

Wire No.	Terminal lug to	Crab-lok tip to
4068E18, item 45	S44A, deck 24, terminal D	E1P-6
4068F18, item 46	S44A, deck 24, terminal C	E1P-1
4068G18, item 47	S44A, deck 24, terminal B	E1Q-26
4068H18, item 48	S44A, deck 24, terminal A	E1Q-25
4069A18, item 49	S44A, deck 24, terminal H	E1Y-10

Note. Refer to TM 9-1440-250-35 for assistance in locating and installing components and assemblies in steps (19) through (21) below.

Wiring harness	Cable assembly	Equip with	Reidentify to
9978283, item 56, and	9030184	Sleeving, item 9	9978288
	8525736	Sleeving, item 5	9978093

(20) Secure the wires and wiring harness added to wiring harness 9978093 and 9978288 with insulation tape, item 24, as required. Make the above ties on the panel (5) and along side of control-indicator 9025515 only. Do not tie the cable assemblies under the crab-lok terminal strips at this time.

(21) Secure wiring harnesses 9978288 and 9978093 to the panel (5) and to the side of the control-indicator cabinet using the following items retained in *a*(10) above: 12 loop clamps (two 8168638, two 8168580, two 8168581, two 8176838, one 8168333, one 816-8639, one 8177444, and one MS39014-6); nine machine screws (six AN526-832-9, one AN515-8R18, one MS 35208-43, and one MS35208-46); 11 flat washers (six AN960D8 and five AN960D8L); one spacer NAS43DD3-32; and 10 self-locking hexagon nuts MS20365D832.

Note. The key numbers shown below in parentheses refer to figure 2 except where otherwise indicated.

(22) Install terminal board E36A, part of the wiring harness, item 57, on the launcher section relay rack (1) in accordance with figure 2, view A, and steps (a) and (b) below.

(a) Remove two machine screws AN 526-832-18, the two hexagon nuts (8), the four flat washers (7), and the two spacers (6) that secure the terminal board (2), at the high numbered end, to the relay rack

(19) Reidentify the wiring harness and cable assemblies listed in the following table by removing the existing identification sleeves and replacing them with the designated sleeving. Secure the identification sleeves with insulation tape, item 24.

(1). Discard two machine screws AN526-832-18 and retain the two hexagon nuts, four flat washers, and the two spacers.

(b) Install terminal board E36A above the terminal board (2) using the two machine screws, item 27, (4), the two sleeve spacers, item 30, (5), and the four flat washers (7), the two spacers (6), and the two hexagon nuts (8) retained in (a) above.

Note. Refer to TM 9-1440-250-35 for assistance in locating the relays, terminal boards, and cable assemblies in steps (24) through (30) below.

(23) Relocate and reidentify wire 36AL18 on relay rack 9025466 in accordance with (a) through (c) below.

