

REVISED=2005 = 1722		CARD 2		CARD 9		DATE 07/25/86		Turn Around Parts List	
TITLE		RANTHEON APPROVAL		CONTRACT NUMBER		SHEET 1 OF 16		WORKORDER	
CARD 1		CARD 2		CARD 3		CARD 4		CARD 5	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT9628-76-C-0155		TITLE		M:6 DATA BASE CONTROL	
01		02		03		04		05	
CIRCUIT CARD ASSY		B-HC-MBT		FT96					

[illegible]

PLSP-PROD = 1822

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CARD 7

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CARD 312

CARD 313

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REVISED-2806 = TACC		DATE 02/25/80		Turn Around Parts List	
ITEM	QTY	DATE	REV	REV	DATE
QTY	DATE	REV	REV	REV	DATE
01 CIRCUIT CARD ASSY	1	02/25/80	1	02/25/80	1
02 315116	1	02/25/80	1	02/25/80	1
03 315116	1	02/25/80	1	02/25/80	1
04 315116	1	02/25/80	1	02/25/80	1
05 315116	1	02/25/80	1	02/25/80	1
06 315116	1	02/25/80	1	02/25/80	1
07 315116	1	02/25/80	1	02/25/80	1
08 315116	1	02/25/80	1	02/25/80	1
09 315116	1	02/25/80	1	02/25/80	1
10 315116	1	02/25/80	1	02/25/80	1
11 315116	1	02/25/80	1	02/25/80	1
12 315116	1	02/25/80	1	02/25/80	1
13 315116	1	02/25/80	1	02/25/80	1
14 315116	1	02/25/80	1	02/25/80	1
15 315116	1	02/25/80	1	02/25/80	1
16 315116	1	02/25/80	1	02/25/80	1
17 315116	1	02/25/80	1	02/25/80	1
18 315116	1	02/25/80	1	02/25/80	1
19 315116	1	02/25/80	1	02/25/80	1
20 315116	1	02/25/80	1	02/25/80	1
21 315116	1	02/25/80	1	02/25/80	1
22 315116	1	02/25/80	1	02/25/80	1
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54 315116	1	02/25/80	1	02/25/80	1
55 315116	1	02/25/80	1	02/25/80	1
56 315116					

[illegible]

REVISED: 28-06-1972		TITLE		CARD 9		DATE 02/25/70		Turn Around Parts List		RAYTHEON	
CARD 2		RAYTHEON APPROVAL		CONTRACT NUMBER		SHEET 11		WORKSHEET		(See Doc Sig 2824 for instructions)	
01 CIRCUIT CARD ASSY		D-MENDRY		1962-70-C-0195		MFG & DATA BASE CONTROL		CARD 5		CARD 6	
02 DISTAL		CODE		POS		PROG		NO		CARD 7	
03 DATA REGISTRATION		40956		TRC2		PL		474507-1		CARD 8	
P/N		QTY		PART NUMBER		DWG		REV		REV	
C		M		OR IDENTIFICATION		SPEC NO		DOC		REV	
S		M		MATERIAL		SPEC NO		TYPE		IN	
S		M		MATERIAL		SPEC NO		TYPE		OUT	
S		M		MATERIAL		SPEC NO		TYPE		OUT	
S		M		MATERIAL		SPEC NO		TYPE		OUT	
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[illegible]

[illegible]

852-PROD = TRC2

CARD 9

DATE 02/25/86

Turn Around Parts List

Raytheon

CARD 2 TITLE RAYTHEON APPROVAL CONTRACT NUMBER 13

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

C1 CIRCUIT CARD ASSY 3-HENDEY

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

C2 DIGITAL

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

C3 TEST GENERATOR

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 5 QTY PART NUMBER DOC NO. MFG. NO. MIL/OB IND SPEC NO. DOC REV. REV. 5 INH. INH. FROM AND OTHER REQUIRED DATA

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 6 & 7

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 8

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 9

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 10

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 11

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 12

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 13

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 14

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 15

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 16

DATE 02/25/86

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See Doc S/C 8924 for instructions

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See Doc S/C 8924 for instructions

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CARD 27

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See Doc S/C 8924 for instructions

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CARD 28

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See Doc S/C 8924 for instructions

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CARD 29

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CARD 34

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Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

CARD 35

DATE 02/25/86

Worksheet

See Doc S/C 8924 for instructions

MFG & DATABASE CONTROL

(See Doc Std 2924 for instructions)

