



DLF-400-100-750

OPERATOR'S MANUAL

DYNALOAD DIVISION
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1. INTRODUCTION

The Dynaload is a precision instrument which simulates electrical loads to test power supplies, generators, servo systems, batteries, and similar electrical power sources. It simulates, at the option of the user, resistive loads (amps/volt) or may be switched to a constant current load characteristic (current regulated at a pre-selected value). Provisions are also made for external programming in automated test setups. The external programming voltage is from 0-10V, with an input impedance of 10K minimum. Load current is directly proportional to the programming voltage.

The meter normally reads average pulse current, so for accuracy when loading in the pulse mode it is recommended to monitor the current sample output.

The circuit breaker used to connect the source to the power devices in the load is electronically controlled and senses overvoltage.

In the event of an overvoltage condition protection circuits open the electronic circuit breaker. In the event of an overcurrent or overpower condition, circuitry is activated to limit the load current.

2. SPECIFICATIONS

The following specifications apply:

Load Voltage:	0-400V
Load Current:	0-100A
Average Power Dissipation:	0-750W
Self-Protection:	Overvoltage--less than 420V
	Overcurrent--less than 120A
	Over-power --less than 800W

Front Panel Switches - Refer to front panel layout

- S101 AC, Power ON/OFF Switch
- S1 Voltmeter Range Select Switch
- S2 Ammeter Range Select Switch
- S3 DC Load ON/OFF Switch

MODE SELECTION

- S4 10A DC LOAD - 0 to 10A constant current mode which is controlled by the front panel DC Load adjust.
- S5 100A DC LOAD - 0 to 100A constant current mode which is controlled by the front panel DC Load adjust.
- S6 3A/V DC LOAD - 0 to 3A/V constant resistance mode which is adjusted by the front panel DC Load adjust.
- S7 30A/V DC LOAD - 0 to 30A/V constant resistance mode which is adjusted by the front panel DC Load adjust.
- S8 10A PULSE LOAD - 0 to 10A pulse mode. The amplitude, frequency, duty cycle and DC baseline are adjustable by the front panel controls.
- S9 100A PULSE LOAD - 0 to 100A pulse mode. The amplitude, frequency, duty cycle and DC baseline are adjustable by the front panel controls.
- S10 REMOTE PROGRAM - In this mode the user can program the current level with a 0 to 10V programming voltage applied to J101 on the rear panel. The front panel controls are locked out.

S11 SHORT CIRCUIT - Drives load to saturation. Effective resistance is less than .03 ohms.

FRONT PANEL ADJUSTMENTS

Refer to Front Panel Layout.

DC Load Adjust - Coarse and fine adjust controls with a 10 to 1 ratio for precise setting of load current for the constant resistance and constant current functions. This control is also functional in the pulse mode to adjust the DC load component.

Pulse Amplitude - Coarse and fine adjust controls with a 10 to 1 ratio for setting the peak current in the pulse mode, the maximum setting is 100 Amps peak.

Freq. Adj. - Coarse and fine controls adjust the frequency of the pulse generator.

Width - Adjusts the percentage of the on time to off time ratio of the pulse generator a minimum of 10% on time, to maximum of 90% on time can be achieved.

FRONT PANEL STATUS INDICATORS

DC This indicator is on when the DC circuit breaker is engaged.

OV When an overvoltage condition exists this alarm will light and the DC breaker will disengage.

OC This alarm will light when the Dynaload is in current limit.

OP This alarm will light when the Dynaload has reached power limit.

OT If the Dynaload reaches overtemperature this alarm will light and the load will stop drawing current.

LOC This indicator will be on when one of the local modes are selected.

REM This indicator will light when the Dynaload is in the remote programming mode.

REAR PANEL CONNECTIONS

E+ Positive Load Input
E- Negative Load Input

J103 AC, Input Connector
J101 Program Input Connector

3. OPERATING INSTRUCTIONS

The following procedure is recommended for connecting the Dynaload: The AC and DC Dynaload switches should be turned off so that the load is disconnected. The load adjustment controls should be set in the counterclockwise position. The mode selector switch should be set to the appropriate mode to be used. The Dynaload should be plugged into standard 115V, 50-60 Hz power (optional input voltage ranges are available), and connections should be made from the source to be tested to the appropriate load terminals of the dynaload. (E+ and E- on the rear of the unit.) If external modulation is to be used, the external programming voltage should also be connected.

With the AC power switch on, the digital meters should turn on. The DC-on should now be actuated. The front panel Dynaload voltmeter should indicate the source voltage. (If the circuit breaker does not close, or if there is no indication of source voltage, check all the external connections for voltage and polarity.) The load may now be increased by turning the load adjust controls clockwise until the appropriate load is obtained. External instrumentation may be used to monitor current waveforms and eliminate the effects of line voltage drops at high currents.

3.1 Constant Resistance Mode (Amps/Volt)

Two scales are provided, 0-3A/V and 0-30A/V. Minimum resistance on the 0-3A/V range is .33 ohms, and minimum resistance on the 0-30A/V range is .033 ohms. For example, to test a 12V battery with a two ohm resistive load, the 3A/V mode should be selected, and the coarse and fine load adjust controls adjusted to obtain the 6A load. The two ohm load is now set, and this resistance value will remain constant for the full range of input voltage.

The resistive load characteristics of the dynaload simulate a pure resistance down to approximately 1 to 2V input; i.e., for a given resistance setting, the current is directly proportional to the voltage over wide dynamic ranges. In the very low voltages, the power transistors will saturate.

3.2 Constant Current Mode

Some power sources, such as variable power supplies, are rated at a fixed maximum load current and adjustable over a predetermined voltage range: i.e., 5-30V @ 20A. If the resistive load characteristic were used for this type of test, it would be necessary to reset the load each time the power supply voltage was changed, in order to maintain the full load current. However, if the load is set to the 100A constant current mode, a load of 20A is applied, then the power supply can be adjusted from 5-30V, and the load current will remain constant.

It should be noted that many power supplies are designed for short circuit protection by internal current limiting and bendback, and therefore, may not start up into a constant current type of load. Accordingly, the constant resistance characteristic should be used as a load when simulating short circuit protection and recovery of most power supplies, unless otherwise specified by the manufacturer.

3.3 Pulse Mode

The pulse load may be varied from 0-10A or from 0-100A peak current by the pulse amplitude control on the front panel. The frequency may be varied from approximately 200Hz to 20KHz by the frequency control on the front panel and the duty cycle of the square wave can be adjusted from 10% to 90% with the width control on the front panel. This pulse load may be superimposed on top of a constant DC load, which may be selected by the DC load control on the front panel.

If the pulse is to be used down to a no-load state,* the DC load controls should be turned fully counterclockwise. The maximum total of the pulse and DC load will be limited around 110A by the internal current limit protection.

*The pulse load is most effective with some steady state load current to which the pulse added. Pulsing from zero load creates a delay in the pulse rise and fall. The pulse current should be monitored on an oscilloscope to assure proper operation.

