

SECTION 678-7

OUTPUT FILES

678-7 OUTPUT FILE

678-7.1 General Requirements:

- (a) The Output File shall be provided with marker strips to identify Switch Packs when mounted in the file.
- (b) Switch Pack connectors, Monitor Unit connectors, Flash Transfer Relay Sockets and Flash Programming connectors shall be accessible from the back of the Output File without the use of tools or removal of any other equipment.
- (c) TBK 01 and 03 terminal positions shall be labeled functionally. A permanent label reading "Channels 9 and 10 separated" placed on the right Output File mounting flange.
- (d) Field wire terminal blocks shall be mounted vertically on the back of the assembly. The Output File shall have three (3) terminal blocks with twelve (12) positions. Terminal position screw size shall be 10-32.
- (e) The Flash Transfer Relays shall be Heavy Duty Type. The Coil of the relay shall be energized only when the signals are in the flashing operation and the police panel ON/OFF switch in ON. The relay shall transfer the field outputs from Switch Pack Output to Flash Control. The transfer shall not interrupt the controller unit operation.
- (f) The depth of the file shall not exceed 14 1/2-inches.
- (g) The Flash Programming connectors shall be Molex Type 1375 or approved equivalent. The receptacle shall be mounted on the file with a programmable plug connected. The plug connector, with programming jumpers, shall be furnished for each circuit to allow red or yellow flash programming. Plug pins shall be crimped and soldered.
- (h) TBK 01 and 03 terminal screw size shall be 8-32 and TBK 02 and 04 shall be 6-32.

678-7.1.1 Output File #1:

- (a) The Output File shall be capable of containing twelve (12) Model 200 Switch Packs, four (4) Flash Transfer Relays and the Model D210 Monitor Unit. All DC-522A and DC-660A cabinets shall be furnished by the manufacturer/vendor with all equipment supplied.
- (b) The red and yellow output circuits of Switch Packs 1, 2, 3, 4, 5, 6, 7 and 8 shall be made available at individual pack Molex receptacle/plug connection for flash selectivity. Eight (8) red and four (4) yellow Molex plugs shall be provided.
- (c) It shall be possible to remove the Model D210 Monitor Unit without causing the intersection to go into flash operation. The cabinet shall be wired so that with the front cabinet door closed and with

the Monitor Unit removed, the intersection shall go into flashing operation. Refer to Circuit Breaker One Line Diagram, Figure 678-15. The cabinet shall contain a conspicuous warning against operation with the Model D210 Monitor Unit removed.

- (d) The Monitor Unit compartment including the housed Model D210 Monitor Unit exclusive of handle shall extend no farther than 1 1/4 inches in front of the 19-inch rack front surface. The Switch Pack socket connector front surface shall be no more than 8 1/2-inches in depth from the front surface of the Output File.

678-7.1.2 Output File #2 (Model 420)

- (a) The Output File #2 shall be capable of containing 6 Model 200 Switch Packs and 2 Flash Transfer Relays. Two Flash Transfer Relays shall be provided with the file.
- (b) The red and yellow output circuits of Switch Packs No. 1, 2, 4, and 5 shall be made available at a Molex receptacle/plug connection for flash selectivity.

678-7.1.3 Physical Details: Output File #1

- (a) Figure 678-15 provides detailed information concerning the physical layout of the Output File #1.
- (b) Figures 678-16, 678-18 and 678-19 provide in depth detail concerning Switchpack, Logic Relay and Isolation Relay mounting within the output file.

678-7.1.4 Wiring Details: Output File #1

- (a) Figure 678-20 Provides detailed information concerning the interconnection wiring of the Output File #1
- (b) Figure 678-21 Output File #1 Terminal Assignments.
- (c) Figure 678-22 Interconnect Harness Output File #1 to field service panel.

