



# SCHWEIZER SERVICE NOTICE

DATE 19 APRIL 1982

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Service Information Notice  
dated 11 May 1981

MANDATORY

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**SUBJECT:** INSTRUMENT CLUSTER 3-PACK CONVERSION - AC TO ROCHESTER  
(28 VOLT)

**MODELS AFFECTED:** Model 269A (TH-55A) Helicopter Serial No. 0315 through 1110  
Model 269A-1 Helicopter Serial No. 0019 through 0041  
Model 269B Helicopter Serial No. 0001 through 0463  
Model 269C Helicopter Serial No. 0001 through 0949

**TIME OF COMPLIANCE:** Shall be accomplished at next replacement of instrument  
cluster 3-pack assemblies.

**PREFACE:** The information given in this Service Information Notice lists a procedure  
for conversion from AC to Rochester instrument cluster 3-pack assemblies.  
The AC instrument cluster 3-pack assemblies are no longer available from  
the manufacturer. Therefore, when replacement becomes necessary, they  
must be replaced with Rochester instrument cluster 3-pack assemblies.

#### Reference

Model 269 Series Basic HMI Issued 1 April 1980

Model 269 Series HMI Configuration Supplement A/A-1 Issued 1 April 1973

Model 269 Series HMI Supplement B Issued 1 March 1973

Model 269 Series HMI Supplement C Issued 1 April 1980

Model 269 Series HMI Supplement TH-55A Issued 1 February 1972;  
Revision No. 1, 15 October 1978

( | ) Denotes portion of text added or revised

## PARTS LIST

When ordering, specify:

Kit No. M10119-1 for Model TH-55A Helicopters (28V)

Kit No. M10119-3 for Model 269C Helicopters (28V)

Kit No. M10119-5 for Model 269C Helicopters (14V)

Kit No. M10119-11 for Model 269A-1 Helicopters (14V)

Kit No. M10119-13 for Model 269B Helicopters (SN 0001-0307) (14V)

Kit No. M10119-15 for Model 269B Helicopters (SN 0308-0463) (14V)

Nomenclature	Part No.	Qty						Mfr
		-1	-3	-5	-11	-13	-15	
Doubler	M10119-9	-	1	1	-	1	1	HHI
Boltlite assy	5952-8ND-R28 (Alt: 5952-8QD-28)	4	4	-	-	-	-	Glar-Ban
Boltlite assy	5952-8ND-R14	-	-	4	4	4	4	Glar-Ban
Sender, fuel level	7740-00190	1	1	1	1	1	1	Rochester Gages
Sender, fuel pressure	3060-00020	1	1	1	1	1	1	Rochester Gages
Probe, cylinder head temp	3080-00014	1	1	1	1	1	1	Rochester Gages
Sender, oil pressure	3060-00018	1	1	1	1	1	1	Rochester Gages
Sensor, oil temp	3080-00037	1	1	1	1	1	1	Rochester Gages
Instrument cluster assy	269A4106	1	1	-	-	-	-	HHI
Instrument cluster assy	269A4106-501	-	-	1	-	-	1	HHI
Instrument cluster assy	269A4107	-	1	-	-	-	-	HHI
Instrument cluster assy	269A4107-501	-	-	1	-	-	-	HHI
Instrument cluster assy	269A4127-501	-	-	-	1	1	-	HHI
Instrument cluster assy	269A4128	1	-	-	-	-	-	HHI
Instrument cluster assy	269A4128-501	-	-	-	1	1	1	HHI
Shield, support	269A4292-5	1	-	-	-	-	-	HHI
Shield, support	269A4292-7	-	-	-	1	-	-	HHI
Terminal	31880	2	2	2	2	2	2	Amp Inc
Terminal	31889 (Alt: MS25036-103)	15	15	15	15	15	15	Amp Inc
Splice	MS25181-2	15	16	15	15	15	15	Commercial
Screw, brass	MS35214-27	-	4	4	-	4	4	Commercial
Screw	AN515-8R8	8	-	-	6	-	-	Commercial
Washer	AN960PD8L	8	-	-	6	-	-	Commercial
Nut, clip	MS33737-12	-	4	4	-	4	4	Commercial
Rivet	MS20426AD4-6	-	15	15	-	15	15	Commercial
Rheostat	0107	-	-	1	-	-	-	Ohmite
Rheostat	0115	1	1	-	-	-	-	Ohmite
Decal	269A4646-151	1	-	-	-	-	-	HHI
Decal	269A4646-175	1	1	1	1	1	1	HHI
Decal	269A4646-227	-	1	-	-	-	-	HHI
Decal	269A4646-229	-	-	1	-	-	-	HHI
Decal	269A4646-231	-	-	-	-	1	1	HHI

