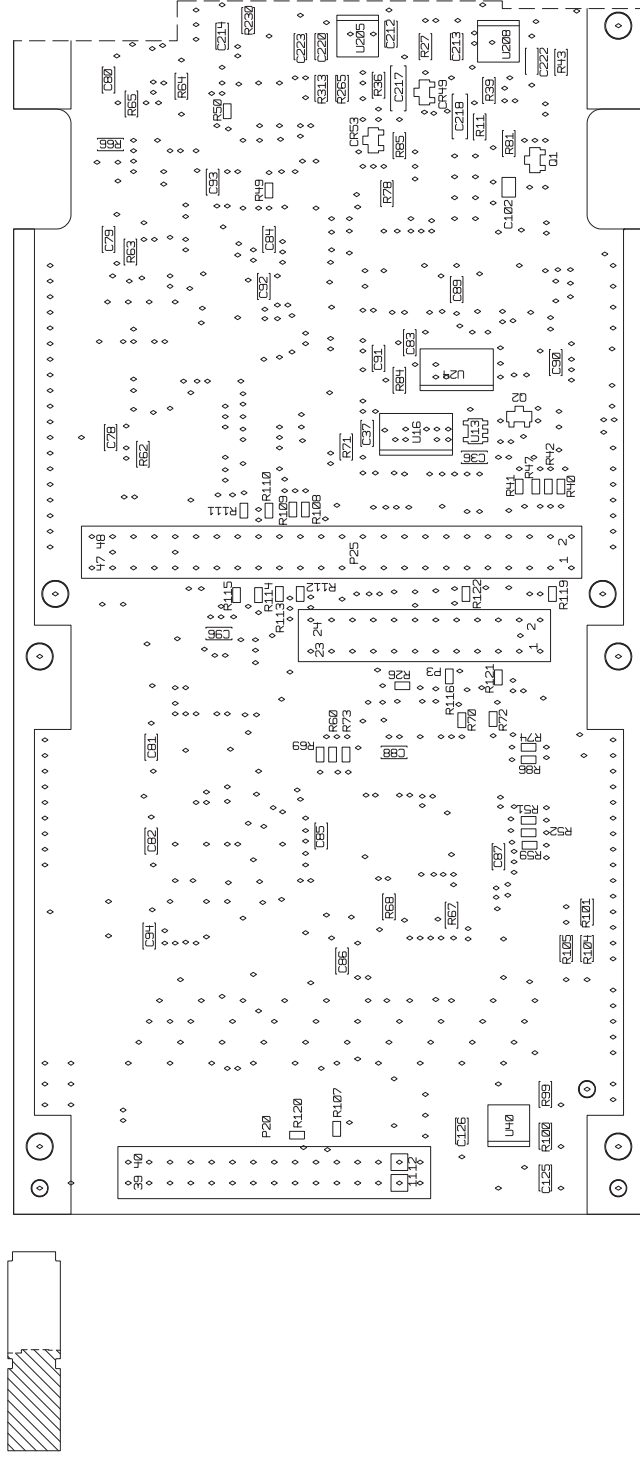
PARTIAL TOPSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-007), Maintenance Aid Diagram  
 Figure 2028.1 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-100-A01





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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

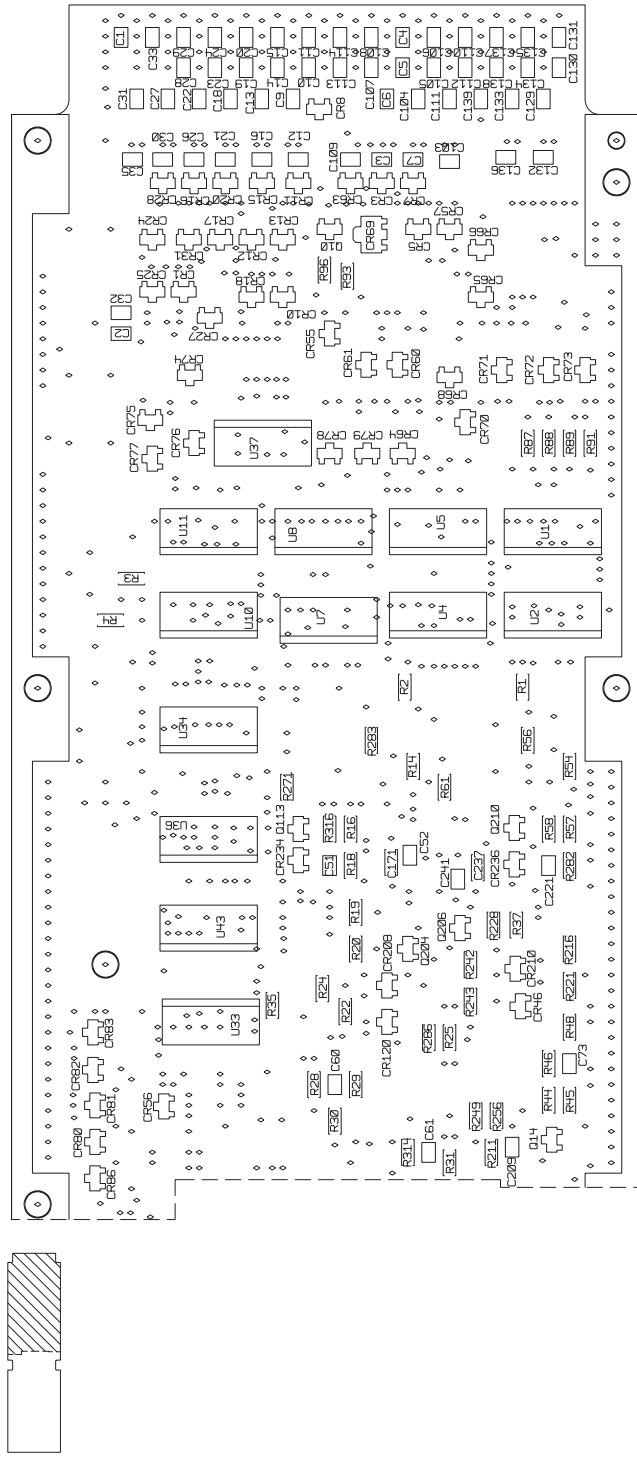


PARTIAL BACKSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-007), Maintenance Aid Diagram  
 Figure 2028.1 (Sheet 3 of 4)/GRAPHIC 34-50-96-99B-100-A01



ROCKWELL COLLINS  
COMPONENT MAINTENANCE MANUAL with IPL  
TDR-94, PART NO 622-9352



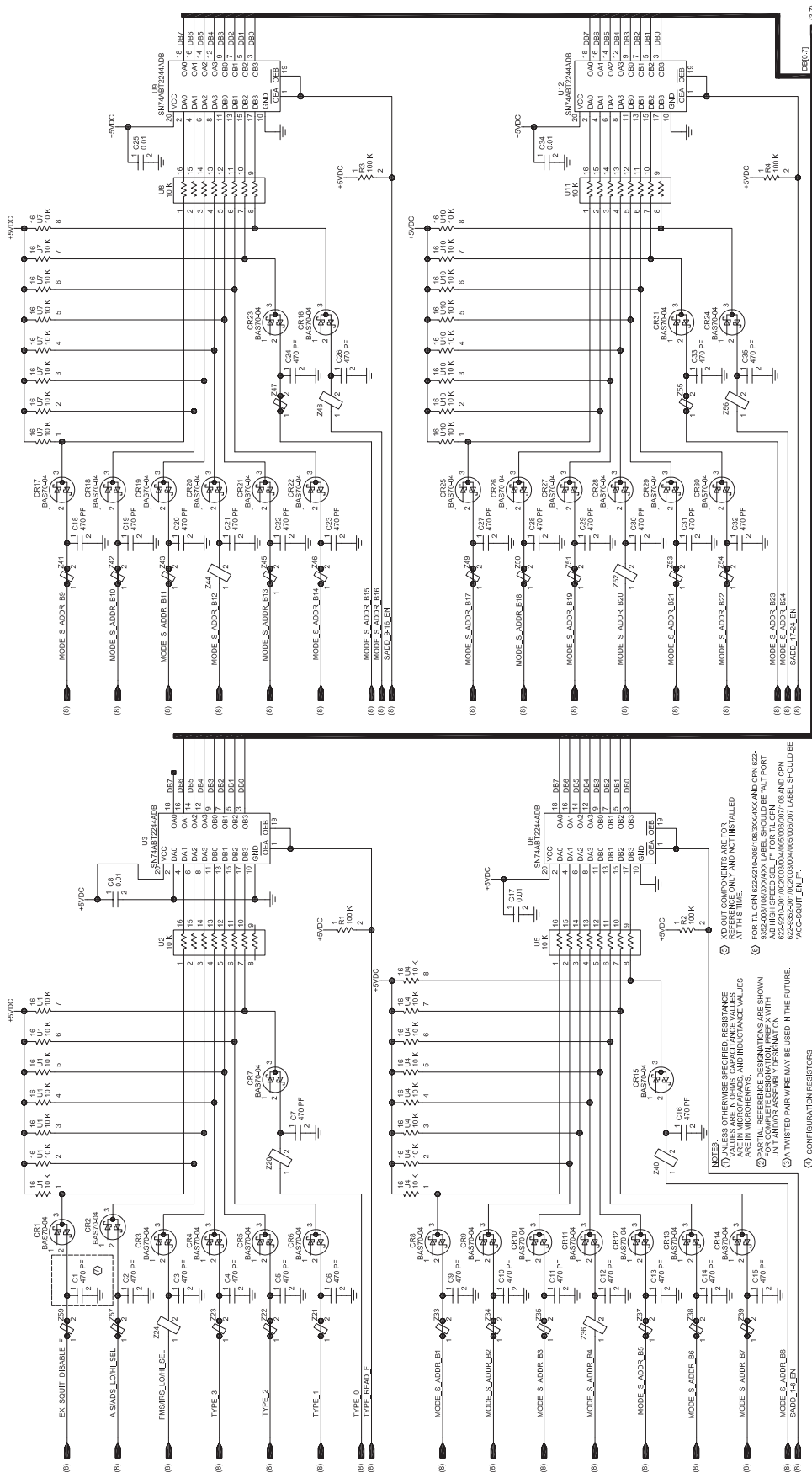
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PARTIAL BACKSIDE VIEW

Video Processor Circuit Card A6 (CPN 687-0726-007), Maintenance Aid Diagram  
Figure 2028.1 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-100-A01



**ROCKWELL COLLINS**  
**COMPONENT MAINTENANCE MANUAL with IPL**  
**TDR-94, PART NO 622-9352**



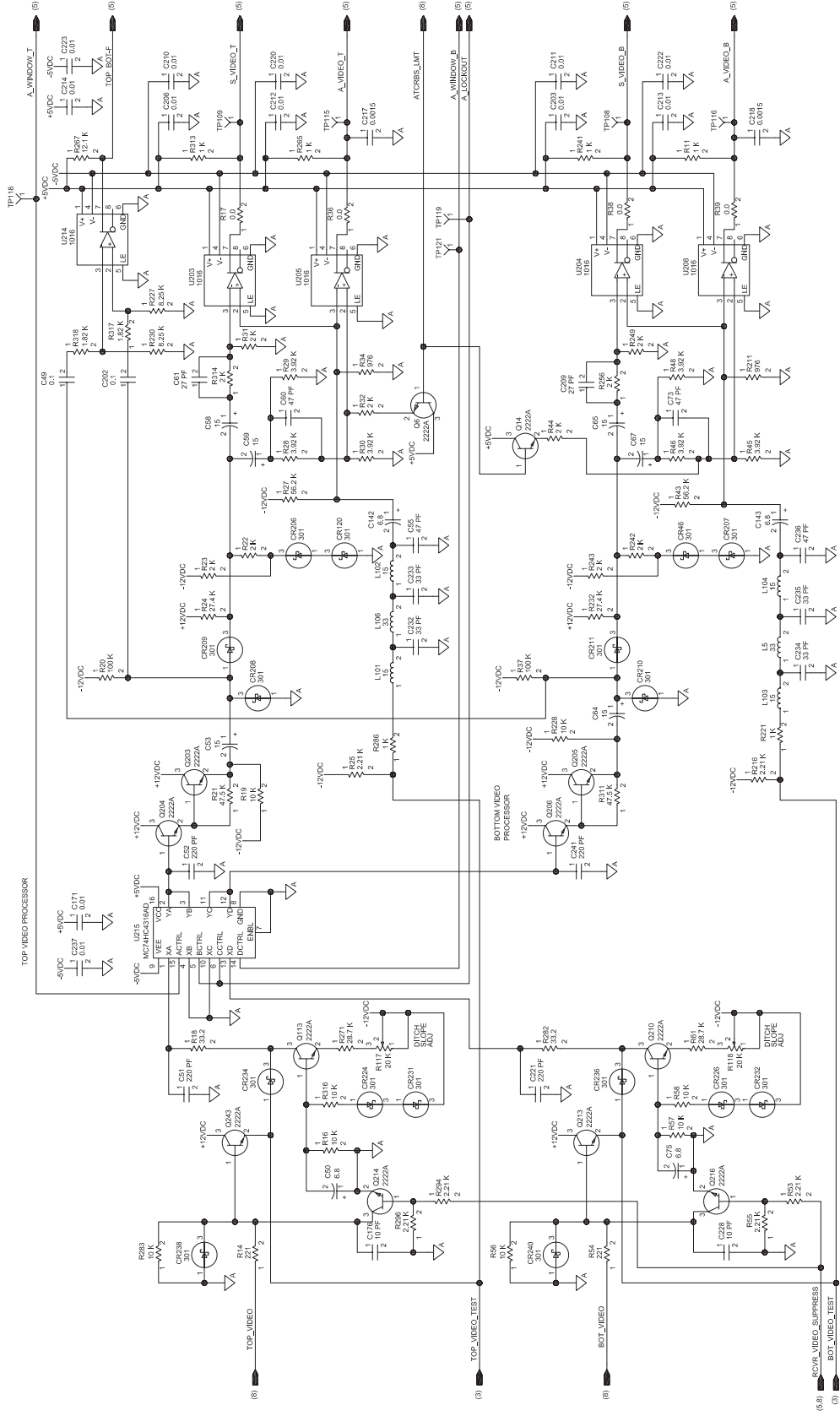
**NOTES:**  
 ① UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, AND INDUCTANCE VALUES ARE IN MICROHENRYS.  
 ② FOR COMPLETE DESIGNATION, PREFA WITH UNIT AND/OR ASSEMBLY DESIGNATION.  
 ③ A TWISTED PAIR WIRE MAY BE USED IN THE FUTURE.  
 ④ CONFIGURATION RESISTORS REF AND RES ARE RETAILED.  
 ⑤ RESISTORS R10, R11 AND R12 ARE RESERVED FOR FUTURE CONFIGURATIONS.

Video Processor Circuit Card A6 (CPN 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 1 of 8) GRAPHIC 34-50-96-99B-101-A01

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COMPONENT MAINTENANCE MANUAL with IPL  
TDR-94, PART NO 622-9352



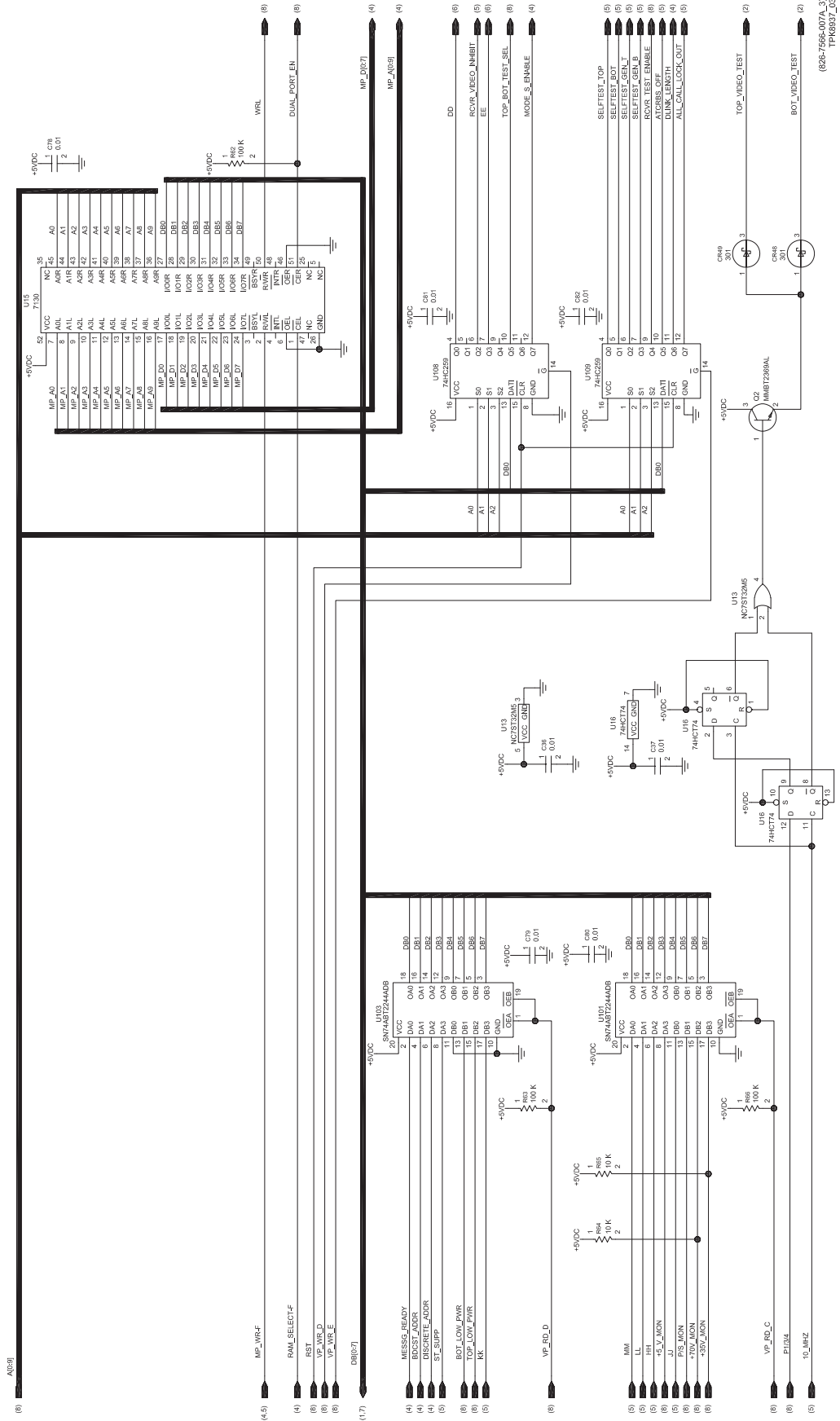
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TR8837\_02

Video Processor Circuit Card A6 (CNP 687-0726-007), Schematic Diagram  
Figure 2028.2 (Sheet 2 of 8) GRAPHIC 34-50-96-99B-101-A01





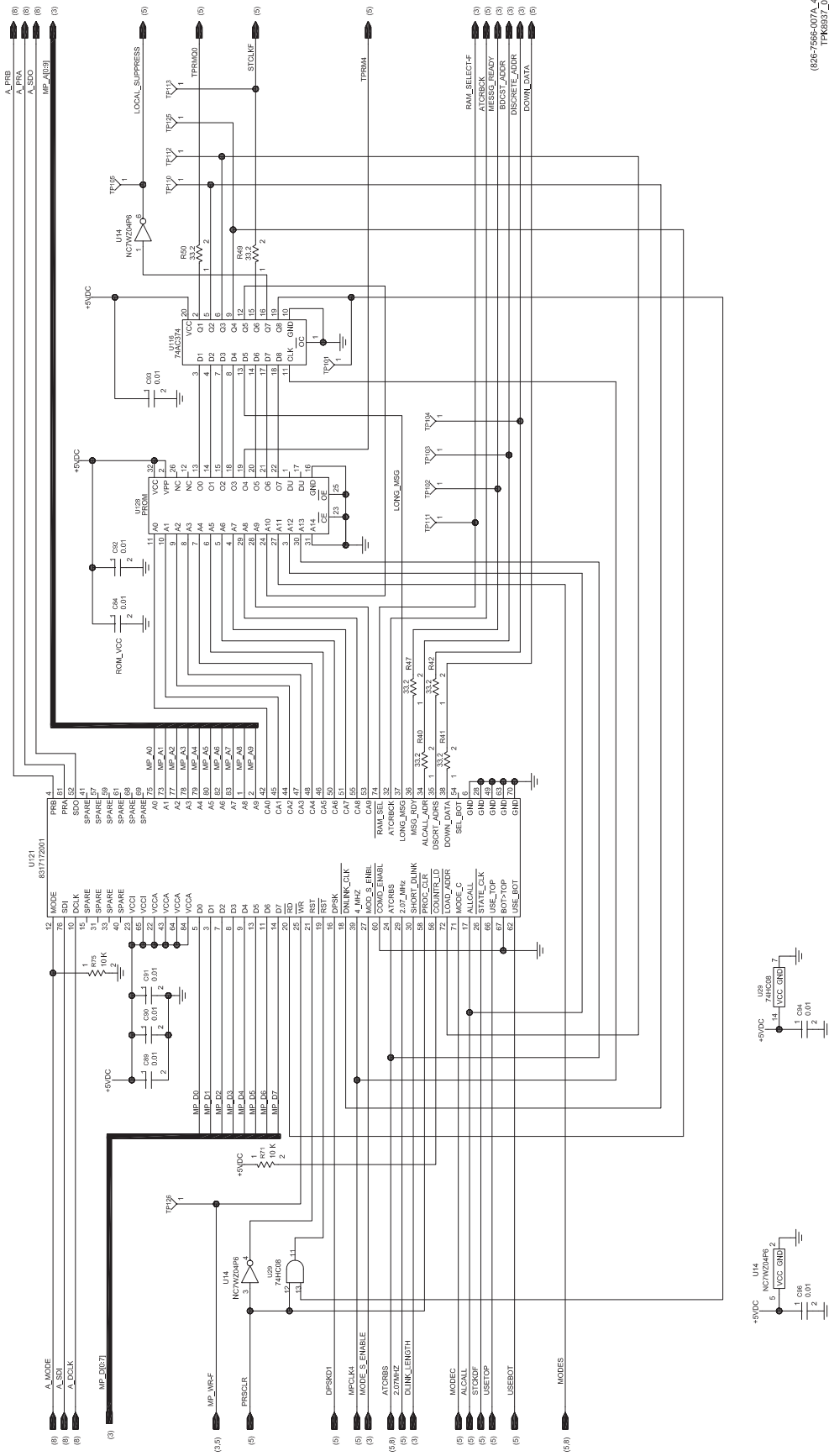
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 3 of 8) GRAPHIC 34-50-96-99B-101-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



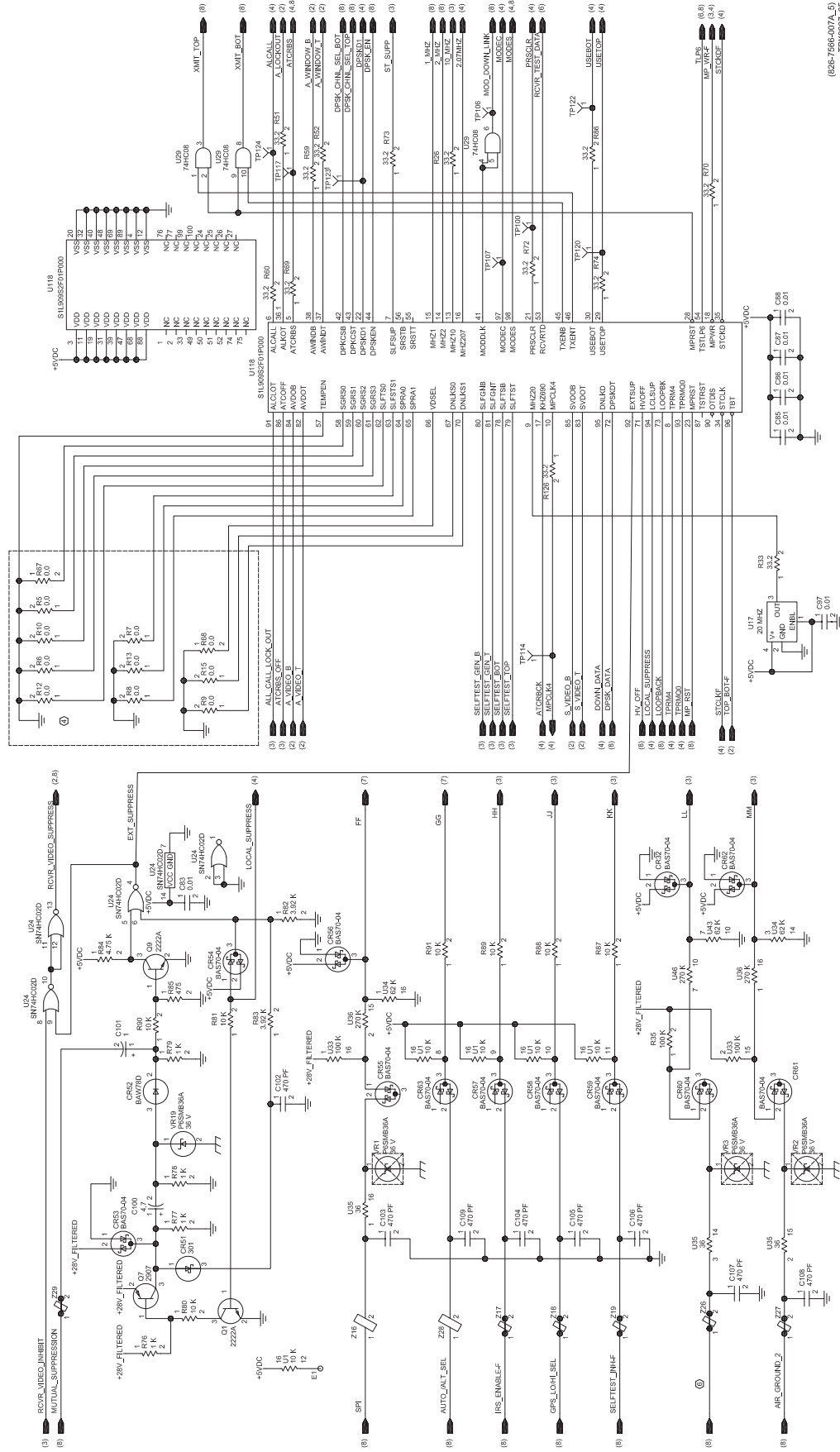
Video Processor Circuit Card A6 (CPN 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 4 of 8) GRAPHIC 34-50-96-99B-101-A01