678-7.1.5 Physical Details: Output File #2

Figure 678-16A Provides detailed information concerning the physical layout of the Output File # 2

678-7.1.6 Wiring Details: Output File # 2

- (a) Figure 678-20A Provides detailed information concerning the interconnection wiring of the Output File # 2
- (b) Figure 678-21A Output File # 2 Terminal Assignments
- (c) Figure 678-22A Interconnect Harness Output File # 2 to Field Service Panel

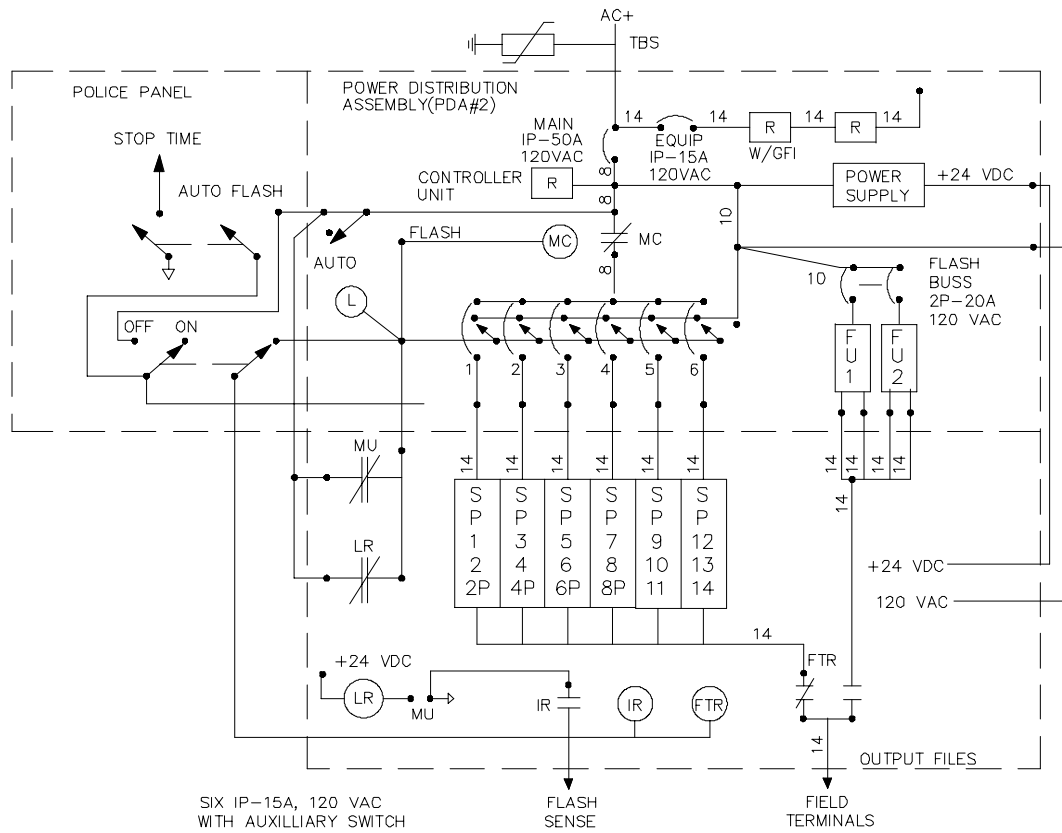
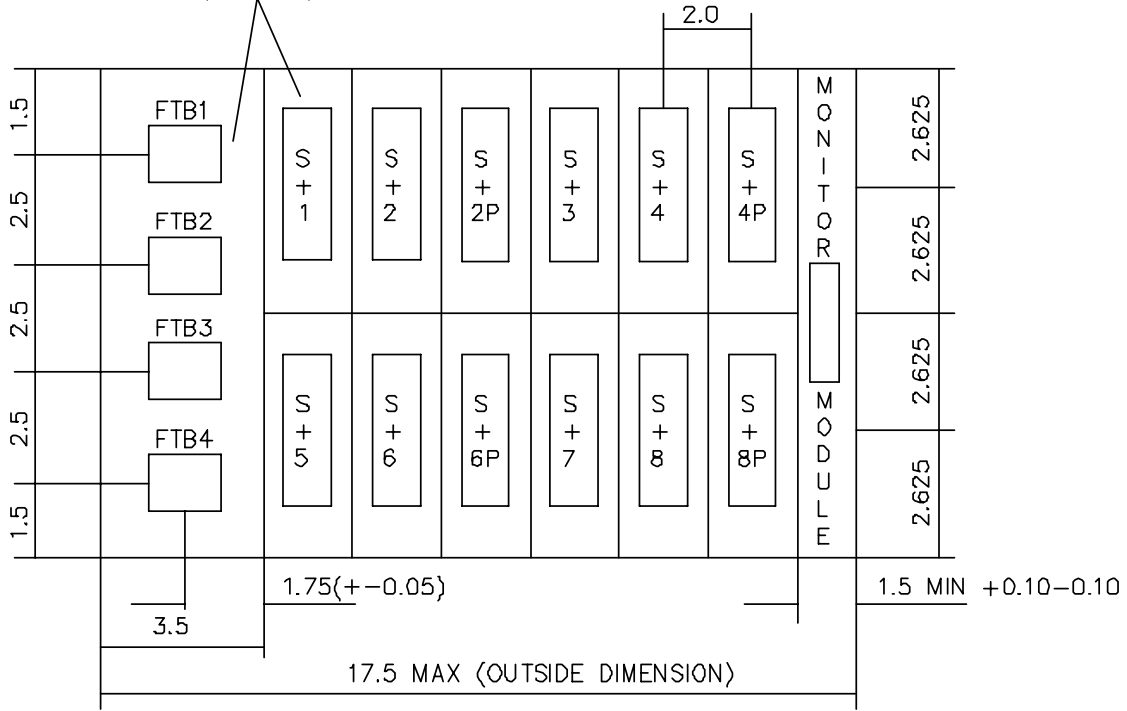
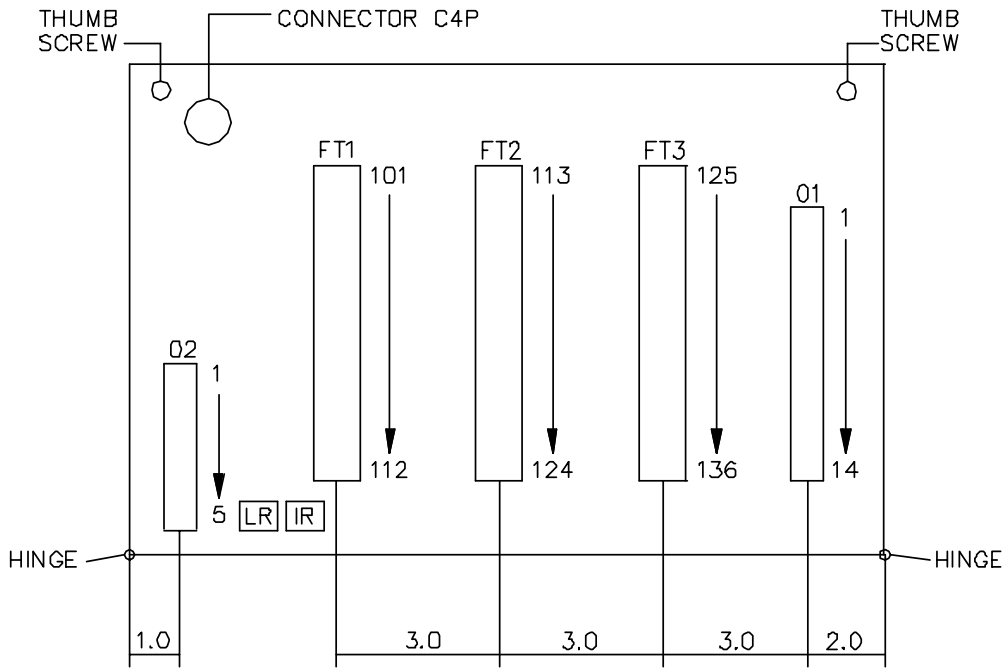