## TOOLS AND EQUIPMENT

Rivetgun

Saw, metal cutting

Drill bit, No. 15

Drill bit, No. 17

Drill bit, No. 30

## MATERIALS

Wire, 20 AWG, MIL-W-5086A, Type II

Filler, Kwik Kure No. 248, Tool Chemical Co. (DeLorme Marketing) or  
Akemi No. 7, Akemi Chemical

Primer, zinc chromate; TT-P-1757

## REWORK PROCEDURE

- a. Turn off electrical power.
- b. Remove fairing assembly from instrument panel. (Refer to Section 14 of Basic HMI.)
- c. (Model 269B and Model 269C only) Modify instrument panel and install new instrument cluster assemblies as follows:
  1. Remove existing instrument cluster assemblies from instrument panel. (Refer to Section 14 of Basic HMI.)

## CAUTION

When modifying instrument panel, ensure that no metal chips fall into instruments or wiring and remove burrs as necessary.

2. Modify instrument panel openings as shown in Figure 1. Use metal cutting saw.
3. Locate doubler on instrument panel. (See Figure 1.)
4. Drill fifteen 0.135/0.128 inch diameter holes in instrument panel through pilot holes in doubler. Use No. 30 drill.
5. Attach doubler to instrument panel with 15 rivets. Install rivets double flush and with zinc chromate primer.
6. Locate and drill four 0.177/0.169 inch diameter holes in instrument panel and doubler. Use No. 17 drill. (See Figure 1.)
7. Locate and drill four 0.182/0.176 inch diameter holes in instrument panel and doubler. Use No. 15 drill. (See Figure 1.)
8. Install PN 269A4106, 269A4106-501 or 269A4127-501 instrument cluster assembly in upper opening of instrument panel; and PN 269A4107, 269A4107-501 or 269A4128-501 instrument cluster assembly in lower opening. Secure each instrument cluster assembly with two screws and two nuts.
9. Install four boltlite assemblies on instrument panel. (See Figure 1.)

NOTE

Boltlite assembly mounting holes will be obstructed by instrument cluster assembly flange. Drill through mounting holes and flange with No. 15 drill and remove any burrs.

10. Install PN 269A4646-227 (269C helicopter serial nos. 0210 through 0949) or PN 269A4646-229 (269C helicopter serial nos. 0001 through 0209) decal on instrument panel. (See Figure 1.)
  11. Install PN 269A4646-231 decal on instrument panel (269B helicopters only).
  12. Fill existing holes in instrument panel with Kwik Kure No. 248 or Akemi No. 7 per manufacturer's instructions and touch up per Basic HMI.
- d. Install instrument cluster assemblies on console as follows:  
(Model 269A-1 and TH-55A only) (See Figure 2.)
1. Remove and retain hardware attaching support shield to console. Disconnect instrument cluster assembly wiring and remove support shield and instrument cluster assemblies.