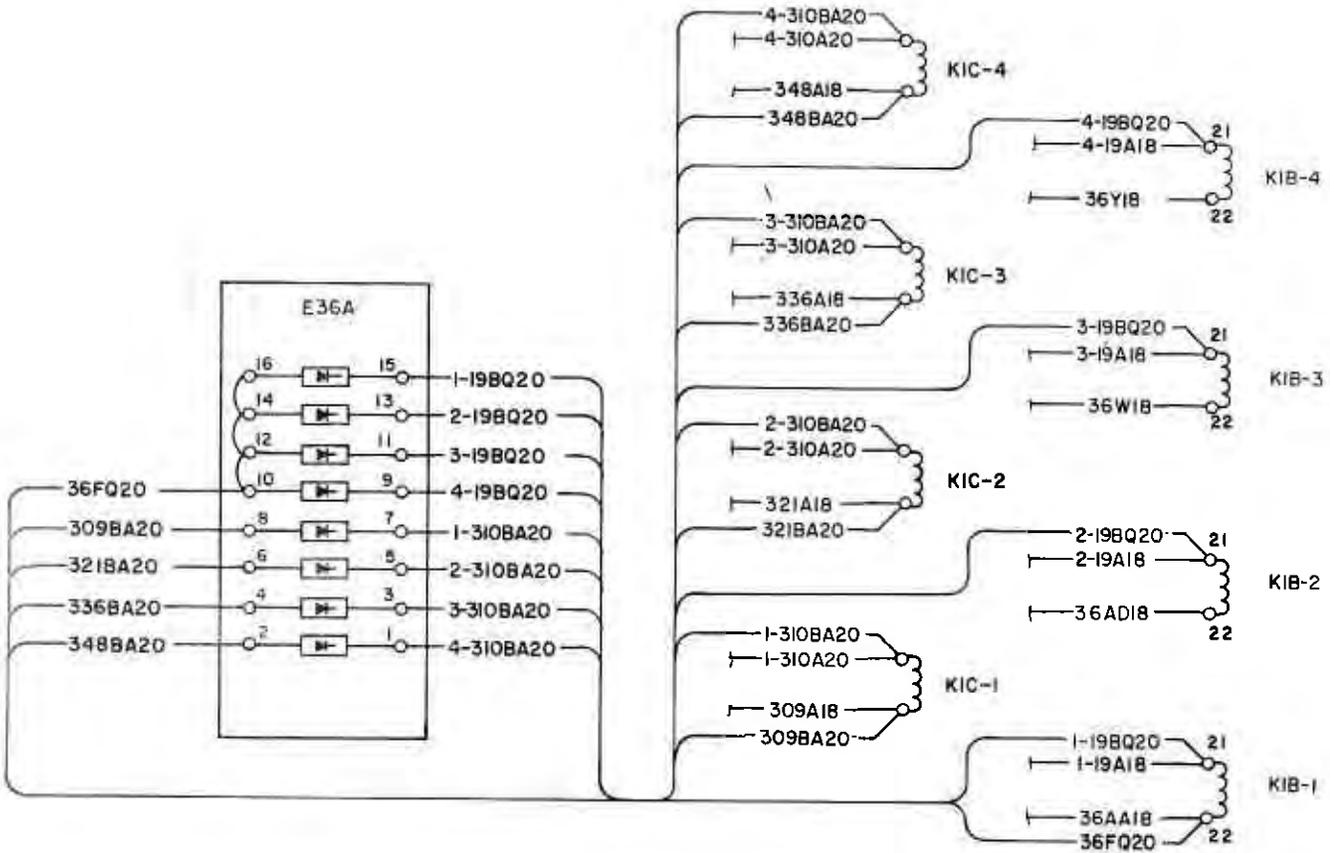
(a) Disconnect wire 36AL18 from terminal 5 of E2E and connect it to terminal 4.

(b) Fabricate two 2-inch wire markers from insulation sleeving 5970-295-7608 (existing stock) by splitting the sleeving and stamping 303BZ18 on each piece.

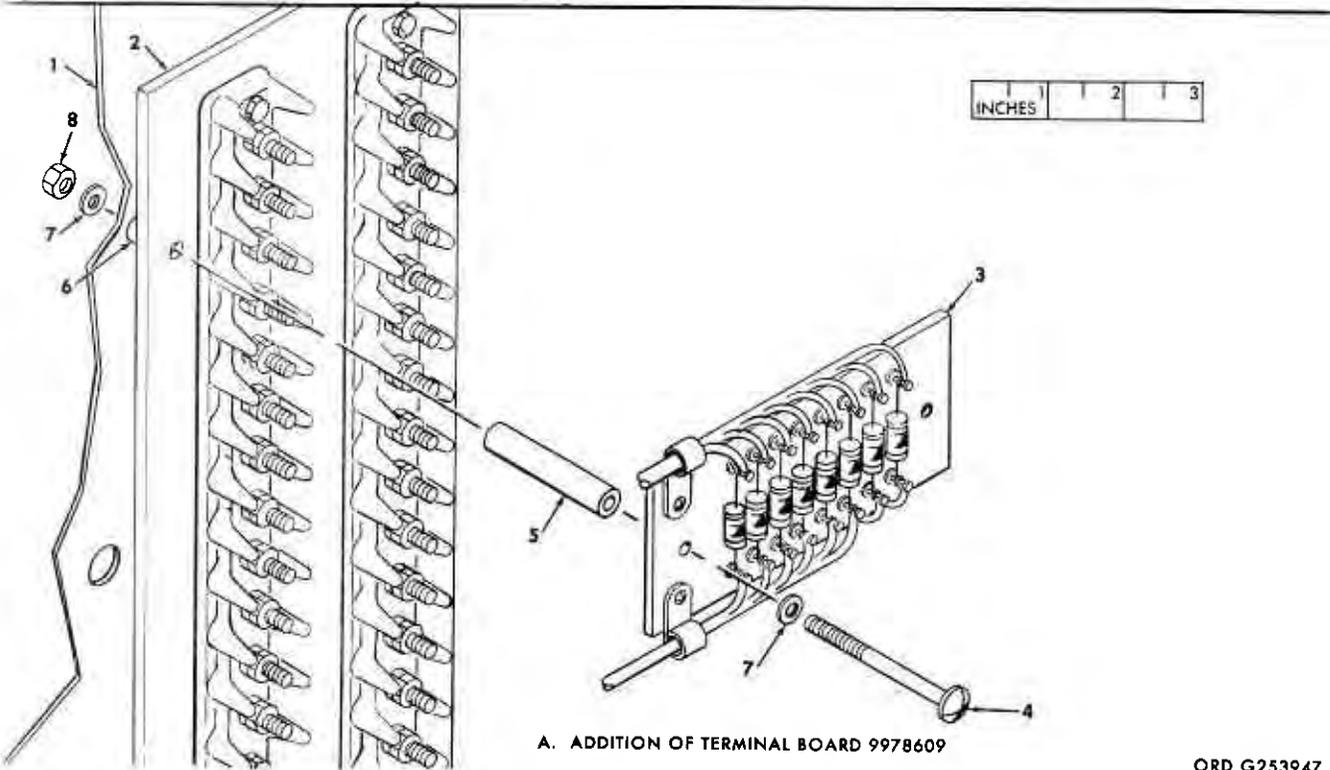
(c) Install a wire marker on each end of the wire relocated in (a) above.