Figure 678-15: CIRCUIT BREAKER ONE LINE DIAGRAM

RELAY AND SWITCH PACK
 SOCKET LOCATIONS(TYPICAL)



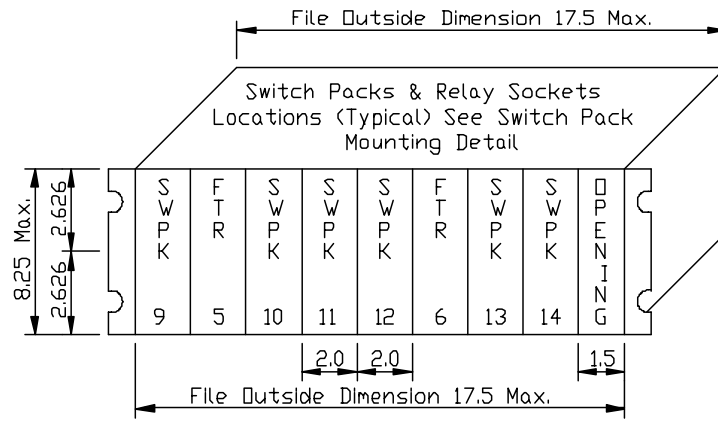
FRONT VIEW



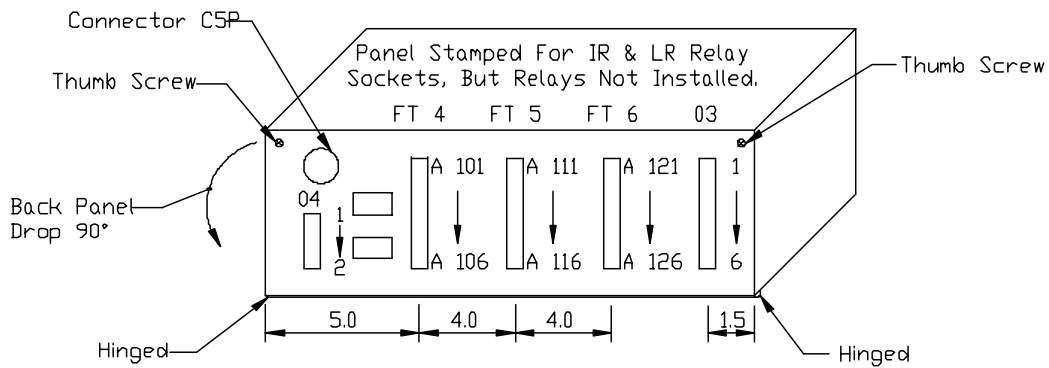
REAR VIEW

NOTE ALL DIMENSIONS ARE SHOWN IN INCHES

Figure 678-16: OUTPUT FILE # 1 DETAILS



FRONT VIEW



REAR VIEW

(Back Panel)

