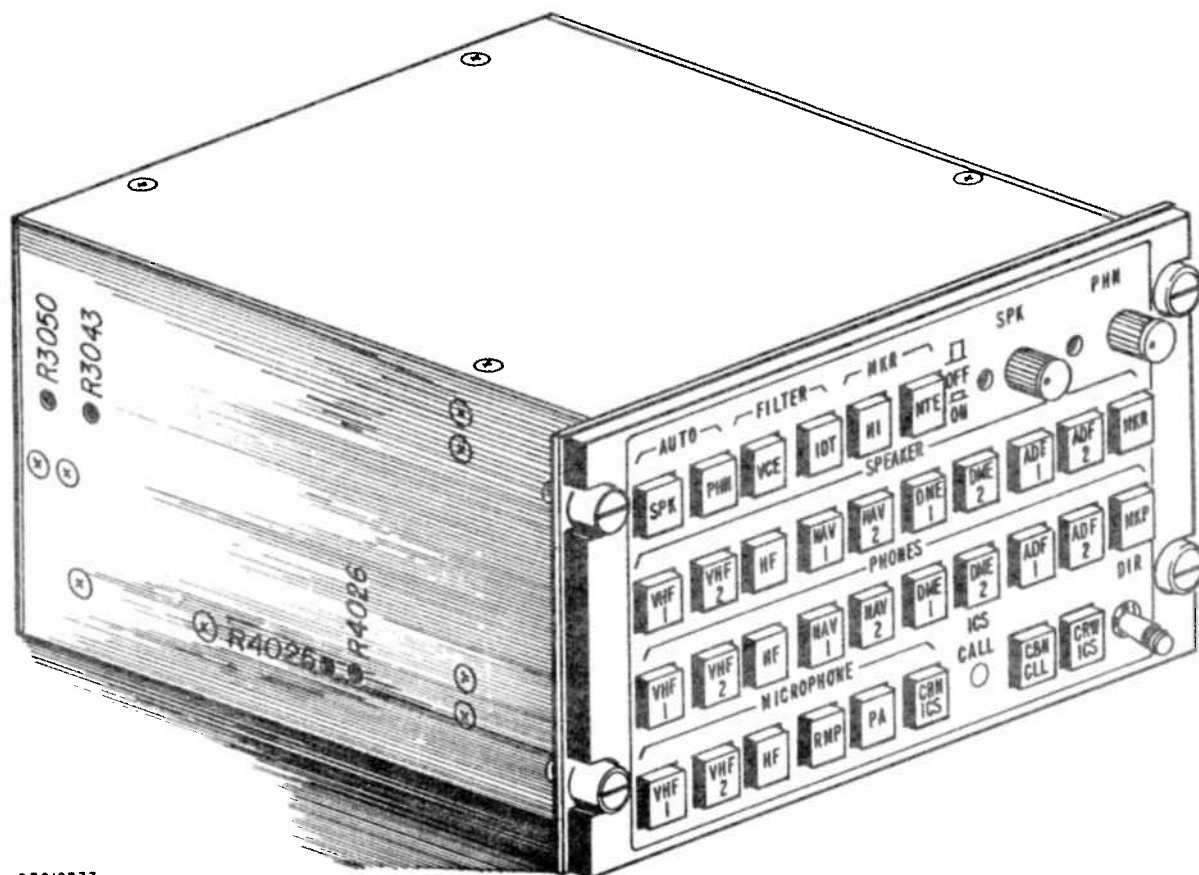


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ACS-45A AUDIO CONTROL SYSTEM



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ACS-45A Audio Control System
Figure 1-0

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3. Additional Equipment Required for Complete Installation