(24) Remove and retain 9 of the loop clamps, the 9 round head screws, the 9 hexagon nuts, and the 11 flat washers that secure wiring harness 9025576 to the relay rack (1). The two loop clamps adjacent to relay K1AP and transformer T1A need not be removed.

MISSILE READY RELAYS & MISSILE AWAY RELAYS



A. BRANCHED WIRING HARNESS ASSY (ITEM 57) WIRING DIAGRAM



A. ADDITION OF TERMINAL BOARD 9978609

ORD G253947

Figure 2. Modification of launcher section relay rack 9025466.

- 1—Launcher section relay rack 9025466
- 2—Terminal board 8004700
- 3—Terminal board (E36A) 9978609
- 4—Machine screw, item 27

- 5—Sleeve spacer, item 30
- 6—Spacer NAS43DD3-32
- 7—Flat washer AN960-8L
- 8—Hexagon nut MS20365-832

Figure 2—Continued.

Note. Cut string ties as required to simplify addition, removal, or relocation of wires in the following steps.

- (25) Connect the wires of the wiring harness assembly, item 57, as indicated in the table below and figure 2, view B.

Note. The added wires are to be slipped through the insulation sleeves used with the existing wires on the relay terminals and insulated as one wire.

Wire No.	Solder to	Relay	Terminal
1-310BA20		K1C-1	22
309BA20		K1C-1	21
2-310BA20		K1C-2	22
321BA20		K1C-2	21
3-310BA20		K1C-3	22
336BA20		K1C-3	21
4-310BA20		K1C-4	22
348BA20		K1C-4	21
36FQ20		K1B-1	22
1-19BQ20		K1B-1	21
2-19BQ20		K1B-2	21
3-19BQ20		K1B-3	21
4-19BQ20		K1B-4	21

- (26) Remove and dispose of the jumper wire between E1Y-11 and E1Y-12.

- (27) Route the wires listed in the following table along wiring harness 9025576 and connect as indicated. Equip the ends of the wires to be soldered with insulation sleeving, item 23.

Wire No.	Crab-lok tip to	Opposite end to
32BE18, item 34	E1Y, terminal 14	K1C-1, terminal 12
4068A18, item 41	E1P, terminal 6	K1C-1, terminal 7
32BF18, item 35	E1Y, terminal 12	K1C-2, terminal 12
4068B18, item 42	E1P, terminal 1	K1C-2, terminal 7
32BG18, item 36	E1Y, terminal 11	K1C-3, terminal 12
4068C18, item 43	E1Q, terminal 26	K1C-3, terminal 7
32BH18, item 37	E1Y, terminal 13	K1C-4, terminal 12
4068D18, item 44	E1Q, terminal 25	K1C-4, terminal 7
365BA18, item 40	E1Q, terminal 16	K1M, terminal 7
173BJ18, item 39	E1L, terminal 3	E2F, terminal 9

- (28) Relocate the wires listed in the following table as indicated.

Wire No.	Disconnect from	Connect to
32J18	E1Y-11	E1Y-10
32N18	E1Y-11	E1Y-13
32K18	E1Y-12	E1Y-14
173M20	E1M-29	E1L-3
220C20	E1T-5	E1T-4

- (29) Reidentify the following wires by removing the existing identification sleeves and replacing them with the designated insulation sleeves. Secure the sleeves to the wires with the insulation tape, item 24, as required.