Note: All Dimensions Are Shown In Inches

Figure: 678-16A OUTPUT FILE #2 DETAILS

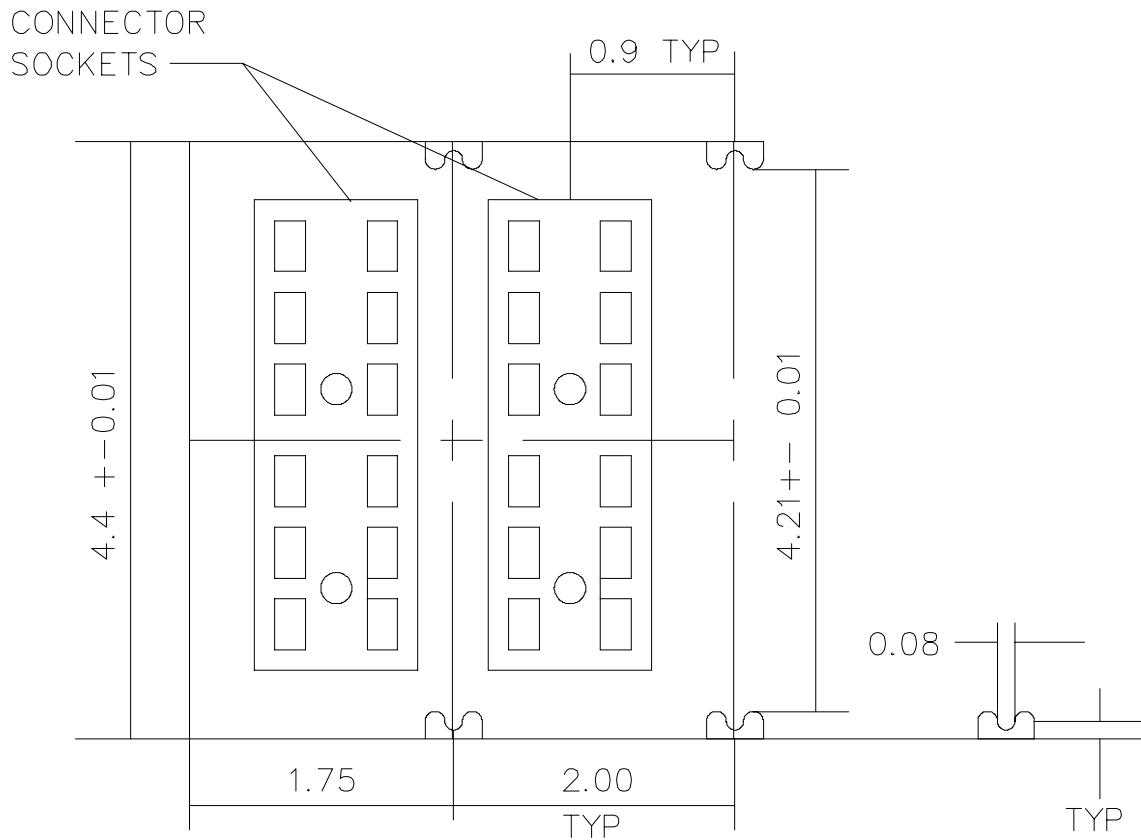


Figure 678-17: SWITCH PACK MOUNTING DETAIL
(Refer to Figure: 678-16 for the overview)

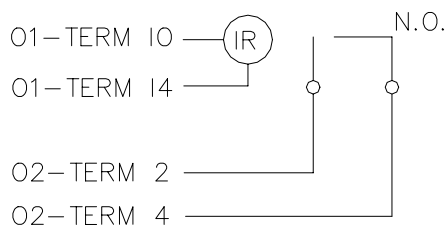


Figure 678-18: ISOLATION RELAY
DETAIL(IR)
(refer to 678-16)

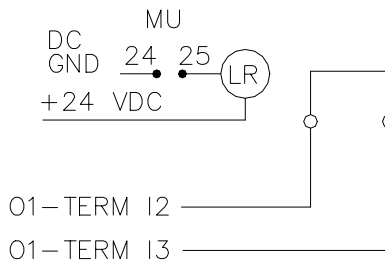
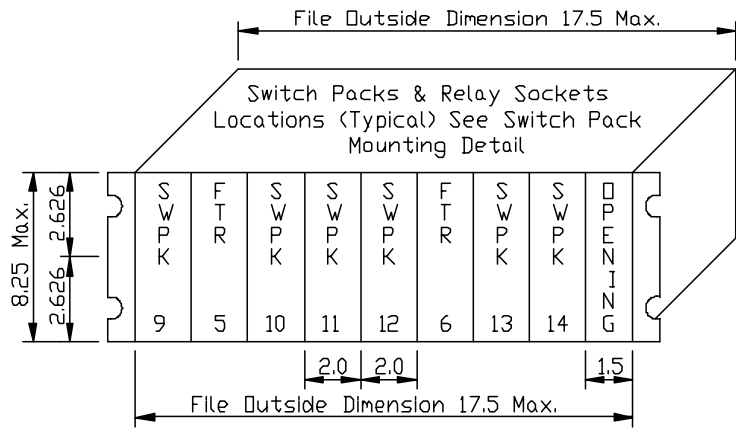
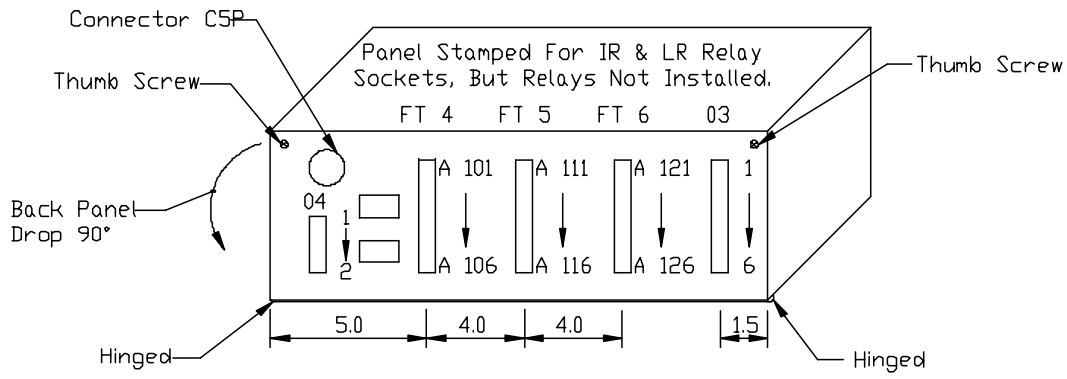