The rise time of the load current pulse is approximately 15 us for a 10-100A pulse and return. Operation at low voltages (less than 5V) may result in transient to less than 1V at the input terminal due to $L di/dt$ drops in the power leads. This in turn may cause pulse waveform distortion and the user should monitor the load current waveforms to assure proper operation.

The DC and pulse load may be mixed in any combination through the use of the separate DC load coarse and fine and the pulse load coarse and fine controls.

3.4 External Modulation

In the external modulation mode, the dynaload acts as a constant current load with the constant current proportional to the external voltage applied to J101.

The dynaload will program from 0-100A with a 0-10V @ 1 MA control signal. The input impedance of the external modulation terminals is approximately 10K ohms.

The linearity of the external program is set to be within $\pm 1\%$ above 1A.

The load may be pulsed or it will follow the programming waveform within the transient response limits of the Dynaload.

3.5 Power Rating

The model DLF 400-100-750 will dissipate 750W continuously. In order to assure that overheating does not occur, the rear and top of the Dynaload should be clear for the air intake and the air exhaust; i.e., the cooling air enters from the top and leaves from the rear. The dynaload should periodically be checked for dust accumulation.

3.6 Protective Circuits

The Dynaload has internal current limiting at approximately 120A maximum. In the event that an overvoltage is applied to the Dynaload, an internal overvoltage circuit will open the circuit breaker, thereby protecting all internal circuits.

The voltage current product (power) is also monitored to prevent an overpower condition from happening. Accordingly, the current limit characteristic is set to approximately 120A, which is maintained to approximately 6.3V. At this point, the current limit characteristic is reduced as the input voltage is increased, thereby limiting the maximum power which may be programmed into the Dynaload.

3.7 Special Applications

The Dynaload may be used for AC load testing, within its ratings, by the use of an external bridge rectifier, so that the Dynaload sees pulsating DC, but the AC source sees an AC load. The

effect of the rectifier is to slightly distort the Dynaload characteristics at low voltages and currents. The Dynaload is not normally recommended for testing AC sources above 1000 cycles unless the user specifically recognizes the load characteristics at higher frequencies.

3.8 Effects of Cable Inductance on Pulse Loading

When the Dynaload is used for high current pulse loading, the effects of cable inductance must be considered. A special 5 foot coaxial power cable is provided with the DLF to minimize wiring inductance and its use is strongly recommended. Other types of wiring or larger cables will limit speed of response and may cause ringing, etc.

The critical parameters are the 15 microsecond rise time and the 4.0V minimum compliance specifications. If the inductance of the cables from the voltage source to the dynaload is great enough to cause the voltage at the Dynaload to go below 4.0V, then excessive current wave form distortion will occur. This is because the power devices are driven into saturation in an attempt to reach the programmed current which cannot occur because of the low Drain voltage. Once in a saturated state, the response time is much slower. The result is a significant overshoot on the rising edge of the pulse.

The following is suggested to partially compensate for longer power leads:

1. 1 microhenry = 2.4 feet of wire (total).
2. 50A @ 15 microseconds rise time = 3.3 volt drop with 1 microhenry.
3. The inductive drop cannot exceed the difference between the source voltage and the 4.0V compliance.

For example: To test a 8.0v source with a 85A pulse, the maximum cable length would be:

$$E \text{ Max drop} = 4.0V$$

$$E = L(di/dt) \quad 4.0V = L(85A/15\mu s)$$

$$L = 0.71 \text{ microhenries maximum}$$

$$\text{Maximum cable length} = 1.7 \text{ feet total}$$

Since this distance is relatively short, a low inductance cable is provided. This cable (5 feet long with an overall inductance of 5 uh) is compensated for internally by the load.

If the distance from the load to the source must be greater than this, there are several methods to increase the maximum distance. One way is to use several insulated conductors. This cuts the inductance in half if 4 are used instead of 2, or by

one-third if 6 are used. This doubles or triples the maximum length, respectively. If oscillations or ringing occur with longer cables, the unit may be stabilized by an electrolytic capacitor in series with a damping resistor across the terminals of the load.

4. CALIBRATION PROCEDURES (Refer to FIG. 1)

4.1 Current Sample calibrate

- A. Set current sample for 10.0V with Dynaload drawing 100A, adjust R5(CS CAL) on the A6 PC board.
- B. With the Dynaload drawing 10A set current sample for 1.0V, adjust R10(CS OFFSET) on A6.
- C. Repeat these two steps until no further adjustments are necessary.

4.2 Remote Programing Calibrate

- A. Set programming source to 10.0V adjust R1(REMOTE) on A1 so the Dynaload draws 100.0A
- B. Set program source for 1.0V and adjust R14(OFFSET) on A1 so the load draws 10.0A.
- C. Repeat steps A and B until no further adjustments are necessary. Check programming linearity at 1.0V intervals.

4.3 Voltmeter Calibrate

- A. Select the high range and apply 300V to the load inputs. Adjust R47(HV) on A4 so the voltmeter indicates the correct voltage.

- B. Select the low range and apply 100V to the load inputs. Adjust R45(LV) on A4 so the voltmeter indicates the correct voltage.

4.4 Ammeter Calibrate

- A. Select the high range and with the Dynaload drawing 100.0A adjust R42(HA) on A4 so the ammeter indicates the correct current.
- B. Select the low range and with the Dynaload drawing 15.0A adjust R40(LA) on A4 so the ammeter indicates the correct current.

4.5 Constant Current Calibrate

- A. Select the 10A constant current mode and turn the DC Load coarse adjust fully clockwise. Adjust R4(LCC) on A4 so the load draws 10.0A.
- B. Select the 100A constant current mode and turn the DC Load coarse adjust fully clockwise. Adjust R5(HCC) on A4 so the load draws 100.0A.

4.6 Constant Resistance Calibrate

- A. Select the 3A/V constant resistance mode, apply 10.0V to DC load inputs and turn the DC Load coarse adjust fully clockwise. Adjust R8(LA/V) on A4 until the load draws 30.0A.
- B. Select the 30A/V constant resistance mode, apply 3.0V to the DC load inputs and turn the DC Load coarse adjust fully clockwise. Adjust R9(HA/V) so the load draws 90.0A

4.7 Current Limit Calibrate

Select the 30A/V constant resistance range and apply 5V to the load inputs. Increase the current to between 105 and 115 amps. Adjust R7(CL) on A1 until current limit is achieved and the OC alarm lights.

4.8 Power Limit Calibrate

Select the 0-100A constant current mode and apply 20V to the load inputs. Increase the current to 42A and adjust R10(CL) on A1 to limit the current between 38A and 42A at 20V input. Check that the PL alarm lights. Increase input voltage to 50V and the current should be limited between 15A and 17A.

4.9 Overvoltage Calibrate

Set overvoltage trip point between 410V and 420V by adjusting R24(OV) on A1. Check that the OV alarm lights.