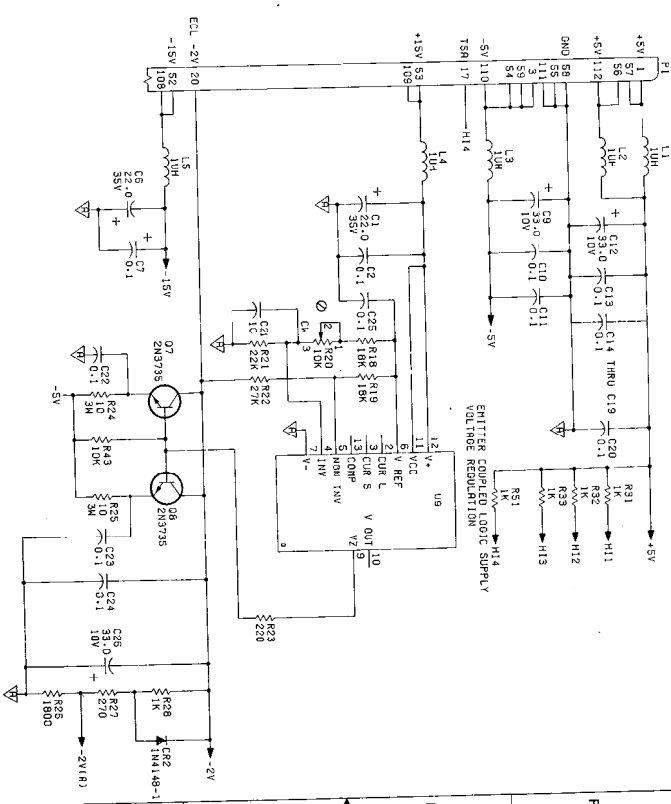
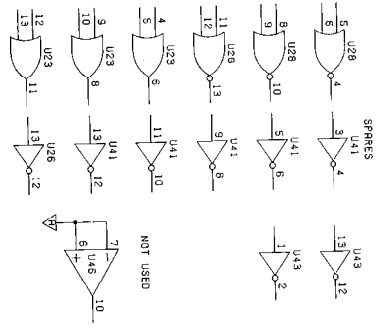
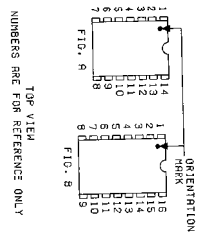
NON-REL-TOTAL	\$.000
RELEASE-TOTAL	\$603.395
TAPL-TOTAL	\$603.395

RAYTHEON PROPRIETARY DATA

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SYMBOLIC NO.	REF DES	PART NO.	PAR	FIG	F10
54LS32	U1, 6, 23	M38510/30301BEB	14	7	5
10524	U2	M38510/05301BEB	9	16	9
93516	U3, 16	1051352-1	16	8	6
10525	U4, 5	M38510/05302BEB	9	16	9
54LS37	U7, 42	M38510/30202BEB	14	7	5
54LS04	U8	M38510/07003BEB	14	7	5
LM723	U9	0167553-1	-	-	-
54LS157	U10, 17, 25	7504101CE	16	8	6
54LS130	U11	M38510/30003BEB	14	7	5
54LS175	U12	M38510/07106BEB	16	8	6
54LS04	U13, 28, 41, 43	M38510/30003BEB	14	7	5
54LS174	U14, 15, 31	M38510/30106BEB	16	8	6
54LS112	U18, 22	M38510/07102BEB	16	8	6
54LS153	U19, 20	M38510/30302BEB	14	7	5
54LS174	U21, 24, 25, 34, 45	M38510/30102BEB	16	8	6
LM7056	U27	854373-104	16	8	6
54LS175	U28	M38510/30301BEB	14	7	5
54LS151	U32, 33	M38510/30107BEB	16	8	6
54LS109	U35	M38510/30901BEB	16	8	6
54LS175	U36	M38510/07003BEB	14	7	5
54LS38	U37, 40	M38510/30203BEB	14	7	5
54LS51	U44	M38510/30401BEB	14	7	5
LM747	U46	M38510/10102BEB	14	7	5

SYMBOLIC NO.	REF DES	PART NO.	PAR	FIG	F10
54LS32	U1, 6, 23	M38510/30301BEB	14	7	5
10524	U2	M38510/05301BEB	9	16	9
93516	U3, 16	1051352-1	16	8	6
10525	U4, 5	M38510/05302BEB	9	16	9
54LS37	U7, 42	M38510/30202BEB	14	7	5
54LS04	U8	M38510/07003BEB	14	7	5
LM723	U9	0167553-1	-	-	-
54LS157	U10, 17, 25	7504101CE	16	8	6
54LS130	U11	M38510/30003BEB	14	7	5
54LS175	U12	M38510/07106BEB	16	8	6
54LS04	U13, 28, 41, 43	M38510/30003BEB	14	7	5
54LS174	U14, 15, 31	M38510/30106BEB	16	8	6
54LS112	U18, 22	M38510/07102BEB	16	8	6
54LS153	U19, 20	M38510/30302BEB	14	7	5
54LS174	U21, 24, 25, 34, 45	M38510/30102BEB	16	8	6
LM7056	U27	854373-104	16	8	6
54LS175	U28	M38510/30301BEB	14	7	5
54LS151	U32, 33	M38510/30107BEB	16	8	6
54LS109	U35	M38510/30901BEB	16	8	6
54LS175	U36	M38510/07003BEB	14	7	5
54LS38	U37, 40	M38510/30203BEB	14	7	5
54LS51	U44	M38510/30401BEB	14	7	5
LM747	U46	M38510/10102BEB	14	7	5