Figure 678-19: LOGIC RELAY
DETAIL(LR)
(refer to 678-16)



FRONT VIEW

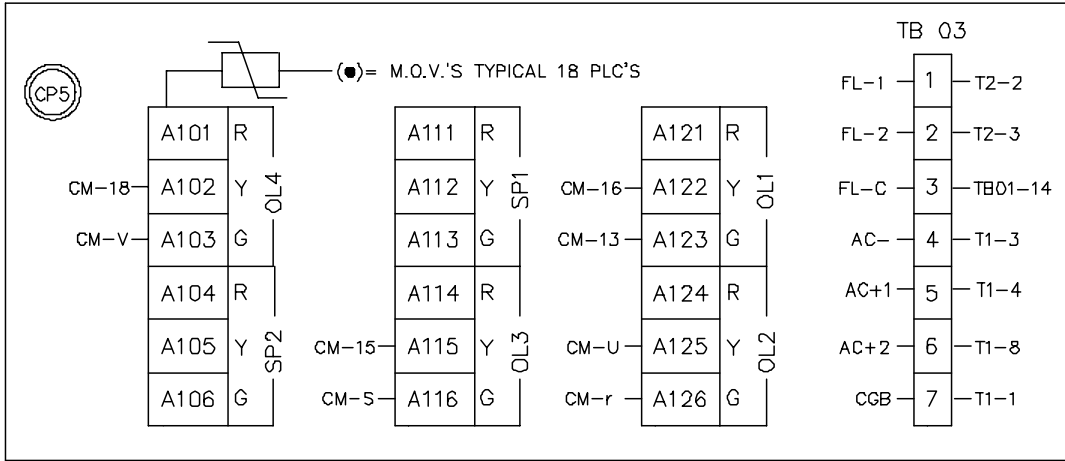


REAR VIEW
(Back Panel)

Note: All Dimensions Are Shown In Inches

Figure: 678-16A OUTPUT FILE #2 DETAILS

REAR VIEW



FRONT VIEW

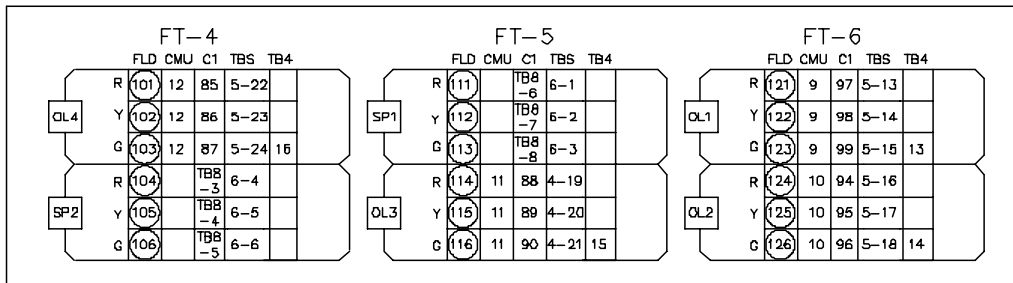
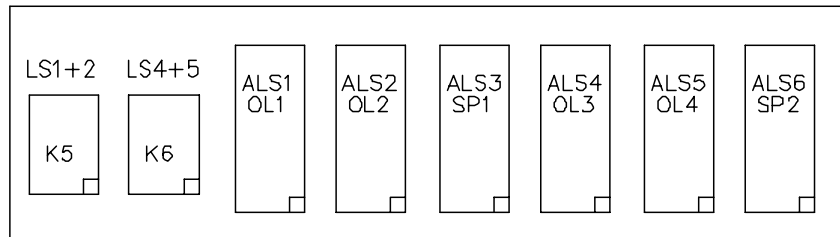