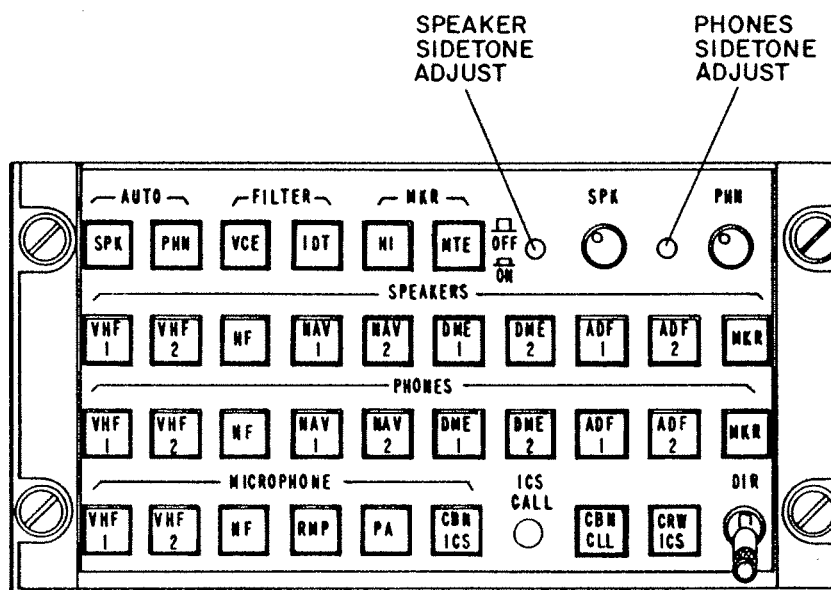
Additional equipment required for complete installation of the AS-451() Audio Control Unit is listed in table 1-3. When a Bendix part number is not provided, the equipment is either not available from Bendix or is considered standard type equipment. In either case, use the descriptive information to select equipment with similar characteristics.

EQUIPMENT	BENDIX PART NUMBER	DESCRIPTION
Power Source	--	+27.5 Vdc, 3A
Interwiring Harness	--	Refer to single and dual installation interwiring diagrams in Part 2 of this manual.
Connector Kit	3605833-4511	Connector kit is used to connect AS-451() system interwiring harness to Audio Control Panel connectors. Kit includes: a. AS-451() J26 mating connector, female, 24220-0041, type RD50F110JVL b. AS-451() J25 mating connector, male, 24220-0042, type RD50M110JVL
Pilot Headset	--	Impedance Mic: 50-100 ohms Impedance Phones: 50-600 ohms Frequency: 100 Hz - 8 kHz

Additional Equipment Required
Table 1-3 (Sheet 1 of 2)

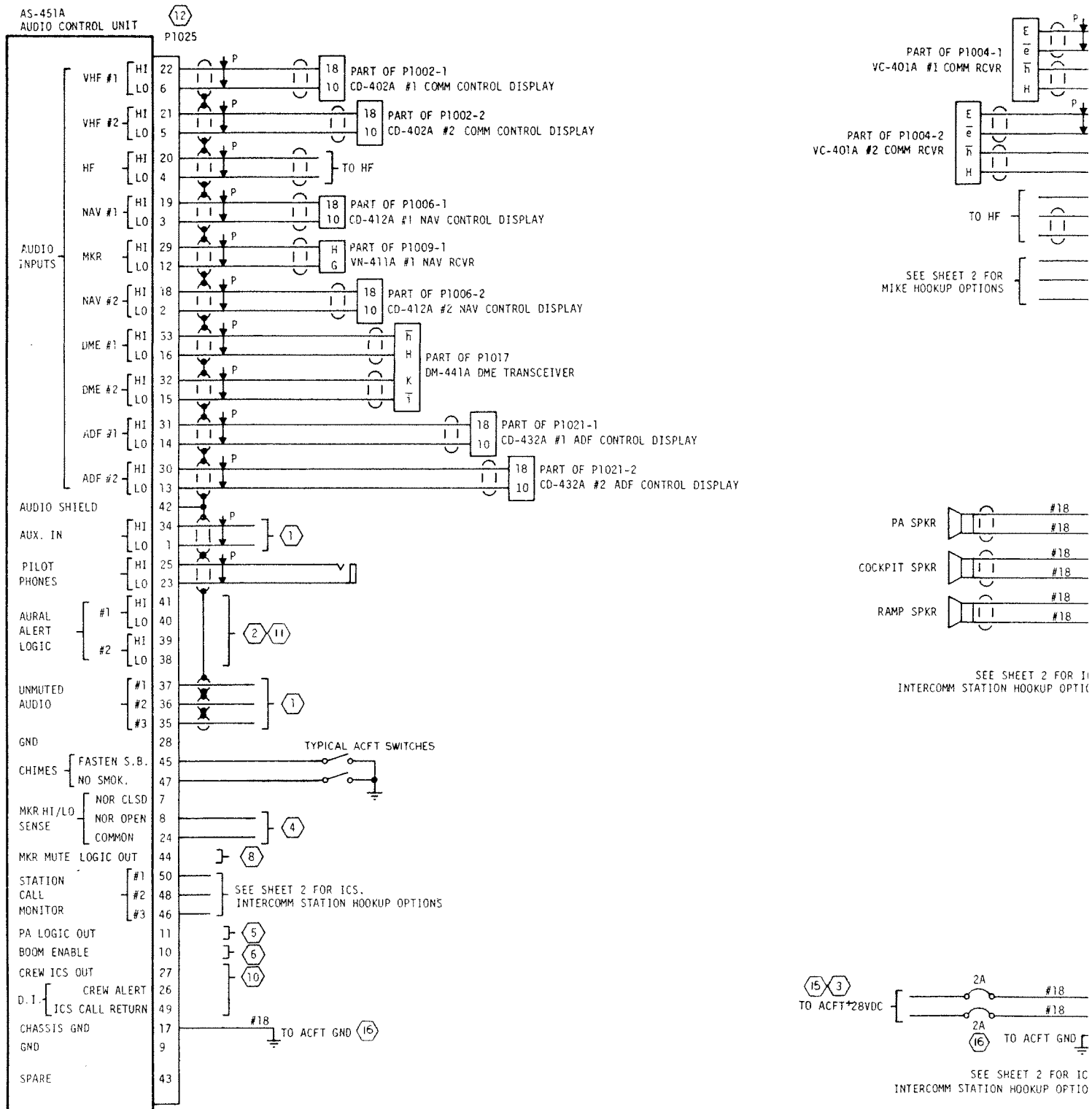
6.B.