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL DLF-400-100-750
DOCUMENT/PART NUMBER :
DYNALOAD

REV. DATE : 03/31/94
REVISION LETTER : C2
SHEET : 1

AUTHENTICATION: _____

Done

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DR S'
A1	1.000	EA		116536	PC ASSY.MAIN REG.DLF-400-100-750 A1	
A2	1.000	EA		117100	"T"PC ASSY.POWER BD.DLF-400-100-750 A2	
A3	1.000	EA		117945	PCB ASSEMBLY, A3	117945
A4	1.000	EA		118038	PC ASSY.CONTROL BD.DLF-400-100-750 A4	C118038
A5	1.000	EA		118049	"T"PC ASSY.SWITCH ASSY.DL C F-400-100-750 A5	C118049
A6	1.000	EA		116511	PC ASSY. DLF-400-100-750 A6	
B101	1.000	EA		4715FS-12T-B50	FAN 115V 113CFM UL CSA VDE	
C101	1.000	EA		713A1KK104PK631SC	CAP .1 MFD @ 600V, OBSOLETE DO NOT USE	
C102	1.000	EA		712A1KK474PK251LC	CAP .47UF 250VDC LONG STRAIGHT LEADS	
CABLE	1.000	EA		34303	LINE CORD 3 CONDCT 18 GA S JT 2MTR	
CR101	1.000	EA		1N965B	DIODE, ZENER	
CR102	1.000	EA		1N965B	DIODE, ZENER	
F101	1.000	EA		AGC-1	GFUSE, NON-TIME-DELAY, 250V, 1A	
J1	1.000	EA		22-01-2147	CONN MOLEX 14 PIN	
J2	1.000	EA		22-01-2147	CONN MOLEX 14 PIN	
J3	1.000	EA		22-01-2107	CONN W/LOCKING RAMP SERIES 2695 10-PIN	
J4	1.000	EA		22-01-2127	CONN MOLEX	

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
J5	1.000	EA		22-01-2067	CONN MOLEX			
J6	1.000	EA		22-01-2087	CONN MOLEX 8-PIN FEMALE			
J7	1.000	EA		09-65-1031	CONN 3 POS. MFG:MOLEX			
J8	1.000	EA		22-01-2047	CONN MOLEX			
J9	1.000	EA		622-1041	CONNECTOR, 10 PIN, WITH S TRAIN RELIEF MFG: T&B			
J10	1.000	EA		622-1041	CONNECTOR, 10 PIN, WITH S TRAIN RELIEF MFG: T&B			
J11	1.000	EA		622-1441	CONN. 14 PIN, FEMALE, POL ARIZED W/STRAIN RELIEF			
J12	1.000	EA		622-1441	CONN. 14 PIN, FEMALE, POL ARIZED W/STRAIN RELIEF			
J13	1.000	EA		622-2441	CONN. 24 PIN, FEHALE, POL ARIZED W/STRAIN RELIEF			
J14	1.000	EA		622-2441	CONN. 24 PIN, FEHALE, POL ARIZED W/STRAIN RELIEF			
J101	1.000	EA		BNC31-10	CONN			
J102	1.000	EA		BNC31-10	CONN			
J103	1.000	EA		EAC-309	CONNECTOR SWITCHCRAFT			
K101	1.000	EA		70-902	CONTACTOR 12V			
Q1	1.000	EA		2N6770	FET,N-CHANNEL,500V,12A,.4 OHMS,TQ-3			
Q2	1.000	EA		2N6770	FET,N-CHANNEL,500V,12A,.4 OHMS,TQ-3			
Q3	1.000	EA		2N6770	FET,N-CHANNEL,500V,12A,.4 OHMS,TQ-3			
Q4	1.000	EA		2N6770	FET,N-CHANNEL,500V,12A,.4 OHMS,TQ-3			

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CIRC. FIND						DRAW	MIL-SPEC	NOTE
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	SIZE	/DRAWING NO.	NO.
Q5	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q6	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q7	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q8	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q9	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q10	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q11	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q12	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q13	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q14	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q15	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
Q16	1.000	EA	2N6770		FET,N-CHANNEL,500V,12A,.4 OHMS,TO-3			
S1	1.000	EA	LTA101-TR-B		SWITCH ROCKER RED NEON L AMP W/47K RES.			
SH101	1.000	EA	HA100-100		SHUNT, DC ANMMETER			
TH101	1.000	EA	24506-21-870		SWITCH THERNAL 60 DEG C NO			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
XF101	1.000	EA		HTB-44I	FUSE HOLDER MFG:BUSSMAN			
XJ9	1.000	EA		171-10:28AWG	CABLE FLAT RIBBON 10COND T & B ANSLEY 100' SPLS			
XJ10	---	EA		171-10:28AWG	CABLE FLAT RIBBON 10COND T & B ANSLEY 100' SPLS			
XJ11	1.000	EA		171-14:28AWG	STRANDED RIBBON CABLE AN SLEY 100'/ROLL			
XJ12	---	EA		171-14:28AWG	STRANDED RIBBON CABLE AN SLEY 100'/ROLL			
XJ13	1.000	EA		171-24:28AWG	CABLE, FLAT RIBBON T&B A NSLEY 100' SPOOL			
XJ14	---	EA		171-24:28AWG	CABLE, FLAT RIBBON T&B A NSLEY 100' SPOOL			
ERR	2.000	EA		16-10-511-16	ADJUSTABLE-GRIP LATCH; MF G: SOUTHCO			
ERR	2.000	EA		108536-27	BOLT BRONZE NP 5/16-18 X 1 1/2		A108536-27	
ERR	4.000	EA		108537-4	WSHR EXT TOOTH SIL BRZ NI B CKEL PLATE 5/16		B108537	
ERR	6.000	EA		108538-9	WASHER FLAT 5/16 BNP B		B108538-9	
ERR	4.000	EA		108544-2	NUTS, HEX BRASS N.P. 5/ B 16-18 1/2AF 17/64THK		B108544-2	
ERR	1.000	EA		115580-1	LOW INDUCTANCE CABLE (4 F T.)		D115580	
ERR	1.000	EA		116581	HEATSINK PLATE DLF-400-10 0-750		D116581	
ERR	1.000	EA		116668	REAR PANEL DLF-400-100-75 0		C116668	
ERR	2.000	EA		116671	RT.& LFT.H/S SIDE BAR DLF C -400-100-750		C116671	

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CIRC. FIND	DESQ. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
ERR		3.000	EA		116672	CENTER H/S BAR DLF-400-10 C 0-750		C116672	
ERR		2.000	EA		117270	SIDE BAR RAIL DLF-400-100 B -750		B117270	
ERR		1.000	EA		117271-1	RAIL, RIGHT SIDE	B	B117271	
ERR		1.000	EA		117271-2	RAIL, LEFT SIDE	E	B117271	
ERR		1.000	EA		117272	AIR BAFFLE DLF-400-100-75 B 0		B117272	
ERR		1.000	EA		117276	TOP COVER DLF-400-100-750 C		C117276	
ERR		1.000	EA		117277	MODULE BASE PLATE DLF-400 D -100-750		D117277	
ERR		1.000	EA		117280	EPO INSULATOR DLF 750		B117280	
ERR		1.000	EA		117281	NEG. INPUT BRKT.DLF-400-1 00-750		B117281	
ERR		1.000	EA		117282	POS.INPUT BRKT.DLF-400-10 0-750		B117282	
ERR		1.000	EA		117828	NEG.CONN.STRAP DLF-400-10 0-750		A117828	
ERR		1.000	EA		117830	SHUNT SUPP.BRKT.DLF-400-1 00-750		B117830	
ERR		1.000	EA		118012-1	FRONT PANEL DLF 400-100-7 C 50		C118012	
ERR		1.000	EA		118295	POS.RELAY STRAP DLF-400-1 00-750		B118295	
ERR		1.000	EA		1172751	LEFT SIDE COVER DLF-400-1 00-750		C117275-1	
ERR		1.000	EA		1172752	RIGHT SIDE COVER DLF-400- 100-750		C117275-2	