**34-50-96**

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ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



(6267-556-007A, 5)  
 TPK68937\_05

Video Processor Circuit Card A6 (CPN 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 5 of 8) GRAPHIC 34-50-96-99B-101-A01

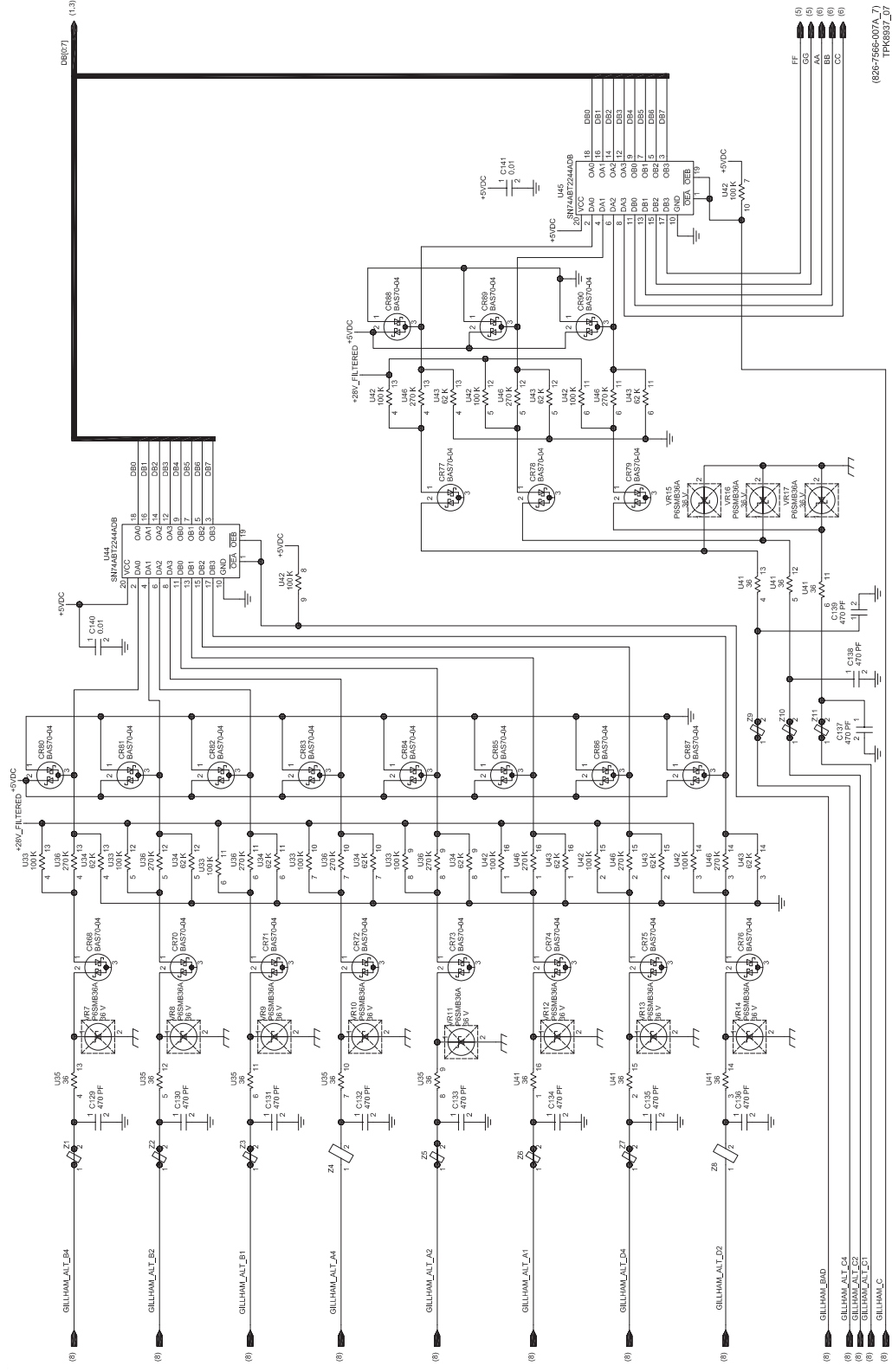








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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



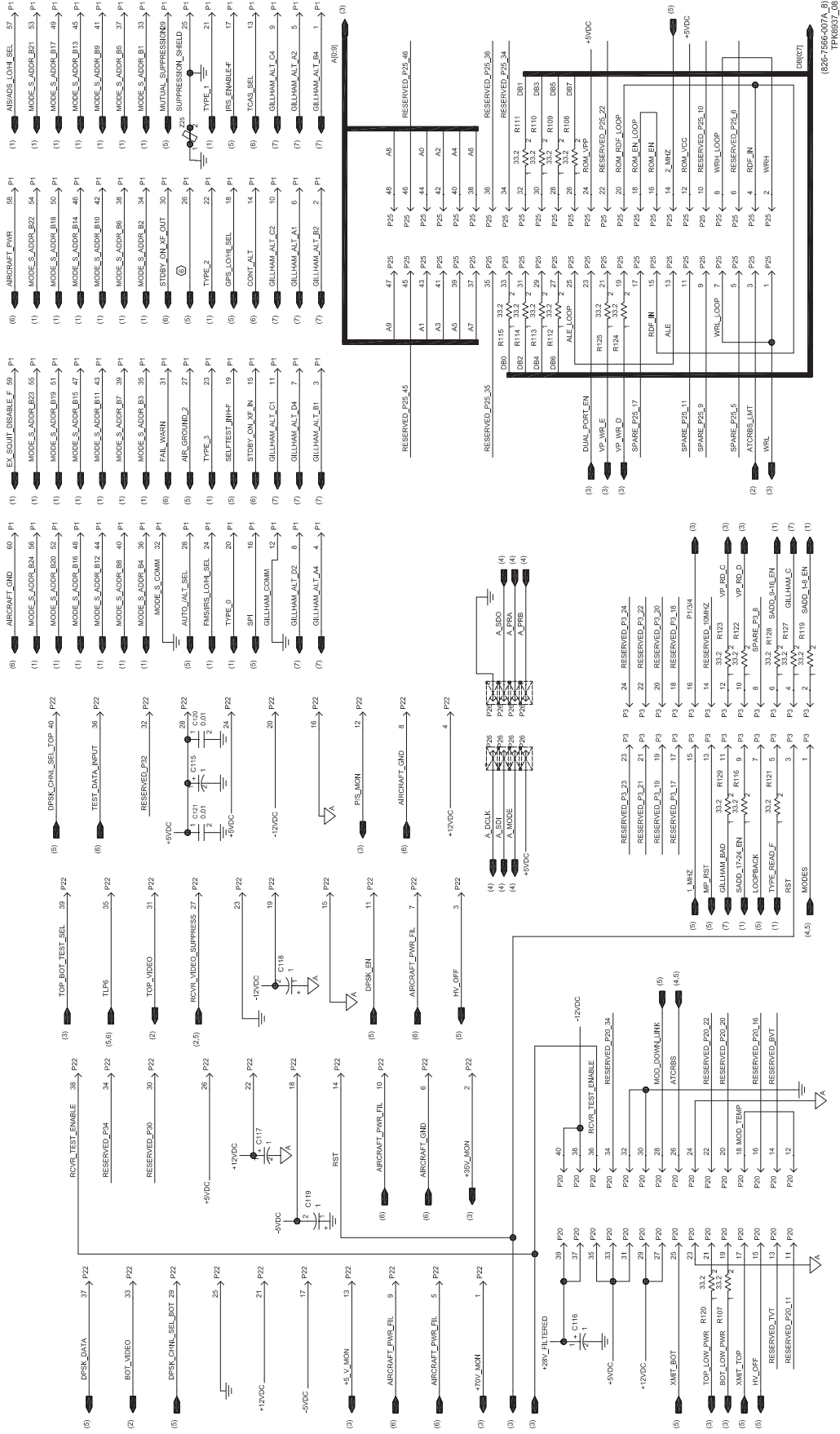
Video Processor Circuit Card A6 (CNP 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 7 of 8) GRAPHIC 34-50-96-99B-101-A01

**34-50-96**

(826-7566-007A, 7)  
 TRK6837\_07



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



Video Processor Circuit Card A6 (CPN 687-0726-007), Schematic Diagram  
 Figure 2028.2 (Sheet 8 of 8) GRAPHIC 34-50-96-99B-101-A01

Page 2220.25/  
 2220.26  
 May 2010

**34-50-96**

(8267566-007A 8)  
 TPK6837\_08



**ROCKWELL COLLINS**  
**COMPONENT MAINTENANCE MANUAL with IPL**  
TDR-94, PART NO 622-9352

**MAINTENANCE AID/SCHEMATIC CHANGES**

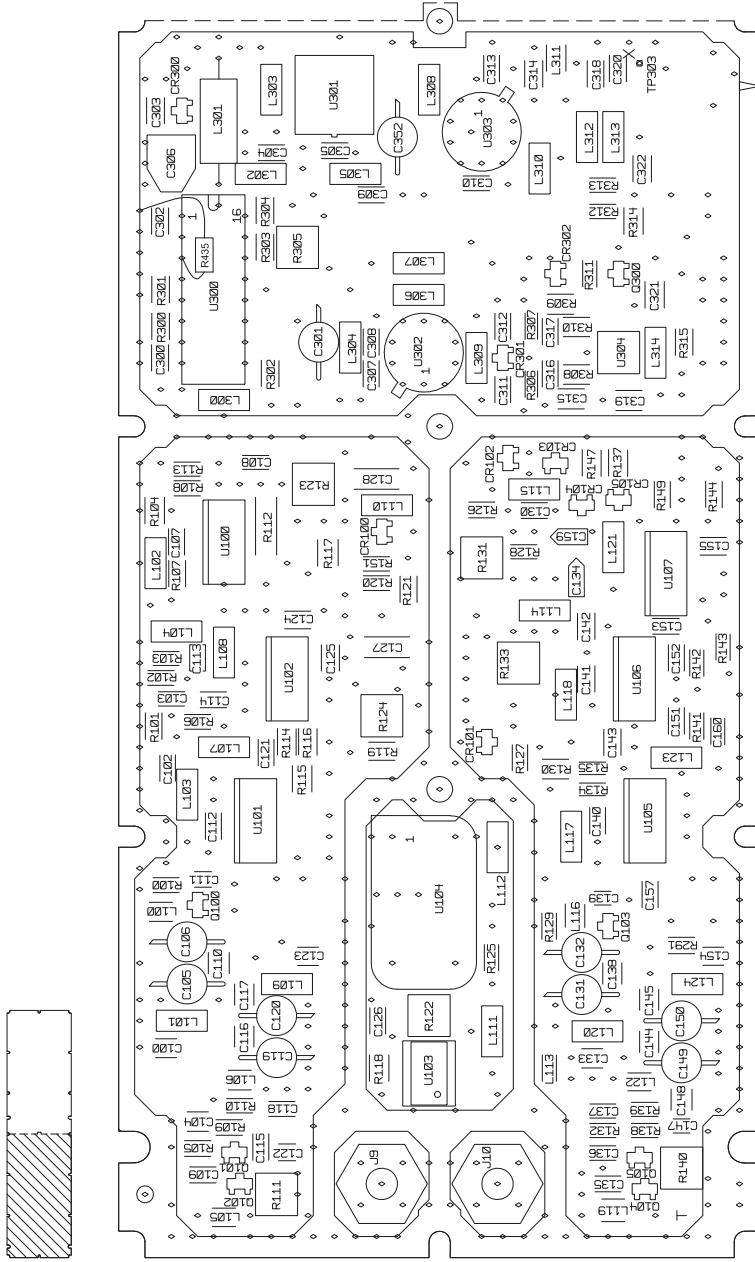
REVISION IDENT (SHEET)	DESCRIPTION OF REVISION AND CAUSE FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY MARKING
A (3)	Deleted R435; it is not required.		REV A
N/A	Internal documentation change only.		REV B
C (3)	Changed R430 from 357Ω to a test selected value to account for input trigger level differences in U301 at 70°C. Also added info chart to circuit card.		REV C
N/A	Changed ESDS label to the circular style.		REV D

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Maintenance Aid and Schematic Changes

Table 2016/Table 34-50-96-99A-027-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



PARTIAL TOPSIDE VIEW

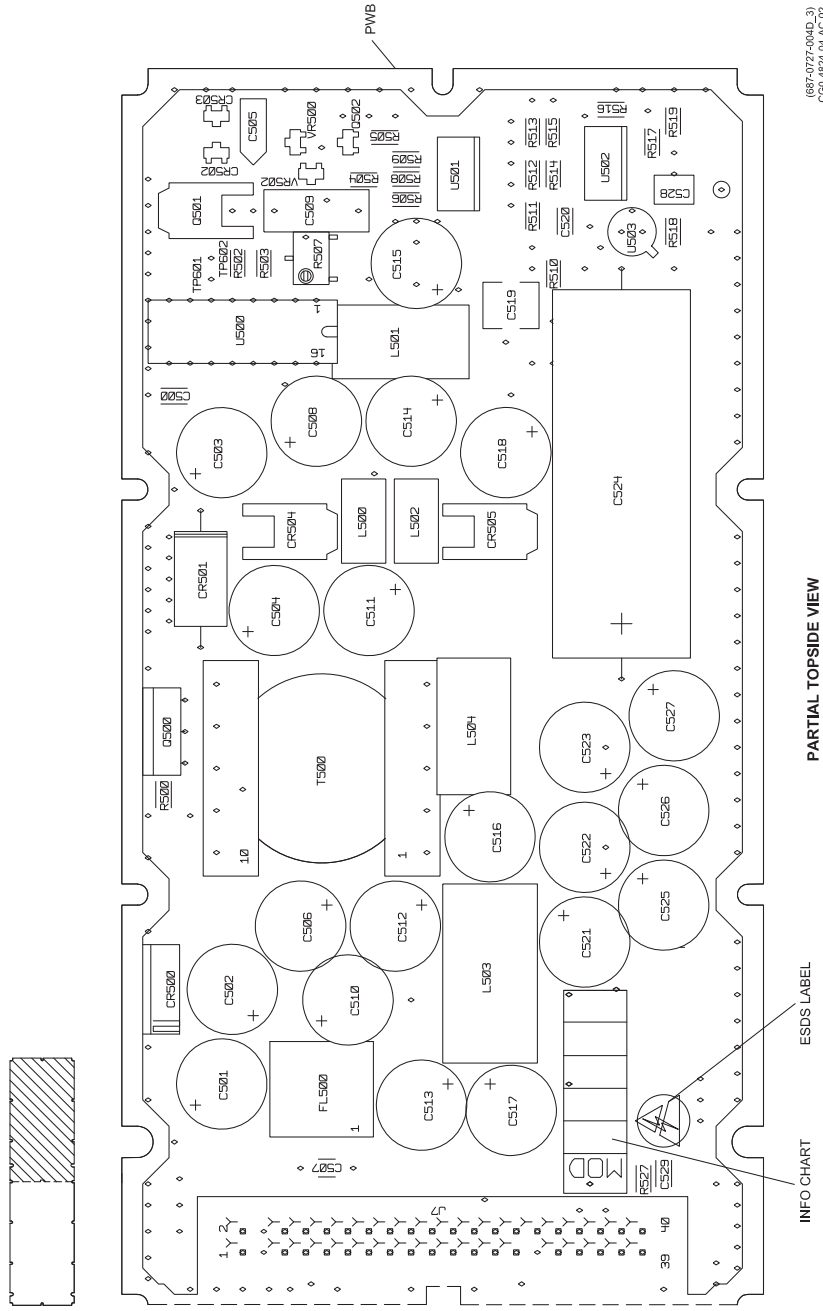
(687-0727-004D.3)  
 CGA-4824-04-AC-01

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Maintenance Aid Diagram  
 Figure 2029 (Sheet 1 of 4)/GRAPHIC 34-50-96-99B-064-A01





ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



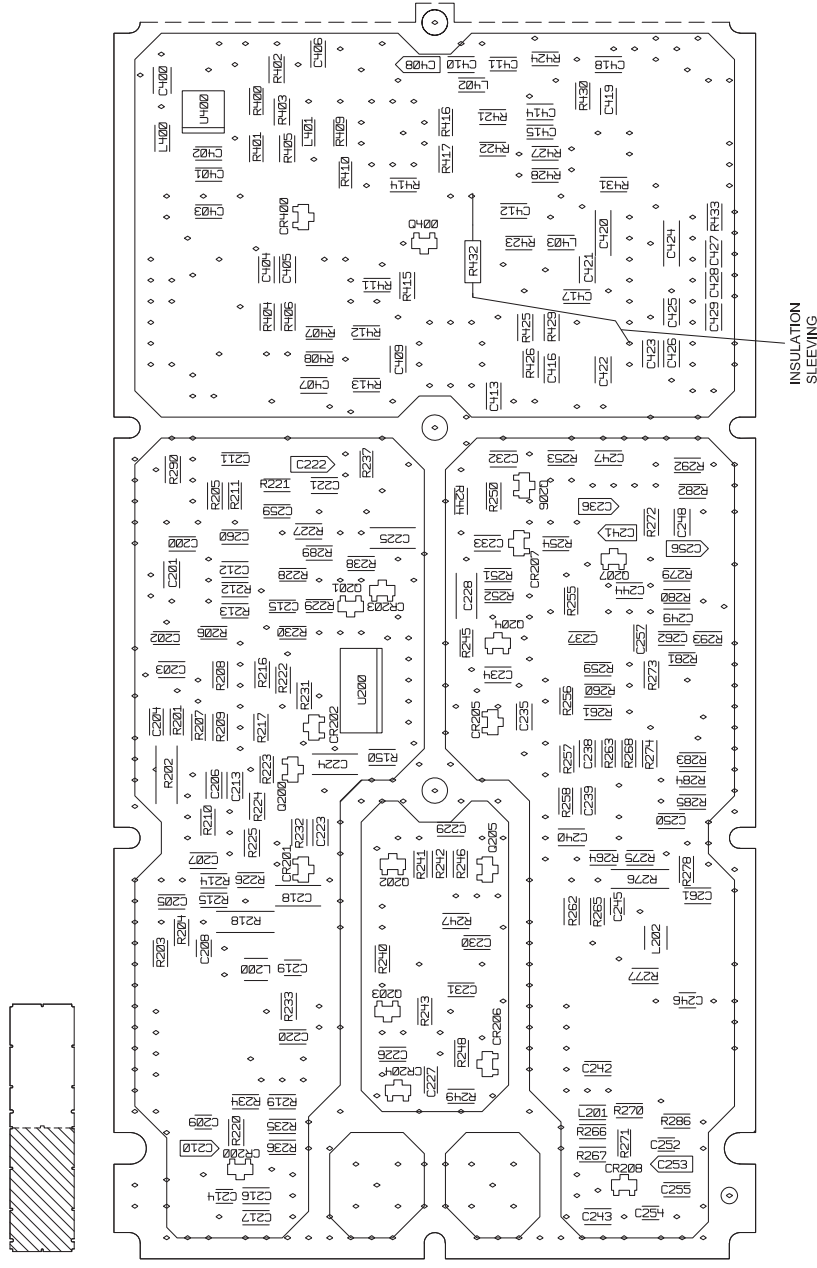
(687-0727-004D\_3)  
 C96-4824-0A-C02

PARTIAL TOPSIDE VIEW

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Maintenance Aid Diagram  
 Figure 2029 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-064-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



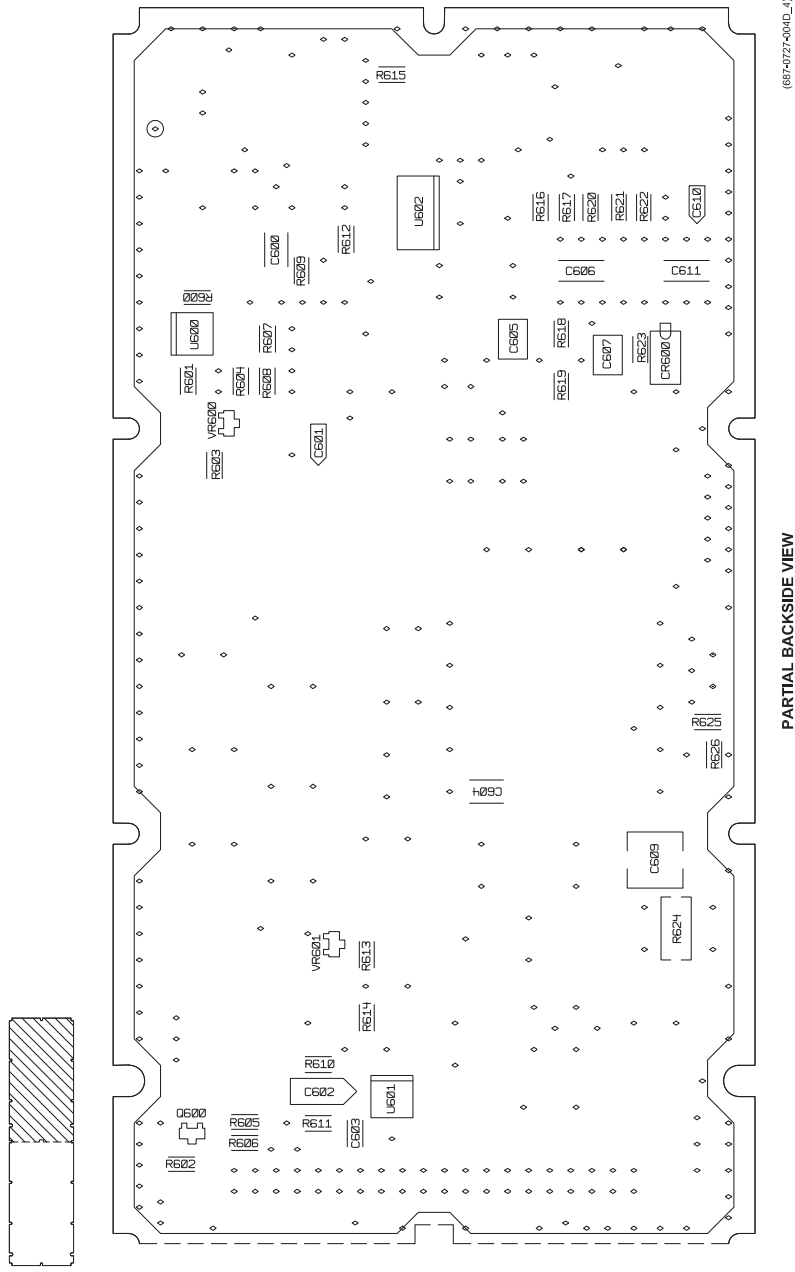
(687-0727-004D\_4)  
 C06-482-06-AC53

PARTIAL BACKSIDE VIEW

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Maintenance Aid Diagram  
 Figure 2029 (Sheet 3 of 4)/GRAPHIC 34-50-96-99B-064-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



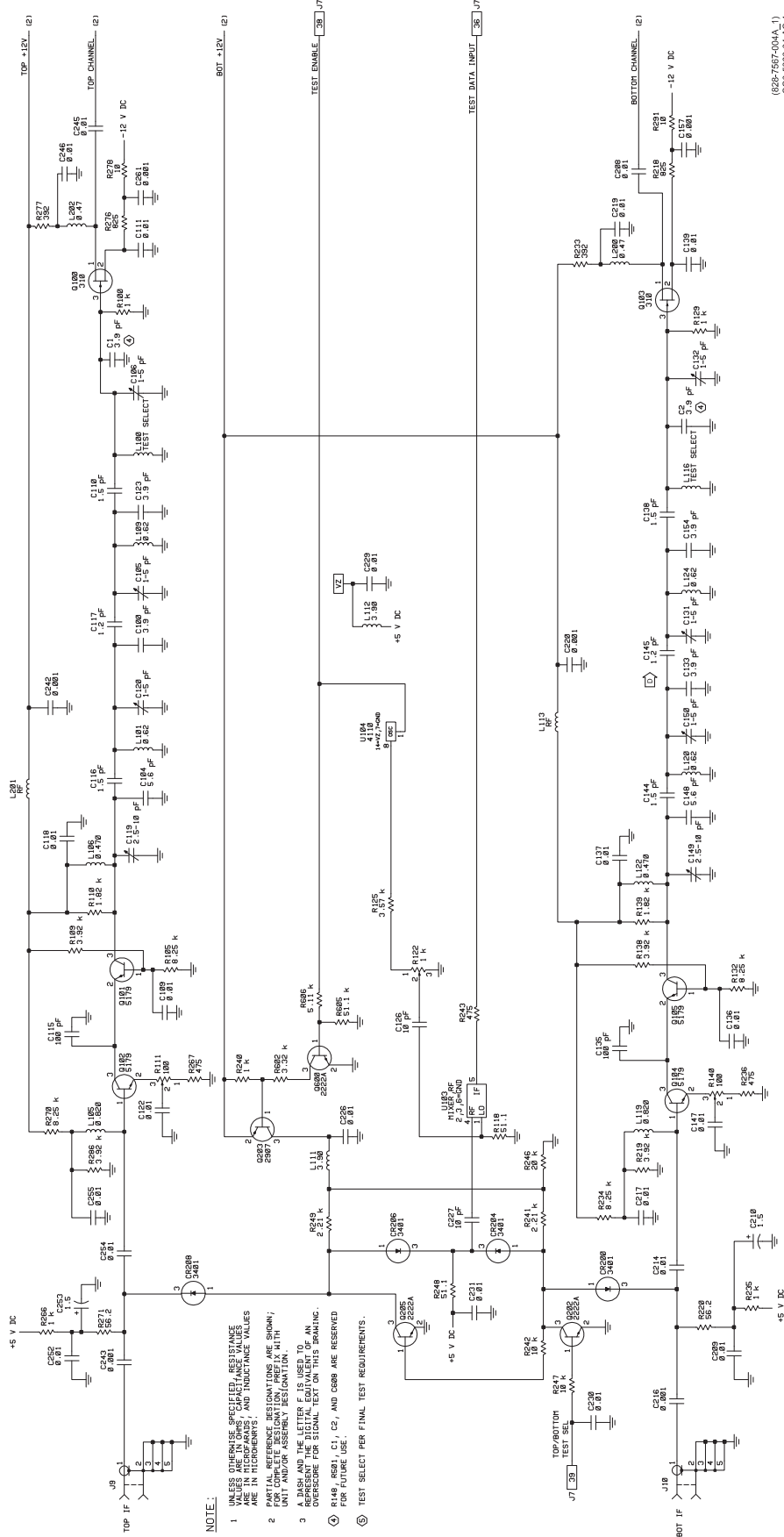
PARTIAL BACKSIDE VIEW

(687-0727-001D-4)  
 001-4624-04-AC04

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Maintenance Aid Diagram  
 Figure 2029 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-064-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