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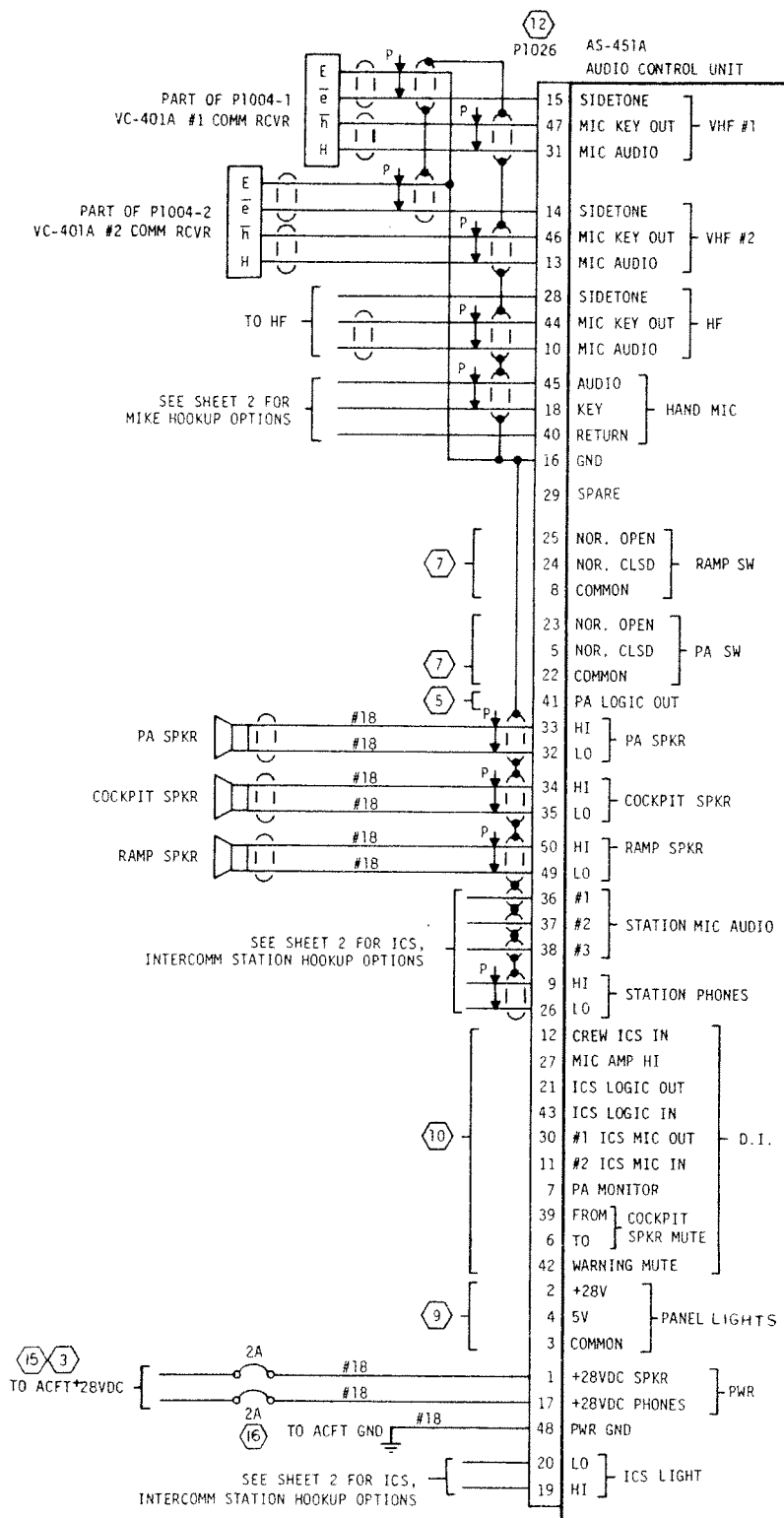
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(SHT 1 OF 2)