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CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
ERR		1.000	EA		A3321-7	HANDLE 4IN RND BNP			
ERR		3.000	EA		PS-50D-1/70C-2	KNOB, BLACK CONCENTRIC			
ERR		1.000	EA		REVISION-HISTORY	REVISION HISTORY-REV, ECM , DESCRIPTION			

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NOTE NO. RH REV. A: J9 AND J10 WERE 622-1030. J13 AND J14 WERE 622-2430
ECN:17569 9/02/92
REV. B :2N6770'S WERE 6770-2. ECN 17556 10/05/92
REV. C :ADDED CR101 AND CR102 (1N965B). LB ECN:17449 2-8-93
REV. C1:ADDED CABLE 34303. JP ECN 18049 05MAY93
REV. C2:ADDED HARDWARE MISSING; P/N'S 108536-27 (2EA), 1085
37-4 (4EA), 108538-9 (6EA), AND 108544-2 (4EA). LB
ECN:18249 23NOV93

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 116536
DOCUMENT/PART NUMBER :
PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
REVISION LETTER : C
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AUTHENTICATION: _____

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	---	EA		RLR07C3903GR	RES 390K 1/4W 2%			
	---	EA		RLR07C8201GR	RES 8.2K 1/4W 2%			
A1	1.000	EA		116533	PC BOARD MAIN REG.DLF-400 D -100-750 A1		D116533	
C1	1.000	EA		SL101C222KAA	CAP .0022 MFD @ 100V			
C2	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C3	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C4	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C5	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C6	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C7	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C8	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C9	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C10	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C11	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C12	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C13	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C14	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C15	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C16	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C17	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
C18	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C19	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C20	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C21		EA		NOT-USED				
C22	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C23	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C24	1.000	EA		SL101C103KAA	CAP .01 @ 100V			
C25	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C26	1.000	EA		SME100VB10RM6X11LL	CAP 10UF 100V PLUG IN ELE CT MFG: UNITED CHEMICON			
C27	1.000	EA		SMC35VB471M12X25LL	CAP 470UF 35V ELECTROLYTI C, RADIAL LEADS			
C28	1.000	EA		S.I.T.	SELECT IN TEST			
C29	1.000	EA		SL405E105MAA	CAP 1UF @ 50V			
CR1	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR2	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR3	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR4	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR5	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR6	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR7	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
CR8	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
J1	1.000	EA		609-1027	CONN T & B ANGLEY			
J2	1.000	EA		609-1427	CONN LOW PROFILE STRAIGHT CONTACTS FOR .062 PCB			
J3	1.000	EA		609-2427	CONN LOW PROFILE STRAIGHT CONTACTS FOR .062 PCB			
J4	1.000	EA		22-03-2121	CONN MOLEX			
J5	1.000	EA		22-03-2061	PIN WAFER MOLEX			
J6	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J7	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J8	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J9	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J10	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J11	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J12	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J13	1.000	EA		BBS-106-T-C	CONNECTOR, SAITEC LOW PRO FILE			
J14	1.000	EA		22-03-2041	PIN WAFER MOLEX			
K1	1.000	EA		JWD-172-1	RELAY, SPDT 5/6V			
K2	1.000	EA		JWD-172-1	RELAY, SPDT 5/6V			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
K3	1.000	EA		JWD-172-1	RELAY, SPDT 5/6V			
K4	1.000	EA		RR-1A05J	RELAY NEC			
Q1	1.000	EA		2N2907A	XSTR,PNP,60V,.6A,TO-18			
Q2	1.000	EA		2N3054	XSTR,NPN,55V,4A,TO-66,25W			
Q3	1.000	EA		2N2907A	XSTR,PNP,60V,.6A,TO-18			
R1	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS			
R2	1.000	EA		RLR07C9101GR	RES 9.1K 1/4W 2%			
R3	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R4	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS			
R5	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R6	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R7	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS			
RB	1.000	EA		1N1057	JUMPER WIRE GA 22			
R9	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R10	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS			
R11	1.000	EA		RLR07C2701GR	RESISTOR, FIXED, FILM, 2.7K, 1/4W, 2%			
R12	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R13	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R14	1.000	EA		RJR26FW502P	POT CERMET 5K BOURNS			

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CIRC. FIND	DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	R15	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R16	1.000	EA		RLR07C1003GR	RES 100K 1/4W 2%			
	R17	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R18	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
	R19	1.000	EA		RLR07C4700GR	RES 470 OHM 1/4W 2%			
	R20	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R21	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R22	1.000	EA		RLR07C8201GR	RES 8.2K 1/4W 2%			
	R23	1.000	EA		RLR07C5601GR	RES 5.6K 1/4W 2%			
	R24	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS			
	R25	1.000	EA		RLR07C3903GR	RES 390K 1/4W 2%			
	R26	1.000	EA		RLR07C3903GR	RES 390K 1/4W 2%			
	R27	1.000	EA		RLR07C8201GR	RES 8.2K 1/4W 2%			
	R28	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R29	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R30	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R31	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
	R32	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

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CIRC. FIND								
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R33	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R34	1.000	EA		RLR07C4700GR	RES 470 OHM 1/4W 2%			
R35	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R36	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R37	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R38	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R40	1.000	EA		S.I.T.	SELECT IN TEST			
R41	1.000	EA		1N1057	JUMPER WIRE GA 22			
R42		EA		NOT-USED				
R43		EA		NOT-USED				
R44	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R45	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R46	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
R47	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R48	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R49	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R50	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R51	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R52	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGO, 1/4W, 2%			
R53	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R54	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R55	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R56	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R57	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R58	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGO, 1/4W, 2%			
R59	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R60	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R61	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R62	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R63	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R64	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGO, 1/4W, 2%			
R65	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R66	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

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CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	R67	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R68	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R69	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R70	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R71	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
	R72	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R73	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R74	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R75	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R76	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R77	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
	R78	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R79	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R80	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R81	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R82	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			

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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R83	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R84	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R85	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R86	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R87	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R88	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGO, 1/4W, 2%			
R89	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R90	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R91	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R92	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R93	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R94	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGO, 1/4W, 2%			
R95	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R96	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R97	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R98	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