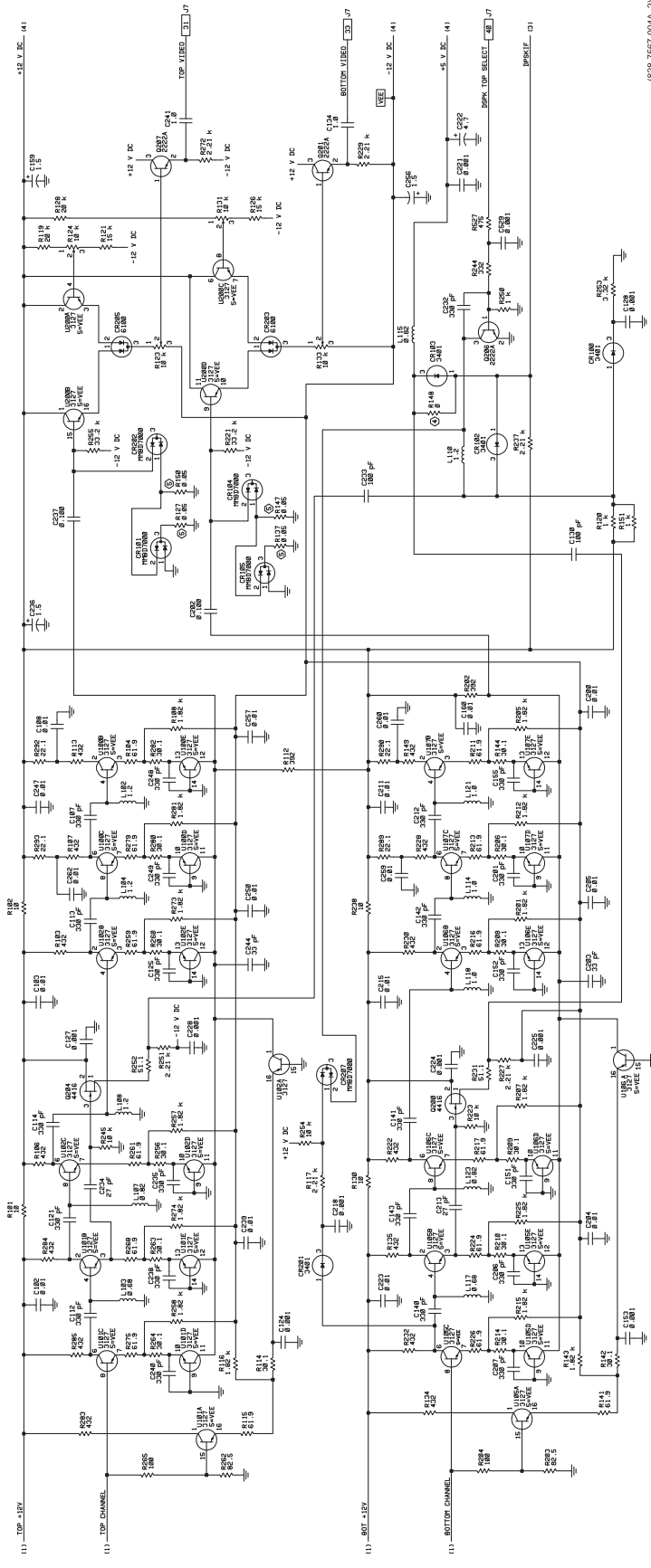
(82-7587-00A-1)  
 CGO-6388-00-1

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Schematic Diagram  
 Figure 2030 (Sheet 1 of 4)/GRAPHIC 34-50-96-99B-065-A-01





ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

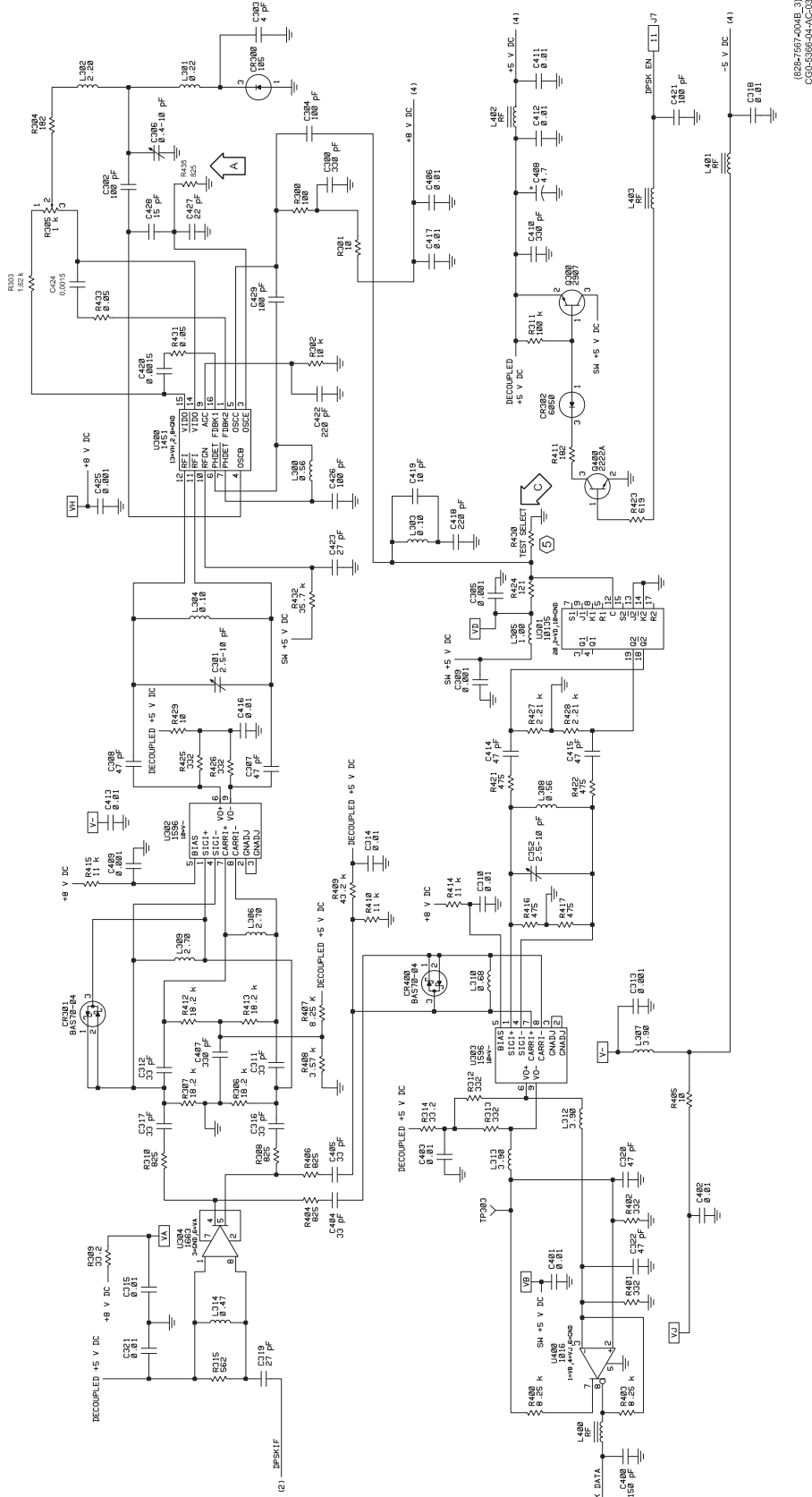


(82B-757-00MA.2)  
 CGO-5366-04-A2

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Schematic Diagram  
 Figure 2030 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-065-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

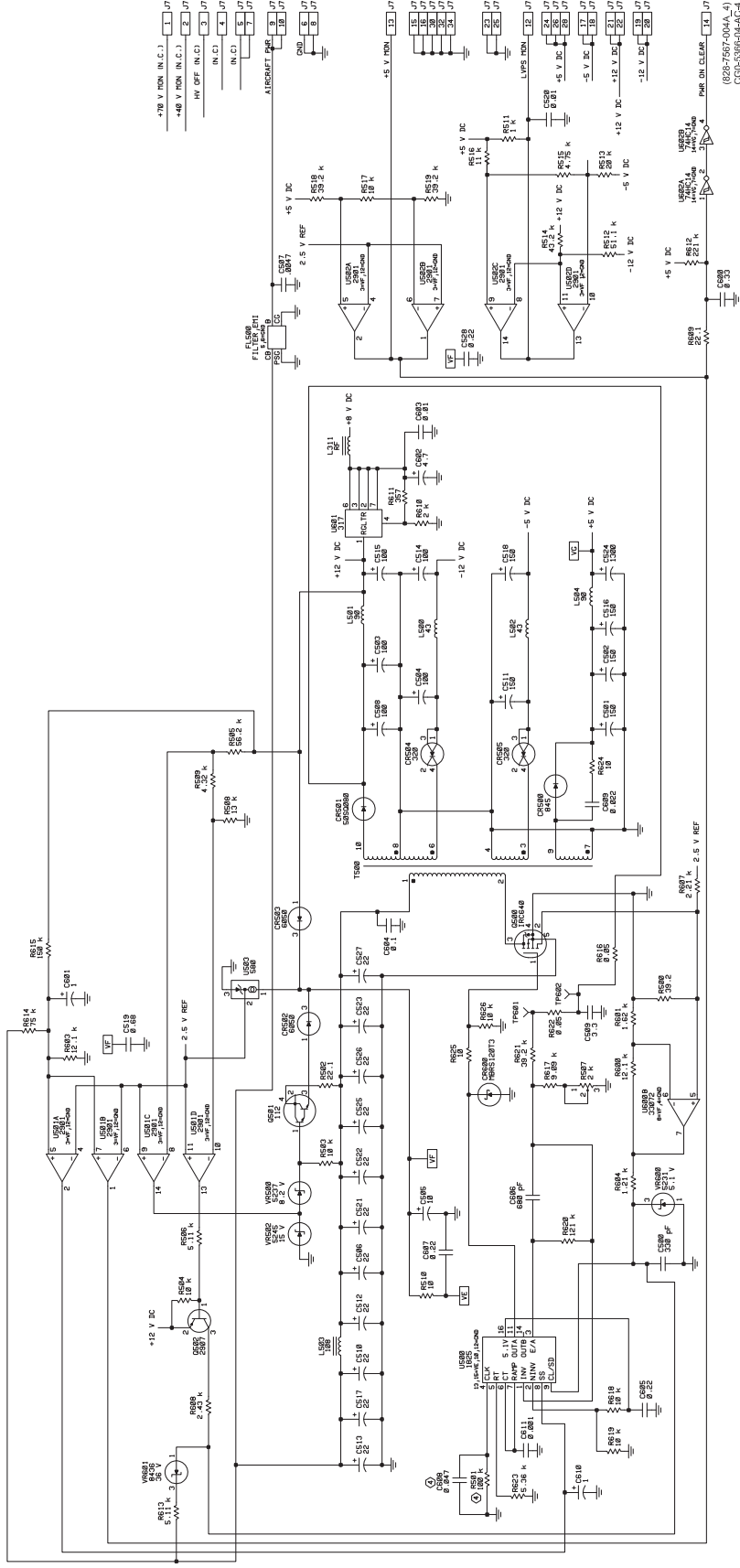


IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Schematic Diagram  
 Figure 2030 (Sheet 3 of 4) GRAPHIC 34-50-96-99B-065-A01

(6287-557-2048, 3)  
 CGO-5398-04-AC-03



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-004), Schematic Diagram  
 Figure 2030 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-065-A01



**ROCKWELL COLLINS**  
**COMPONENT MAINTENANCE MANUAL with IPL**  
TDR-94, PART NO 622-9352

**MAINTENANCE AID/SCHEMATIC CHANGES**

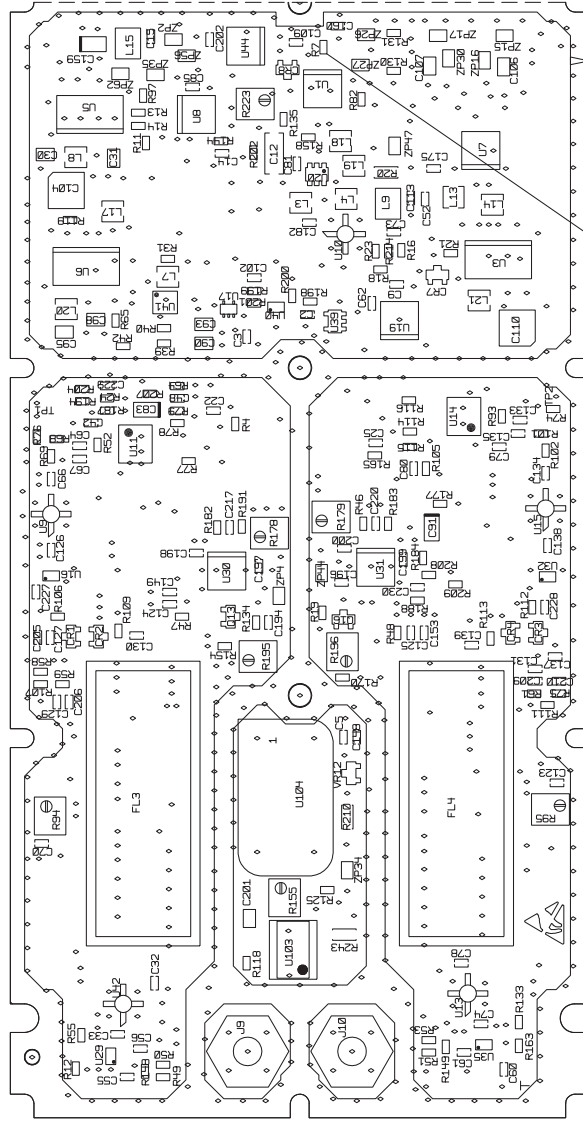
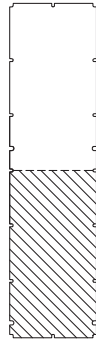
REVISION IDENT (SHEET)	DESCRIPTION OF REVISION AND CAUSE FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY MARKING
N/A	Implemented circuit card into production.	25	REV D
N/A	Removed C192. This component should not have been populated on the circuit card.		REV E
N/A	Internal documentation changes only.		REV F
N/A	FL3 and FL4 changed from CPN 241-5066-030 to CPN 241-5066-040. There are no value changes. CPN 241-5066-030 may be used as an alternate part if necessary.		REV G
H (2)	Changed C201 from 0.001 $\mu$ F 10 pF to reduce the amount of 60 MHz signal being coupled into RF mixer U103. This change lowers the adjustment range of the self-test video pot, R155.		REV H
N/A	Internal documentation changes only.		REV J
J1 (6)	Revised L18 from 22nH to a test select. Variations observed in the VCO IC U20 and inductor L19 caused excessive fallout.		REV L
J2 (7)	Revised C610 from 1 $\mu$ F to 0.1 $\mu$ F to address start-up problems.	28	REV M

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Maintenance Aid and Schematic Changes  
Table 2017/Table 34-50-96-99A-028-A01





ROCKWELL COLLINS  
COMPONENT MAINTENANCE MANUAL with IPL  
TDR-94, PART NO 622-9352



PARTIAL TOPSIDE VIEW

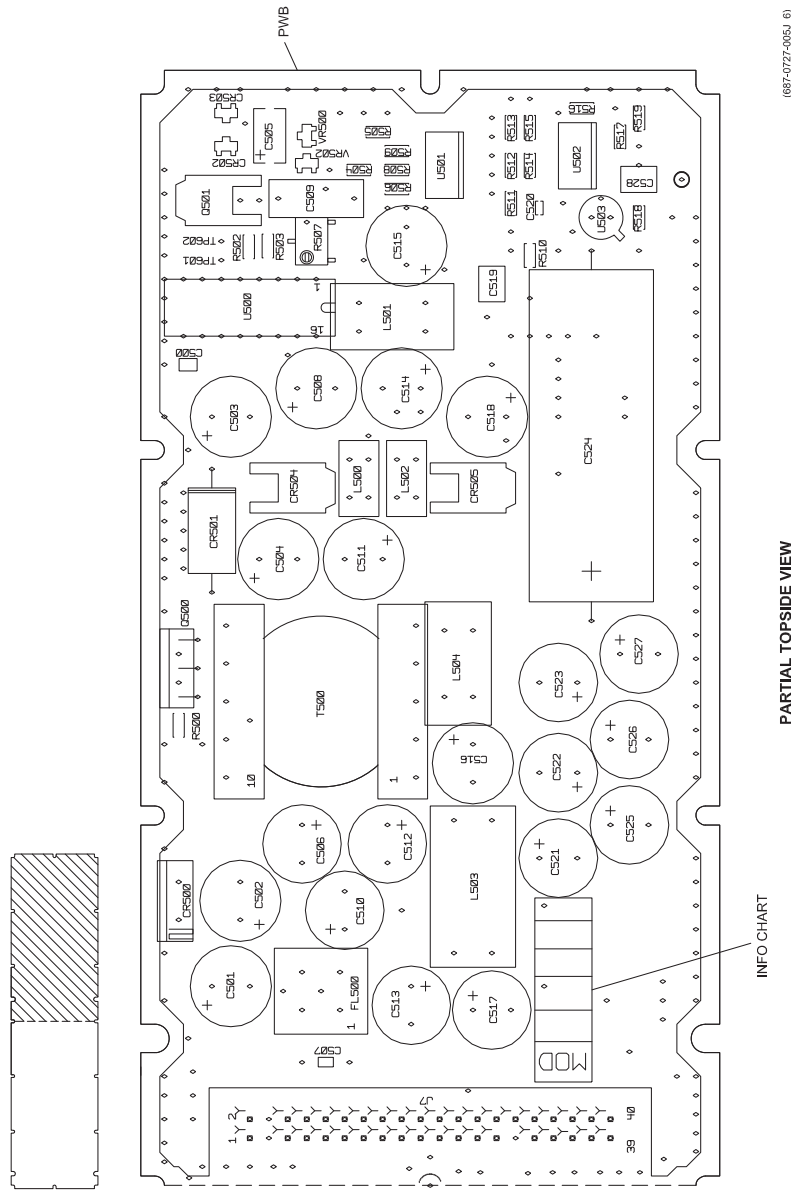
R7 EFF REV D

(687-0722-005)\_5  
PDF

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Maintenance Aid Diagram  
Figure 2031 (Sheet 1 of 4)/GRAPHIC 34-50-96-99B-066-A01



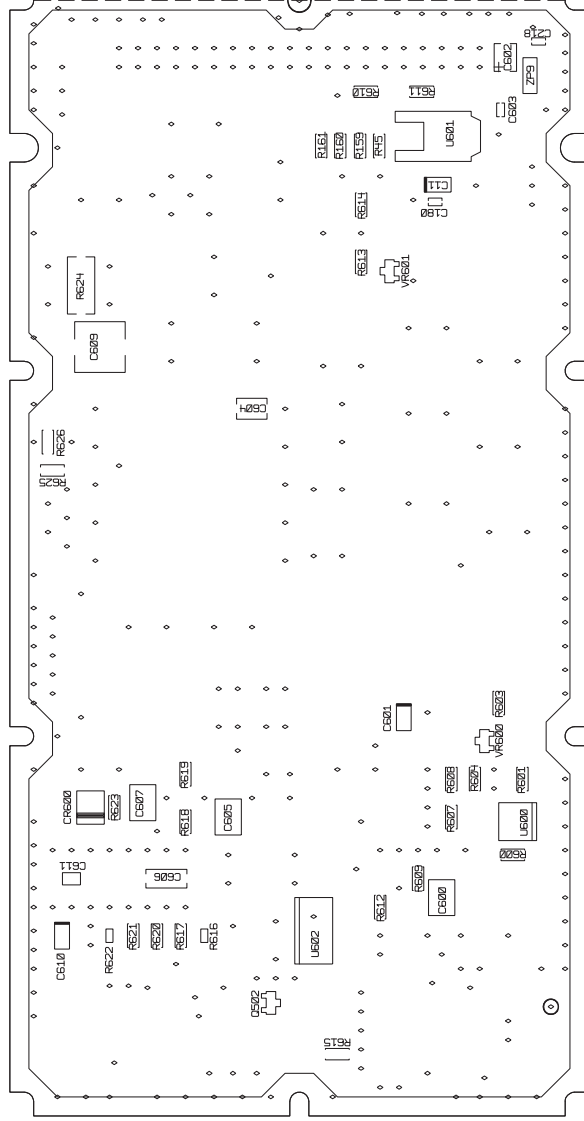
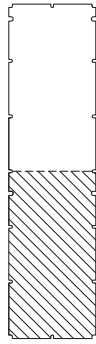
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Maintenance Aid Diagram  
 Figure 2031 (Sheet 2 of 4)/GRAPHIC 34-50-96-99B-066-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

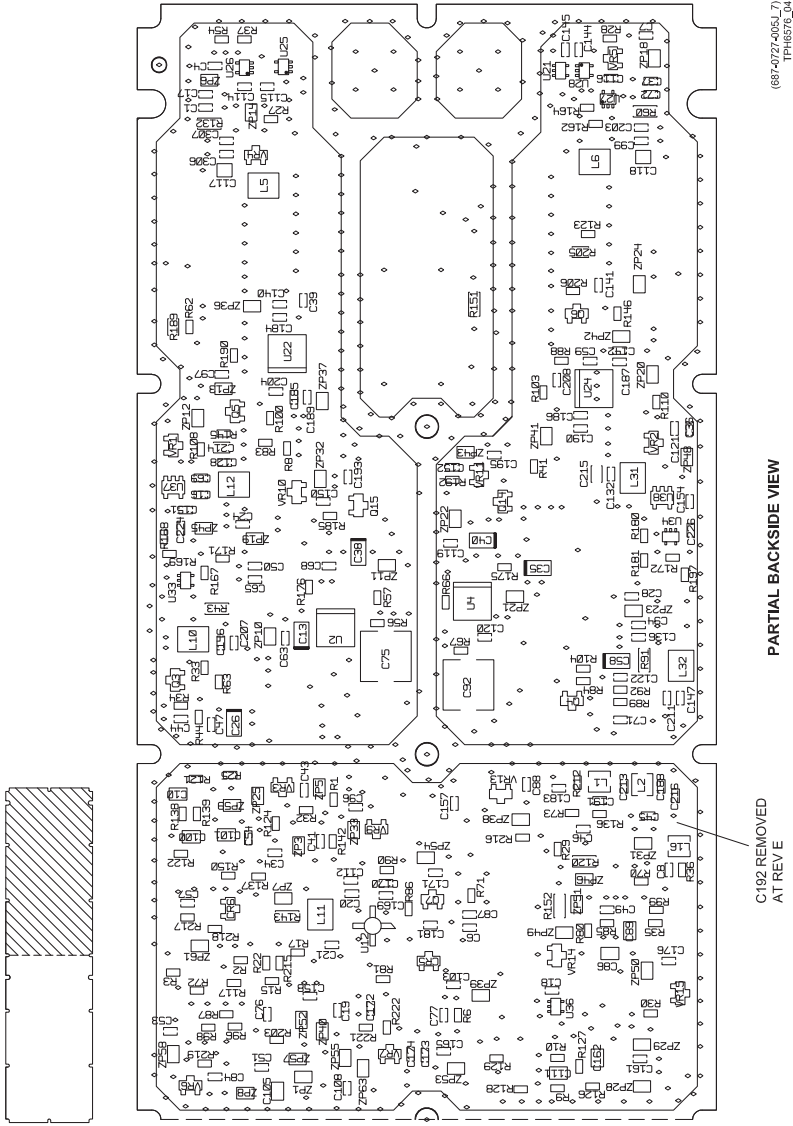


(687-0727-005L7)  
 TP46576L03

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Maintenance Aid Diagram  
 Figure 2031 (Sheet 3 of 4)/GRAPHIC 34-50-96-99B-066-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