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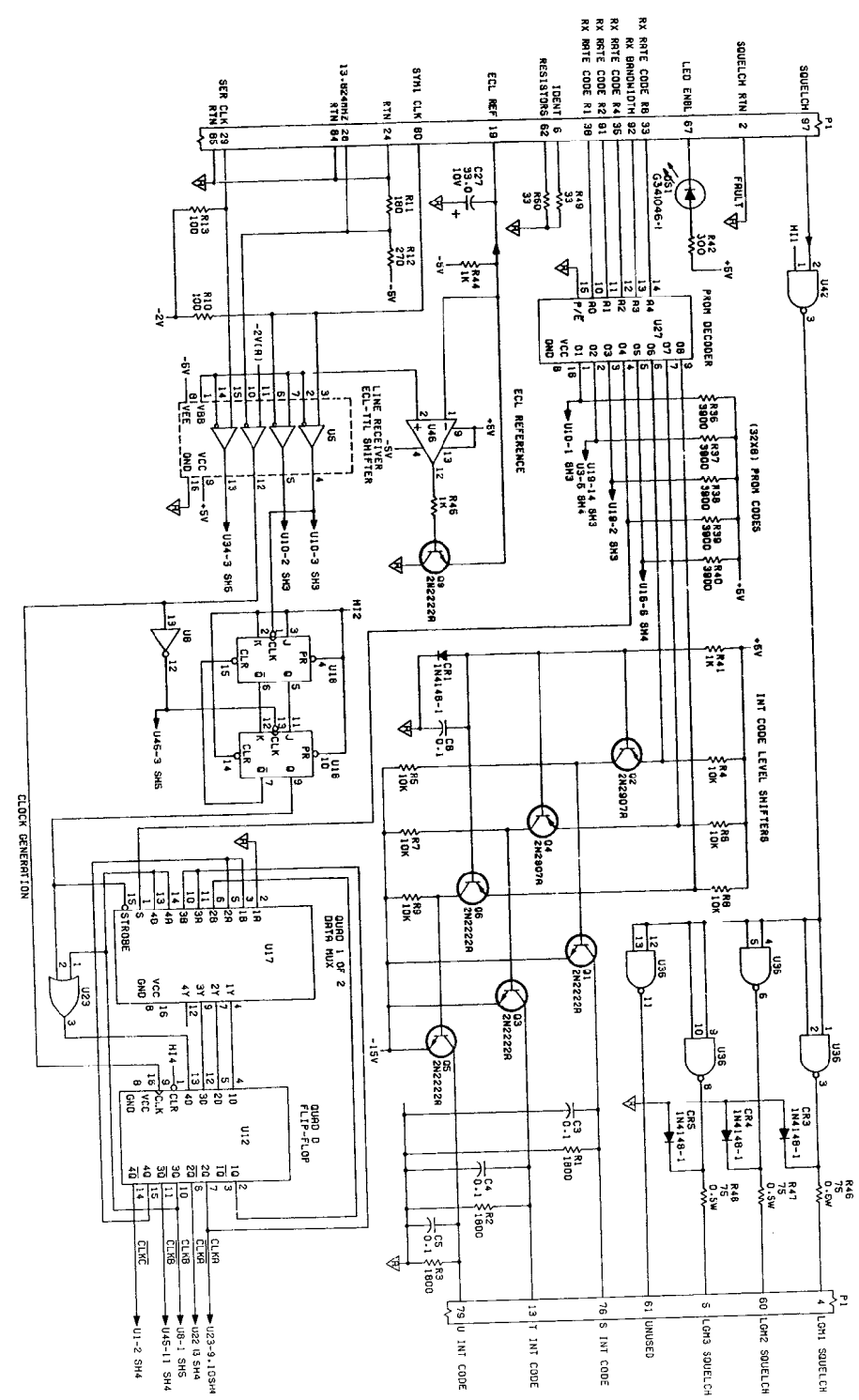
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DATE	NO.	REVISED	BY	DATE
11/11/62	1	11/11/62	11/11/62	11/11/62
CIRCUIT CARD ASSEMBLY - DIGITAL DATA REGENERATOR SCHEMATIC DIAGRAM				
RAYTHEON COMPANY 10000 W. 10TH AVENUE DENVER, COLORADO 80231				
149566 53978501				