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CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	R99	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R100	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R101	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
	R102	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R103	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R104	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R105	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R106	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R107	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
	R108	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R109	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R110	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R111	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
	R112	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R113	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
	R114	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 116536
 DOCUMENT/PART NUMBER :
 PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
 REVISION LETTER : C
 SHEET : 11

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R115	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R116	1.000	EA	RLR07C1001GR		RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R117	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R118	1.000	EA	RLR07C1004GR		RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
R119	1.000	EA	RLR07C47R0GR		RES 47 OHM 1/4W 2%			
R120	1.000	EA	RLR07C1001GR		RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R121	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R122	1.000	EA	RLR07C1001GR		RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R123	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R124	1.000	EA	RLR07C1004GR		RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
R125	1.000	EA	RLR07C47R0GR		RES 47 OHM 1/4W 2%			
R126	1.000	EA	RLR07C1001GR		RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R127	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R128	1.000	EA	RLR07C1001GR		RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R129	1.000	EA	RLR07C1002GR		RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R130	1.000	EA	RLR07C1004GR		RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 116536
 DOCUMENT/PART NUMBER :
 PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
 REVISION LETTER : C
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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R131	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R132	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R133	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R134	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R135	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R136	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
R137	1.000	EA		RLR07C47R0GR	RES 47 OHM 1/4W 2%			
R138	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R139	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R140	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R141	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R142	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R143	1.000	EA		RLR07C2702GR	RES 27K 1/4W 2%			
R144	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R145	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R146	1.000	EA		RLR07C4700GR	RES 470 OHM 1/4W 2%			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 116536
 DOCUMENT/PART NUMBER :
 PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
 REVISION LETTER : C
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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R147	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R148	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R149	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R150	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R151	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R152	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R153	1.000	EA		RLR07C1003GR	RES 100K 1/4W 2%			
R154	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R155	1.000	EA		RLR07C5601GR	RES 5.6K 1/4W 2%			
R156	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R157	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R158	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R159	1.000	EA		RLR07C5601GR	RES 5.6K 1/4W 2%			
R160	1.000	EA		RLR07C5601GR	RES 5.6K 1/4W 2%			
R161	1.000	EA		RLR07C1202GR	RES 12K 1/4W 2%			
R162	1.000	EA		RLR07C5601GR	RES 5.6K 1/4W 2%			
R163	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R164	---	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R165	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			

TRANSISTOR DEVICES INC.
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REPORT: EN_100

PARTS LIST : PL 116536
 DOCUMENT/PART NUMBER ;
 PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
 REVISION LETTER : C
 SHEET : 15

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	XQ2	1.000	EA	MS15795	803	WASHER, FLAT, SST, NO.4 S.P.			
	XQ2	1.000	EA	MS35335	57	WSHR, EXTERNAL TOOTH, SST NO.4			
	XQ2	1.000	EA	MS35335	57	WSHR, EXTERNAL TOOTH, SST NO.4			
	XQ2	1.000	EA	MS51957	14	MSCR SST 4-40 X 5/16 PPNH			
	XQ2	1.000	EA	MS51957	14	MSCR SST 4-40 X 5/16 PPNH			
	XQ2	1.000	EA	NAS671C	4	NUT HEX SST 4-40			
	XQ2	1.000	EA	NAS671C	4	NUT HEX SST 4-40			
	XQ3	1.000	EA	100	095	XSTR PAD MFR: BIVAR			
	XU2	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU3	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU4	1.000	EA	2-640358	3	IC SOCKET 16 PIN			
	XU5	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU6	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU7	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU8	1.000	EA	2-640357	3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XY1	1.000	EA	2-640463	3	SOCKET, IC, 8 PIN, PHOS. BRONZE			
	ERR	1.000	EA	REVISION-HISTORY		REVISION HISTORY-REV, ECN , DESCRIPTION			

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 116536
DOCUMENT/PART NUMBER :
PC ASSY.MAIN REG.DLF-400-100-750 A1

REV. DATE : 03/31/94
REVISION LETTER : C
SHEET : 16

CIRC. FIND					DRAW	MIL-SPEC	NOTE
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	SIZE	/DRAWING NO.	NO.

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 117100
DOCUMENT/PART NUMBER :
"T"PC ASSY.POWER BD.DLF-400-100-750 A2

REV. DATE : 03/31/94
REVISION LETTER : A
SHEET : 1

AUTHENTICATION: _____

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
ERR	16.000	EA		903-380	SPACER, NYLON, .047 I.D. X .380 LG.			
A2	1.000	EA		117097	PC BOARD POWER BD.DLF-400 D -100-750 A2		D117097	
J1	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J2	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J3	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J4	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J5	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J6	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J7	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
J8	1.000	EA		SS-106-TT-2	CONNECTOR, SAMTEC			
R1	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R2	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R3	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R4	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R5	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R6	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R7	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R8	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R9	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R10	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R11	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 117100
 DOCUMENT/PART NUMBER :
 "T"PC ASSY.POWER BD.DLF-400-100-750 A2

REV. DATE : 03/31/94
 REVISION LETTER : A
 SHEET : 2

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R12	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R13	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R14	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R15	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
R16	1.000	EA		RW67VR15	.15 OHM 6.5W WW RESISTOR			
XQ101	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ102	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ103	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ104	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ105	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ106	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ107	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ108	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ109	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ110	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ111	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ112	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ113	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ114	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ115	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XQ116	1.000	EA		TR3-PC	TRANSISTOR SOCKET TO-3			
XR1	1.000	EA		903-380	SPACER, NYLON, .047 I.D. X .380 LG.			

REPORT: EN_100

TRANSISTOR DEVICES INC.
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CAGE CODE: 09004

PARTS LIST : PL 117100
DOCUMENT/PART NUMBER :
"T"PC ASSY.POWER BD.DLF-400-100-750 A2

REV. DATE : 03/31/94
REVISION LETTER : A
SHEET : 3

CIRC. FIND						DRAW	MIL-SPEC	NOTE
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	SIZE	/DRAWING NO.	NO.
XR2	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR3	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR4	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR5	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR6	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR7	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR8	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR9	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR10	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR11	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR12	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR13	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR14	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR15	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			
XR16	1.000	EA	903-380		SPACER, NYLON, .047 I.D. X .380 LG.			

TRANSISTOR DEVICES INC.
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PARTS LIST : PL 117100
 DOCUMENT/PART NUMBER :
 *T*PC ASSY.POWER BD.DLF-400-100-750 A2

REV. DATE : 03/31/94
 REVISION LETTER : A
 SHEET : 4

CIRC. FIND						DRAW	MIL-SPEC	NOTE
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	SIZE	/DRAWING NO.	NO.
ERR	2.000	EA		106999	INSERT OUTPUT STUD BTP 1/ 4-20 (5M-B-8179B7)		A106999	
ERR	2.000	EA		110351-2	SCR RDH NYL STL CORE 6-32 X3/8		B110351-2	
ERR	1.000	EA		117028	POS.BUSS DLF-400-100-750		C117028	
ERR	1.000	EA		117029	NEG.BUSS DLF-400-100-750		C117029	
ERR	1.000	EA		117279	POWER BUSS SPACER DLF-400 -100-750		B117279	

REPORT: EN_100

TRANSISTOR DEVICES INC.
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CAGE CODE: 09004

PARTS LIST : PL 117100
DOCUMENT/PART NUMBER :
"T"PC ASSY.POWER BD.DLF-400-100-750 A2

REV. DATE : 03/31/94
REVISION LETTER : A
SHEET : 5

NOTE NO. RH REVISION HISTORY:
16210: REV A: R1 THRU R16 WERE LVR-5-.05-5.