(687-0727-005.1)  
 TRM687C04

PARTIAL BACKSIDE VIEW

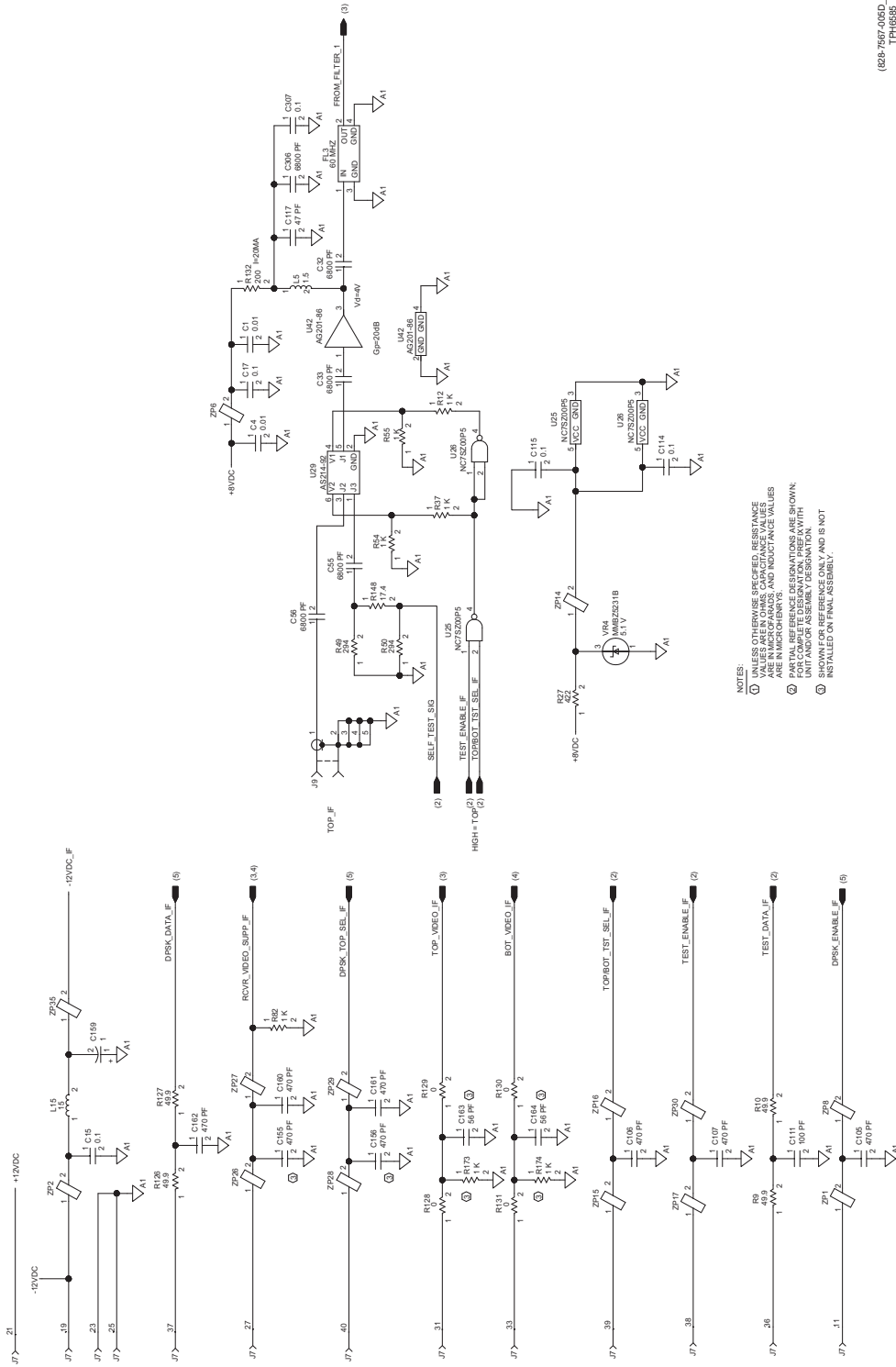
C192 REMOVED  
 AT REV E

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Maintenance Aid Diagram  
 Figure 2031 (Sheet 4 of 4)/GRAPHIC 34-50-96-99B-066-A01





ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

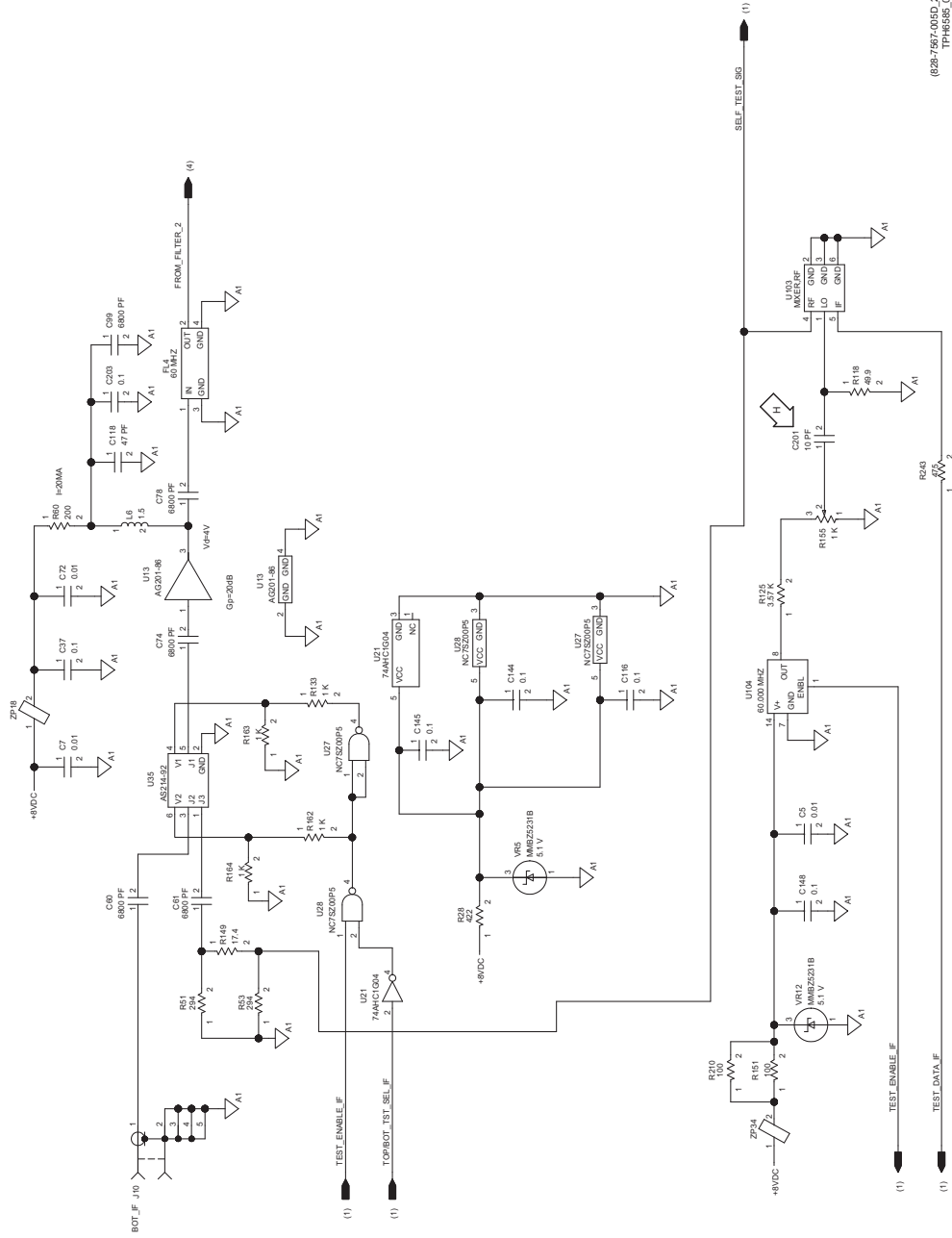


(829-7567-005D\_1)  
 TPH6595\_01

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 1 of 7)/GRAPHIC 34-50-96-99B-067-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

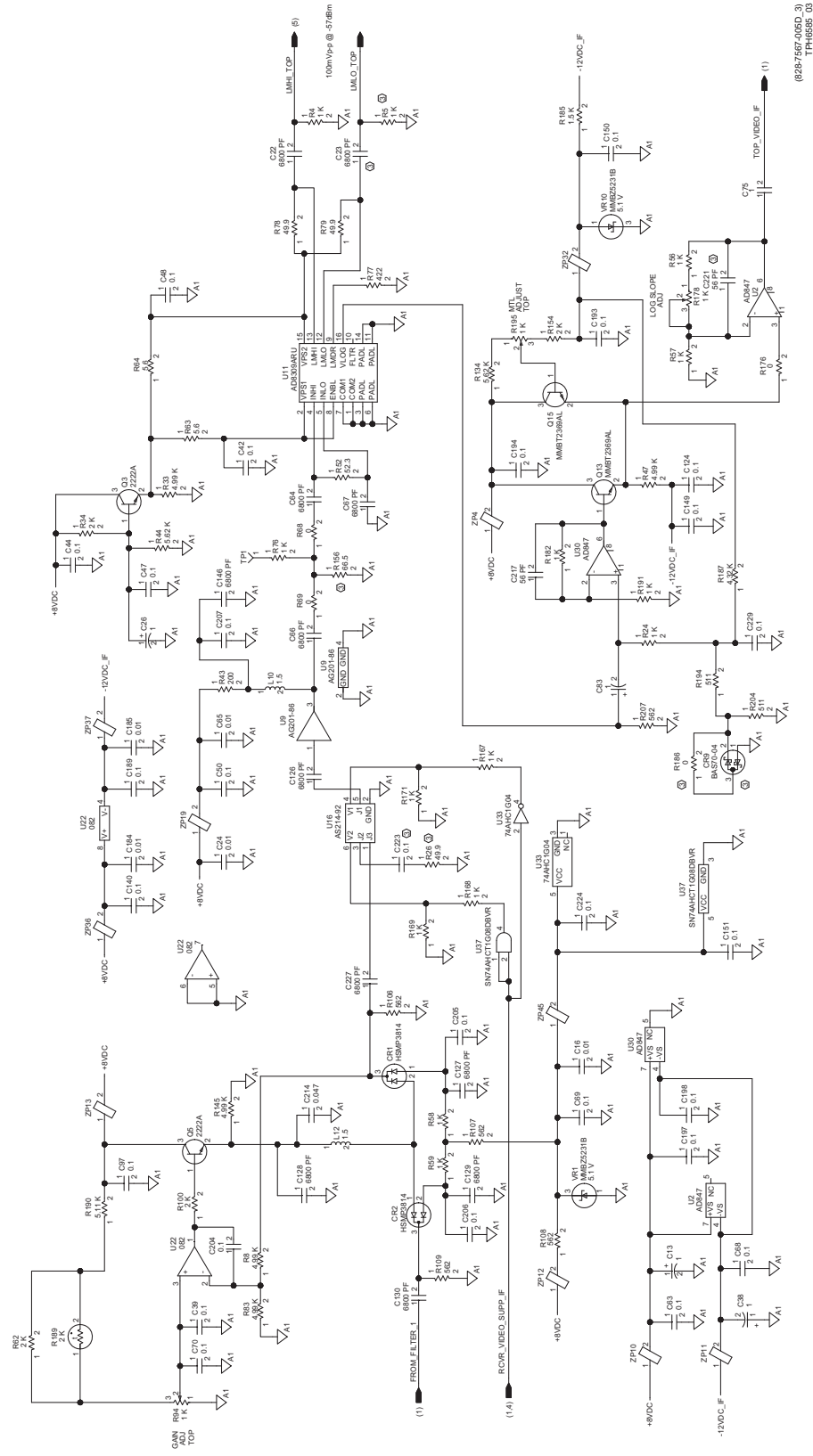


(828-7957-005D.2)  
 1PHESS\_Q2

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 667-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 2 of 7)/GRAPHIC 34-50-96-99B-067-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

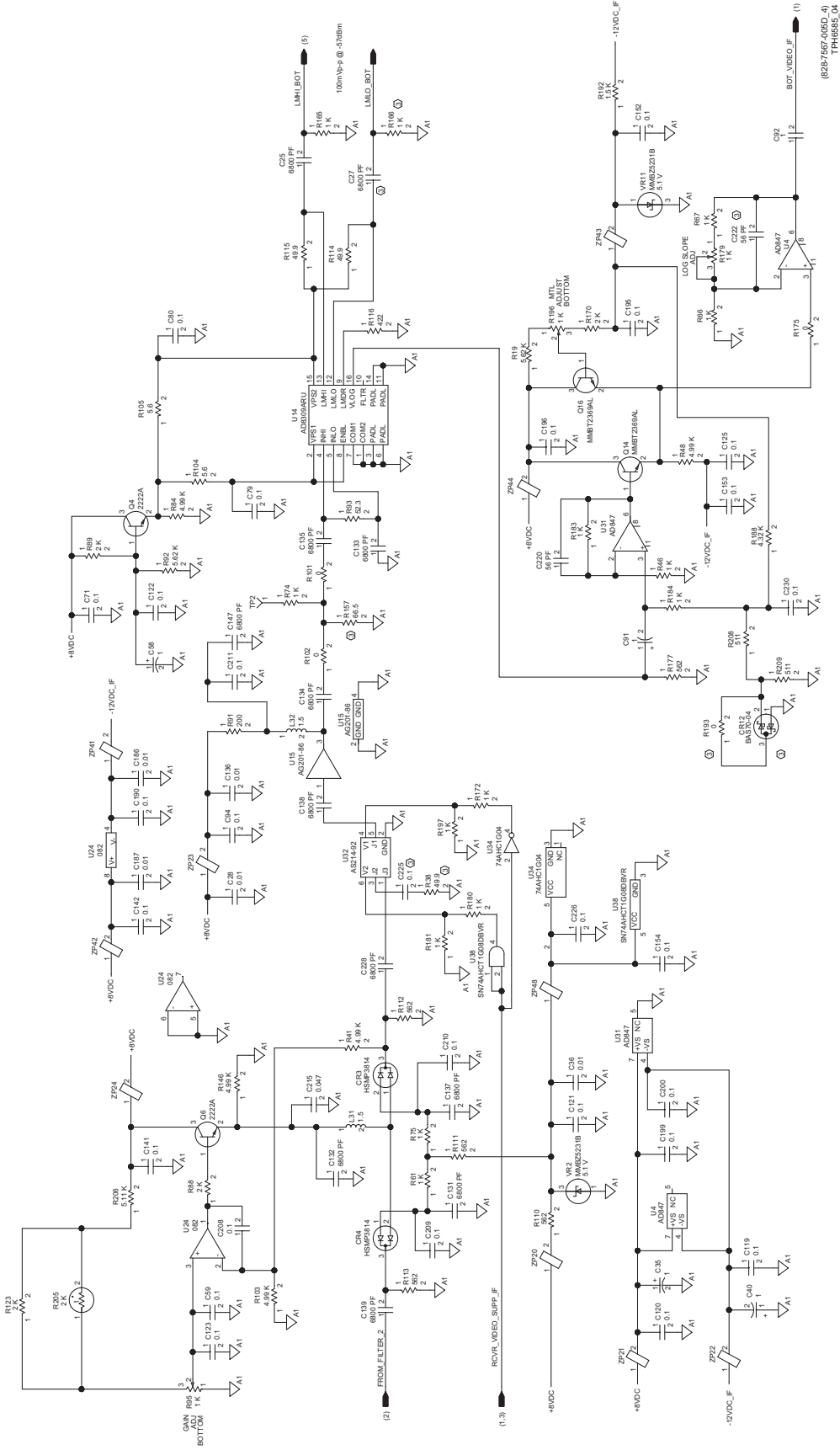


(828-7567-005D\_3)  
 1PH6595\_03

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 667-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 3 of 7)/GRAPHIC 34-50-96-99B-067-A01



ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

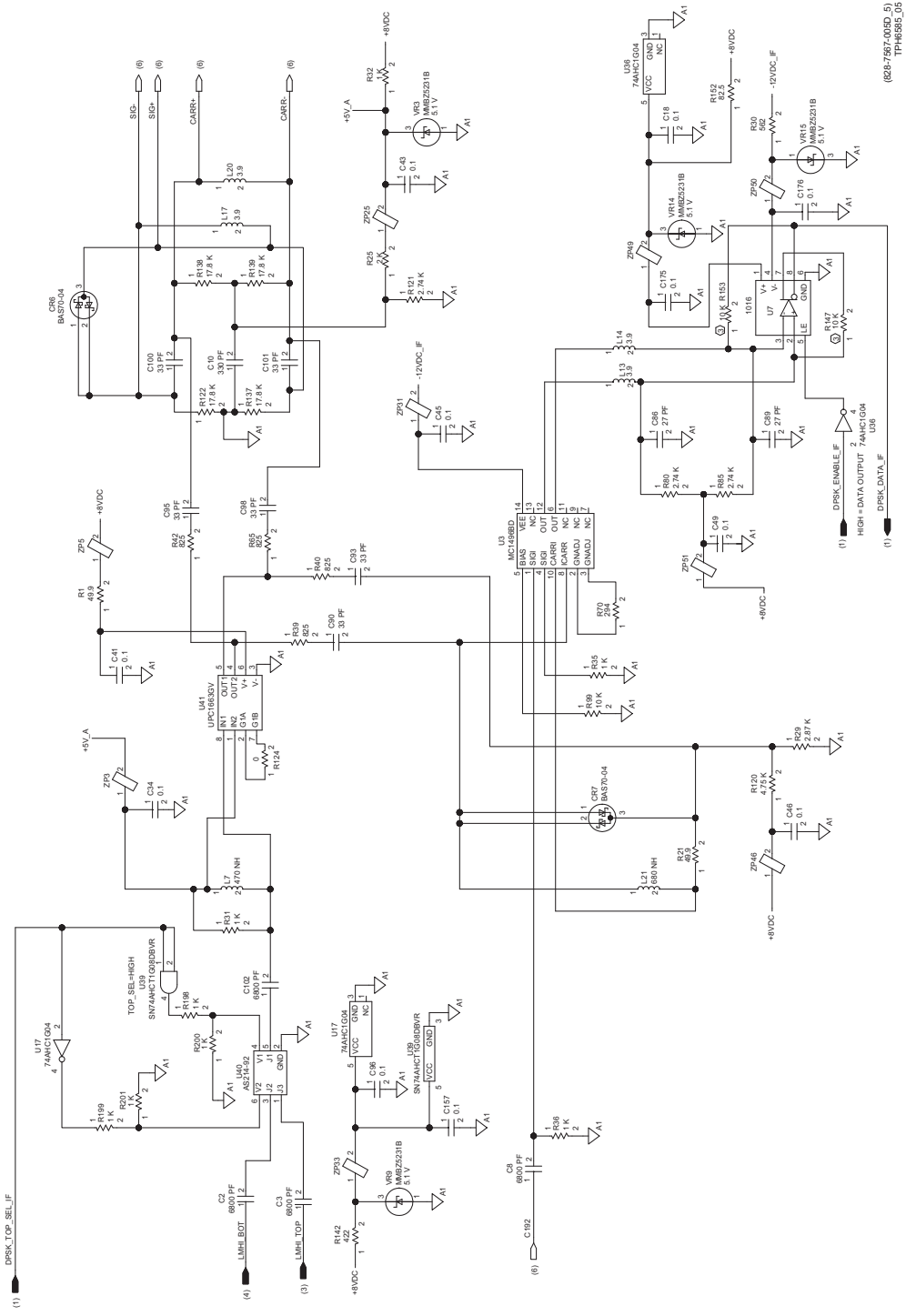


IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 4 of 7) GRAPHIC 34-50-96-99B-067-A01





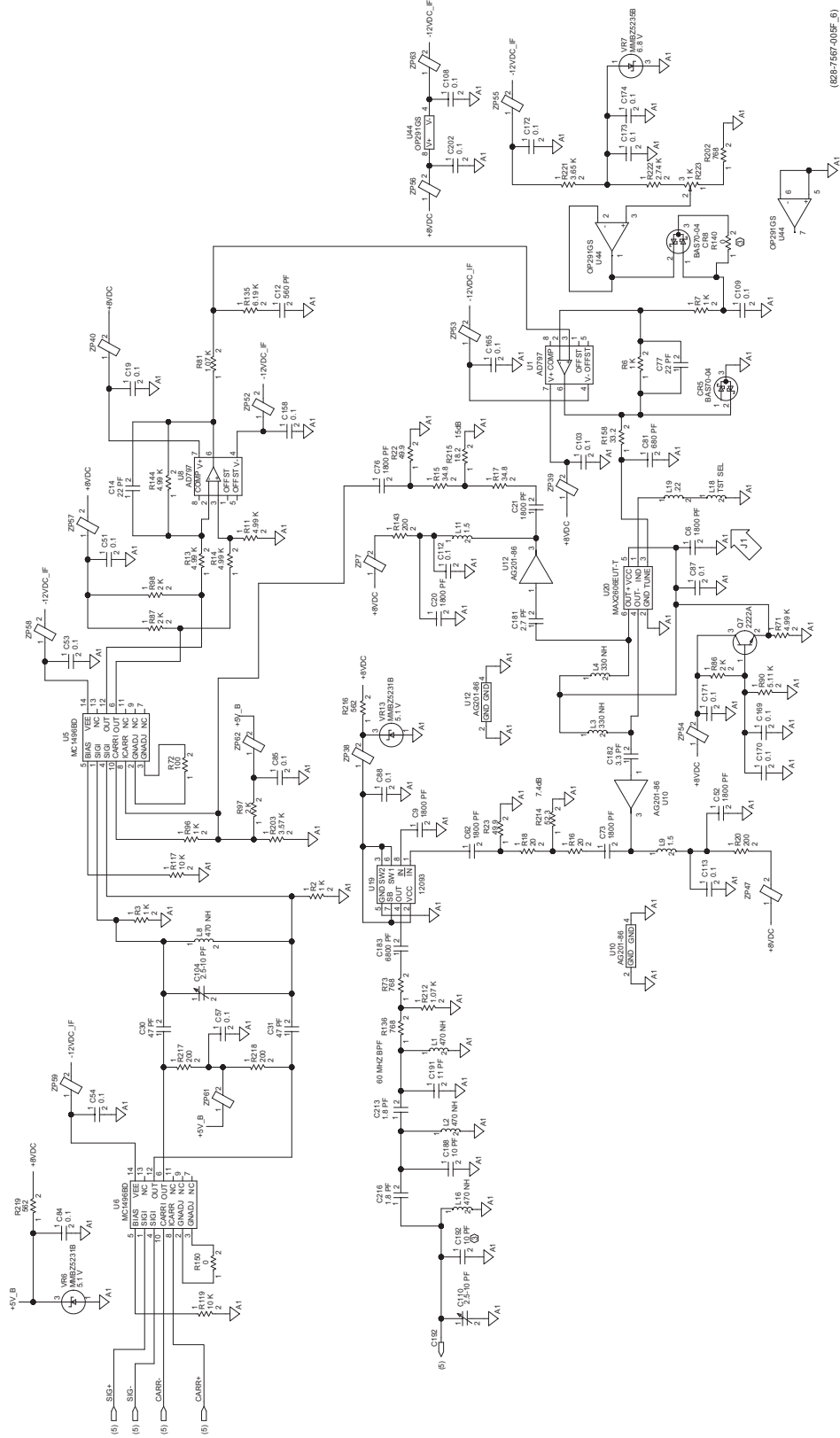
ROCKWELL COLLINS  
 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352



IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 5 of 7) GRAPHIC 34-50-96-99B-067-A01



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 COMPONENT MAINTENANCE MANUAL with IPL  
 TDR-94, PART NO 622-9352

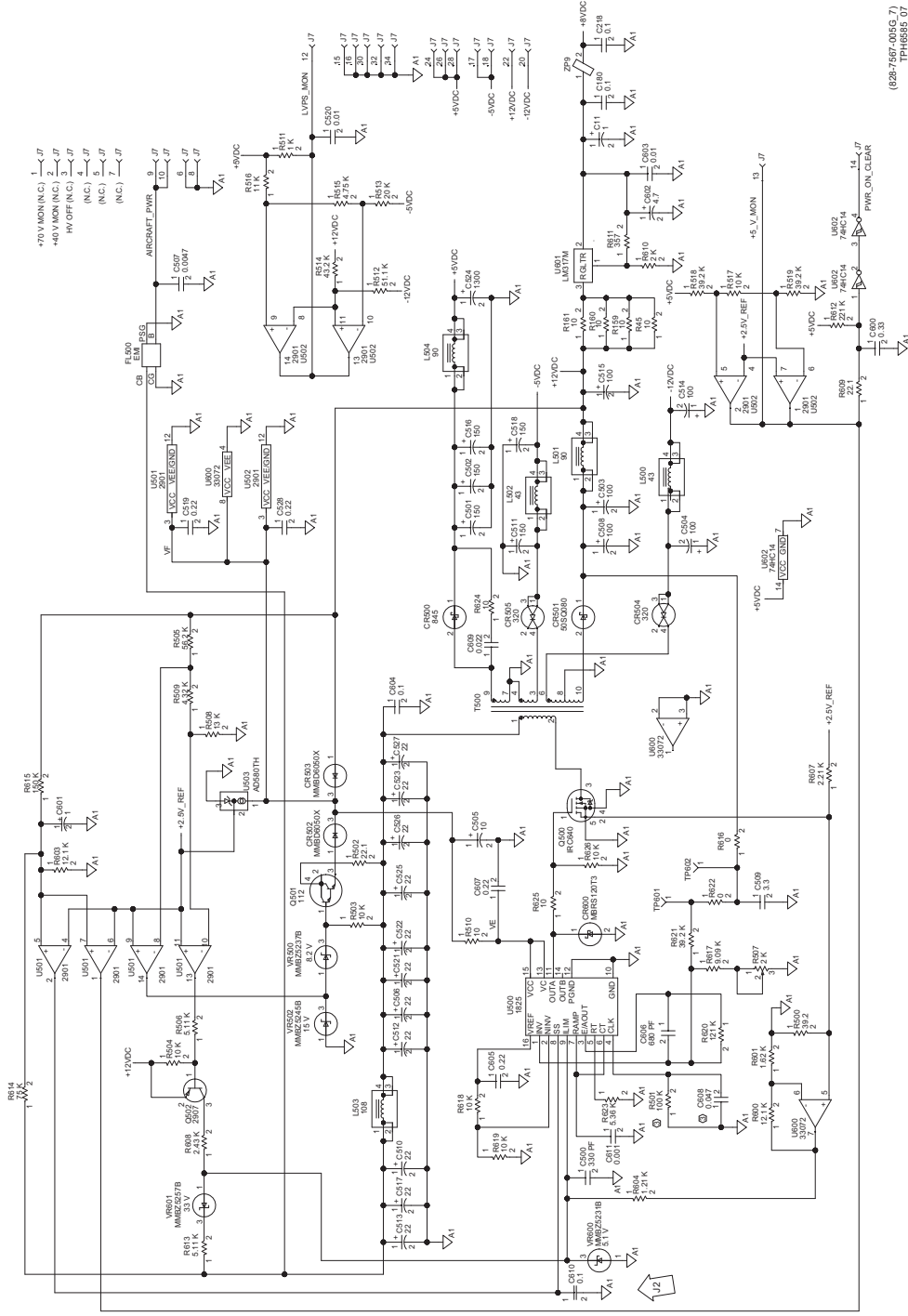


(82E-7567-005F-5)  
 TPH855\_06

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 6 of 7)/GRAPHIC 34-50-96-99B-067-A01



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(828-7567-005G, 7)  
 TPF6885\_07

IF Receiver, DPSK Detector, and LVPS Circuit Card A7 (CPN 687-0727-005), Schematic Diagram  
 Figure 2032 (Sheet 7 of 7)/GRAPHIC 34-50-96-99B-067-A01



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DISASSEMBLY

TASK 34-50-96-000-801-A01

1. Introduction

- A. Disassemble the TDR-94/94D only when repair is necessary and only to the extent necessary for repair or troubleshooting. Perform the Acceptance Test or Final Performance Test given in the Testing and Fault Isolation section of this manual to determine if repair is required. If repair is needed some disassembly will likely be required.