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 McGraw-Hill Construction <small>Information and Analytics</small>	
PM: J. O'SHEA 14 NOV 17 ORG: M. O'SHEA 15 MAR 78	
SIZE E	TYPED NO. 49956
COL NO. 50978601	ORDER NO. 50978601
SHEET 3	

P	REVISED PER SECO 89004	21	3411-8
R	SEE SECO 102372	2007-2	DATE

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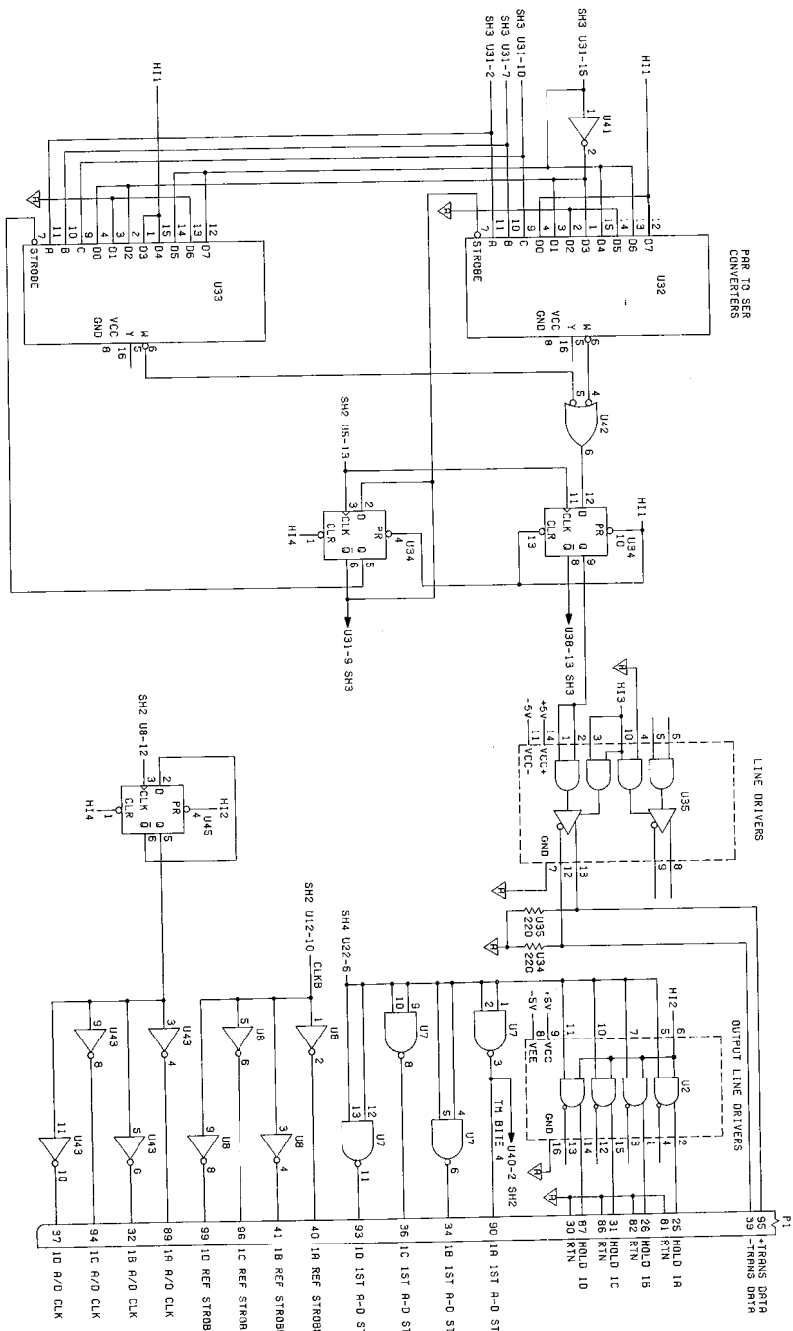
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REV	REVISED AND REWORK	REV	REVISED
1	REVISED AND REWORK	1	REVISED
2	REVISED AND REWORK	2	REVISED
3	REVISED AND REWORK	3	REVISED
4	REVISED AND REWORK	4	REVISED
5	REVISED AND REWORK	5	REVISED
6	REVISED AND REWORK	6	REVISED
7	REVISED AND REWORK	7	REVISED
8	REVISED AND REWORK	8	REVISED
9	REVISED AND REWORK	9	REVISED
10	REVISED AND REWORK	10	REVISED

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REV	REVISED AND REWORK	REV	REVISED
1	REVISED AND REWORK	1	REVISED
2	REVISED AND REWORK	2	REVISED
3	REVISED AND REWORK	3	REVISED
4	REVISED AND REWORK	4	REVISED
5	REVISED AND REWORK	5	REVISED
6	REVISED AND REWORK	6	REVISED
7	REVISED AND REWORK	7	REVISED
8	REVISED AND REWORK	8	REVISED
9	REVISED AND REWORK	9	REVISED
10	REVISED AND REWORK	10	REVISED

RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS. 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
		SHEET 2 OF 16		REV A	

2.0 APPLICABLE DOCUMENTS

Schematic drawing SD978601
 Assembly drawing 978601
 Schematic drawing SD978638 (Demod/Data Regen Test Fixture)

3.0 REQUIREMENTS

3.1 Test Equipment

The following items or their equivalents are required for the performance of the test described herein.