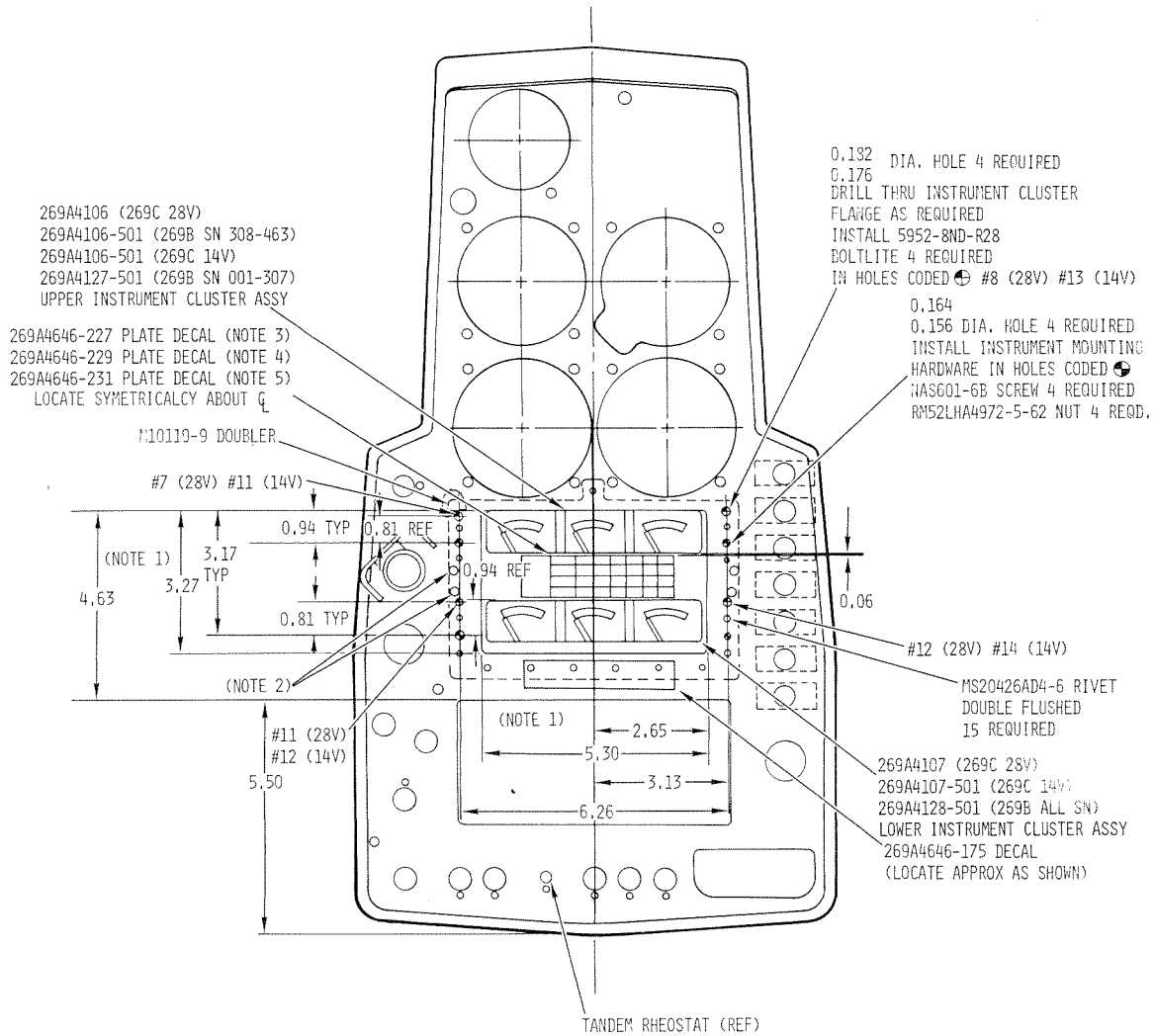
2. Install PN 269A4106 (TH-55A) or 269A4127-501 (269A-1) instrument cluster assembly in upper opening and PN 269A4128 (TH-55A) or 269A4128-501 (269A-1) instrument cluster assembly in lower opening of new support shield. Secure each instrument cluster assembly to support shield with two boltlite assemblies.
  3. Install new 269A4292-5 (TH-55A) or 269A4292-7 (269A-1) support shield, and instrument cluster assemblies on console with hardware retained in Step 1 above.
  4. Install PN 269A4646-151 decal as shown.
- e. Replace senders as follows:
1. Remove existing fuel quantity sender and install new fuel quantity sender. (Refer to Section 5 of Basic HMI.)
  2. Remove existing fuel pressure sender and install new fuel pressure sender. (Refer to Section 5 of Basic HMI.)
  3. Remove existing cylinder head temperature probe and install new cylinder head temperature probe.
  4. Remove existing oil pressure sender and install new oil pressure sender. (Refer to Section 6 of Basic HMI.)
  5. Remove existing oil temperature sensor and install new oil temperature sensor. (Refer to Section 6 of Basic HMI.)
- f. Rework electrical system components and wiring as shown in Figure 3.
- g. Check all wiring for proper routing, termination and security.
- h. Turn on electrical power and check all instruments for proper operation.
- i. Reinstall fairing assembly on instrument panel. (Refer to Section 14 of Basic HMI.)
- j. Install PN 269A4646-175 decal on instrument panel as shown in Figure 1.
- k. Record compliance with this Service Information Notice in Compliance Record of helicopter Log Book.