TASK 34-50-96-000-802-A01

2. Precautions and General Techniques

WARNING: REMOVE POWER CABLE BEFORE DISASSEMBLING ANY PORTION OF THE EQUIPMENT. DISASSEMBLING THE EQUIPMENT WITH POWER CABLE CONNECTED IS DANGEROUS TO LIFE AND MAY CAUSE VOLTAGE TRANSIENTS THAT CAN DAMAGE THE EQUIPMENT.

CAUTION: THIS UNIT CONTAINS ESDS (ELECTROSTATIC DISCHARGE SENSITIVE) COMPONENTS THAT CAN BE DAMAGED BY IMPROPER HANDLING. BEFORE REMOVING THE COVER OR ATTEMPTING TO REPAIR ANY OF THE CIRCUIT CARDS, CAREFULLY READ THE ESDS HANDLING INSTRUCTIONS ON THE GENERAL ADVISORIES PAGE IN THE FRONT OF THIS MANUAL.

- A. Do not disassemble unless absolutely necessary and only to the extent necessary for repair or troubleshooting. Carefully note the order of disassembly to ensure correct reassembly.
- B. Mark or otherwise identify, all disconnected electrical wiring. Make a note of color coding, placement of leads, and method of applying insulation (if any) before soldering or removing any electrical parts. Refer to the advisories page in the front of this manual for cautions and warnings that must be observed.

TASK 34-50-96-000-803-A01

3. Disassembly Procedures

SUBTASK 34-50-96-000-001-A01

A. General

- (1) Refer the Assembly Identification Diagram, Figure 2/GRAPHIC 34-50-96-99B-002-A01, in the Description and Operation section of this manual for a module location diagram of the TDR-94/94D. The TDR-94/94D consists of three major subassemblies. The center T-shaped module is called the Main Chassis Assembly and contains the High Voltage Power Supply Circuit Card A1 at the front. The center section contains the CPU-I/O Programmed Assembly A5 on the left (as viewed from the front) and the Video Processor Circuit Card A6 on the right. Each of these cards is attached to a rear connector.

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- (2) The module on the left is the RFPA Chassis Assembly. It consists of the Power Amplifier Circuit Card A2 on the outer side directly under the outside cover, the Synthesizer Circuit Card A4 on the inner side to the back of the unit, and the Modulator Circuit Card A3, also on the inner side but at the front of the module.
- (3) The module on the right is the IF Receiver Chassis Assembly. It consists of the IF Receiver, DPSK Detector, and LVPS Circuit Card A7.
- (4) If you are using a test panel built from procedures in an earlier version of the TDR-94/94D Component Maintenance Manual, you must also remove the unit from the MMT-150 Mounting Tray. When the modules are disassembled, you will find that you must also disassemble the MMT-150 Mounting Tray. Refer to MMT-150 Mounting Tray disassembly instructions in paragraph F below.
- (5) To separate these three chassis assemblies make sure the unit is disconnected from any power source. If you are using a test panel built from procedures in an earlier version of the TDR-94/94D Component Maintenance Manual, you must also remove the unit from the MMT-150 Mounting Tray.

SUBTASK 34-50-96-000-002-A01

B. Separation of the RFPA Chassis Assembly from the Main Chassis Assembly

- (1) Locate the six screws which have noticeably larger heads than the others.
  - (a) Another two screws are located near the front edge of the assembly and are about 1/4-inch long.
  - (b) Two are located about 3/4-inch forward of the upper and lower corners at the rear of the assembly. These screws are 2-inches long and extend into the Main Chassis Assembly.
  - (c) The remaining two screws are located about 6-3/4 inches forward of the rear edge, along the top and bottom edges. These two screws are also 2-inches long and extend into the Main Chassis Assembly.
- (2) With these six screws removed you should be able to separate the RFPA Chassis Assembly from the Main Chassis Assembly. As soon as the assemblies are clear of each other, you will notice the internal cabling. Try not to put stress on the cables, especially the two RF coax cables/connectors at the rear. Excessive stress can cause damage to the circuit board where the mating connectors are attached. These two cables are the RF link to the receiver. If circuit testing is necessary on either of the two circuit cards on the Main Chassis Assembly, disconnect the coax cables and install extender cables. You will notice that the IF Receiver Chassis Assembly must also be separated in order to do this. These extender cables will allow additional module separation for increased access to the circuit cards.



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- (3) At the front you will notice a cable that has of four separate conductors. This is the high voltage power supply output cable; one pair each for  $\pm 70$  V dc and  $\pm 35$  V dc. The Special Tools, Fixtures, Equipment, and Consumables Section also lists an extender for this cable if needed.
- (4) You will also notice a ribbon cable between the Main Chassis Assembly and the RFPA Chassis Assembly. If it is necessary to disconnect this cable, pull straight away from the connector using the white plastic cable pulls attached. Do not tug on the ribbon cable; this can cause the connector to separate, possibly resulting in an open or intermittent connection.

SUBTASK 34-50-96-000-003-A01

C. Separation of the IF Receiver Chassis Assembly from the Main Chassis Assembly

- (1) Locate the six screws which have noticeably larger heads than the others.
  - (a) Two screws are located near the front edge of the assembly and are about 1/4-inch long.
  - (b) Another two screws are located about 3/4-inch forward of the upper and lower corners at the rear of the assembly. These screws are 2-inches long and extend into the Main Chassis Assembly.
  - (c) The remaining two screws are located about 6-3/4 inches forward of the rear edge, along the top and bottom edges. These two screws are also 2-inches long and extend into the Main Chassis Assembly.
- (2) With these six screws removed you should be able to separate the IF Receiver Chassis Assembly from the Main Chassis Assembly. Separate the two assemblies slowly and carefully. As soon as the assemblies are clear of each other you will notice the internal cabling. Try not to put stress on the cables, especially the two RF coax cables/connectors at the rear. Excessive stress can cause damage to the circuit board where the mating connectors are attached. These two cables are the RF link to the receiver. If circuit testing is necessary on either of the two circuit cards on the Main Chassis Assembly, it is best to disconnect these coax cables and install extender cables. You will notice that the PA Chassis Assembly must also be separated in order to do this. These extender cables will allow additional module separation for increased access to the circuit cards.
- (3) You will also notice a wide cable connecting the Main Chassis Assembly to the IF Receiver, DPSK Detector, Low Voltage Power Supply Chassis Assembly, with a shorter and narrow ribbon cable at the front.

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SUBTASK 34-50-96-000-004-A01

D. RFPA Chassis Disassembly

- (1) Repair, and consequently disassembly of the RFPA Chassis Assembly, is only authorized for Collins Authorized Service Centers.

SUBTASK 34-50-96-000-005-A01

E. IF Receiver Chassis Disassembly

- (1) The IF Receiver Chassis Assembly can be disassembled only to the extent needed to gain access to the low voltage power supply. Repair, and consequently disassembly of the remaining assembly, is only for Collins Authorized Service Centers.

NOTE: Any Collins Authorized Repair facility is authorized to disassemble and repair any of the Main Chassis Assembly. This includes the two center digital circuit card assemblies, as well as the high voltage power supply located at the front of this assembly. Disassembly of this module is readily apparent.

SUBTASK 34-50-96-000-006-A01

F. MMT-150 Mounting Tray Disassembly Instructions

- (1) If you are using a test panel built from procedures in an earlier version of the TDR-94/94D Component Maintenance Manual, you must also disassemble the MMT-150 Mounting Tray. This is necessary to allow the RFPA Chassis Assembly, which contains the antenna connector(s), to separate from the Main Chassis Assembly, which contains the two rear main connectors. With the UUT removed from the Mounting Tray, do the steps that follow:
  - (a) Remove the four cross-point screws that hold the MMT-150 connector mounting plate to the side rails.
  - (b) Remove the four hex keying socket screws that hold the two rear main connectors in the MMT-150 rear plate.
  - (c) If the MOV suppressor is connected to the power wires, disconnect those wires from the MOV and tape or cap the ends to prevent accidentally shorting of the power source.
  - (d) Slide the two connectors forward from the connector mounting plate a few inches. This should allow enough space to tip each connector slightly so that each connector can be drawn back out through the connector mounting plate. Carefully remove each connector separately to minimize stress on the wires and damage to the connector pins. You should now have the cables and connectors free from the connector mounting plate.

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CLEANING

TASK 34-50-96-100-801-A01

1. Introduction

- A. Refer to Rockwell Collins Avionics Standard Shop Practices Manual (CPN 523-0768039).



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INSPECTION/CHECK

TASK 34-50-96-200-801-A01

1. Introduction

- A. This section gives special instructions necessary to examine the condition of assemblies in this equipment. Refer to the Fits and Clearances section for applicable tolerances for parts that wear. For standard equipment checks, obey the procedures given in the Rockwell Collins Avionics Standard Shop Practices manual.

TASK 34-50-96-200-802-A01

2. Procedures

- A. Refer to all warnings and cautions in the General Advisories paragraph in the Introduction section of this manual. Refer to all warnings and cautions in the Rockwell Collins Avionics Standard Shop Practices manual.
- B. No special instructions are necessary for the inspection of this equipment.



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REPAIR

TASK 34-50-96-300-801-A01

1. Introduction

- A. This section provides repair information specifically for the TDR-94/94D ATC/Mode S Transponder. This includes the use of adhesives, sealants, lubricants, etc. Refer to Rockwell Collins Avionics Standard Shop Practices Instruction Manual for standard repair procedures.

TASK 34-50-96-300-802-A01

2. Repair Tools and Supplies

- A. Refer to Table 6001/Table 34-50-96-99A-029-A01 below for a list of adhesives, sealants, and lubricants that are used for repair of the TDR-94/94D.

DESCRIPTION	SUPPLIER	USE
Rosin-core solder (60% Sn/40% Pb)	Cen-Tri-Core energized rosin core or equivalent (CPN 005-0965-000 for a 1-lb spool)	General soldering
Acrylic coating	Columbia Technical Corp., HumiSeal 1B31 (CPN 821-0650-020 for 1-gallon container, CPN 821-0650-040 for 12-oz spray can)	Coat and seal repaired components on circuit board
Cleaning solvent	Barton Solvents Inc. Toluene (CPN 838-2528-010 for 1-gallon container)	Remove HumiSeal 1B31 from circuit cards
Cleaning solvent	Allied Signal Inc., Genesolv 2004M (CPN 838-2526-020 for 5-gallon container)	Remove flux residue from circuit cards
1-inch wide electrical tape (insulation)	CHR Ind. Inc., an ARMCO Co., New Haven, CT, CHR-K109 (CPN 014-1375-070)	Used on the RFPA chassis assembly to insulate areas of modulator cca A3 from the chassis. Used on -004 and -005 status Video Processor cca A6 to insulate Y100 from the circuit board.

Repair Materials Required. Cont.  
Table 6001/Table 34-50-96-99A-029-A01

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DESCRIPTION	SUPPLIER	USE
RTV adhesive	Dow Corning Corp., RTV-3145, (CPN 005-3167-010 for a 3-oz tube)	Used on the HVPS cca A1 to bond capacitors C1 through C14 to the circuit board. Used to bond RF beads to pins of connector P2 on cca A5A1 . Also used to bond Y1 to circuit board of cca A5A1, On -004 status Video Processor cca A6 used to bond Y100 to circuit board and RF beads to pins of connector P1. On -005 status Video Processor cca A6 used to bond Y100 and C123 to circuit board and RF beads to pins of connector P1. On -006 status Video Processor cca A6 used to C123 to circuit board and RF beads to pins of connector P1. On cca A7, used to bond numerous capacitors to circuit board.
Conductive adhesive	Emerson and Cuming Inc., Canton, MA, Eccodbond (CPN 005-0721-000), Specify size (quantity) when ordering.	Used to secure FL301 and FL302 to cca A2.
Uniset adhesive	Emerson and Cuming Specialty, Canton, MA, D-124F-1RED (CPN 838-0002-010). Supplied in 10 cc void-free syringes	Used to secure C129 to cca A2, CR227 and CR228 to cca A5, and several components on cca A6.
Heatsink compound	Dow Corning Corp., DC340-5OZ, (CPN 005-1234-020 for a 5-oz tube)	Applied to mounting surface of transistors Q102, Q103, Q104, and Q105 on cca A2.
Thread sealant	Loctite Corp., Vibratite (CPN 005-2308-0010), supplied in 10-cm3 bottles	Used to secure screws when no other locking means is provided.

Repair Materials Required. Cont.  
Table 6001/Table 34-50-96-99A-029-A01



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DESCRIPTION	SUPPLIER	USE
High temperature adhesive	Loctite Corp., Rocky Hill, CT, TAK PAK 38240 (CPN 005-0225-010) Supplied in 20-gram containers.	Used to bond wires to the circuit board on modulator cca A3.
Epoxy adhesive	Armstrong Adhesive, Easton, MA, A-12 "C" Kit (CPN 005-2826-010). Supplied in 2-ounce tubes of parts A and B.	Used on Video Processor cca A6 to bond C202 and R318 to circuit board.

Repair Materials Required.  
Table 6001/Table 34-50-96-99A-029-A01

TASK 34-50-96-300-803-A01

3. Procedures

**CAUTION: DO NOT ALLOW ANY HUMISEAL TO GET ON CONNECTOR OR IC SOCKET CONTACTS.**

- A. Refer to all warnings and cautions in the General Advisories paragraph in the Introduction section of this manual. Also refer to all warnings and cautions in the Rockwell Collins Avionics Standard Shop Practices manual.
- B. No special repair procedures are necessary for this equipment.
- C. Before you repair areas on the circuit cards, use Toluene to remove HumiSeal from those areas. After the repair, apply HumiSeal 1B31 to all repaired areas on the circuit cards.

TASK 34-50-96-300-804-A01

4. Electrically Programmable Integrated Circuits

- A. Electrically Programmable Read Only Memory (EPROM) integrated circuits are not available in a programmed condition. The repair center can program replaced EPROM devices at the circuit card level.
- B. Refer to the LRU EPROM Card Program Guide using JcAir FMS7000 manual (Rockwell Collins part number 523-0775960) for instructions on how to get software (PROM data). Refer to this same manual for instructions on how to program the EPROM devices.



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ASSEMBLY

TASK 34-50-96-440-801-A01

1. Introduction

- A. This section describes the assembly of the TDR-94/94D.

TASK 34-50-96-440-802-A01

2. Precautions and General Techniques

CAUTION: USE A HEATSINK ON THE SOLDER LEADS WHEN YOU PUT SOLDER ON OR REMOVE SOLDER FROM A SOLID-STATE PART. GROUND THE SOLDER EQUIPMENT TO PREVENT DAMAGE TO THE EQUIPMENT.

CAUTION: BEFORE REPLACING MODULES OR SUBASSEMBLIES, DISCONNECT POWER FROM THE TDR-94/94D. FAILURE TO COMPLY WILL CAUSE DAMAGE TO THE ELECTRICAL COMPONENTS.

- A. Refer to all warnings and cautions in the General Advisories paragraph of the Introduction section of this manual. Also refer to the Rockwell Collins Avionics Standard Shop Practices manual.
- B. Before you put solder on a part, use notes made when you disassembled the unit for color codes of wire insulation. Also, make sure about the position of leads.

TASK 34-50-96-400-801-A01

3. Assembly Procedures

SUBTASK 34-50-96-400-001-A01

A. General

CAUTION: BEFORE YOU START TO ASSEMBLE THE UNIT, MAKE SURE ELECTRICAL CONNECTIONS ARE GOOD, AND REPAIR ANY BENT ELECTRICAL PINS. CAREFULLY ATTACH CONNECTORS TO PREVENT DAMAGE TO CONNECTOR PINS.

- (1) Reassemble each of the major modules of the TDR-94/94D in the reverse order of disassembly. Make sure all shields and covers are firmly in place, and all screws are tight and secured. Refer to the Assembly Identification diagram in Figure 2/GRAPHIC 34-50-96-99B-002-A01 of the Description and Operation Section.

SUBTASK 34-50-96-440-002-A01

B. Installation of the RFPA Chassis and IF Receiver Chassis Assemblies to the Main Chassis Assembly

- (1) Be very careful when mounting the two side assemblies, the RFPA Chassis Assembly and the IF Receiver Chassis Assembly, to the center Main Chassis Assembly. These

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assemblies must seat completely and uniformly along the perimeters. In mating the two side chassis to the Main Chassis Assembly be sure to check the following:

- (a) Inspect all mating edges to make sure there are no obstructions, dirt, paint chips, wire clippings, solder deposits, etc, to prevent proper mating. HumiSeal or other coatings can prevent good RF grounding. If necessary, use a small flat-blade screwdriver, small stiff brush, or similar tool to lightly scrape and clean the mating edges to remove any obstructions.
- (b) As each side chassis is mounted to the center Main Chassis Assembly, make sure that the interconnecting cables are properly connected with the respective mating pin field or connector and are fully seated.
- (c) Lay the Main Chassis Assembly on its side and install one of the side chassis assemblies. It does not matter which side assembly you install first. These chassis assemblies fit together tightly for good RF shielding and heat transfer purposes.

**CAUTION: DO NOT USE THE SIX SCREWS (FOUR LONG AND TWO SHORT) TO DRAW THE TWO CHASSIS TOGETHER; YOU WILL LIKELY STRIP THE THREADS.**

- (d) Make sure each chassis is well seated before installing the screws.
- (e) When properly seated and the screws installed, you should be able to see no more than a paper-thin thickness of the unpainted metal along the top and bottom mating grooves. The groove should be no wider than two thicknesses of the cover stock used to bind this manual. (If you can fully insert three thicknesses of cover stock into the groove, the space is marginal.)
- (f) Use a thread sealant (refer to Repair section) to secure all screws when no other locking method is provided (i.e., lockwashers, self locking nuts, etc.).

TASK 34-50-96-400-802-A01

4. Storage

- A. Store the TDR-94/94D in its original packing material and shipping container. If placed in long term storage, the unit should be packaged in an air-tight plastic bag with sufficient desiccant to absorb moisture. At no time should the ambient temperature of the storage area fall below -55 °C (-67 °F) or rise above +85 °C (+185 °F). The relative humidity should never exceed 95 percent.
- B. When the unit is stored for an extended period of time, you must retest the unit before returning it to service. This is to make sure that possible component degradation has not affected performance.

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FITS AND CLEARANCES

TASK 34-50-96-99E-801-A01

1. Introduction

- A. This section gives the fits and clearances necessary for repair and assembly of the TDR-94/94D.

TASK 34-50-96-99E-802-A01

2. Procedures

- A. A list of clearances that should be observed when performing maintenance on the TDR-94/94D are shown in Table 8001/Table 34-50-96-99A-041-A01.

CIRCUIT BOARD	MAXIMUM LEAD PROTRUSION	MAXIMUM Z CLEARANCE		SPECIFIC COMPONENT CLEARANCES
		TOP	BOTTOM	
High Voltage Power Supply Circuit Card A1 (CPN 687-0721-002/-003)	0.100 in	0.750 in.	0.169 in. except for "X" contacts	"X" Contacts to be 0.453 ± 0.010 in. above bottom surface of circuit board.  Space between bottom of R1 to surface of circuit board to be 0.080 in. maximum.
Power Amplifier Circuit Card A2 (CPN 687-0722-003/-004)	0.100 in	0.350 in.	0.850 in.	Trim leads of CR203 thru CR206 to 0.15 in. before installing on circuit board.  Trim lead closest to tab of U101 to be flush with case of component.

Circuit Board Fits and Clearances Cont.  
Table 8001/Table 34-50-96-99A-041-A01

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CIRCUIT BOARD	MAXIMUM LEAD PROTRUSION	MAXIMUM Z CLEARANCE		SPECIFIC COMPONENT CLEARANCES
		TOP	BOTTOM	
Power Amplifier Circuit Card A2 (CPN 687-0722-003/-004) (cont.)				On the -003 status A2 circuit card only, elevate the bottom surface of C132 0.125 in. above surface of circuit card.
Modulator Circuit Card A3 (CPN 687-0723-004/-005)	0.060 in.	1.050 in.	0.166 in.	"X" Contacts to be 0.300 ± 0.010 in. above top surface of circuit board.  On the -005 status circuit board only, "Y" contacts are to be 0.390 ± 0.010 in. above top surface of circuit board.
Synthesizer Circuit Card A4 (CPN 687-0724-002/-003)	0.060 in. (-003 status circuit board)	0.460 in. (-002 status circuit board)  0.207 in. (-003 status circuit board)	0.400 in. (-002 status circuit board)  0.150 in. (-003 status circuit board)	Trim pin 8 of connector P5 to be flush to 0.20 above connector body.
CPU I/O Circuit Card A5A1 (CPN 828-2700-002/-003)	0.060 in.	0.310 in.	0.350 in. except for connector P2	Connector P2 to be 0.800 in. maximum above bottom surface of circuit board.  "X" Contacts to be 0.200 ± 0.010 in. above bottom surface of circuit board.

Circuit Board Fits and Clearances Cont.  
Table 8001/Table 34-50-96-99A-041-A01

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CIRCUIT BOARD	MAXIMUM LEAD PROTRUSION	MAXIMUM Z CLEARANCE		SPECIFIC COMPONENT CLEARANCES
		TOP	BOTTOM	
CPU I/O Circuit Card A5A1 (CPN 828-2700-002/-003) (cont.)				"Z" Contacts to be 0.300 ± 0.010 in. above top surface of circuit board.  "Y" Contacts to be 0.245 ± 0.010 in. above bottom surface of circuit board.  Trim contacts "X" and "Y" at locations J4-11, -12, -15, -16, -22, and -37 to be 0.030 in. maximum above top surface of circuit board.
Video Processor Circuit Card A6 (CPN 687-0726-004/-005/-006)	0.080 in.	0.927 in.	0.351 in.	
IF Receiver/DPSK/LVPS Circuit Card A7 (CPN 687-0727-004/-005)	0.080 in., except for U302 and U303	1.000 in.	0.155 in.	U302 and U303 maximum lead protrusion not to exceed 0.060 in.  Installed height of U302 and U303 not to exceed 0.250 in.  "X" Contacts to be 0.200 ± 0.010 in. above top surface of circuit board.

Circuit Board Fits and Clearances Cont.  
Table 8001/Table 34-50-96-99A-041-A01

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CIRCUIT BOARD	MAXIMUM LEAD PROTRUSION	MAXIMUM Z CLEARANCE		SPECIFIC COMPONENT CLEARANCES
		TOP	BOTTOM	
IF Receiver/DPSK/ LVPS Circuit Card A7 (CPN 687-0727- 004/-005) (cont.)				"Y" Contacts to be 0.300 ± 0.010 in. above top surface of circuit board.  Installed height of CR500 and Q105 to be 0.750 in. from top surface of circuit board to center of mounting hole on the component.

Circuit Board Fits and Clearances  
Table 8001/Table 34-50-96-99A-041-A01



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SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

TASK 34-50-96-94C-801-A01

1. Introduction

- A. This section lists all test equipment and tools required to test and troubleshoot the TDR-94/94D.

TASK 34-50-96-94C-802-A01

2. Standard Test Equipment

- A. Table 9001/Table 34-50-96-99A-030-A01 lists the standard test equipment required for testing and troubleshooting the TDR-94/94D. Equivalent equipment may be substituted.

TASK 34-50-96-94C-803-A01

3. Special Test Equipment

- A. Table 9002/Table 34-50-96-99A-032-A01 lists the special test equipment that is preferred for testing and troubleshooting the TDR-94/94D. Refer to Figure 1001/GRAPHIC 34-50-96-99B-020-A01 for the test setup diagram.
- B. Table 9003/Table 34-50-96-99A-042-A01 is a list of alternate special test equipment that may be used for testing and troubleshooting the TDR-94/94D. Refer to Figure 1002/GRAPHIC 34-50-96-99B-036-A01 for a test setup diagram.

EQUIPMENT	MANUFACTURER	CHARACTERISTIC	FUNCTION
Dc power supply, qty 3 is convenient for some tests - optional	Any	At least one should be capable of +5- V dc at 2 A. At least one should be capable of +28 V dc at 5 A	Power for TDR-94/94D and test equipment
Ac power supply	Any	115 V ac, 60-Hz, 5 A	Power for Test Equipment
Dvm	Fluke 8010A	3-1/2 digit accuracy	Measure ac and dc voltages
Oscilloscope	Tektronix 455, 2235, 2236	Dc to 10 MHz; dual trace, storage preferred	Measure serial logic levels

Standard Test Equipment Required.  
Table 9001/Table 34-50-96-99A-030-A01

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ITEM NO	EQUIPMENT	DESCRIPTION
1	IFR Model 1400A Mode-S Test Set (Updated for Extended Squitter Testing) or equivalent	For diversity and mode S interference testing in the FPT and DPT
2	IFR Model S-1403DL Mode-S Adapter With Multilevel Diversity; firmware version V03.02	For multilevel diversity testing
3	Computer	Pentium 133 MHz or better and with WIN95.
4	IEEE card	National Instruments PCI-GPIB Card; used in computer (item 3).
5	ARINC card	Condor CEI-520 Card 0; used in computer (item 3).
6	ATE chassis	Keithley Scanner Model 702; connects to TDR-94/94D Test Panel (item 10) through cables (item 19).
7	Card, Keithley 7156 (qty 5)	Installed in Keithley Scanner Chassis (item 6) to provide required functions. Ribbon cables are used for interconnections (see item 19).
8 & 9	Not used	
10	TDR-94/94D Test Panel	ASI CTS-940 test panel; Collins part number 628-8750-001; interconnects the unit under test (UUT) with the rest of the test equipment.
11	Cable assembly	Collins part number 628-8752-001 (REV A or higher); connects TDR-94/94D to test panel (item 10).
12	Cable assembly	Collins part number 628-8753-001 (REV A or higher); interconnects the computer-installed Smart Card (item 5) to P3, P4, P5, P6, and P15 on the test panel (item 10).
13	Cable assembly	Collins part number 628-8754-001; interconnects the computer-installed Contec PIO 24/24L card (item 14) to P11 on the test panel (item 10).
14	Card, input/output	I/O card NI; used in computer (item 3).