EQUIPMENT ITEM	VOLTAGE	CURRENT DRAIN	REGULATION	RIPPLE
1	+5 Vdc	4 Amp	5%	0.1%
2	+5 Vdc	2 Amp	5%	0.1%
3	+15 Vdc	1 Amp	5%	0.1%
4	-15 Vdc	1 Amp	5%	0.1%
5	(2 each) Synthesizer - Hewlett Packard Model 8660A (70 MHz Sinewave output)			
6	Digital multimeter - Hewlett Packard Model 3465A			
7	Oscilloscope - Tektronix Model 465 with (2 ea) Model P6105 X10 probes			
8	Attenuator - Ray Model 1/439-01 (step type)			
9	Digital Demodulator Circuit Card Assembly, 978603			
10	Data Regenerator Circuit Card Assembly, 978601			
11	Test Fixture - TR978638			
12	Coaxial Cables - (5 ea) RG58/U (50 ohm Zo)			

3.2 Preliminary Operations On The Unit Under Test (UUT)

a. Place power supply switches on test fixture to OFF.
 b. Insert the UUT and Digital Demodulator CCA into the test fixture.
 c. Set the UUT adjust R20 fully counter clockwise.
 d. Perform 3.3.

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3.3 Standard Conditions

The following conditions shall be maintained for all operations of the test described herein.

a. Connect power supplies as in Figure 1. Adjust each power supply to the following voltages. (Note 4-1).

Item 1 - +5.0 Vdc ± 0.25 Vdc
 Item 2 - -5.2 Vdc ± 0.25 Vdc
 Item 3 - +15.0 Vdc ± 0.25 Vdc
 Item 4 - -15.0 Vdc ± 0.25 Vdc

b. Place power supply switches on the test fixture to ON.
 c. Ambient Temperature $+15^{\circ}$ to $+30^{\circ}\text{C}$.

3.4 Test Fixture Set-Up

3.4.1 Arrange the test equipment as in Figure 1.

3.4.2 Set synthesizer A for 70.000000 MHz output frequency. Set synthesizer B for 70.000020 MHz output frequency.

3.4.3 Connect output of synthesizer A to channel A input of the oscilloscope. Adjust oscilloscope for 1 usec/div, 50 ohm termination on channel A, .1 volts/div. (Do not attempt to trigger, and be certain that SW limit switch is OFF). Adjust output level of the synthesizer so that the displayed signal has a peak-to-peak amplitude of 800.0 mV, ± 20.0 mV. Reconnect the output of synthesizer A to "RF INPUT" jack on the test fixture.

3.4.4 As in 3.4.3 adjust synthesizer B for a peak-to-peak amplitude of 800.0 mV ± 20.0 mV. Reconnect output to "LO INPUT" on the test fixture.

3.4.6 Set the following switches on the test fixture to the positions indicated.

TIME GATE	- OFF	MODULATION	- QPSK
RF	- ON	DREG ENBL 1	- NOT ENBL
LO SOURCE	- UNLOCKED	DREG ENBL 2	- NOT ENBL
FEEDBACK SOURCE	- FORCED	DEM0D BITE ENBL	- NOT ENBL
		EXT INH	- INH

3.4.7 Set attenuator (item 8) to 8 dB of attenuation.

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		SHEET 4 OF 16		REV C	

3.5 -2 Volt Power Supply Adjustment

This procedure adjusts the -2 Volt power supply on the UUT.

3.5.1 Connect the voltmeter (item 6) to test point "-2" on the test fixture. Adjust R20 (UUT) so that the voltmeter measures -2.00 Vdc ± 0.01 Vdc.

3.5.2 Using item 7 (Scope) verify there are no oscillations or noise spikes larger than 60mVpp.

3.6 Reference Voltage Test

This test determines that the ECU reference voltage generated by the UUT is correct.

3.6.1 Connect the voltmeter (item 6) to test point "ECL REF". The voltmeter reading shall be between -1.15 Vdc and -1.38 Vdc.

3.7 Decision Feedback And Timing Signal Generation Test

This test determines that the decision feedback and the timing signal generated by the UUT is operating properly in all rates and modes.