AS-451A Audio Control Unit, Interwiring Diagram
for Single Installations
Figure 1-3 (Sheet 1 of 2)



NOTES:

- (1) EXTERNALLY VARIABLE AUDIO INPUT, 600 OHM IMPEDANCE.
- (2) RESPONDS TO LOGIC LEVEL: H-28VDC MAX., L-LOGIC GROUND.
- (3) +28VDC SPKR PWR CONNECTS TO NON ESSENTIAL BUS.
+28VDC PHONES PWR CONNECTS TO ESSENTIAL BUS.
- (4) SEE SYSTEM INTERWIRING DIAGRAM, VNS-41A.
- (5) PROVIDES GND WHEN "PA" SWITCH IS DEPRESSED.
- (6) ACTIVATES BOOM MIKE WHEN CBN ICS IS PRESSED BY PROVIDING THE LO AUDIO SIDE.
- (7) USER DEFINED SWITCH FUNCTIONS.
- (8) PROVIDES 30 SEC. LOW, LOGIC GND, 300 MA SINKING CAPABILITY.
- (9) SELECT APPROPRIATE PIN TO MATCH PANEL DIMMER SUPPLY.
- (10) USED FOR DUAL AS-451A INSTALLATIONS ONLY, SEE I.B. 2045A., DUAL INSTALLATION WIRING DIAGRAM.
- (11) THESE AURAL ALERT INPUTS SHOULD NOT BE USED AS THE AIRCRAFT'S PRIMARY WARNING SYSTEM.

(12) J25 = UNIT CONNECTOR
BENDIX P/N 24220-0029
POSITRONICS P/N MD50F5BOV3
MATING CONNECTOR
BENDIX P/N 24220-0042
POSITRONICS P/N RD50FHIOJVL

J26 = UNIT CONNECTOR
BENDIX P/N 24220-0028
POSITRONICS P/N MD50M5BOV3
MATING CONNECTOR
BENDIX P/N 24220-0041
POSITRONICS P/N RD50FHIOJVI

13. WIRES MARKED #18 ARE SHOWN FOR INSTALLATIONS WHERE WIRE RUNS ARE IN EXCESS OF 25 FT. WHEN #18 IS INSTALLED USE SHORT #20 TRANSITION TO FIT CONNECTOR PIN.

14. P INDICATES TWISTED PAIR

T INDICATES TWISTED TRIPLE WIRE

- (15) IF A PARTICULAR INSTALLATION IS NOISY, CONSIDERATION SHOULD BE GIVEN TO THE FOLLOWING WIRING OPTIONS:

(A) TO ACFT +28VDC

2A L1 #18 J1026-1

2A L2 #18 J1026-17

OR

(B) TO ACFT +28VDC

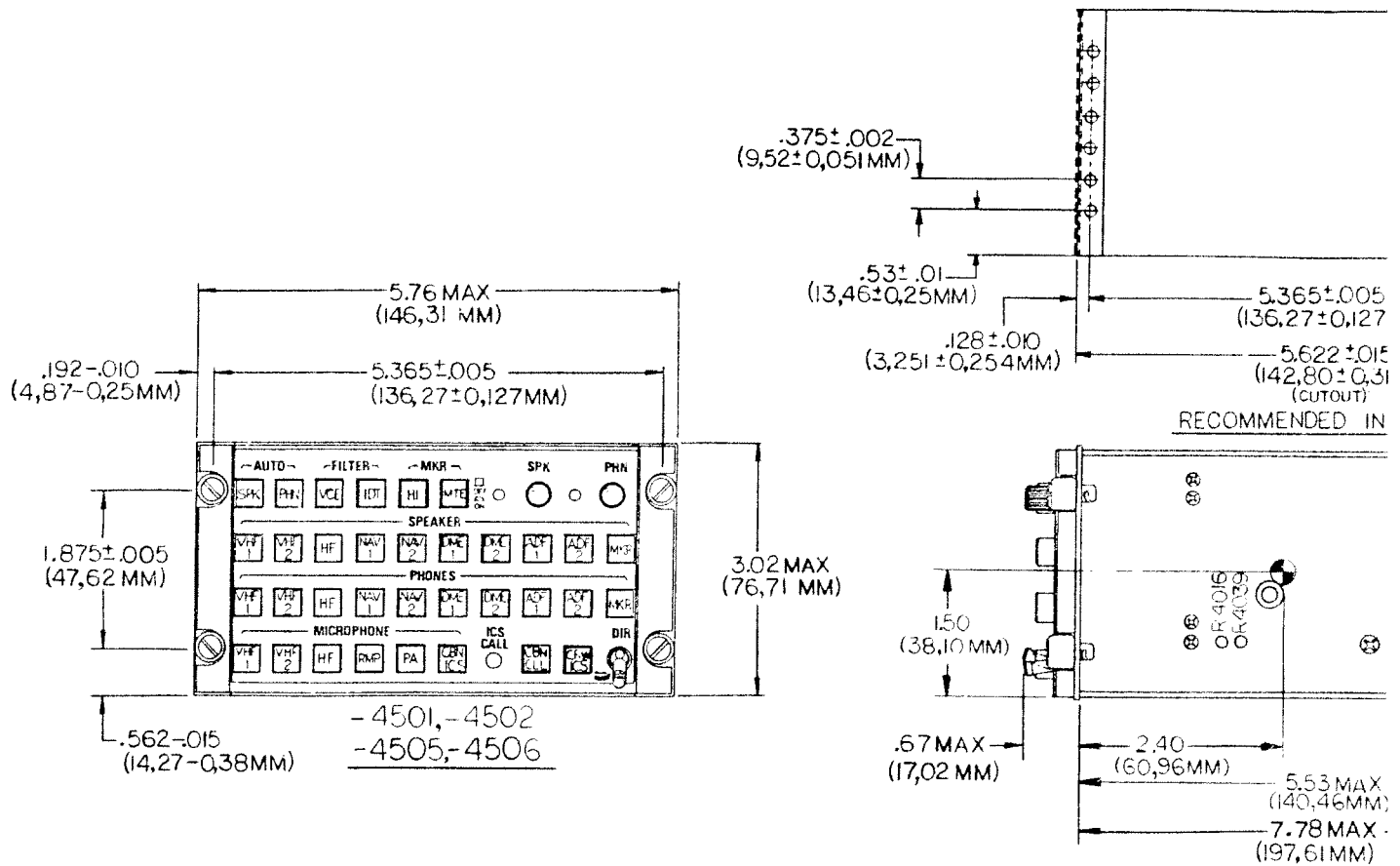
3A L3 #18 J1026-1

J1026-17

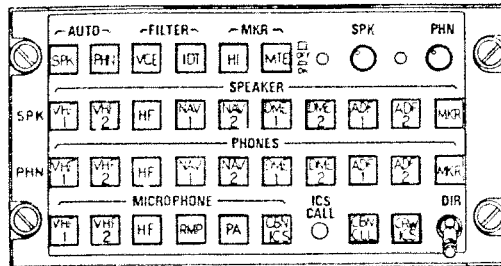
L1, L2, L3 SERIES INDUCTANCE SHOULD BE AT LEAST A 30MH CHOKE AS THE STANCOR C-2685 OR EQUIVALENT.

- (16) FOR LOW NOISE REQUIREMENTS THE SINGLE POINT AUDIO SYSTEM EARTH (SPASE) SHOULD BE INCORPORATED IN THE INSTALLATION.

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-4503,-4504
-4507,-4508

AS-451A Audio Control Unit, Outline Drawing
Figure 1-1