Special Test Equipment Required. (Preferred List) Cont.  
Table 9002/Table 34-50-96-99A-032-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
15	RF cable (qty 2)	<p>Pasternack PE3568-48; initially connects between the TDR-94/94D and the IFR test equipment (items 1 and 2) as follows:</p> <ol style="list-style-type: none"> <li>1. From ATC-1400C RF I/O to UUT bottom channel</li> <li>2. From S-1403DL RF I/O to UUT top channel (for TDR-94D)</li> <li>3. Disconnect and reconnect these cables as directed by procedures or software.</li> </ol>
16	Not used	
17	RF adapters (qty 2)	<p>Sealectro SMS-SMA Adapter 050-674-6204-890; used between one end of RF Cables (item 15) and the TDR-94/94D.</p>
18	Power supply	<p>Sorensen DCS40-25E; plugs into back of test panel (item 10).</p>
19	Cables, ribbon (qty 5)	<p>Keithley 7156-MTC-10 cable; interconnects cards in Keithley Scanner Chassis (item 6) and the TDR-94/94D Test Panel (item 10) as follows:</p> <ol style="list-style-type: none"> <li>1. Keithley card slot 5 to test panel P7</li> <li>2. Keithley card slot 6 to test panel P8</li> <li>3. Keithley card slot 7 to test panel P9</li> <li>4. Keithley card slot 8 to test panel P10</li> <li>5. Keithley card slot 9 to test panel P16</li> </ol>

Special Test Equipment Required. (Preferred List) Cont.  
Table 9002/Table 34-50-96-99A-032-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
20	Cables, coaxial (qty 4)	Pasternack PE3067-36; used to interconnect various test equipment (items 1, 2, 10, and 24):  <ol style="list-style-type: none"> <li>1. Connect a cable between ATC-1400C GEN OUTPUT and oscilloscope CH 1.</li> <li>2. Connect a cable between ATC-1400C XMTR OUTPUT and oscilloscope CH 2</li> <li>3. Connect a cable between ATC-1400C T-connector (item 29 on SUPPRESSOR jack) and oscilloscope AUX2.</li> <li>4. Connect a cable between ATC-1400C T-connector (item 29 on SUPPRESSOR jack) and TDR-94/94D test panel (item 10) SUPPRESSION jack.</li> </ol>
21	Interconnect cables (qty 4)	HP-10833B IEEE; used to "Daisy Chain" the IEEE card (item 4) with the Keithley Scanner (item 6), the ATC-1400C Mode S Test Set (item 1), the oscilloscope (item 24), and the S-1403-DL Mode-S Adapter with multilevel diversity (item 2).
22	Digital multimeter	Agilent 34401A or equivalent; used for various voltage readings.
23	Spectrum analyzer	Agilent E4408B or equivalent; for spectrum testing of the PA in the FPT and DPT.
24	Oscilloscope	Tektronix TDS-724D or equivalent, used for observing various signals.
25	20-dB directional coupler	Loral Narda 3002-20, 3042B-20 or equivalent.
26	40-dB attenuator	Pasternack PE7016 or equivalent.
27	Cable assembly (PN TBD)	Use to interconnect I/O Card (item 14) to cable assembly (item 13).
28	Cable assembly (PN TBD)	Used to interconnect Card 0 and Card 1 to cable assembly (item 12)
29	T-connector	T-BNC coaxial; used on item 1 (SUPPRESSOR jack) to connect 2 coaxial cables.

Special Test Equipment Required. (Preferred List) Cont.  
Table 9002/Table 34-50-96-99A-032-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
30	ARINC card	Condor CEI-520C Card 1; used in computer (item 3).
31	Printer	Epson FX-850 or equivalent.
32	TDR-94/94D Manual/ATE Test Software	Collins Disk P/N 815-5058-010; install Disk 1 and run SETUP procedure.
33	Time Tag Generator	CPN 983-8108-001 or equivalent. Provides a GPS Time Tag Signal conforming to Attachment 8 or ARINC-743-1 to test transponders that perform Extended Squitter Functions.

Special Test Equipment Required. (Preferred List)  
Table 9002/Table 34-50-96-99A-032-A01

ITEM NO	EQUIPMENT	DESCRIPTION
1	IFR Model 1400A Mode-S Test Set (Updated for Extended Squitter Testing) or equivalent	For diversity and mode S interference testing in the FPT and DPT
2	IFR Model S-1403DL Mode-S Adapter With Multilevel Diversity	For multilevel diversity testing
3	Computer	Pentium 133 MHz (with 2 full length ISA slots) or better and with WIN95.
4	IEEE card	National Instruments PCI-GPIB Card; used in computer (item 3).
5	ARINC (Smart) card	Collins part number 687-0793-001; used in computer (item 3).
6	ATE chassis	Keithley Scanner; connects to TDR-94/94D Test Panel (item 10) through cables (item 19).
7	Card, Keithley 7156 (qty 5)	Installed in Keithley Scanner Chassis (item 6) to provide required functions. Ribbon cables are used for interconnections (see item 19).
8 and 9	Not used	
10	TDR-94/94D Test Panel	Collins part number 628-8750-001; interconnects the unit under test (UUT) with the rest of the test equipment.

Special Test Equipment Required. (Alternate List) Cont.  
Table 9003/Table 34-50-96-99A-042-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
11	Cable assembly	Collins part number 628-8752-001 (REV A or higher); connects the TDR-94/94D to the test panel (item 10).
12	Cable assembly	Collins part number 628-8753-001 (REV A or higher); interconnects the computer-installed Smart Card (item 5) to P3, P4, P5, P6, and P15 on the test panel (item 10).
13	Cable assembly	Collins part number 628-8754-001; interconnects the computer-installed Contec PIO 24/24L card (item 14) to P11 on the test panel (item 10).
14	Card, input/output	Contec PIO 24/24L; used in computer (item 3).
15	RF cable (qty 2)	Pasternack PE3568-48; initially connects between the TDR-94/94D and the IFR test equipment (items 1 and 2) as follows: <ol style="list-style-type: none"> <li>1. From ATC-1400C RF I/O to UUT bottom channel</li> <li>2. From S-1403C RF I/O to UUT top channel (for TDR-94D)</li> </ol> <p>Disconnect and reconnect these cables as directed by procedures or software.</p>
16	Not used	
17	RF adapters (qty 2)	Sealectro SMS-SMA Adapter 050-674-6204-890; used between one end of RF Cables (item 15) and the TDR-94/94D.
18	Power supply	HP-6291A; plugs into back of test panel (item 10).

Special Test Equipment Required. (Alternate List) Cont.  
Table 9003/Table 34-50-96-99A-042-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
19	Cables, ribbon (qty 5)	Keithley 7156-MTC-10 cable; interconnects cards in Keithley Scanner Chassis (item 6) and the TDR-94/94D Test Panel (item 10) as follows:  <ol style="list-style-type: none"> <li>1. Keithley card slot 5 to test panel P7</li> <li>2. Keithley card slot 6 to test panel P8</li> <li>3. Keithley card slot 7 to test panel P9</li> <li>4. Keithley card slot 8 to test panel P10</li> <li>5. Keithley card slot 9 to test panel P16</li> </ol>
20	Cables, coaxial (qty 4)	Pasternack PE3067-36; used to interconnect various test equipment (items 1, 2, 10, and 24)  <ol style="list-style-type: none"> <li>1. Connect one cable between S-1403DL SYNC output and oscilloscope EXT TRIG input.</li> <li>2. Connect one cable between ATC-1400C XMTR OUTPUT and oscilloscope CH 1.</li> <li>3. Connect one cable between ATC-1400C GEN OUTPUT and oscilloscope CH 2.</li> </ol>
21	Interconnect cables (qty 4)	HP-10833B IEEE; used to "Daisy Chain" the IEEE card (item 4) with the Keithley Scanner (item 6), the ATC-1400C Mode S Test Set (item 1), the oscilloscope (item 24), and the S-1403-DL Mode-S Adapter with multilevel diversity (item 2).
22	Digital multimeter	Keithley 196; used for various voltage readings.
23	Spectrum analyzer	HP-8566A/TEK 2755AP/HP8592L (or equivalent); for spectrum testing of the PA in the FPT and DPT.
24	Oscilloscope	LeCroy 9370M, used for observing various signals.
25	20-dB directional coupler	Loral Narda 30-12B
26	40-dB attenuator	Pasternack PE7016

Special Test Equipment Required. (Alternate List) Cont.  
Table 9003/Table 34-50-96-99A-042-A01

**ROCKWELL COLLINS**  
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ITEM NO	EQUIPMENT	DESCRIPTION
27	TDR-94/94D Manual/ATE Test Software	Collins Disk P/N 831-0311-012; install Disk 1 and run SETUP procedure.
28	Time Tag Generator	CPN 983-8108-001 or equivalent. Provides a GPS Time Tag Signal conforming to Attachment 8 of ARINC-743A-1 to test transponders that perform Extended Squitter Functions.

Special Test Equipment Required. (Alternate List)  
Table 9003/Table 34-50-96-99A-042-A01

TASK 34-50-96-94D-802-A01

4. Tools

- A. Refer to the Rockwell Collins Avionics Standard Shop Practices Manual (CPN 523-0768039) for the tools necessary to disassemble, repair, and assemble the TDR-94/94D. Equivalent tools can be used if necessary.

TASK 34-50-96-94D-801-A01

5. Consumables

- A. Refer to Table 6001/Table 34-50-96-99A-029-A01 in the Repair section for all consumables used in the assembly, disassembly, and repair of the TDR-94/94D.



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ILLUSTRATED PARTS LIST

TASK 34-50-96-950-801-A01

1. Introduction

SUBTASK 34-50-96-950-001-A01

A. General

- (1) The purpose of this parts list is the identification and procurement of parts. The parts shown in this manual are aligned with important equipment specifications. Use only part numbers specified in this parts list as replacement parts.

SUBTASK 34-50-96-950-002-A01

B. How to Use This Illustrated Parts List

- (1) This Illustrated Parts List is broken down into six sections:
  - Manufacturer's Code, Name, and Address Index;
  - Equipment Designator Index;
  - Numerical Index;
  - Optional Vendor Index;
  - Detailed Parts List;
  - Equipment Designator Prefixes.
- (2) Refer to the following subtasks for a description of the six sections and how to use them.

SUBTASK 34-50-96-950-003-A01

C. Manufacturer's Code, Name, and Address Index

- (1) This index gives vendor data for the vendors shown in the Detailed Parts List. It includes the manufacturer's code, name, and address data.
  - (a) MFR CODE Column - CAGE/FSCM codes are shown in sequence by number.
  - (b) MANUFACTURER'S NAME AND ADDRESS Column - Gives the related manufacturers' names and addresses.

SUBTASK 34-50-96-960-001-A01

D. Equipment Designator Index

- (1) To find the illustration for a part if the equipment designator is known, refer to the Equipment Designator Index to find the equipment designator. Then go to the Detailed Parts List to find the figure and index number shown in the index.
  - (a) EQUIPMENT DESIGNATOR Column - Equipment designators are shown in alphanumeric sequence.
  - (b) FIG-ITEM Column - Numbers before the dash refer to the figure numbers. Numbers after the dash are item numbers.

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SUBTASK 34-50-96-970-001-A01

E. Numerical Index

- (1) To find the illustration for a part if the part number is known, refer to the Numerical Index to find the part number. Go to the Detailed Parts List to find the first figure and the index number shown in the Numerical Index for that part. If this figure shows a part of the equipment other than the one that is necessary, refer to the Numerical Index for other figure numbers.
  - (a) PART NUMBER Column - Part numbers are shown in alphanumeric sequence.
  - (b) AIRLINE PART NO Column - Part numbers will be included by the airlines when necessary.
  - (c) FIG-ITEM Column - Numbers before the dash refer to figure numbers. Numbers after the dash are item numbers.
  - (d) TTL REQ Column - The total quantity of parts or assemblies that are in the Detailed Parts List.

SUBTASK 34-50-96-980-001-A01

F. Optional Vendor Index

- (1) This index gives alternative vendors to the vendors shown in the Detailed Parts List. To find more vendors, find the Collins part number and then refer to the Optional Vendor Index. If a part has only one vendor, it is shown in the Detailed Parts List section.
  - (a) PART NUMBER Column - Shows the part numbers in sequence by number.
  - (b) VENDOR PART NO Column - Shows the part numbers that have a select-from-range grouping.
  - (c) VENDOR CODE Column - Shows the related CAGE/FSCM codes.
  - (d) TTL REQ Column - Shows the total quantity of parts or assemblies that are in the Detailed Parts List.

SUBTASK 34-50-96-950-004-A01

G. Detailed Parts List

- (1) To find a known part number in an assembly, identify the illustration that shows the parts of the assembly. On illustrations that contain a GEO LOC table, the components with reference designators are not shown with a leader. Mechanical components are shown with a leader. Use the GEO LOC table (vertical and horizontal location) or the index number on the illustration to find a part. Refer to the Equipment Designator Index to find the figure and index number for electrical parts. Refer to the Detailed Parts List to find the description of the part and the part number.

NOTE: Use Collins part numbers to get parts from Rockwell Collins.

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- (a) FIG-ITEM Column - Numbers before the dash refer to figure numbers. Numbers after the dash are item numbers given in sequence to agree with numbers on the illustration.
- (b) PART NUMBER Column - Shown are the MIL standard, the vendor, or the Collins part numbers. If a MIL standard or a vendor part number is shown, the equivalent Collins part number will be in the NOMENCLATURE Column.
- (c) AIRLINE PART NO Column - Part numbers will be included by the airlines when necessary.
- (d) INDENT Column - Items are coded 1, 2, 3, etc., to show the relationship to the next higher assembly.
- (e) NOMENCLATURE Column - Items in this column are:
  - Noun name
  - Modifier
  - Descriptive data
  - CAGE code (federal manufacturer's code)
  - Attaching part
  - Reference to other figures
  - Effectivities - (Identified by the methods in the paragraphs that follow.)
  - 1 OPTION TO - Shown in the preferred part number nomenclature, identifies as interchangeable with an alternate part in the same variant group (original item plus added items).
  - 2 MCN (Manufacturer Control Number) - 101 and up.
  - 3 CI (Configuration Identifier) - 5-digit number (YYMMD).
  - 4 REV (Revision Level Identifier) - Dash (-) is the initial unit, letter A is the first change, letter B is the second change, etc.

**NOTE:** A revision level identifier is on each chassis or assembly that can be replaced. Service Bulletins are identified by SB 1, SB 2, etc. Electrostatic Discharge Sensitive devices are identified by (ESDS). Refer to the Advisories paragraph in the introduction section of this manual for instructions to prevent damage when these parts are moved.
- (f) EFFECT CODE Column - Parts used in a group of equipment are identified by a letter code (A, B, C, etc.). When a code is not shown, the part applies to all models.
- (g) UNITS PER ASSY Column - Quantities specified are for each item number. Letters AR show the selection of parts "as required". Letters RF refer to a fully assembled component in a different figure and illustration.

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SUBTASK 34-50-96-950-005-A01

H. Equipment Designator Prefixes

- (1) Equipment designator prefixes are shown with the name, part number, figure-item number, and revision level at the time of print.

NAME/PREFIX	UNIT PART NUMBER	FIG-ITEM	CI/REV LTR
TDR-94D ATC/Mode S Transponder	622-9210-004	1-1	BD
TDR-94D ATC/Mode S Transponder	622-9210-005	1-1A	BD
TDR-94D ATC/Mode S Transponder	622-9210-006	1-1B	BD
TDR-94D ATC/Mode S Transponder	622-9210-007	1-1C	BD
TDR-94D ATC/Mode S Transponder	622-9210-008	1-1D	BD
TDR-94D ATC/Mode S Transponder	622-9210-108	1-1E	BD
TDR-94 ATC/Mode S Transponder	622-9352-004	1-1F	BB
TDR-94 ATC/Mode S Transponder	622-9352-005	1-1G	BB
TDR-94 ATC/Mode S Transponder	622-9352-006	1-1H	BB
TDR-94 ATC/Mode S Transponder	622-9352-007	1-1J	BB
TDR-94 ATC/Mode S Transponder	622-9352-008	1-1K	BB
TDR-94 ATC/Mode S Transponder	622-9352-108	1-1L	BB
TDR-94 ATC/Mode S Transponder	622-9352-207	1-1M	BK
TDR-94D ATC/Mode S Transponder	622-9210-207	1-1N	BK
TDR-94 ATC/Mode S Transponder	622-9352-309	1-1P	BM
TDR-94 ATC/Mode S Transponder	622-9352-409	1-1R	BM
TDR-94D ATC/Mode S Transponder	622-9210-309	1-1S	BM
TDR-94D ATC/Mode S Transponder	622-9210-409	1-1T	BM
TDR-94D ATC/Mode S Transponder	622-9210-308	1-1U	BN
TDR-94D ATC/Mode S Transponder	622-9210-408	1-1V	BN
TDR-94 ATC/Mode S Transponder	622-9352-308	1-1W	BN
TDR-94 ATC/Mode S Transponder	622-9352-408	1-1X	BN
TDR-94D ATC/Mode S Transponder	622-9210-310	1-1Y	BY
TDR-94D ATC/Mode S Transponder	622-9210-410	1-1Z	BY
TDR-94 ATC/Mode S Transponder	622-9352-310	1-2	BY
TDR-94 ATC/Mode S Transponder	622-9352-410	1-2A	BY
Chassis Assembly, RFPA	653-2255-001	2-1	AH
Chassis Assembly, RFPA	653-2255-003	2-1A	AH
Chassis Assembly, RFPA	653-2255-004	2-1B	AH
Chassis Assembly, RFPA	653-2255-005	2-1C	AH
Chassis Assembly, RFPA	653-2255-006	2-1D	AK
Chassis Assembly, Receiver	653-2256-005	3-1	AB
Chassis Assembly, Receiver	653-2256-006	3-1A	AB

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NAME/PREFIX	UNIT PART NUMBER	FIG-ITEM	CI/REV LTR
Chassis Assembly, Main	653-2254-011	4-1	AD
Chassis Assembly, Main	653-2254-012	4-1A	B
Chassis Assembly, Main	653-2254-015	4-1B	K
Chassis Assembly, Main	653-2254-016	4-1C	J
Chassis Assembly, Main	653-2254-017	4-1D	G
Chassis Assembly, Main	653-2254-018	4-1E	F
Chassis Assembly, Main	653-2254-019	4-1F	D
Chassis Assembly, Main	653-2254-020	4-1G	E
Chassis Assembly, Main	653-2254-021	4-1H	F
Chassis Assembly, Main	653-2254-022	4-1J	F
Chassis Assembly, Main	653-2254-023	4-1K	C
Chassis Assembly, Main	653-2254-024	4-1L	D

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NAME/PREFIX	UNIT PART NUMBER	FIG-ITEM	CI/REV LTR
Chassis Assembly, Main	653-2254-025	4-1M	A
Chassis Assembly, Main	653-2254-026	4-1N	A
Chassis Assembly, Main	653-2254-027	4-1P	B
Chassis Assembly, Main	653-2254-028	4-1R	B
Chassis Assembly, Main	653-2254-029	4-1S	B
Chassis Assembly, Main	653-2254-030	4-1T	B
Chassis Assembly, Main	653-2254-039	4-1U	-
Chassis Assembly, Main	653-2254-040	4-1V	-
Chassis Assembly, Main	653-2254-041	4-1W	-
Chassis Assembly, Main	653-2254-042	4-1X	-
Synthesizer Circuit Card A4	687-0724-003	5-1	D
Modulator Circuit Card A3	687-0723-005	6-1	B
Power Amplifier Circuit Card A2	687-0722-004	7-1	K
IF Receiver, DPSK Detector, and LVPS Circuit Card A7	687-0727-005	8-1	J
High Voltage Power Supply Circuit Card A1	687-0721-003	9-1	C
CPU-I/O Circuit Card A5	828-2700-002	10-1	M
CPU I/O Circuit Card A5	828-2700-003	11-1	C
Video Processor Circuit Card A6	687-0726-006	12-1	D
Power Amplifier Circuit Card A2	687-0722-003	13-1	AA
Modulator Circuit Card A3	687-0723-004	14-1	K
Synthesizer Assembly A4	687-0724-002	15-1	K
High Voltage Power Supply Circuit Card A1	687-0721-002	16-1	L
Video Processor Circuit Card A6	687-0726-004	17-1	R
Video Processor Circuit Card A6	687-0726-005	18-1	J
IF Receiver, DPSK Detector, and LVPS Circuit Card A7	687-0727-004	19-1	D
Video Processor Circuit Card A6	687-0726-007	20-1	B
CPU I/O Circuit Card A5	828-2700-004	21-1	A
Power Amplifier Circuit Card A2	687-0722-006	22-1	A
Test Select Resistor	653-0030-002	23-1	C
Test Select Resistor	653-0030-003	24-1	C





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**2. MANUFACTURER'S CODE, NAME AND ADDRESS INDEX**

MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
00136	VECTRON INTERNATIONAL 100 WATTS ST MOUNT HOLLY SPRINGS PA 17065-1821	07263	FAIRCHILD SEMICONDUCTOR CORP 333 WESTERN AVE SOUTH PORTLAND ME 04106
00204	ELECTRONIC COILS PO BOX 1536 22 MAIN LINE DRIVE WESTFIELD MA 01085	07980	AGILENT TECHNOLOGIES INC 150 GREEN POND RD ROCKAWAY NJ 07866-2004
00779	TYCO ELECTRONICS CORP/AMP DIV PO BOX 3608 HARRISBURG PA 17105	08JA0	MICROSEMI CORPORATION 75 TECHNOLOGY DR LOWELL MA 01851
00853	CORNELL-DUBILIER 140 TECHNOLOGY PL LIBERTY SC 29657	0BU16	DATA GRAPHICS INC 3800 PROGRESS BLVD MOUNT DORA FL 32757
01086	USE CAGE 1R4E4, LUND MFG CO 01086 CANCELLED	0C7V7	QP SEMI 2945 OAKMEAD VILLAGE CT SANTA CLARA CA 95051
01295	TEXAS INSTRUMENTS INC 12500 T I BLVD DALLAS TX 75243-0592	0EUG1	HIREL SYSTEMS LLC 140 CROSBY RD DOVER NH 03820-4371
019L2	MAC LEAN ESNA 611 COUNTRY CLUB ROAD POCAHONTAS AR 72455-0611	0FB81	S-MOS SYSTEMS INC 2460 N 1ST ST SAN JOSE CA 95131
02113	COILCRAFT 1102 SILVER LAKE RD CARY IL 60013	0GUF9	MRL MANUFACTURING 59 LEE AVE PATERSON NJ 07509-1201
02114	AMPEREX ELECTRONIC CORP 5083 KINGS HWY SAUGERTIES NY 12477	0J4Z0	ACTEL CORPORATION 2061 STIERLIN COURT MOUNTAIN VIEW CA 94043-4655
03550	VANGUARD ELECTRONICS INC 7412 PRINCE DR HUNTINGTON BEACH CA 92647	0P569	BARKER MICROFARADS INC 205 MILL ST HILLSVILLE VA 24343
04222	AVX/KYOCERA 801 17TH AVE S MYRTLE BEACH SC 29578-0867	0PJR2	APT-RF, MICROSEMI RF POWER PRODUCTS 3350 SCOTT BLVD, #27 SANTA CLARA CA 95054-3104
04713	FREESCALE SEMICONDUCTOR 2100 E ELLIOT RD TEMPE AZ 85284-1806	0S4G1	PRECISION DEVICES INC PO BOX 620155 MIDDLETON WI 53562-0155
04866	N-D INDUSTRIES INC 1893 BARRET RD TROY MI 48084-5369	0S6S8	MICRO CRYSTAL OBSOLETE PER BINCS ARLINGTON HEIGHTS IL 60005
06665	ANALOG DEVICES INC 1525 COMSTOCK ST SANTA CLARA CA 95054-3408	11236	CTS OF BERN 406 E PARR RD BERNE IN 46711-1251

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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
11402	HISONIC INC PO BOX 1130 OLATHE KS 66051	1ES66	MAXIM INTEGRATED PRODUCTS INC 120 SAN GABRIEL DR SUNNYVALE CA 94086
12294	MURATA ERIE NORTH AMERICA OBSOLETE PER BINCS TRENTON ONTAR CA K8V 5S1	1FN41	ATEL CORPORATION 2325 ORCHARD PARKWAY SAN JOSE CA 95131-1034
12954	MICROSEMI CORP-SCOTTSDALE 8700 E THOMAS RD SCOTTSDALE AZ 85251-5073	1GP79	PILGRIM SCREW CORP 1430 W 12TH PL TEMPE AZ 85281
12969	MICRO USPD INC 580 PLEASANT ST WATERTOWN MA 02472-2408	1MQ07	SEMICONDUCTOR COMPONENTS (ON SEMI) 5005 EAST MCDOWELL ROAD PHOENIX AZ 85008-4229
12998	QUALITY NAME PLATE INC PO BOX 308 EAST GLASTONBURY CT 06025-0308	1QY90	USE CAGE 05375, SIRENZA MICRODEVICES INC, 1QY90 CANCELED
13103	THERMALLOY INC 2700 RESEARCH DR, STE 200 PLANO TX 75381-0839	1W698	SIEMENS COMPONENTS INC 186 WOOD AVE S ISELIN NJ 08830-2704
14099	SEMTECH 652 MITCHELL ROAD NEWBURY PARK CA 91320-2211	20293	IRVING TOOL & MFG CO INC PO BOX 461586 GARLAND TX 75046
14552	MICROSEMI/SANTA ANA 2830 SO FAIRVIEW STREET SANTA ANA CA 92704	22526	FCI/BERG ELECTRONICS 825 OLD TRAIL RD ETTERS PA 17319
14936	GENERAL SEMICONDUCTOR INC 10 MELVILLE PARK RD MELVILLE NY 11747	22929	DALE ELECTRONICS INC 1155 W 23RD ST TEMPE AZ 85282-1822
15542	MINI-CIRCUITS LAB 13 NEPTUNE AVENUE BROOKLYN NY 11235	23730	MARK EYELET INC 18 PARK RD WATERTOWN CT 06795
16941	LONG-LOK FASTENERS CORP 10630 CHESTER RD CINCINNATI OH 45215	24355	ANALOG DEVICES INC. ONE TECHNOLOGY WAY NORWOOD MA 02062-2634
18324	PHILIPS SEMICONDUCTORS INC 811 E ARQUES AVE SUNNYVALE CA 94088-3409	24539	AGILENT TECHNOLOGIES INC 5301 STEVENS CREEK BOULEVARD SANTA CLARA CA 95051-7201
18796	MURATA ERIE NORTH AMERICA 1900 W COLLEGE AVE STATE COLLEGE PA 16801-2723	25120	PIEZO TECHNOLOGY INC 2525 SHADER RD ORLANDO FL 32804-2780
19505	RADIALL AEP, RADIALL AMERICA 104 JOHN W MURPHY DR NEW HAVEN CT 06513-3504	25403	PHILIPS CIRCUIT ASSEMBLIES 100 PROVIDENCE PIKE SLATERSVILLE RI 02876