3.7.1 Set the following switches on the test fixture to the positions indicated:

BANDWIDTH - 3.5
 MODE - P1
 TEST SEL A - 0
 TEST SEL B - 0

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3.7.2 For positions 0, 1, 3, 4, 7 of the RATE switch, the I ERROR and Q ERROR lamps shall be OFF.

3.7.3 With all switches set as in 3.7.1, change the BANDWIDTH switch to 7.0 position.

3.7.4 For positions 0, 1, 2, 3, 4, 7 of the RATE switch, the I ERROR and Q ERROR lamps shall be OFF.

3.7.5 With all switches set as in 3.7.1, change MODE switch to P2 position.

3.7.6 For positions 0, 1, 2, 3, 4, 7 of the RATE switch, the I ERROR and Q ERROR lamps shall be OFF.

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3.7.7 Set BANDWIDTH switch to 3.5. For positions 0, 1, 3, 4, 7 of the RATE switch, the I ERROR and Q ERROR lamps shall be OFF.

3.7.8 Set the following switches on the test fixture to the positions indicated:

RATE - 0
 BANDWIDTH - 7.0
 MODE - P2
 TEST SEL A - 1
 TEST SEL B - 0

3.7.9 The I ERROR and Q ERROR lamps shall be OFF.

3.7.10 Set TEST SEL B to 1 position. The I ERROR and Q ERROR lamps shall be OFF.

3.7.11 Set TEST SEL A to 0 position. The I ERROR and Q ERROR lamps shall be OFF.

3.8 Integrator Code Test

This test determines that the three integrator codes signals are correct for the different rates and bandwidths.

3.8.1 For the following combinations of switch settings in each entry of Table I, verify that the voltages measured at the S, T, U testpoints are within the limits shown. Use item 6 for measurement. Tolerances for the voltages measured shall be 0.1 Vdc ± 0.5 Vdc and -15.0 Vdc ± 0.5 Vdc.

ENTRY	RATE	BANDWIDTH	TEST PT. S	TEST PT. T	TEST PT. U
1	0	3.5	0.0 Vdc	0.0 Vdc	0.0 Vdc
2	1	3.5	0.0 Vdc	0.0 Vdc	0.0 Vdc
3	2	3.5	0.0 Vdc	0.0 Vdc	0.0 Vdc
4	3	3.5	-15.0 Vdc	0.0 Vdc	-15.0 Vdc
5	4	3.5	-15.0 Vdc	0.0 Vdc	0.0 Vdc
6	7	3.5	0.0 Vdc	0.0 Vdc	0.0 Vdc
7	0	7.0	0.0 Vdc	0.0 Vdc	0.0 Vdc
8	1	7.0	0.0 Vdc	0.0 Vdc	0.0 Vdc
9	2	7.0	-15.0 Vdc	-15.0 Vdc	0.0 Vdc
10	3	7.0	0.0 Vdc	-15.0 Vdc	-15.0 Vdc
11	4	7.0	-15.0 Vdc	-15.0 Vdc	-15.0 Vdc
12	7	7.0	0.0 Vdc	0.0 Vdc	0.0 Vdc

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3.9 Differential Decoding Test

This test determines that differential decoding circuitry is operating properly.

3.9.1 Connect the channel 1 oscilloscope probe to the TRANS DATA + test point. Connect the channel 2 oscilloscope probe to TRANS DATA - test point. Set the RATE switch to position 4; BINARYWIDTH switch to 1.0; MODE switch to F2; FEEDBACK switch to FORCED.

3.9.2 Adjust the settings on the oscilloscope as follows:

VERT. MODE - AUTO
CH1 POLARITY - INVERT
CH1 VOLTS/DIV - 500 mV
CH2 VOLTS/DIV - 500 mV
TIME/DIV - 1 us. (INITIAL SETTING ONLY)
TRIGGER - EXTERNAL
CH1 and CH 2 Input Impedance - 1 MEG ohm

3.9.3 The displayed signal on the oscilloscope shall conform to the standards of Figure 2. (Adjust oscilloscope if necessary).

3.10 BITE Test

This test determines that the BITE buses and the external inhibit signals are operating properly.

3.10.1 Set the follow/ing switches on the test fixture to the positions indicated.

DREG ENBL 1 - NOT ENBL
DREG ENBL 2 - NOT ENBL
EXT INH - NOT INH

3.10.2

For positions B1, B2, B3, B4, B5, B6, B7, LGM1, LGM2, LGM3, FRM INH of the SIGNAL SELECT switch, the following shall be observed on the test fixture.

HIGH lamp - ON
LOW lamp - OFF
ACTIVITY lamp - OFF

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REV. -

3.10.3

Place EXT INH switch to INH. For positions FRM INH, LGM1, LGM2, LGM3 of the SIGNAL SELECT switch, the following shall be observed on the test fixture.