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WEIGHT AND BALANCE DATA

Weight and balance not affected

The resultant alteration to the affected helicopters described by the rework procedure in this Notice has been shown to comply with the applicable Federal Aviation Regulations and is FAA Approved.

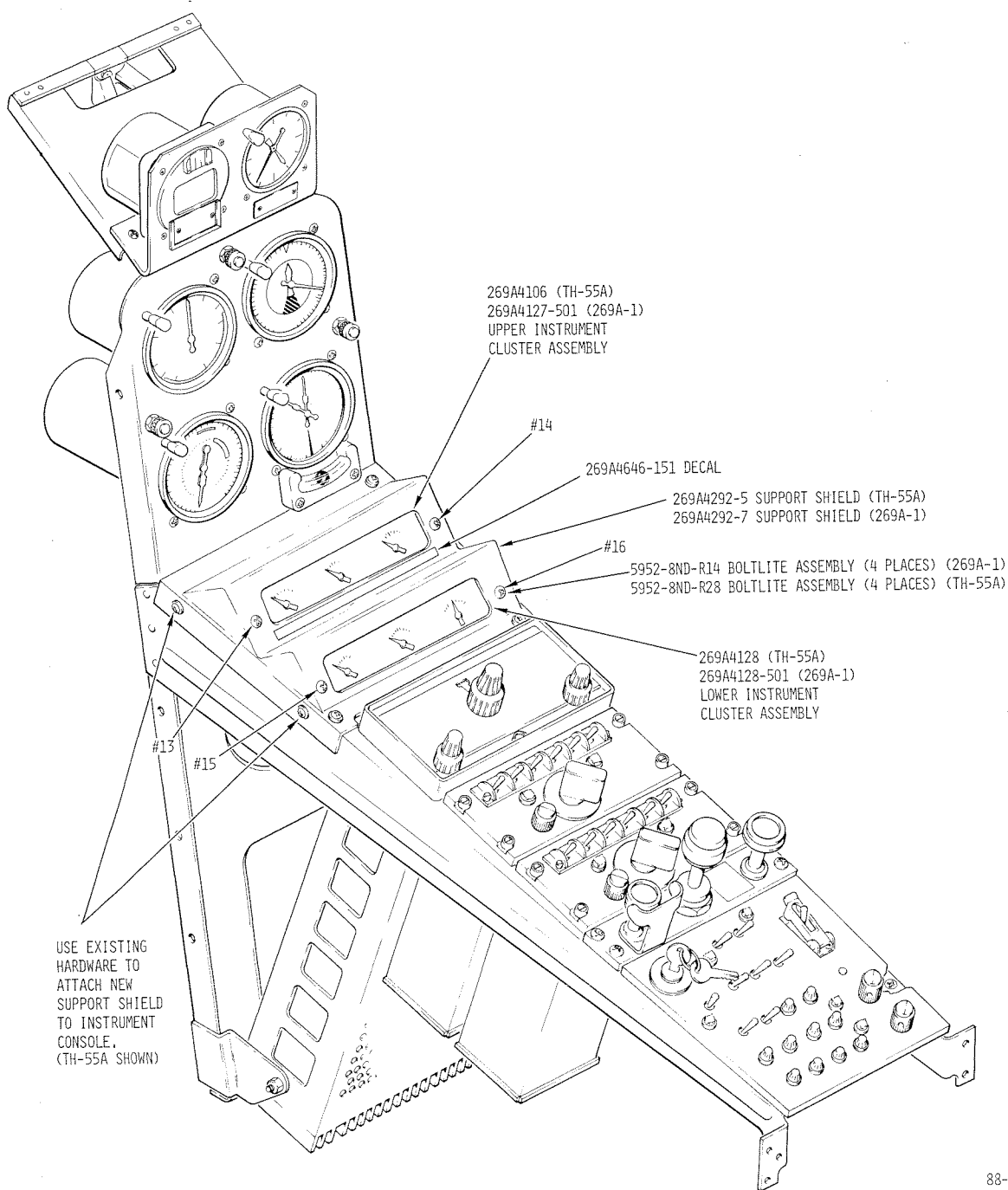


NOTES:

1. MODIFY EXISTING PANEL OPENINGS TO DIMENSIONS INDICATED, LOCATE AS SHOWN.
2. FILL EXISTING HOLES WITH KWIK KURE NO. 248 OR AKEMI NO. 7 AND TOUCHUP PAINT TO MATCH PANEL.
3. USED ON MODEL 269C SERIAL NO. 0210 THRU 0949.
4. USED ON MODEL 269C SERIAL NO. 0001 THRU 0209.
5. USED ON MODEL 269B ALL SN.