Figure 678-20A: OUTPUT FILE #2 INTERCONNECTION WIRING
DC-660A ONLY

TERMINAL TB01	T2	FUNCTION
1	7	PDA CKT 1/SWPKS 1,2,2P-1
2	8	PDA CKT 2/SWPKS 3,4,4P-1
3	9	PDA CKT 3/SWPKS 5,6,6P-1
4	10	PDA CKT 4/SWPKS 7/8/8P-1
5	2	PDA FU1 CKT1/FTR1 - 6
6	3	PDA FU1 CKT1/FTR2 - 5
7	4	PDA FU2 CKT1/FTR3 - 8
8	5	PDA FU2 CKT2/FTR4 - 7
9		EQUIPMENT GROUND TBS2-4
10		AC- TB01-9
11		AC+ (FROM PDA) T1-9, TB01-13
12		MC COIL (TO PDA) T-7
13		DOOR SWITCH (FROM POLICE PANEL) TB01-11
14		FTR COILS (TO) TB, TB3-9

TB02	FUNCTION
1	-24 VDC I1-8, T3-1
2	DC GROUND I1-A, T3-4
3	1F1-14J, STOPTIME (FROM MU) TB7-
4	1F1,14D, FLASH SENSE (FROM IR) TB7-3
5	EXTERNAL RESET (TO MU)
6	RED MONITOR (KRM) TB8-19

Figure 678-21: OUTPUT FILE #1 TERMINAL ASSIGNMENTS

TERMINAL TB03	T2	FUNCTION
1	2-2	PDA FUI CKT 1/ FTR5
2	2-3	PDA FU2 CKT 2/FTR6
3		FTR COILS (TO)
4	1-3	AC-
5	1-4	PDA CKT5/SWPKS 9, 10, 11-1
6	1-8	PDA CKT6/SWPKS 12, 13, 14-1
7	1-1	EQUIPMENT GROUND

Figure 678-21A: OUTPUT FILE #2 TERMINAL ASSIGNMENTS

FT TERMINAL OUTPUT FILE # 1	SWPK FUNCTION	FIELD SERVICE PANEL TBS
1-101	4-RED	4-10
1-102	4-YEL	4-11
1-103	4-GRN	4-12
1-104	4P-RED	6-4
1-105	4P- ϕ 3 ARROW	6-5
1-106	4P-GRN	6-6
1-107	8-RED	5-10
1-108	8-YEL	5-11
1-109	8-GRN	5-12
1-110	8P-RED	6-10
1-111	8P- ϕ 7 ARROW	6-11
1-112	8P-GRN	6-12
2-113	2P-RED	6-1
2-114	2P- ϕ 1 ARROW	6-2
2-115	2P-GRN	6-3
2-116	3-RED	4-7
2-117	3-YEL	4-8
2-118	3-GRN	4-9
2-119	6P-RED	6-7
2-120	6P- ϕ 5 ARROW	6-8
2-121	6P-GRN	6-9
2-122	7-RED	5-7
2-123	7-YEL	5-8
2-124	7-GRN	5-9
3-125	1-RED	4-1
3-126	1-YEL	4-2
3-127	1-GRN	4-3
3-128	2-RED	4-4
3-129	2-YEL	4-5
3-130	2-GRN	4-6
3-131	5-RED	5-1
3-132	5-YEL	5-2
3-133	5-GRN	5-3
3-134	6-RED	5-4
3-135	6-YEL	5-5
3-136	6-GRN	5-6

**Figure 678-22: INTERCONNECT HARNESS OUTPUT FILE #1
TO FIELD SERVICE PANEL**

FT TERMINAL OUTPUT FILE # 2	SWPK FUNCTION	FIELD SERVICE PANEL TBS
4-101	13 RED	5-22
4-102	13 YELLOW	5-23
4-103	13 GREEN	5-24
4-104	14 RED	6-4
A-105	14 YELLOW	6-5
A-106	14 GREEN	6-6
5-111	11 RED	6-1
5-112	11 YELLOW	6-2
5-113	11 GREEN	6-3
5-114	12 RED	5-19
5-115	12 YELLOW	5-20
5-116	12 GREEN	5-21
6-121	9 RED	5-13
6-122	9 YELLOW	5-14
6-123	9 GREEN	5-15
6-124	10 RED	5-16
6-125	10 YELLOW	5-17
6-126	10 GREEN	5-18

**Figure 678-22A: INTERCONNECT HARNESS OUTPUT FILE # 2
TO FIELD SERVICE PANEL**