HIGH lamp - OFF
LOW lamp - ON
ACTIVITY lamp - OFF

3.10.4

Place DREG ENBL 1 switch to ENBL. For position B1, B2, B3, B4, B5, B6, B7, the following shall be observed on the test fixture on the UUT.

HIGH lamp - DO NOT CARE
LOW lamp - DO NOT CARE
ACTIVITY lamp - ON
DS1 FAULT (UUT) - OFF (B27 position, others do not care)

3.10.5

Place DREG ENBL 1 switch to NOT ENBL; DREG ENBL 2 switch to ENBL; EXT INH switch to INH.

3.10.6

For positions B1, B2, B3, B4, B5, B6, B7 of the SIGNAL SELECT switch, the following shall be observed on the test fixture and on the UUT.

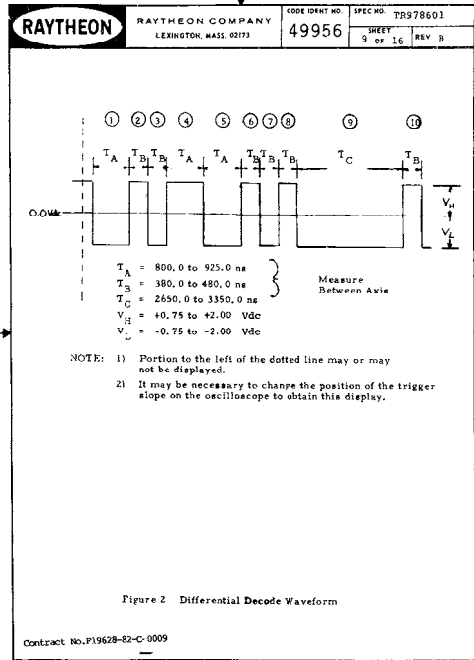
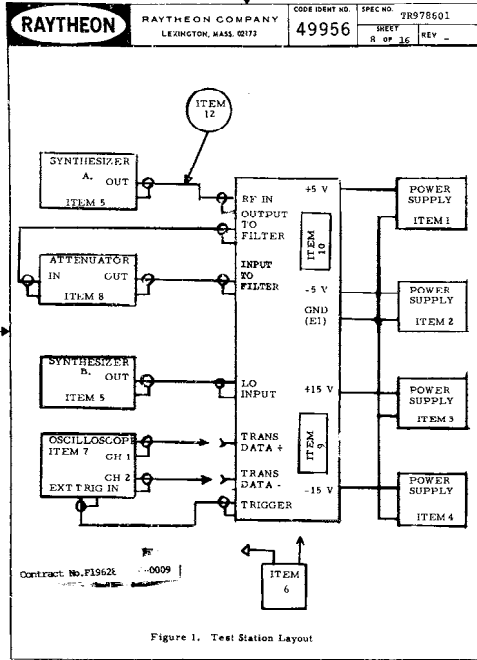
HIGH lamp - DO NOT CARE
LOW lamp - DO NOT CARE
ACTIVITY lamp - ON
DS1 FAULT (UUT) - ON (B31 position, others do not care)

4.0

NOTES

4.1 Measure each voltage at the binding post where the power supply connections are made on the test fixture with respect to GND. (21)

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				10 OF 16	REV C
TEST DATA SHEET					
PART NUMBER 978601	REV 1	UNIT NAME DATA REGISTER	STATION NO. 1	TEST 1	DATE 10-7-73
PROGRAM AN/TC-170	REV 1	TEST 1	STATION NO. 1	TEST 1	DATE 10-7-73
PARA NO.	FUNCTION	PARAMETER	ACCEPT VALUE	REJECT VALUE	TEST DATA
3.5	-2 V POWER SUPPLY ADJUST	VAC	-1.99 to -2.01		
3.5.1	20 (ADJUST)	VAC	-2.01 to -2.03		
3.5.2	VERIFY PP C060V	VAC	0.00 to MAX		
3.6	ADJUSTED TOLERANCE TEST	VAC	-1.15 to -1.18		
3.6.1	ECL REF test point	VAC			
3.7	Modium Feedback and Timing Test				
3.7.2	DATA switch position:				
	0 1 2 3 4 7				
	Q ERROR lamp		OFF		
3.7.4	DATA switch position:				
	0 1 2 3 4 7		OFF		
	Q ERROR lamp		OFF		
	Q ERROR lamp		OFF		
	Q ERROR lamp		OFF		