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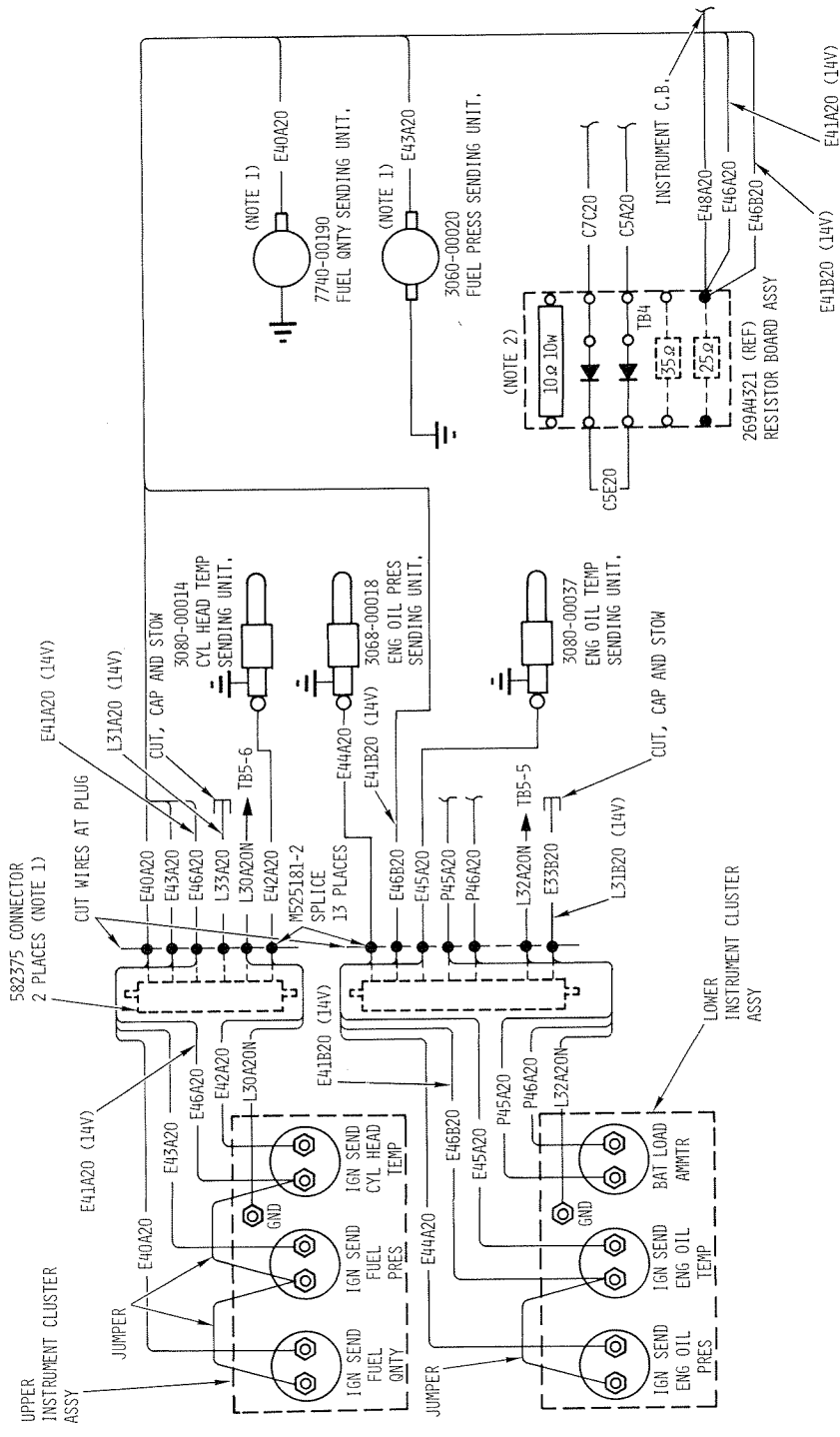
Figure 1. Modification of Instrument Panel (Model 269B and 269C)