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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
26618	PICONICS PO BOX 387 TYNGSBOROUGH MA 01879		



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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
26769	SPRAGUE PALM BEACH INC 5900 AUSTRALIAN AVE WEST PALM BEACH FL 33407	3N087	MILL-MAX MFG CORPORATION 190 PINE HOLLOW ROAD OYSTER BAY NY 11771-4711
27014	NATIONAL SEMICONDUCTOR CORP 2900 SEMICONDUCTOR DR SANTA CLARA CA 95051-0606	3RMR9	FERROXCUBE USA INC 12375-B PINE SPRINGS EL PASO TX 79927
27264	MOLEX INCORPORATED 2222 WELLINGTON CT LISLE IL 60532-1682	4V792	ROCKWELL COLLINS INC 400 COLLINS RD NE CEDAR RAPIDS IA 52498-0001
30983	MEPCOPAL CO 11525 SORRENTO VALLEY RD SAN DIEGO CA 92121	50101	MICROSEMI MICROWAVE PRODUCTS INC 75 TECHNOLOGY DRIVE LOWELL MA 01851-2729
31433	KEMET ELECTRONICS CORPORATION 2835 KEMET WAY SIMPSONVILLE SC 29681-2457	50434	AVAGO TECHNOLOGIES PTE 350 W TRIMBLE RD SAN JOSE CA 95131
32421	MICROWAVE SEMICONDUCTOR CORP 100 SCHOOL HOUSE RD SOMERSET NJ 08873-7254	50558	ELECTRONIC CONCEPTS INC 526 INDUSTRIAL WAY W EATONTOWN NJ 07724
32997	BOURNS INC 1200 COLUMBIA AVE RIVERSIDE CA 92507-2114	51406	MURATA ERIE NORTH AMERICA INC 2200 LAKE PARK DR SMYRNA GA 30080
33095	SPECTRUM CONTROL INC 8061 AVONIA RD FAIRVIEW PA 16415-2829	51506	ASM/ACCURATE SCREW MACHINE 10 AUDREY PLACE FAIRFIELD NJ 07004-3402
34335	ADVANCED MICRO DEVICES INC 901 THOMPSON PL SUNNYVALE CA 94086-3453	52648	PLESSEY TRADING CORP OBSOLETE PER BINCS IRVINE CA 92619
34371	INTERSIL CORPORATION 1001 MURPHY RANCH ROAD MILPITAS CA 95035-5680	52769	SPRAGUE-GOODMAN ELECTRONICS INC 1700 SHAMES DRIVE WESTBURY NY 11590
34576	ROCKWELL TELECOMMUNICATIONS 4311 JAMBOREE RD NEWPORT BEACH CA 92658-8902	53174	APX PLASTICS INC 615 109TH ST ARLINGTON TX 76011
34649	INTEL CORP 2200 MISSION COLLEGE BLVD SANTA CLARA CA 95052-8119	55322	SAMTEC INC PO BOX 1147 NEW ALBANY IN 47151-1147
34899	FAIR-RITE PRODUCTS CORP PO BOX J WALLKILL NY 12589-0288	55464	CENTRAL SEMICONDUCTOR CORP 145 ADAMS AVENUE HAUPPAUGE NY 11788
3KAH6	WJ COMMUNICATIONS 401 RIVER OAKS PARKWAY SAN JOSE CA 95134	56289	SPRAGUE ELECTRIC CO 678 MAIN ST SANFORD ME 04073

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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
56845	VISHAY DALE ELECTRONICS INC 2300 RIVERSIDE BLVD PO BOX 74 NORFOLK NE 68701-0074	63155	SYNERGY MICROWAVE CORPORATION 201 MCLEAN BLVD PATERSON NJ 07504-1000
56866	QUALITY THERMISTOR INC 2108 CENTURY WAY BOISE CITY ID 83709	64155	LINEAR TECHNOLOGY, DBA LINEAR EXPRESS 1630 MCCARTHY BLVD MILPITAS CA 95035-7417
57771	STIMPSON CO INC 900 SYLVAN AVE BAYPORT NY 11705-1012	65786	CYPRESS SEMICONDUCTOR INC 3901 N 1ST ST SAN JOSE CA 53072-5541
57863	NAS INTERPLEX INC 120-12 28TH AVENUE FLUSHING NY 11354	66886	ABELCONN LLC 9210 SCIENCE CENTER DR NEW HOPE MN 55428-3621
59124	KOA SPEER ELECTRONICS INC PO BOX 547 BRADFORD PA 16701	66958	STMICROELECTRONICS INC 10 MCGUIRE RD 3RD FL LEXINGTON CORP CENTER LEXINGTON MA 02421
59660	TUSONIX INC PO BOX 37144 TUCSON AZ 85740-7144	67041	TYCO ELECTRONICS/IDENTIFICATION 76 COMMERCIAL WAY EAST PROVIDENCE RI 02914
59993	INTERNATIONAL RECTIFIERS 233 KANSAS ST EL SEGUNDO CA 90245-4315	76978	MOTOROLA COMPONENT DIV CERAMIC PROD 4800 ALAMEDA BLVD NE ALBUQUERQUE NM 87113
60395	XICOR INC 1511 BUCKEYE DR MILPITAS CA 95035	78189	ITW SHAKEPROOF 10818 N 2ND ST MACHESNEY PARK IL 61115-1406
61271	FUJITSU 3545 N 1ST ST BLDG 1 SAN JOSE CA 95134-1804	79963	ZIERICK MFG CO 131 RADIO CIR MOUNT KISCO NY 10549
61722	EPSON AMERICA INC 3840 KILROY AIRPORT WAY LONG BEACH CA 90806	7D893	FAIRCHILD SEMICONDUCTOR 5401 W KENNEDY BLVD #1060 TAMPA FL 33609
61772	INTEGRATED DEVICE TECHNOLOGY 2975 STENDER WAY SANTA CLARA CA 95054	7J069	TDK 4015 W VINCENNES RD INDIANAPOLIS IN 46268-3008
62104	CALIFORNIA EASTERN LABS (CEL) 2013-B EAST PRAIRIE CIRCLE OLATHE KS 66062	7M138	UNITED CHEMI-CON INC 185 MCNEIL RD LANSING NC 28643
63020	CRESCENT MFG CO GEORGE WASHINGTON TURNPIKE BURLINGTON CT 06013	80205	NATIONAL AEROSPACE STANDARDS 1250 EYE ST NW WASHINGTON DC 20005

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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
80294	BOURNS INSTRUMENTS INC 1200 COLUMBIA AVE BLDG C RIVERSIDE CA 92507		
81349	MILITARY SPECIFICATIONS PROMULGATED BY MILITARY DEPARTMENTS/AGENCIES UNDER AUTHORITY OF DEFENSE STANDARDIZATION MANUAL 4120 3-M		
81483	INTERNATIONAL RECTIFIER 233 KANSAS ST EL SEGUNDO CA 90245-4316		
85446	BOKERS INCORPORATED 3104 SNELLING AVENUE MINNEAPOLIS MN 55406		
91293	JOHANSON MFG CORP 301 ROCKAWAY VALLEY RD BOONTON NJ 07005-9192		
91637	VISHAY AMERICAS 1122 23RD ST COLUMBUS NE 68601		
96341	M/A-COM INC. 1011 PAWTUCKET BLVD LOWELL MA 01854-1040		





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MFR CODE	MANUFACTURER'S NAME AND ADDRESS	MFR CODE	MANUFACTURER'S NAME AND ADDRESS
96906	MILITARY STANDARDS PROMULGATED BY MILITARY DEPARTMENTS UNDER AUTHORITY OF DEFENSE STANDARDIZATION MANUAL 4120 3-M		
98291	ITT CANNON/RF PRODUCTS 100 NEW WOOD RD WATERTOWN CT 06795		
99800	AMERICAN PRECISION INDUSTRIES INC 270 QUAKER RD EAST AURORA NY 14052-2114		
C6489	INFINEON TECHNOLOGIES AG ZENTRAL PO BOX 80 09 49 ST-MARTIN-STRASSE 53 MUENCHEN -- DE 81669		
K7766	BRITISH STANDARDS INSTITUTION 389 CHISICK HIGH ROAD LONDON UNITED KINGDOM W4 4AL		



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A1C1	9-89 16-89	A1C6	9-89 16-89	A1R27	9-43 16-43
A1C10	9-89 16-89	A1C7	9-89 16-89	A1R28	9-43 16-43
A1C11	9-89 16-89	A1C8	9-89 16-89	A1R29	9-45 16-45
A1C12	9-89 16-89	A1C9	9-89 16-89	A1R30	9-69 16-69
A1C13	9-89 16-89	A1CR1	9-29 16-29	A1R31	9-53 16-53
A1C14	9-89 16-89	A1CR2	9-27 16-27	A1R32	9-49 16-49
A1C15	9-89 16-89	A1CR20	9-31 16-31	A1R33	9-55 16-55
A1C16	9-89 16-89	A1CR21	9-95 16-95	A1R34	9-57 16-57
A1C17	9-89 16-89	A1FL1	9-103 16-103	A1R36	9-59 16-59
A1C2	9-91 16-91	A1L1	9-99 16-99	A1R37	9-51 16-51
A1C20	9-85 16-85	A1L2	9-5 16-5	A1R38	9-75 16-75
A1C21	9-85 16-85	A1L20	9-97 16-97	A1R39	9-37 16-37
A1C22	9-87 16-87	A1L21	9-97 16-97	A1R40	9-39 16-39
A1C24	9-81 16-81	A1P24	9-33 16-33	A1R41	9-47 16-47
A1C25	9-85 16-85	A1Q1	9-105 16-105	A1R42	9-61 16-61
A1C26	9-83 16-83	A1R1	9-35 16-35	A1R43	9-73 16-73
A1C27	9-93 16-93	A1R20	9-45 16-45	A1R44	9-43 16-43
A1C28	9-79 16-79	A1R21	9-67 16-67	A1R45	9-39 16-39
A1C29	9-109 16-109	A1R22	9-63 16-63	A1R46	9-47 16-47
A1C3	9-91 16-91	A1R23	9-71 16-71	A1T1	9-101 16-101
A1C30	9-111 16-21	A1R24	9-41 16-41	A1U1	9-23 16-23
A1C4	9-89 16-89	A1R25	9-41 16-41	A1U2	9-25 16-25

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A1U21	9-107 16-107		A2C117	7-143 13-105 22-275		A2C201	7-121 13-91 22-220
A2	2-25 2-25A 2-25B 2-25C 2-25D 7-1 13-1 22-1		A2C118	7-143 13-105 22-275		A2C203	7-135 13-99 22-255
A2314	13-91		A2C119	7-137 13-101 22-260		A2C204	7-135 13-99 22-255
A2C1	7-125 22-230		A2C120	7-143 13-105 22-275		A2C205	7-135 13-99 22-255
A2C101	7-135 13-99 22-255		A2C121	7-137 13-101 22-260		A2C206	7-135 13-99 22-255
A2C102	7-141 13-103 22-270		A2C122	7-137 13-101 22-260		A2C207	7-121 13-91 22-220
A2C103	7-125 13-95 22-230		A2C123	7-135 13-99 22-255		A2C301	7-121 13-91 22-220
A2C104	7-135 13-99 22-255		A2C124	7-135 13-99 22-255		A2C302	7-121 13-91 22-220
A2C106	7-143 13-105 22-275		A2C125	7-135 13-99 22-255		A2C303	7-121 13-91 22-220
A2C109	7-143 13-105 22-275		A2C126	7-125 13-95 22-230		A2C304	7-125 13-95 22-230
A2C110	7-143 13-105 22-275		A2C127	7-135 13-99 22-255		A2C305	7-125 13-95 22-230
A2C111	7-143 13-105 22-275		A2C128	7-125 13-95 22-230		A2C306	7-123 13-93 22-225
A2C112	7-143 13-105 22-275		A2C129	7-127 13-97 22-235		A2C307	7-125 13-95 22-230
A2C113	7-139 13-121 22-265		A2C130	7-131 13-109 22-245		A2C308	7-125 13-95 22-230
A2C114	7-143 13-105 22-275		A2C131	13-127		A2C309	7-123 13-93 22-225
A2C115	7-143 13-105 22-275		A2C132	7-129 13-115 22-240		A2C310	7-123 13-93 22-225
			A2C133	7-133 13-123 22-250		A2C311	7-125 13-95 22-230

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A2C312	7-123 13-93 22-225						
A2C313	7-121 13-91 22-220						
A2C314	7-121 13-91 22-220						
A2C315	7-121 13-91 22-220						
A2C316	7-119 13-89 22-215						
A2C317	7-125 13-95 22-230						
A2C318	13-129						
A2C319	13-125						
A2C320	7-121 22-220						
A2C321	7-121 22-220						
A2C322	7-125 22-230						
A2C323	7-125 22-230						
A2C324	7-121 22-220						
A2C325	7-121 22-220						
A2C401	7-119 13-89 22-215						
A2C402	7-119 13-89 22-215						
A2C403	7-119 13-89 22-215						
A2C404	7-119 13-89 22-215						
A2C405	7-119 13-89 22-215						
A2C406	7-119 13-89 22-215						



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A2C407	7-119 13-89 22-215	A2FL302	7-115 13-85 22-205	A2R101	7-93 13-55 22-165
A2C501	7-119 13-89 22-215	A2J13	7-35 13-35 22-110	A2R102	7-93 13-55 22-165
A2C502	7-119 13-89 22-215	A2L101	7-37 13-43 22-90	A2R103	7-93 13-55 22-165
A2C503	7-119 13-89 22-215	A2L102	7-37 13-43 22-90	A2R104	7-93 13-55 22-165
A2C504	7-119 13-89 22-215	A2L103	7-37 13-43 22-90	A2R105	7-79 13-45 22-130
A2C505	7-119 13-89 22-215	A2L104	7-37 13-43 22-90	A2R106	7-85 13-53 22-145
A2C506	7-119 13-89 22-215	A2L105	7-37 13-43 22-90	A2R107	7-77 13-41 22-125
A2CR1	7-31 22-100	A2L106	7-29 13-131 22-85	A2R108	7-93 13-133 22-165
A2CR101	13-117	A2L201	7-29 13-113 22-85	A2R109	7-93 13-133 22-165
A2CR201	7-33 13-33 22-105	A2L202	7-29 13-113 22-85	A2R110	7-89 13-111 22-155
A2CR203	7-145 13-107 22-280	A2L305	7-113 13-29 22-200	A2R201	7-81 13-49 22-135
A2CR204	7-145 13-107 22-280	A2L306	7-113 13-29 22-200	A2R202	7-81 13-49 22-135
A2CR205	7-145 13-107 22-280	A2Q101	7-103 13-81 22-190	A2R203	7-81 13-49 22-135
A2CR206	7-145 13-107 22-280	A2Q102	7-109 13-31 22-5	A2R204	7-81 13-49 22-135
A2CR207	7-33 13-33 22-105	A2Q103	7-5 13-5 22-25	A2R301	13-53
A2CR301	7-111 13-119 22-195	A2Q104	7-105 13-83 22-45	A2R302	7-59 13-57 22-120
A2CR302	7-111 13-119 22-195	A2Q105	7-107 13-79 22-65	A2R303	7-39 13-137 22-115
A2FL301	7-115 13-85 22-205			A2R304	7-59 13-57 22-120

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A2R305	7-95 13-51 22-170	A2U304	7-117 13-87 13-87B 22-210	A3C116	6-235 14-233
A2R306	7-91 13-39 22-160	A2U305	7-99 13-37 22-180	A3C117	6-233 14-231
A2R307	7-59 13-57 22-120	A2U306	7-101 13-77 22-185	A3C118	6-235 14-233
A2R308	7-39 13-137 22-115	A2U307	7-99 22-180	A3C119	6-233 14-231
A2R309	7-59 13-57 22-120	A2U308	7-99 22-180	A3C120	6-233 14-231
A2R310	7-95 13-51 22-170	A3	2-17 2-17A 6-1 14-1	A3C121	6-233 14-231
A2R311	7-91 13-39 22-160	A3283	6-87	A3C122	6-31 14-23
A2R312	13-157	A3C101	6-29 14-21	A3C123	6-199 14-197
A2R313	7-147 22-285	A3C102	6-199 14-197	A3C124	6-173 14-169
A2R314	7-87 22-150	A3C103	6-35 14-27	A3C125	6-233 14-231
A2R315	7-87 22-150	A3C104	6-233 14-231	A3C126	6-223 14-221
A2R316	7-83 22-140	A3C105	6-233 14-231	A3C127	6-231 14-229
A2R317	7-83 22-140	A3C106	6-199 14-197	A3C128	6-199 14-197
A2R318	7-95 22-170	A3C107	6-233 14-231	A3C129	6-199 14-197
A2R319	7-95 22-170	A3C108	6-199 14-197	A3C130	6-199 14-197
A2U101	7-97 13-75 22-175	A3C109	6-233 14-231	A3C131	6-33 14-25
A2U301	7-117 13-87 13-87B 22-210	A3C110	6-5 14-5	A3C132	6-237 14-235
A2U302	7-99 13-37 22-180	A3C111	6-173 14-169	A3C201	6-199 14-197
A2U303	7-101 13-77 22-185	A3C112	6-199 14-197	A3C202	6-199 14-197
		A3C113	6-199 14-197	A3C203	6-199 14-197
		A3C114	6-233 14-231	A3C205	6-199 14-197
		A3C115	6-3 14-7	A3C206	6-219 14-217
				A3C207	6-233 14-231



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A3C209	6-225 14-223		A3C237	6-197 14-195			
A3C210	6-233 14-231		A3C238	6-199 14-197			
A3C211	6-233 14-231						
A3C212	6-195 14-193						
A3C213	6-227 14-225						
A3C215	6-199 14-197						
A3C216	6-203 14-201						
A3C217	6-199 14-197						
A3C218	6-199 14-197						
A3C219	6-233 14-231						
A3C220	6-233 14-231						
A3C221	6-233 14-231						
A3C222	6-233 14-231						
A3C223	6-199 14-197						
A3C224	6-199 14-197						
A3C225	6-233 14-231						
A3C226	6-197 14-195						
A3C227	6-197 14-195						
A3C228	6-221 14-219						
A3C232	6-237						
A3C233	6-197 14-195						
A3C234	6-197 14-195						
A3C235	6-197 14-195						



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A3C241	6-199 14-197		A3C265	6-229 14-227		A3L201	6-37 14-29
A3C242	6-199 14-197		A3C266	6-229 14-227		A3L202	6-37 14-29
A3C243	6-233 14-231		A3CR101	6-189 14-187		A3L203	6-37 14-29
A3C244	6-197 14-195		A3CR102	6-189 14-187		A3L204	6-37 14-29
A3C245	6-197 14-195		A3CR202	6-189 14-187		A3L205	6-37 14-29
A3C246	6-197 14-195		A3CR203	6-71 14-67		A3L206	6-37 14-29
A3C247	6-197 14-195		A3CR204	6-189 14-187		A3L207	6-37 14-29
A3C248	6-201 14-199		A3CR205	6-189 14-187		A3L208	6-37 14-29
A3C249	6-233 14-231		A3CR206	6-189 14-187		A3L209	6-37 14-29
A3C250	6-233 14-231		A3CR207	6-189 14-187		A3L210	6-37 14-29
A3C251	6-233 14-231		A3CR208	6-189 14-187		A3L211	6-37 14-29
A3C252	6-35 14-27		A3CR209	6-73 14-69		A3L212	6-37 14-29
A3C253	6-197 14-195		A3CR210	6-67 14-63		A3L213	6-191 14-189
A3C254	6-197 14-195		A3CR211	6-189 14-187		A3L214	6-191 14-189
A3C255	6-233 14-231		A3CR212	6-69 14-65		A3L215	6-191 14-189
A3C256	6-233 14-231		A3CR214	6-73 14-69		A3L216	6-191 14-189
A3C257	6-199 14-197		A3CR215	6-189 14-187		A3L217	6-191 14-189
A3C258	6-233 14-231		A3CR216	6-189 14-187		A3L218	6-191 14-189
A3C259	6-199 14-197		A3CR218	6-189 14-187		A3L219	6-191 14-189
A3C260	6-197 14-195		A3CR219	6-71 14-67		A3L220	6-191 14-189
A3C261	6-197 14-195		A3CR220	6-189 14-187		A3L221	6-191 14-189
A3C263	6-199 14-197		A3CR221	6-189 14-187		A3L222	6-191 14-189

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A3L224	6-191 14-189	A3Q216	6-185 14-183	A3R120	6-131 14-127
A3Q101	6-63 14-59	A3Q217	6-187 14-185	A3R121	6-119 14-115
A3Q102	6-21 14-177	A3Q218	6-187 14-185	A3R122	6-89 14-85
A3Q103	6-17 14-53	A3Q219	6-61 14-57	A3R123	6-169 14-165
A3Q104	6-57 14-51	A3R101	6-77 14-73	A3R124	6-141 14-137
A3Q105	6-57 14-51	A3R102	6-135 14-129	A3R125	6-81 14-77
A3Q106	6-59 14-55	A3R103	6-117 14-113	A3R126	6-133 14-131
A3Q107	6-17 14-53	A3R104	6-135 14-129	A3R127	6-135 14-129
A3Q108	6-57 14-51	A3R105	6-85 14-81	A3R128	6-85 14-81
A3Q109	6-17 14-53	A3R106	6-81 14-77	A3R129	6-105 14-101
A3Q110	6-55 14-49	A3R107	6-133 14-131	A3R130	6-109 14-105
A3Q111	6-187 14-185	A3R108	6-141 14-137	A3R131	6-167 14-163
A3Q201	6-181 14-179	A3R109	6-77 14-73	A3R132	6-87 14-83
A3Q202	6-63 14-59	A3R110	6-171 14-167	A3R201	6-143 14-139
A3Q203	6-61 14-57	A3R111	6-119 14-115	A3R202	6-87 14-83
A3Q204	6-187 14-185	A3R112	6-157 14-153	A3R203	6-113 14-109
A3Q205	6-187 14-185	A3R113	6-89 14-85	A3R204	6-87 14-83
A3Q206	6-187 14-185	A3R114	6-125 14-121	A3R205	6-105 14-101
A3Q207	6-65 14-61	A3R115	6-137 14-133	A3R206	6-83 14-79
A3Q208	6-61 14-57	A3R116	6-115 14-111	A3R207	6-87 14-83
A3Q211	6-183 14-181	A3R117	6-119 14-115	A3R208	6-87 14-83
A3Q212	6-187 14-185	A3R118	6-83 14-79	A3R209	6-81 14-77