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RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
				11 OF 16	REV 1
TEST DATA SHEET					
PART NUMBER 978601	REV 1	UNIT NAME DATA REGISTER	STATION NO. 2	TEST 2	DATE 10-7-73
PROGRAM AN/TC-170	REV 1	TEST 2	STATION NO. 2	TEST 2	DATE 10-7-73
PARA NO.	FUNCTION	PARAMETER	ACCEPT VALUE	REJECT VALUE	TEST DATA
3.7.6	DATA SWITCH POSITION				
	0 1 2 3 4 7		OFF		
	Q ERROR lamp		OFF		
3.7.7	DATA SWITCH POSITION				
	0 1 2 3 4 7		OFF		
	Q ERROR lamp		OFF		
3.7.9	Q ERROR lamp		OFF		
	Q ERROR lamp		OFF		
3.7.10	Q ERROR lamp		OFF		
	Q ERROR lamp		OFF		
3.7.11	Q ERROR lamp		OFF		
	Q ERROR lamp		OFF		

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RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
				12 OF 16	REV B
TEST DATA SHEET					
PART NUMBER 978601	REV 1	UNIT NAME DATA REGISTER	STATION NO. 3	TEST 3	DATE 10-7-73
PROGRAM AN/TC-170	REV 1	TEST 3	STATION NO. 3	TEST 3	DATE 10-7-73
PARA NO.	FUNCTION	PARAMETER	ACCEPT VALUE	REJECT VALUE	TEST DATA
3.8	INTERFEROMETER CODE TEST				
3.8.1	TABLE I				
	ENTRY	TEST POINT			
1	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
2	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
3	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
4	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
	S	VAC	-13.5 to -14.5		
	T	VAC	-13.5 to -14.5		

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RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
				13 OF 16	REV
TEST DATA SHEET					
PART NUMBER 978601	REV 1	UNIT NAME DATA REGISTER	STATION NO. 4	TEST 4	DATE 10-7-73
PROGRAM AN/TC-170	REV 1	TEST 4	STATION NO. 4	TEST 4	DATE 10-7-73
PARA NO.	FUNCTION	PARAMETER	ACCEPT VALUE	REJECT VALUE	TEST DATA
3.8.1	TABLE I				
	ENTRY	TEST POINT			
5	S	VAC	-13.5 to -14.5		
	T	VAC	-13.5 to -14.5		
6	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
7	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		
8	S	VAC	-0.5 to +0.5		
	T	VAC	-0.5 to +0.5		

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				SHEET 14 OF 16	REV -

TEST DATA SHEET									
PART NUMBER	REV	UNIT NAME	DATA	REPRESENTATIVE	SERIAL NO.	STATION NO.	Page	OF	Page
978601		Data Register					6	OF	7
PROGRAM	REV	TEST	OPER	NO.	TEST	OPER	NO.	TEST	OPER
28/72C-170		28/72C-170							
PARAM NO.	FUNCTION	PARAMETER	ACCEPT	VALUE	REJECT	DATA	REJECT	DATA	REJECT
3.10.1	TABLE I	TEST POINT							
(Cont)	ENTRY								
9									
10									
11									
12									

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RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
				SHEET 15	REV -

TEST DATA SHEET									
PART NUMBER	REV	UNIT NAME	DATA	REPRESENTATIVE	SERIAL NO.	STATION NO.	Page	OF	Page
978601		Data Register					6	OF	7
PROGRAM	REV	TEST	OPER	NO.	TEST	OPER	NO.	TEST	OPER
28/72C-170		28/72C-170							
PARAM NO.	FUNCTION	PARAMETER	ACCEPT	VALUE	REJECT	DATA	REJECT	DATA	REJECT
3.9	Differential Decode Test								
1.9.3	Figure 2.								
2. T _A									
3. T _B									
4. T _A									
5. T _A									
6. T _B									
7. T _B									
8. T _B									
9. T _C									
10. T _B									
V _H									
V _L									

Contract No. P19628-82-C-0009

RAYTHEON		RAYTHEON COMPANY LEXINGTON, MASS 02173		CODE IDENT NO. 49956	SPEC NO. TR978601
				SHEET 16 OF 16	REV -

TEST DATA SHEET									
PART NUMBER	REV	UNIT NAME	DATA	REPRESENTATIVE	SERIAL NO.	STATION NO.	Page	OF	Page
978601		Data Register					6	OF	7
PROGRAM	REV	TEST	OPER	NO.	TEST	OPER	NO.	TEST	OPER
28/72C-170		28/72C-170							
PARAM NO.	FUNCTION	PARAMETER	ACCEPT	VALUE	REJECT	DATA	REJECT	DATA	REJECT
3.10	BIT TEST								
3.10.2	HIGH lamp	ON							
	LOW lamp	OFF							
	ACTIVITY lamp	OFF							
3.10.3	HIGH lamp	ON							
	LOW lamp	OFF							
	ACTIVITY lamp	OFF							
3.10.4	HIGH lamp	DO NOT CASE							
	LOW lamp	DO NOT CASE							
	ACTIVITY lamp	DO NOT CASE							
3.10.5	HIGH lamp	DO NOT CASE							
	LOW lamp	DO NOT CASE							
	ACTIVITY lamp	DO NOT CASE							
	DS1 (DIT) lamp	ON							

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