NOTE NO. DOC APPLICABLE DOCUMENTS:
D117097 PC BOARD
A106999 INSERT OUTPUT STUD
C117028 POS BUSS
C117029 NEG BUSS
B117279 POWER BUSS SPACER

TRANSISTOR DEVICES INC.
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REPORT: EN_100

PARTS LIST : PL 117945
 DOCUMENT/PART NUMBER : 117945
 PCB ASSEMBLY, A3

REV. DATE : 03/31/94
 REVISION LETTER : P2
 SHEET : 1

AUTHENTICATION: _____

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
A3	1.000	EA		117942	PC BOARD SUPPLY DLF-400-1 C 00-750 A3		C117942	
C1	1.000	EA		KME35VB3300M18X35LL	CAPACITOR RADIAL ELECTROL YTIC 3300UF @ 35V			
C2	1.000	EA		NRWA470M50V	CAP RADIAL 470UF, 50V EN D SEAL MFR NIC			
C3	1.000	EA		NRWA470M50V	CAP RADIAL 470UF, 50V EN D SEAL MFR NIC			
C4	1.000	EA		SL115C104KAA	CAP .1UF @ 50V			
C5	1.000	EA		KME63VB33RM8X11LL	33 MFD @ 63V CAPACITOR, ELECTROLYTIC RADIAL			
C6	1.000	EA		KME63VB33RM8X11LL	33 MFD @ 63V CAPACITOR, ELECTROLYTIC RADIAL			
C7	1.000	EA		KME63VB33RM8X11LL	33 MFD @ 63V CAPACITOR, ELECTROLYTIC RADIAL			
CR1	1.000	EA		1N4245	RECT, 200V, 1A, DO-204AP, (MANU: GIC)			
CR2	1.000	EA		1N4245	RECT, 200V, 1A, DO-204AP, (MANU: GIC)			
CR3	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
CR4	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DO-35			
D1	1.000	EA		2W016	RECTIFIER, 2.0A 100V 4 PI N CAN BRIDGE			
J1	1.000	EA		26-48-1031	CONN. MOLEX, 3 PIN			
J2	1.000	EA		22-03-2101	PIN WAFER MOLEX			
J3		EA		NOT-USED				

TRANSISTOR DEVICES INC.
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PARTS LIST : PL 117945
 DOCUMENT/PART NUMBER : 117945
 PCB ASSEMBLY, A3

REV. DATE : 03/31/94
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CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
T1	1.000	EA		DMPC-Y-15	XFMR, MFG: SIGNAL			
U1	1.000	EA		LM309K	IC LINEAR TO-3 CAN 5V			
U2	1.000	EA		MC7815CT	IC VOLTAGE REGULATOR 15V POS. MOT OR UNITRODE			
U3	1.000	EA		MC7915CT	IC LINEAR			
XU1	1.000	EA		6014B	HEATSINK FOR TO-3 THERMAL LOY (AAVID P/N 5014B)			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS15795-805	WASHER FLAT SST NO. 6			
XU1	1.000	EA		MS35335-58	WSHR EXTERNAL TOOTH SST N O. 6			
XU1	1.000	EA		MS35335-58	WSHR EXTERNAL TOOTH SST N O. 6			
XU1	1.000	EA		MS51957-30	MSCR SST 6-32 X 1/2 PPNH			
XU1	1.000	EA		MS51957-30	MSCR SST 6-32 X 1/2 PPNH			
XU1	1.000	EA		NAS671C-6	NUT HEX SST 6-32			
XU1	1.000	EA		NAS671C-6	NUT HEX SST 6-32			
XU2	1.000	EA		105667	BRACKET, REGULATOR HEATSINK		A105667	
XU2	1.000	EA		AN960C2L	WASHER FLAT SST NO.2 1/ 4"OD .016THK 3/32"ID			
XU2	1.000	EA		AN960C2L	WASHER FLAT SST NO.2 1/ 4"OD .016THK 3/32"ID			

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PARTS LIST : PL 117945
 DOCUMENT/PART NUMBER : 117945
 PCB ASSEMBLY, A3

REV. DATE : 03/31/94
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 SHEET : 3

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
XU2	1.000	EA		MS35338-134	WASHER SPLIT LOCK SST NO. 2			
XU2	1.000	EA		MS51957-5	MSCR SST 2-56 X 3/8 PPNH			
XU2	1.000	EA		NAS671C-2	NUT HEX SST 2-56			
XU3	1.000	EA		105667	BRACKET, REGULATOR HEATSINK		A105667	
XU3	1.000	EA		AN960C2L	WASHER FLAT SST NO.2 1/ 4"OD .016THK 3/32"ID			
XU3	1.000	EA		AN960C2L	WASHER FLAT SST NO.2 1/ 4"OD .016THK 3/32"ID			
XU3	1.000	EA		MS35338-134	WASHER SPLIT LOCK SST NO. 2			
XU3	1.000	EA		MS51957-5	MSCR SST 2-56 X 3/8 PPNH			
XU3	1.000	EA		NAS671C-2	NUT HEX SST 2-56			
ERR	1.000	EA		REVISION-HISTORY	REVISION HISTORY-REV, ECN , DESCRIPTION			

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 117945
DOCUMENT/PART NUMBER : 117945
PCB ASSEMBLY, A3

REV. DATE : 03/31/94
REVISION LETTER : P2
SHEET : 4

NOTE NO. RH REVISION HISTORY:
REV. P1: GLOBAL CHANGE; USE 2W10G INSTEAD OF PF-100 & 2W01G
INSTEAD OF PF-10. ECN:18164 LB 10.14.93

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 1

AUTHENTICATION: _____

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
A4	1.000	EA		118035	PC BOARD CONTROL BD.DLF-4 00-100-750 A4	C	C118035	
C1	1.000	EA		SL105C333KAA	CAP .033 MFD @ 50V AXIAL CERAMIC TAPE AND REEL			
C2	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C3	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C4	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C5	1.000	EA		SL301C104KAA	CAP .1UF @ 100V			
C6	1.000	EA		3073BA100T025JPT	CAPACITOR ELECTROLYTIC A XIAL 10UF @ 25V			
CR1	1.000	EA		1N4148	DIODE, SWITCHING 75V 200 mA DD-35			
CR2	1.000	EA		521-9250	DIODE LED, GREEN			
CR3	1.000	EA		521-9246	DIODE LED, RED			
CR4	1.000	EA		521-9246	DIODE LED, RED			
CR5	1.000	EA		521-9246	DIODE LED, RED			
CR6	1.000	EA		521-9246	DIODE LED, RED			
CR7	1.000	EA		521-9250	DIODE LED, GREEN			
CR8	1.000	EA		521-9250	DIODE LED, GREEN			
E1	1.000	EA		16887	EYELET BTP GILDING META L		B16887	
E2	1.000	EA		16887	EYELET BTP GILDING META L		B16887	
J1	1.000	EA		609-1027	CONN T & B ANSLEY			
J2	1.000	EA		609-1427	CONN LOW PROFILE STRAIGHT CONTACTS FOR .062 PCB			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 2