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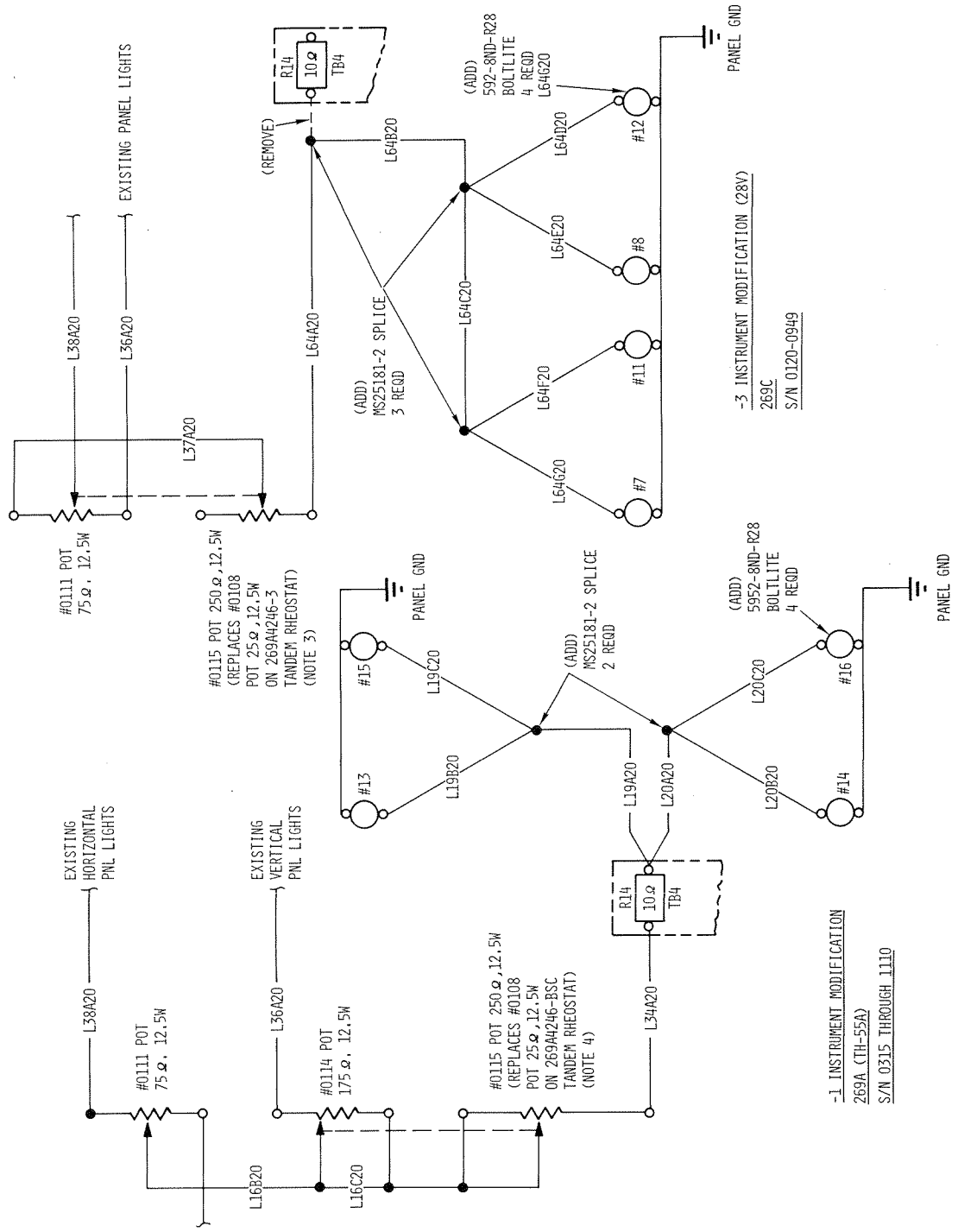
Figure 2. Installation of Instrument Cluster Assemblies  
(Model 269A-1 and TH-55A)