Wire No.	Location	Equipment with	Reidentified wire No.
1-17B14	E1K-5	Sleeving, item 16	1-2909H14
2-17B14	E1L-5	Sleeving, item 17	2-2909H14
3-17B14	E1M-5	Sleeving, item 18	3-2909H14
4-17B14	E1N-5	Sleeving, item 19	4-2909H14
173G18	E1N-4	Sleeving, item 11	303BL18
173H18	E1N-4	Sleeving, item 12	303BM18
173L18	E1N-4	Sleeving, item 13	303BN18
173G18	E1M-29	Sleeving, item 11	303BL18
173J18	E1M-29	Sleeving, item 14	303BR18
173K18	E1M-29	Sleeving, item 15	303BS18
32J18	E1Y-10	Sleeving, item 22	4069B18
32J18	K1M-5	Sleeving, item 22	4069B18
220C20	E1T-4	Sleeving, item 10	225BA20
220C20	S44A, deck 12, terminal H	Sleeving, item 10	225BA20

- (30) Reidentify the wiring harness and cable assemblies listed in the table below by removing the existing identification sleeves and replacing them with the designated insulation sleeves. Secure the insulation sleeves with insulation tape, item 24, as required.

Wiring harness	Cable assembly	To	Equip with	Reidentified to wiring harness
9025576	8525390	J4D	Sleeving, item 7	9978284
		Panel	Sleeving, item 3	9978285
	8525391	J4E	Sleeving, item 8	9978286
	8525392	J4F	Sleeving, item 4	9978085
	8525393	J4G	Sleeving, item 6	9978097
	8004942	J21A	Sleeving, item 29	9978282

(31) Secure wiring harness 9978285 to the relay rack (1) using the following items retained in a(24) above: three loop clamps 8168580, one loop clamp 8168638, four loop clamps 8168639, one loop clamp 8177444, nine round head screws 154993, 11 flat washers 8794649, and nine self-locking hexagon nuts 503238. (Use TM 9-1440-250-35 as a reference.)

Note. 1. If spare relays K9AZ-1 through K9AZ-4 are still present on relay panel 8166534, relay K9AZ-2 must be removed and discarded at this time.

Note. 2. The key numbers shown below in parentheses refer to figure 3 except where otherwise indicated.

(32) Install the timer (I20A), item 31, (2) on the relay panel (1) retained in a (2) above, using the two flat washers, item 33, (3), the two lockwashers, item 32, (4), and the two hexagon nuts, item 25, (5) as shown in figure 3.

(33) Connect the wires listed in the following table as indicated and insulate the connections as required with insulation sleeving, item 23. Tie the added wires to wiring harness 8166673 using insulation tape, item 24.

Wire No.	Connect to	and	Connect to
405BD22, item 51	J65B-A		I20A-4
36EZ22, item 50	J65B-C		I20A-2
407BE22, item 52	J65B-B		E29A-16
407BF22, item 53	E29A-16		I20A-1
407BG22, item 54	E29A-16		I20A-6

(34) Disassemble electrical plug connector P65B and remove and retain the two round head screws, the two flat washers, the two loop clamps, and the two hexagon nuts used to secure cable as-

sembly 8165879 to the control-indicator cabinet.

(35) Connect the wiring harness, item 55, as outlined in the table below.

Wire No.	Solder to	Crab-lok tip to	Common to	or Opposite
405BC22	P65B-A	E1Y-29	40BB33	
407BC22	P65-BB	E1Y-28	407BD22	
36EY22	P65B-C	E1Y-24		36BF16

(36) Secure the wiring harness, item 55, to cable assembly 8165879 with insulation tape, item 24, and install the two loop clamps 8168638, the two round head screws AN526-832-9, the two flat washers AN960D8, and the two hexagon nuts MS20365D832 retained in a(34) above. Reassemble the electrical plug connector P65B that had been disassembled in a(34) above also.

(37) Reidentify the cable assembly and wiring harnesses listed in the following table by removing the existing identification sleeves and replacing them with the designated insulation sleeves. Secure the insulation sleeves with insulation tape, item 24.

Wiring harness	Cable assembly	Equip with	Reidentified to
8166673	and	Sleeving, item 20	9978095
9978090	8165879	Sleeving, item 21	9978094

(38) Perform the following resistance checks on the modified control-indicator 9025515, using multimeter TS-35/U 6625-242-5023. Position the launcher section operating panel switches in either the OFF, NONE, AUTO, or normal positions before beginning the checkout below.

Note. Continuity means less than one ohm; discontinuity means infinity.