CIRC. FIND				DRAW	MIL-SPEC	NOTE	
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	SIZE /DRAWING NO.	NO.
J3	1.000	EA		609-2427	CONN LOW PROFILE STRAIGHT CONTACTS FOR .062 PCB		
J4	1.000	EA		22-03-2141	CONN MOLEX		
M101	1.000	EA		SI-70004	DIGITAL METER		
M102	1.000	EA		SI-70004	DIGITAL METER		
Q1	1.000	EA		2N2907A	XSTR,PNP,60V,.6A,TD-18		
R1	1.000	EA		RLR07C4700GR	RES 470 OHM 1/4W 2%		
R2	1.000	EA		RLR07C4703GR	RESISTOR, FIXED, FILM, 470K, 1/4W, 2%		
R3	1.000	EA		RLR07C4702GR	RES 47K 1/4W 2%		
R4	1.000	EA		RJR26FW503P	POT CERMET 50K BOURNS		
R5	1.000	EA		RJR26FW103P	POT CERMET 10K BOURNS		
R6	1.000	EA		RCR42G104KS	RES 100K 2W 10% A-B		2
R7	1.000	EA		RW67V472	RES 4.7K 6.5W DALE		2
R8	1.000	EA		RJR26FW503P	POT CERMET 50K BOURNS		
R9	1.000	EA		RJR26FW102P	POT CERMET 1K BOURNS		
R10	1.000	EA		RLR07C47016R	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%		
R11	1.000	EA		RLR07C47016R	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%		
R12	1.000	EA		RLR07C10026R	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%	MIL-R-39017/1	
R13	1.000	EA		RLR07C18016R	RESISTOR, FIXED, FILM, 1.8K, 1/4W, 2%		
R14	1.000	EA		114781-3	POT, DUAL CARBON 50K, 5K LINEAR TAPER SERIES 388L	B 114781-3	

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 3

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R15	---	EA		114781-3	POT, DUAL CARBON 50K, 5K LINEAR TAPER SERIES 388L	B	114781-3	
R16	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R17	1.000	EA		RLR07C2202GR	RES 22K 1/4W 2%			
R18	1.000	EA		RLR07C2203GR	RES 220K 1/4W 2%			
R19	1.000	EA		RLR07C1502GR	RES 15K 1/4W 2%			
R20	1.000	EA		114781-1	POT DUAL CARBON 5K 500 oh m LINEAR TAPER	B114781-1		1
R21	1.000	EA		114781-1	POT DUAL CARBON 5K 500 oh m LINEAR TAPER	B114781-1		1
R22	1.000	EA		RLR07C1000GR	RESISTOR, FIXED, FILM, 100 OHM, 1/4W, 2%			
R23	1.000	EA		RLR07C1000GR	RESISTOR, FIXED, FILM, 100 OHM, 1/4W, 2%			
R24	1.000	EA		RLR07C9100GR	RES 910 OHM 1/4W 2%			
R25	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R26	1.000	EA		RLR07C9101GR	RES 9.1K 1/4W 2%			
R27	---	EA		114781-1	POT DUAL CARBON 5K 500 oh m LINEAR TAPER	B114781-1		1
R28	---	EA		114781-1	POT DUAL CARBON 5K 500 oh m LINEAR TAPER	B114781-1		1
R29	1.000	EA		RLR07C1000GR	RESISTOR, FIXED, FILM, 100 OHM, 1/4W, 2%			
R30	1.000	EA		RLR07C9100GR	RES 910 OHM 1/4W 2%			
R31	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 4

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	R32	1.000	EA		RLR07C1000GR	RESISTOR, FIXED, FILM, 100 OHM, 1/4W, 2%			
	R33	1.000	EA		RLR07C91016R	RES 9.1K 1/4W 2%			
	R34	1.000	EA		RLR07C10016R	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R35	1.000	EA		RLR07C10016R	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R36	1.000	EA		RLR07C10016R	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
	R37	1.000	EA		RLR07C3900GR	RES 390 OHM 1/4W 2%			
	R38	1.000	EA		RLR07C2200GR	RES 220 OHM 1/4W 2%			
	R39	1.000	EA		RN55C1961F	RESISTOR, FIXED, FILM, 1.96K, 1/8W, 1%			
	R40	1.000	EA		RJR26FW201P	POT CERMET 200 OHM BOURNS			
	R41	1.000	EA		RLR07C2002GR	RES 20K 1/4W 2%			
	R42	1.000	EA		RJR26FW202P	POT CERMET 2K BOURNS			
	R43	1.000	EA		RLR07C2200GR	RES 220 OHM 1/4W 2%			
	R44	1.000	EA		RLR07C2203GR	RES 220K 1/4W 2%			
	R45	1.000	EA		RJR26FW203P	POT CERMET 20K BOURNS			
	R46	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R47	1.000	EA		RJR26FW104P	POT CERMET, 100K BOURNS			
	R48	1.000	EA		RLR07C1201GR	RES 1.2K 1/4W 2%			
	R49	1.000	EA		RLR07C1201GR	RES 1.2K 1/4W 2%			
	R50	1.000	EA		RLR07C3002GR	RESISTOR, FIXED, FILM, 30K, 1/4W, 2%			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C11803B
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 5

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	R51	1.000	EA		RLR07C1004GR	RESISTOR, FIXED, FILM, 1 MEGΩ, 1/4W, 2%			
	R52	1.000	EA		RLR07C1333FR	RESISTOR, FIXED, FILM, 133K, 1/4W, 2%			
	RN1	1.000	EA		4606X-101-122	RES. NETWORK, 1.2K, MFG. BOURNS			
	S1	1.000	EA		MLP-22N0	PUSH BUTTON SWITCH			
	S2	1.000	EA		MLP-22N0	PUSH BUTTON SWITCH			
	S3	1.000	EA		MLP-22N0	PUSH BUTTON SWITCH			
	U1	1.000	EA		LF347N	OP AMP, QUAD 14-PIN PLAS TIC NAT			
	U2	1.000	EA		UC3524AN	PULSE WIDTH MODULATOR, PL ASTIC 0-70deg.C			
	VR1	1.000	EA		1N942	DIODE, TCRE 11.7V 7.5mA			
	VR2	1.000	EA		1N942	DIODE, TCRE 11.7V 7.5mA			
	XCR2	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XCR3	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XCR4	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XCR5	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XCR6	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XCR7	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 6

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	XCRB	1.000	EA		902-250	SPACER .032ID X .250LG NY LDN			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH101	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PO ST, MFG. MILL MAX			

