

"BELLBOY"  
PERSONAL SIGNALING SYSTEM NO. 1A  
J1 CONTROL TERMINAL

FUSING TESTS

1. GENERAL INFORMATION

1.1 Description: This section describes a method for fusing tests of the J1 Control Terminal for use with Personal Signaling System 1A (Bellboy).

1.2 Application of Test: The tests of this section shall be performed as outlined in Section 310 of this handbook.

2. FUSING PROCEDURE

2.1 General: All plug-in units shall be installed prior to fusing the J1 Control Terminal.

2.2 Inspect the shop wired and fused fuse panels for missing or operated fuses. If a fuse is missing or operated, test the fuse terminal for the absence of low resistance ground. Clear any grounded condition and install the proper fuse.

CAUTION: To eliminate a fire hazard, verify that direct ground is not present on the alarm bar or stud of a fuse panel before installing its feeder fuse.

NOTE: Use ITE-4442 Volt-Ohmmeter. To avoid damaging the meter, first verify that battery is not present on the alarm bar by using the voltmeter portion of ITE-4442, then if clear, switch to Ohmmeter portion for a resistance measurement. Reading should be either approximately 600 Ohms or infinity.

2.3 At Power Distributing Fuse Board, verify absence of direct ground on fuse studs and install feeder fuses and associated alarm pilot fuses for -48 volt supply to fuse panels in CCF, TCF, 1SF and 2SF.

NOTE: Certain relays in CCF, ANF and TCF may chatter until both CCF and TCF feeder fuses are in place.

2.4 Test the fuse terminals of job-wired fuse panels for the absence of low resistance ground. Clear any grounded condition and install the proper fuse. Verify proper potential appears in circuit after each fuse is placed as indicated in Table A.

2.5 ITE-4442 Volt-Ohmmeter shall be used to verify all potentials and polarities at fused circuits in accordance with Table A.

TABLE A

Fuse	Potential	Location
AAO-9	-48V	L (SRA) each ITR
ABO-9		L (PC) "
ACO-9		L (P4) "
ADO-9		10 (LA) "
AEO-9		B (CB-) "
AFO-9		L (UN) "
DA-A and DA-B	-48V	L (TM2) RC-A & RC-B
DB-A and DB-B		L (CKF) "
DC-A and DC-B		L (W) "
DF	-48V	1L (AAO) RC-C
DG		L (TASC) "
DH		B (ACT) "
DJ		B (ASI) SEL "
DK		B (BSI) SEL "
EA1-40		-48V
FA-A and FA-B	L (UO) T-A & T-B	
FB-A and FB-B	L (TO2) "	
FC-A and FC-B	L (G1) "	
GA	-48V	51 (AF10) SC-A
GB		51 (BF10) SC-B
GC-A and GC-B		L (ST) SC-A & SC-B
GD-A and GD-R		L (SR) "
GP	-48V	L (SCR) SC-C
GG		B (AS) Sel "
GH		B (BS) Sel "
GJ		L (AALM) "
GK		L (MJ) SC-C
GL	-48V	B (AS3A) "
GM		B (BS3A) "

TABLE A (Con't.)

Fuse	Potential	Location
HA (CCF, 1SF and 2SF) HR ( " " )	-48V	1L (DN1) each NCT 2L (C2) "
VA (CCF and TCF) A-TC B-TC D-TC to Z-TC	-48V	2U (ALM) each VA 2L (S1) TC L (ST) " 2L (TF) each TTO equipped
A-A TS & TG B-A " " C-A " " D-A " " A-B " " B-B " " C-B " " D-B " " E " " F " "	-48V	27 (F T.S.) TS-TG 17 " " " 48 " " " 38 " " " 47 " " " 37 " " " 46 " " " 36 " " " 1 (T3) " L (A2) "
ABS TBS (CCF) and C (TCF)	-48V ABS -48V TBS	L (FA1) SC-C (48V) Test Term. all Frame Misc. Units
ALO-9 AM DL-A and DL-B GW-A and GW-B HVT (CCF) and B (TCF) A-TC C-TC to Y-TC	+130V	2 (SUP) Tube each ITR M (A) RES each ITR INCPY CKT 2 (TM) Tube RC-A & RC-B 2 (TM) Tube SC-A & SC-B T (+130V) JK all Frame Misc. Units 1 (T1) TC 18 (C T.S.) each TTO equipped
A-TC B-TC to X-TC	-130V -130V	T (-130V) JK TCF Misc. Units L (C) each TTO equipped
(TG) " " " "	GRD   12000 ohm GRD	S (+130V) JK all Frame Misc. Units S (-130V) JK " S (48) JK " (G) Test Term. " (HRG) Test Term. "

2.6 R-9572 Test Receiver connected to 48V test terminal shall be used to verify potentials of fused circuits in accordance with the following table:

Perform test in each ITR one at a time.

Fuse	Block Operated	Verify	Location
RT. MR SUP ±, or MR R1	-	Ringing tone	4M (UN) relay
LBT	(SB) relay	60IPM Busy Tone	2M (SB) relay
OFT	(RO) relay	120IPM Reorder Tone (with "R" or "Z" option)	4 (TAS) relay
120IPM	(RO) relay	120IPM Ground (with "Y" option)	2 (SR) relay
120IPM	(UN) relay	120IPM Ground (with "Y" option)	2 (SR) relay

Release all operated relays.

2.7 Obtain operated fuse and verify fuse alarms by placing it in fuse terminals of one position on each row of all fuse panels in CCF, TCF, 1SF, 2SF and Fuse Bays supplying potentials for circuits under test. Observe that audible alarm sounds, fuse panel FA lamp and associated office alarm lamps light.

2.8 At the completion of this test all fuse panels shall be fully equipped with proper fuses (dummy or specified type fuse).

No arrows are shown due to extensive changes.

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Complete Revision

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