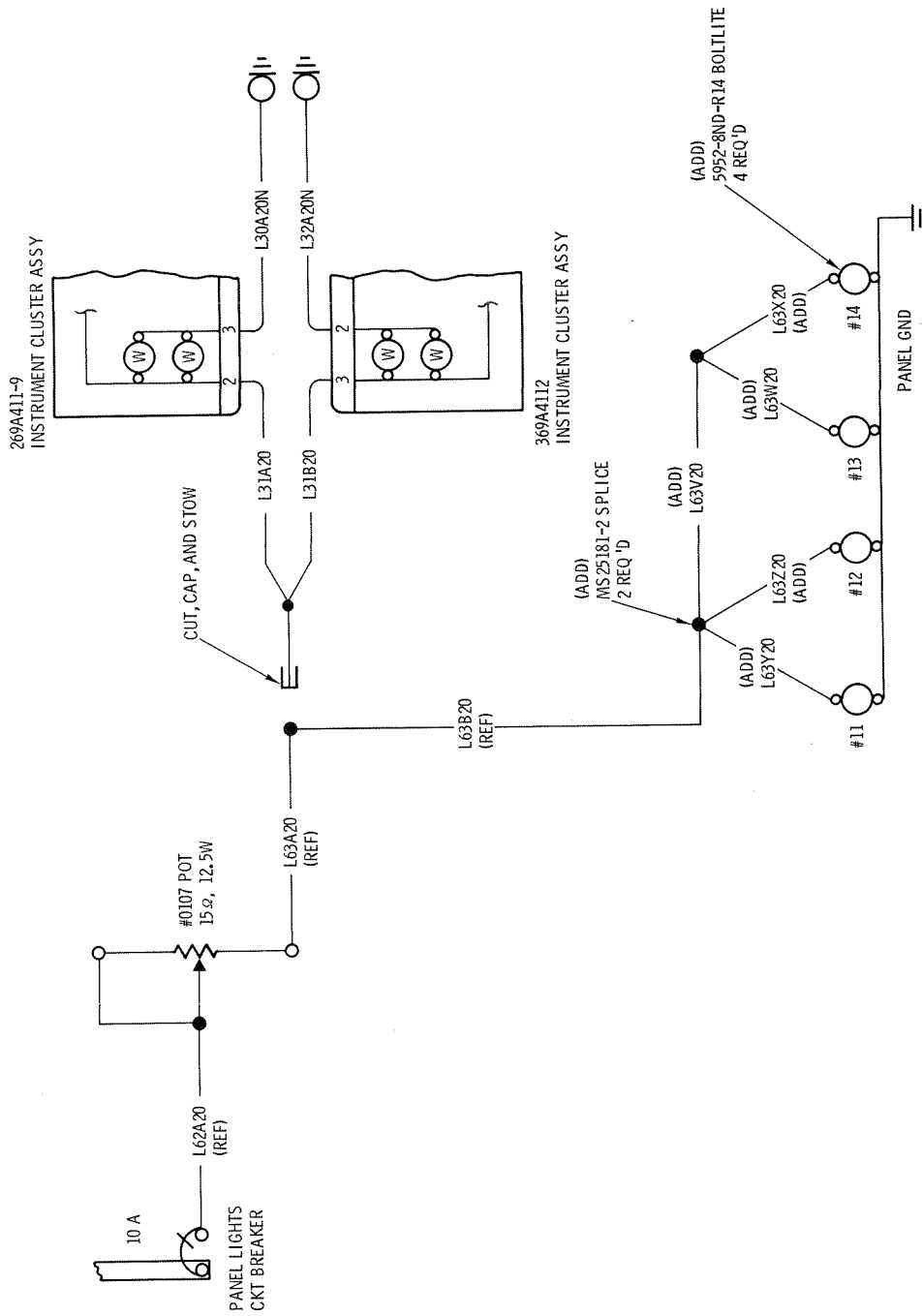
- NOTES**
1. REMOVE 582375 CONNECTORS FROM EXISTING WIRES AND REPLACE WITH APPROPRIATE AMP INC. TERMINAL
  2. REMOVE 25 OHM RESISTERS FROM TERMINAL BOARD ASSY. WIRE NOS. E48A20 E46A20 AND E46B20 MAY BE SPLICED TOGETHER OR TERMINATED AT A COMMON TERMINAL STUD ON TERMINAL BOARD ASSY.
  3. REIDENTIFY ALTERED TANDEM RHEOSTAT AS 269A4246-13
  4. REIDENTIFY ALTERED TANDEM RHEOSTAT AS 269A4246-11

Figure 3. Wiring Diagram



88-425-1A

Figure 4. Instrument Modification (Sheet 1 of 2)



88-425-2

Figure 4. Instrument Modification (Sheet 2 of 2)