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A3R212	6-87 14-83	A3R236	6-113 14-109	A3R263	6-121 14-117
A3R213	6-87 14-83	A3R237	6-161 14-239	A3R264	6-115 14-111
A3R214	6-151 14-147	A3R238	6-151 14-147	A3R265	6-87 14-83
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A3R219	6-107 14-103	A3R247	6-87 14-83	A3R270	6-87 14-83
A3R221	6-161 14-157	A3R248	6-151 14-147	A3R271	6-103 14-99
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A3R223	6-81 14-77	A3R250	6-161 14-239	A3R273	6-81 14-77
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A3R289	6-87 14-83	A3TP115	6-39 14-31	A4C10	5-119 15-77
A3R290	6-131 14-127	A3TP116	6-39 14-31	A4C11	5-119 15-75
A3R291	6-87 14-83	A3TP117	6-39 14-31	A4C12	5-119 15-89
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A5C74	10-127 11-127 21-310	A5C9	10-89 11-85 21-210	A5CR15	10-37 11-39 21-110
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A5C76	10-129 11-129 21-315	A5C91	10-127 11-127 21-310	A5CR17	10-37 11-39 21-110
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A5RN48	10-83 11-79 21-195	A5U2	10-21 11-23 21-75	A5U6	10-99 11-95 21-235
A5RN49	10-83 11-79 21-195	A5U20	10-103 11-99 21-245	A5U7	10-99 11-95 21-235
A5RN5	10-83 11-79 21-195	A5U21	10-145 11-109 21-270	A5U8	10-23 11-25 21-80
A5RN6	10-83 11-79 21-195	A5U22	10-145 11-109 21-270	A5U9	10-93 11-89 21-220
A5RN7	10-83 11-79 21-195	A5U24	10-101 11-97 21-240	A5VR1	10-35 11-37 21-105
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A5VR31	10-121 11-121 21-295	A5VR5	10-35 11-37 21-105	A5Z12	10-15 11-11 21-20
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A5Z23	10-15 11-11 21-20		A5Z40	10-15 11-11 21-20			
A5Z24	10-15 11-11 21-20		A5Z41	10-125 11-125 21-305			
A5Z25	10-125 11-125 21-305						
A5Z26	10-15 11-11 21-20						
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A5Z31	10-15 11-11 21-20						
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A5Z46	10-15 11-11 21-20	A5Z61	10-125 11-125 21-305		
A5Z47	10-15 11-11 21-20	A5Z62	10-15 11-11 21-20		
A5Z48	10-15 11-11 21-20	A5Z7	10-15 11-11 21-20		
A5Z49	10-15 11-11 21-20	A5Z8	10-15 11-11 21-20		
A5Z5	10-125 11-125 21-305	A5Z9	10-125 11-125 21-305		
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A5Z51	10-15 11-11 21-20			A6C10	12-191 17-185 18-191 20-470
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A5Z54	10-15 11-11 21-20			A6C102	12-191 17-185 18-191 20-470
A5Z55	10-15 11-11 21-20			A6C103	12-191 17-185 18-191 20-470
A5Z56	10-15 11-11 21-20			A6C104	12-191 17-185 18-191 20-470
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A6C106	12-191 17-185 18-191 20-470	A6C119	12-141 17-133 18-139 20-345	A6C131	12-191 17-185 18-191 20-470
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A6C108	12-191 17-185 18-191 20-470	A6C120	12-145 17-137 18-143 20-355	A6C133	12-191 17-185 18-191 20-470
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A6C113	12-191 17-185 18-191 20-470	A6C126	12-145 17-137 18-143 20-355	A6C139	12-191 17-185 18-191 20-470
A6C114	12-191 17-185 18-191 20-470	A6C127	12-145 17-137 18-143 20-355	A6C14	12-191 17-185 18-191 20-470
A6C115	12-141 17-133 18-139 20-345	A6C128	12-145 17-137 18-143 20-355	A6C140	12-145 17-137 18-143 20-355
A6C116	12-141 17-133 18-139 20-345	A6C129	12-191 17-185 18-191 20-470	A6C141	12-145 17-137 18-143 20-355
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A6C16	12-191 17-185 18-191 20-470	A6C211	12-145 17-137 18-143 20-355	A6C233	12-187 17-181 18-187 20-460
A6C17	12-145 17-137 18-143 20-355	A6C212	12-145 17-137 18-143 20-355	A6C234	12-187 17-181 18-187 20-460
A6C171	12-145 17-137 18-143 20-355	A6C213	12-145 17-137 18-143 20-355		
A6C176	12-183 17-177 18-183 20-450	A6C214	12-145 17-137 18-143 20-355		
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A6C206	12-145 17-137 18-143 20-355	A6C223	12-145 17-137 18-143 20-355		
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A6C241	12-195 17-69 18-193 20-480	A6C36	12-145 20-355	A6C64	12-139 17-131 18-137 20-340
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A6C251	17-195	A6C49	12-147 17-139 18-145 20-360	A6C7	12-191 17-185 18-191 20-470
A6C26	12-191 17-185 18-191 20-470	A6C5	12-191 17-185 18-191 20-470	A6C73	12-189 17-183 18-189 20-465
A6C27	12-191 17-185 18-191 20-470	A6C50	12-137 17-129 18-135 20-335	A6C75	12-137 17-129 18-135 20-335
A6C28	12-191 17-185 18-191 20-470	A6C51	12-195 17-69 18-193 20-480	A6C78	12-145 17-137 18-143 20-355
A6C29	12-191 17-185 18-191 20-470	A6C52	12-195 17-69 18-193 20-480	A6C79	12-145 17-137 18-143 20-355
A6C3	12-191 17-185 18-191 20-470	A6C53	12-139 17-131 18-137 20-340	A6C8	12-145 17-137 18-143 20-355
A6C30	12-191 17-185 18-191 20-470	A6C55	12-189 17-183 18-189 20-465	A6C80	12-145 17-137 18-143 20-355
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A6C82	12-145 17-137 18-143 20-355	A6C95	17-197	A6CR18	12-59 17-59 18-61 20-110
A6C83	12-145 17-137 18-143 20-355	A6C96	12-145 17-137 18-143 20-355	A6CR19	12-59 17-59 18-61 20-110
A6C84	12-145 17-137 18-143 20-355	A6C97	12-145 17-137 18-143 20-355	A6CR2	12-59 17-59 18-61 20-110
A6C85	12-145 17-137 18-143 20-355	A6C98	17-183 18-189	A6CR20	12-59 17-59 18-61 20-110
A6C86	12-145 17-137 18-143 20-355	A6C99	17-183 18-189	A6CR206	12-163 17-155 18-161 20-400
A6C87	12-145 17-137 18-143 20-355	A6CR1	12-59 17-59 18-61 20-110	A6CR207	12-163 17-155 18-161 20-400
A6C88	12-145 17-137 18-143 20-355	A6CR10	12-59 17-59 18-61 20-110	A6CR208	12-163 17-155 18-161 20-400
A6C89	12-145 17-137 18-143 20-355	A6CR11	12-59 17-59 18-61 20-110	A6CR209	12-163 17-155 18-161 20-400
A6C9	12-191 17-185 18-191 20-470	A6CR12	12-59 17-59 18-61 20-110	A6CR21	12-59 17-59 18-61 20-110
A6C90	12-145 17-137 18-143 20-355	A6CR13	12-59 17-59 18-61 20-110	A6CR210	12-163 17-155 18-161 20-400
A6C91	12-145 17-137 18-143 20-355	A6CR14	12-59 17-59 18-61 20-110	A6CR211	12-163 17-155 18-161 20-400
A6C92	12-145 17-137 18-143 20-355	A6CR15	12-59 17-59 18-61 20-110	A6CR22	12-59 17-59 18-61 20-110
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A6CR48	12-163 17-155 18-161 20-400	A6CR60	12-59 17-59 18-61 20-110	A6CR73	12-59 17-59 18-61 20-110
A6CR49	12-163 17-155 18-161 20-400	A6CR61	12-59 17-59 18-61 20-110	A6CR74	12-59 17-59 18-61 20-110
A6CR5	12-59 17-59 18-61 20-110	A6CR62	12-59 17-59 18-61 20-110	A6CR75	12-59 17-59 18-61 20-110
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A6CR51	12-163 17-155 18-161 20-400	A6CR64	12-59 17-59 18-61 20-110	A6CR77	12-59 17-59 18-61 20-110
A6CR52	12-61 17-61 18-63 20-115	A6CR65	12-59 17-59 18-61 20-110	A6CR78	12-59 17-59 18-61 20-110
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A6CR86	12-59 17-59 18-61 20-110	A6P1	12-71 17-187 18-71	A6Q210	12-53 17-53 18-55 20-95
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A6L102	12-169 17-163 18-169 20-415	A6Q14	12-53 17-53 18-55 20-95	A6R1	12-81 17-73 18-79 20-195
A6L103	12-169 17-163 18-169 20-415	A6Q2	12-37 20-55	A6R100	12-91 17-83 18-89 20-220
A6L104	12-169 17-163 18-169 20-415	A6Q203	12-53 17-53 18-55 20-95	A6R101	12-91 17-83 18-89 20-220
A6L106	12-171 17-165 18-171 20-420	A6Q204	12-53 17-53 18-55 20-95	A6R102	12-91 17-83 18-89 20-220
A6L5	12-171 17-165 18-171 20-420	A6Q205	12-53 17-53 18-55 20-95	A6R103	12-91 17-83 18-89 20-220

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A6R104	12-91 17-83 18-89 20-220		A6R122	12-197 20-485			
A6R105	12-91 17-83 18-89 20-220		A6R123	12-197 20-485			
A6R106	12-91 17-83 18-89 20-220		A6R124	12-197 20-485			
A6R107	12-197 20-485		A6R125	12-197 20-485			
A6R108	12-197 20-485		A6R126	12-197 20-485			
A6R109	12-197 20-485		A6R127	12-197 20-485			
A6R11	12-83 17-75 18-81 20-200		A6R128	12-197 20-485			
A6R110	12-197 20-485		A6R129	12-197 20-485			
A6R111	12-197 20-485		A6R14	12-109 17-101 18-107 20-265			
A6R112	12-197 20-485		A6R16	12-79 17-71 18-77 20-190			
A6R113	12-197 20-485		A6R17	12-111 20-270			
A6R114	12-197 20-485		A6R18	12-107 17-99 18-105 20-260			
A6R115	12-197 20-485		A6R19	12-79 17-71 18-77 20-190			
A6R116	12-197 20-485						
A6R117	12-67 17-65 18-67 20-125						
A6R118	12-67 17-65 18-67 20-125						
A6R119	12-197 20-485						
A6R120	12-197 20-485						
A6R121	12-197 20-485						





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A6R2	12-81 17-73 18-79 20-195	A6R242	12-91 17-83 18-89 20-220	A6R29	12-95 17-87 18-93 20-230
A6R20	12-81 17-73 18-79 20-195	A6R243	12-91 17-83 18-89 20-220	A6R294	12-93 17-85 18-91 20-225
A6R21	12-103 17-95 18-101 20-250	A6R249	12-91 17-83 18-89 20-220	A6R296	12-93 17-85 18-91 20-225
A6R211	12-87 17-79 18-85 20-210	A6R25	12-93 17-85 18-91 20-225	A6R3	12-81 17-73 18-79 20-195
A6R216	12-93 17-85 18-91 20-225	A6R256	12-91 17-83 18-89 20-220	A6R30	12-95 17-87 18-93 20-230
A6R22	12-91 17-83 18-89 20-220	A6R26	12-197 20-485	A6R31	12-91 17-83 18-89 20-220
A6R221	12-83 17-75 18-81 20-200	A6R265	12-83 17-75 18-81 20-200	A6R311	12-103 17-95 18-101 20-250
A6R227	12-207 17-71 18-77 20-505	A6R267	12-85 17-77 18-83 20-205	A6R313	12-83 17-75 18-81 20-200
A6R228	12-79 17-71 18-77 20-190	A6R27	12-105 17-97 18-103 20-255	A6R314	12-91 17-83 18-89 20-220
A6R23	12-91 17-83 18-89 20-220	A6R271	12-101 17-93 18-99 20-245	A6R316	12-79 17-71 18-77 20-190
A6R230	12-207 17-71 18-77 20-505	A6R28	12-95 17-87 18-93 20-230	A6R317	12-205 20-500
A6R232	12-99 17-91 18-97 20-240	A6R282	12-107 17-99 18-105 20-260	A6R318	12-205 20-500
A6R24	12-99 17-91 18-97 20-240	A6R283	12-79 17-71 18-77 20-190	A6R32	12-91 17-83 18-89 20-220
A6R241	12-83 17-75 18-81 20-200	A6R286	12-83 17-75 18-81 20-200	A6R33	12-197 20-485
				A6R34	12-87 17-79 18-85 20-210

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A6R35	12-81 12-119 20-195	A6R52	12-197 20-485	A6R67	12-111 17-103 18-109 20-270
A6R36	12-111 20-270	A6R53	12-93 17-85 18-91 20-225	A6R68	12-111 17-103 18-109 20-270
A6R37	12-81 17-73 18-79 20-195	A6R54	12-109 17-101 18-107 20-265	A6R69	12-197 17-75 18-81 20-485
A6R38	12-111 20-270	A6R55	12-93 17-85 18-91 20-225	A6R70	12-197 17-75 18-81 20-485
A6R39	12-111 20-270	A6R56	12-79 17-71 18-77 20-190	A6R71	12-79 17-71 18-77 20-190
A6R4	12-81 17-73 18-79 20-195	A6R57	12-79 17-71 18-77 20-190	A6R72	12-197 17-201 20-485
A6R40	12-197 20-485	A6R58	12-79 17-71 18-77 20-190	A6R73	12-197 17-203 20-485
A6R41	12-119 12-197 20-485	A6R59	12-197 20-485	A6R74	12-197 17-205 20-485
A6R42	12-197 20-485	A6R60	12-197 20-485	A6R75	12-79 17-207 20-190
A6R43	12-105 17-97 18-103 20-255	A6R61	12-101 17-93 18-99 20-245	A6R76	12-83 17-75 18-81 20-200
A6R44	12-91 17-83 18-89 20-220	A6R62	12-81 17-73 18-79 20-195	A6R77	12-83 17-75 18-81 20-200
A6R45	12-95 17-87 18-93 20-230	A6R63	12-81 17-73 18-79 20-195	A6R78	12-83 17-75 18-81 20-200
A6R46	12-95 17-87 18-93 20-230	A6R64	12-79 17-71 18-77 20-190	A6R79	12-83 17-75 18-81 20-200
A6R47	12-197 20-485	A6R65	12-79 17-71 18-77 20-190	A6R80	12-79 17-71 18-77 20-190
A6R48	12-95 17-87 18-93 20-230	A6R66	12-81 17-73 18-79 20-195	A6R81	12-79 17-71 18-77 20-190
A6R49	12-197 20-485				
A6R50	12-197 20-485				
A6R51	12-197 20-485				

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A6R82	12-95 17-87 18-93 20-230		A6R96	12-97 17-89 18-95 20-235			
A6R83	12-95 17-87 18-93 20-230		A6R97	12-113 17-105 18-111 20-275			
A6R84	12-97 17-89 18-95 20-235		A6R98	12-95 17-87 18-93 20-230			
A6R85	12-89 17-81 18-87 20-215		A6R99	12-91 17-83 18-89 20-220			
A6R86	12-197 17-71 18-77 20-485		A6U1	12-123 17-115 18-121 20-300			
A6R87	12-79 17-71 18-77 20-190		A6U10	12-123 17-115 18-121 20-300			
A6R88	12-79 17-71 18-77 20-190		A6U101	12-47 17-43 18-45 20-80			
A6R89	12-79 17-71 18-77 20-190						
A6R90	12-79 17-71 18-77 20-190						
A6R91	12-79 17-71 18-77 20-190						
A6R92	12-131 17-123 18-129 20-320						
A6R93	12-83 17-75 18-81 20-200						
A6R94	12-83 17-75 18-81 20-200						
A6R95	12-79 17-71 18-77 20-190						



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A6U103	12-47 17-43 18-45 20-80	A6U203	12-149 17-141 18-147 20-365	A6U36	12-129 17-121 18-127 20-315
A6U104	12-161 17-153 18-159	A6U204	12-149 17-141 18-147 20-365	A6U37	12-121 17-113 18-119 20-295
A6U108	12-157 17-49 18-51 20-385	A6U205	12-149 17-141 18-147 20-365	A6U38	12-5 17-7 18-7 20-5
A6U109	12-157 17-49 18-51 20-385	A6U208	12-149 17-141 18-147 20-365	A6U39	12-151 17-143 18-149 20-370
A6U11	12-121 17-113 18-119 20-295	A6U214	12-149 17-141 18-147 20-365	A6U4	12-123 17-115 18-121 20-300
A6U116	12-159 17-149 18-155 20-390	A6U215	12-49 17-145 18-151 20-85	A6U40	12-151 17-143 18-149 20-370
A6U118	12-153 17-147 18-153 20-375	A6U24	12-41 17-45 18-47 20-65	A6U41	12-119 17-111 18-117 20-290
A6U12	12-47 17-43 18-45 20-80	A6U29	12-51 17-47 18-49 20-90	A6U42	12-127 17-119 18-125 20-310
A6U121	12-201 17-51 18-53 20-490	A6U3	12-47 17-43 18-45 20-80	A6U43	12-125 17-117 18-123 20-305
A6U128	12-115 17-107 18-113 20-280	A6U30	17-151 18-157	A6U44	12-47 17-43 18-45 20-80
A6U13	12-43 20-70	A6U31	17-209	A6U45	12-47 17-43 18-45 20-80
A6U14	12-45 20-75	A6U32	17-211	A6U46	12-129 17-121 18-127 20-315
A6U15	20-395	A6U33	12-127 17-119 18-125 20-310	A6U5	12-121 17-113 18-119 20-295
A6U16	12-155 20-380	A6U34	12-125 17-117 18-123 20-305	A6U6	12-47 17-43 18-45 20-80
A6U17	12-39 20-60	A6U35	12-119 17-111 18-117 20-290		
A6U2	12-121 17-113 18-119 20-295				

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A6U7	12-123 17-115 18-121 20-300	A6VR4	12-165 17-157 18-163	A6Z18	12-175 17-39 18-41 20-430
A6U8	12-121 17-113 18-119 20-295	A6VR5	12-167 17-159 18-165 20-410	A6Z19	12-175 17-39 18-41 20-430
A6U9	12-47 17-43 18-45 20-80	A6VR6	12-57 17-57 18-59 20-105	A6Z2	12-175 17-39 18-41 20-430
A6VR1	12-165 17-157 18-163	A6VR7	12-165 17-157 18-163	A6Z20	12-177 17-169 18-175 20-435
A6VR10	12-165 17-157 18-163	A6VR8	12-165 17-157 18-163	A6Z21	12-175 17-39 18-41 20-430
A6VR11	12-165 17-157 18-163	A6VR9	12-165 17-157 18-163	A6Z22	12-175 17-39 18-41 20-430
A6VR12	12-165 17-157 18-163	A6Y100	17-41 18-43	A6Z23	12-175 17-39 18-41 20-430
A6VR13	12-165 17-157 18-163	A6Z1	12-175 17-39 18-41 20-430	A6Z24	12-177 17-169 18-175 20-435
A6VR14	12-165 17-157 18-163	A6Z10	12-175 17-39 18-41 20-430	A6Z25	12-175 17-39 18-41 20-430
A6VR15	12-165 17-157 18-163	A6Z11	12-175 17-39 18-41 20-430	A6Z26	12-175 17-39 18-41 20-430
A6VR16	12-165 17-157 18-163	A6Z13	12-175 17-39 18-41 20-430	A6Z27	12-175 17-39 18-41 20-430
A6VR17	12-165 17-157 18-163	A6Z14	12-175 17-39 18-41 20-430	A6Z28	12-177 17-169 18-175 20-435
A6VR18	12-167 17-159 18-165 20-410	A6Z15	12-175 17-39 18-41 20-430	A6Z29	12-175 17-39 18-41 20-430
A6VR19	12-165 17-157 18-163 20-405	A6Z16	12-177 17-169 18-175 20-435	A6Z3	12-175 17-39 18-41 20-430
A6VR2	12-165 17-157 18-163	A6Z17	12-175 17-39 18-41 20-430		
A6VR3	12-165 17-161 18-167				

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A6Z30	12-175 17-39 18-41 20-430		A6Z44	12-177 17-169 18-175 20-435			
A6Z31	12-175 17-39 18-41 20-430		A6Z45	12-175 17-39 18-41 20-430			
A6Z33	12-175 17-39 18-41 20-430		A6Z46	12-175 17-39 18-41 20-430			
A6Z34	12-175 17-39 18-41 20-430		A6Z47	12-175 17-39 18-41 20-430			
A6Z35	12-175 17-39 18-41 20-430						
A6Z36	12-177 17-169 18-175 20-435						
A6Z37	12-175 17-39 18-41 20-430						
A6Z38	12-175 17-39 18-41 20-430						
A6Z39	12-175 17-39 18-41 20-430						
A6Z4	12-177 17-169 18-175 20-435						
A6Z40	12-177 17-169 18-175 20-435						
A6Z41	12-175 17-39 18-41 20-430						
A6Z42	12-175 17-39 18-41 20-430						
A6Z43	12-175 17-39 18-41 20-430						





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A6Z48	12-177 17-169 18-175 20-435	A6Z7	12-175 17-39 18-41 20-430	A7C115	8-279 19-283
A6Z49	12-175 17-39 18-41 20-430	A6Z8	12-177 17-169 18-175 20-435	A7C116	8-279 19-311
A6Z5	12-175 17-39 18-41 20-430	A6Z9	12-175 17-39 18-41 20-430	A7C117	8-327 19-329
A6Z50	12-175 17-39 18-41 20-430	A7	3-25 3-25A 8-1 19-1	A7C118	8-327 19-301
A6Z51	12-175 17-39 18-41 20-430	A7C1	8-295	A7C119	8-279 19-317
A6Z52	12-177 17-169 18-175 20-435	A7C10	8-309	A7C12	8-313
A6Z53	12-175 17-39 18-41 20-430	A7C100	8-303 19-313	A7C120	8-279 19-215
A6Z54	12-175 17-39 18-41 20-430	A7C101	8-303	A7C121	8-279 19-297
A6Z55	12-175 17-39 18-41 20-430	A7C102	8-293 19-301	A7C122	8-279 19-307
A6Z56	12-177 17-169 18-175 20-435	A7C103	8-279 19-301	A7C123	8-279 19-313
A6Z57	12-175 17-39 18-41 20-430	A7C104	8-281 19-315	A7C124	8-279 19-299
A6Z58	12-175 17-39 18-41 20-430	A7C105	8-311 19-215	A7C125	8-279 19-297
A6Z59	12-175 17-39 18-41 20-430	A7C106	8-311 19-215	A7C126	8-293 19-271
A6Z6	12-175 17-39 18-41 20-430	A7C107	8-311 19-297	A7C127	8-293 19-289
		A7C108	8-279 19-301	A7C128	8-293 19-289
		A7C109	8-279 19-301	A7C129	8-293
		A7C11	8-219	A7C13	8-219
		A7C110	8-281 19-311	A7C130	8-293 19-283
		A7C111	8-307 19-307	A7C131	8-293 19-215
		A7C112	8-279 19-297	A7C132	8-293 19-215
		A7C113	8-279 19-297	A7C133	8-293 19-313
		A7C114	8-279 19-297	A7C134	8-293 19-13
				A7C135	8-293 19-283
				A7C136	8-295 19-301

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A7C137	8-293 19-301	A7C161	8-287	A7C200	8-279 19-301
A7C138	8-293 19-311	A7C162	8-311	A7C201	8-339 19-297
A7C139	8-293 19-307	A7C165	8-279	A7C202	8-279 19-305
A7C14	8-333	A7C169	8-279	A7C203	8-279 19-279
A7C140	8-279 19-297	A7C17	8-279	A7C204	8-279 19-301
A7C141	8-279 19-297	A7C170	8-279	A7C205	8-279 19-301
A7C142	8-279 19-297	A7C171	8-279	A7C206	8-279 19-297
A7C143	19-297	A7C172	8-279	A7C207	8-279 19-297
A7C144	8-279 19-311	A7C173	8-279	A7C208	8-279 19-307
A7C145	8-279 19-329	A7C174	8-279	A7C209	8-279 19-307
A7C146	8-293	A7C175	8-279	A7C21	8-291
A7C147	8-293 19-307	A7C176	8-279	A7C210	8-279 19-17
A7C148	8-279 19-315	A7C18	8-279	A7C211	8-279 19-301
A7C149	8-279 19-317	A7C180	8-279	A7C212	19-297
A7C15	8-279	A7C181	8-335	A7C213	8-321 19-277
A7C150	8-279 19-215	A7C182	8-337	A7C214	8-297 19-307
A7C151	8-279 19-297	A7C183	8-293	A7C215	8-297 19-301
A7C152	8-279 19-297	A7C184	8-295	A7C216	8-321 19-299
A7C153	8-279 19-299	A7C185	8-295	A7C217	8-285 19-301
A7C154	8-279 19-313	A7C186	8-295	A7C218	8-279 19-289
A7C155	19-297	A7C187	8-295	A7C219	19-307
A7C157	8-279 19-299	A7C188	8-323	A7C22	8-293
A7C158	8-279	A7C189	8-279	A7C220	8-285 19-325
A7C159	8-219 19-17	A7C19	8-279	A7C221	19-299
A7C16	8-295	A7C190	8-279	A7C222	19-15
A7C160	8-287 19-301	A7C191	8-325	A7C223	19-301
		A7C193	8-279		
		A7C194	8-279		
		A7C195	8-279		
		A7C196	8-279		
		A7C197	8-279		
		A7C198	8-279		
		A7C199	8-279		
		A7C2	8-293		
		A7C20	8-291		

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A7C225	19-289				
A7C226	8-279 19-301				
A7C227	8-293 19-271				
A7C228	8-293 19-289				



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A7C230	8-279 19-301		A7C28	8-295		A7C38	8-219
A7C231	19-301		A7C3	8-293		A7C39	8-279
A7C232	19-297		A7C30	8-305		A7C4	8-295
A7C233	19-283		A7C300	19-297		A7C40	8-219
A7C234	19-277		A7C301	19-317		A7C400	19-285
A7C235	19-297		A7C302	19-283		A7C401	19-301
A7C236	19-17		A7C303	19-211		A7C402	19-301
A7C237	19-305		A7C304	19-283		A7C403	19-301
A7C238	19-297		A7C305	19-299		A7C404	19-279
A7C239	19-301		A7C306	8-293 19-319		A7C405	19-279
A7C24	8-295		A7C307	8-279 19-281		A7C406	19-301
A7C240	19-297		A7C308	19-281		A7C407	19-297
A7C241	19-13		A7C309	19-299		A7C408	19-15
A7C242	19-325		A7C31	8-305		A7C409	19-299
A7C243	19-299		A7C310	19-301		A7C41	8-279
A7C244	19-279		A7C311	19-279		A7C410	19-297
A7C245	19-307		A7C312	19-279		A7C411	19-301
A7C246	19-307		A7C313	19-299		A7C412	19-301
A7C247	19-301		A7C314	19-301		A7C413	19-301
A7C248	19-297		A7C315	19-301		A7C414	19-281
A7C249	19-297		A7C316	19-279		A7C415	19-281
A7C25	8-293		A7C317	19-279		A7C416	19-301
A7C250	19-301		A7C318	19-301		A7C417	19-301
A7C252	19-307		A7C319	19-277		A7C418	19-295
A7C253	19-17		A7C32	8-293		A7C419	19-271
A7C254	19-307		A7C320	19-281		A7C42	8-279
A7C255	19-301		A7C321	19-301		A7C420	19-293
A7C256	19-17		A7C322	19-281		A7C421	19-283
A7C257	19-301		A7C33	8-293		A7C422	19-295
A7C259	19-301		A7C34	8-279		A7C423	19-277
A7C26	8-219		A7C35	8-219		A7C424	19-293
A7C260	19-301		A7C352	19-317		A7C425	19-299
A7C261	19-299		A7C36	8-295		A7C426	19-283
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A7CR204	19-59			A7L200	19-249
A7CR205	19-71			A7L201	19-259
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