TRANSISTOR DEVICES INC.
 RANDOLPH, NJ 07869
 CAGE CODE: 09004

REPORT: EN_100

PARTS LIST : PL 118038
 DOCUMENT/PART NUMBER : C C118038
 PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
 REVISION LETTER : B3
 SHEET : 7

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XH102	1.000	EA		0295015011601100	SOCKET #16 SQUARE WRAP PD ST, MFG. MILL MAX			
	XQ1	1.000	EA		100-095	XSTR PAD MFR: BIVAR			
	XU1	1.000	EA		2-640357-3	IC SOCKET 14 PIN IN TUBES 30 PER TUBE			
	XU2	1.000	EA		2-640358-3	IC SOCKET 16 PIN			
	ERR	4.000	EA		8079-B-0440-37	SPACER BZP 3/16 DIA 4-4 0 X 3/8			
	ERR	4.000	EA		MS15795-803	WASHER, FLAT, SST, NO.4 S.P.			
	ERR	4.000	EA		MS35335-57	WSHR, EXTERNAL TOOTH, SST NO.4			

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 118038
DOCUMENT/PART NUMBER : C C118038
PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
REVISION LETTER : B3
SHEET : 8

CIRC. FIND					DRAW	MIL-SPEC	NOTE
DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	SIZE	/DRAWING NO.	NO.
ERR	4.000	EA	MS51957-14	MSCR SST 4-40 X 5/16 PPNH			

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 118038
DOCUMENT/PART NUMBER : C C118038
PC ASSY.CONTROL BD.DLF-400-100-750 A4

REV. DATE : 03/31/94
REVISION LETTER : B3
SHEET : 9

NOTE NO. 1 BREAK OFF KEYING TAB BEFORE INSTALLING THE THREE DUAL POTS.

NOTE NO. 2 RESISTORS R6 AND R7 THAT ARE LARGER THAN 1/4 WATT ARE TO BE SLEEVED AND MOUNTED ON THE BACK SIDE OF PCB.

NOTE NO. RH REV -: CIRCUIT DESIGNATOR R6 WAS CHANGED TO
RCR42G104KS (100K). R7 WAS CHANGED TO
RW67V472 (4.7K). 7.17.89
16599: REV A: RELEASED TO PRODUCTION. 7.15.91
REV B: APPLICABLE TO 118038-3 PARTS LIST ONLY.
16826: REV B1: P/N'S 168B7, (2PER) 100-095, (1PER) 902-250,
(7PER) 2-640357-3, (1PER) 2-640358-3,
(1PER) B079-B-0440-37, (4PER) MS51957-14,
(4PER) MS15795-803, (4PER) AND MS35335-57
(4PER) WERE ADDED TO PARTS LIST. NOTES 1
AND 2 WERE ADDED ALSO. 12.6.91
REV. B2: CHANGED RPA20X7R333K50VPT TO SL105C333KAA. ECN:17641
LB 12-16-92.
REV B3: GLOBAL CHANGE SI-70004 WAS BL130301
ECN 17882 CAI 4NOV93

NOTE NO. DOC APPLICABLE DOCUMENTS:
C118038 ASSY
C118035 PCB
B114781 PDT

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 118049
DOCUMENT/PART NUMBER : C C118049
"T"PC ASSY.SWITCH ASSY.DLF-400-100-750 A5

REV. DATE : 03/31/94
REVISION LETTER : A1
SHEET : 1

AUTHENTICATION: _____

CIRC. FIND	DESIG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
A5		1.000	EA		118046	PC BOARD SWITCH BD.DLF-40 B 0-100-750 A5		B118046	
J1		1.000	EA		22-03-2141	CONN MOLEX			
S2		1.000	EA		106872-2	SWITCH 8POSN PB W/ PEM NU TS MOD. 65081K-206A		B106872-2	

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 118049
DOCUMENT/PART NUMBER : C C118049
"T"PC ASSY.SWITCH ASSY.DLF-400-100-750 A5

REV. DATE : 03/31/94
REVISION LETTER : A1
SHEET : 2

NOTE NO. RH ECN:
REV:
16599: REV A: RELEASED TO PRODUCTION. 8.16.91
16882: REV A1: CIRCUIT DESIGNATOR S2 WAS P/N 109464-2,
(W/OUT PEN NUTS). 12.23.91

NOTE NO. DOC APPLICABLE DOCUMENTS:
118049 PC ASSY
B118046 PC BOARD
B109464 SWITCH

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 116511
DOCUMENT/PART NUMBER :
PC ASSY. DLF-400-100-750 A6

REV. DATE : 03/31/94
REVISION LETTER :
SHEET : 1

AUTHENTICATION: _____

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
A6	1.000	EA		116508	PC BOARD	B	B116508	
C1	1.000	EA		SL101C102KAA	CAP .001UF @ 100V			
C2		EA		NOT-USED				
C3		EA		NOT-USED				
J1	1.000	EA		22-03-2081	PIN WAFER MOLEX			
J2	1.000	EA		22-03-2041	PIN WAFER MOLEX			
R1	1.000	EA		RLR07C1001GR	RESISTOR, FIXED, FILM, 1K, 1/4W, 2%			
R2		EA		NOT-USED				
R3		EA		NOT-USED				
R4		EA		NOT-USED				
R5	1.000	EA		3266W-1-102	POT, 1K, CERMET, MFG: BOURNS			
R6	1.000	EA		RLR07C1002GR	RESISTOR, FIXED, FILM, 10K, 1/4W, 2%		MIL-R-39017/1	
R7	1.000	EA		RLR07C1000GR	RESISTOR, FIXED, FILM, 100 OHM, 1/4W, 2%			
R8	1.000	EA		RLR07C1102GR	RES 11K 1/4W 2%			
R9		EA		NOT-USED				
R10	1.000	EA		3266W-1-502	POT CERMET 5K BOURNS			
R11	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R12	1.000	EA		RLR07C4701GR	RESISTOR, FIXED, FILM, 4.7K, 1/4W, 2%			
R13		EA		NOT-USED				

REPORT: EN_100

TRANSISTOR DEVICES INC.
RANDOLPH, NJ 07869
CAGE CODE: 09004

PARTS LIST : PL 116511
DOCUMENT/PART NUMBER :
PC ASSY. DLF-400-100-750 A6

REV. DATE : 03/31/94
REVISION LETTER :
SHEET : 2

CIRC. FIND DESG. NO.	QUANTITY	UM	CAGE	PART NUMBER	NOMENCLATURE	DRAW SIZE	MIL-SPEC /DRAWING NO.	NOTE NO.
R14		EA		NOT-USED				
R15		EA		NOT-USED				
U1		EA		NOT-USED				
U2	1.000	EA		LF411ACN	IC DP AMP			
XU1		EA		NOT-USED				
XU2	1.000	EA		2-640463-3	SOCKET, IC, 8 PIN, PHOS. BRONZE			
ERR	1.000	EA		REVISION-HISTORY	REVISION HISTORY-REV, ECH , DESCRIPTION			