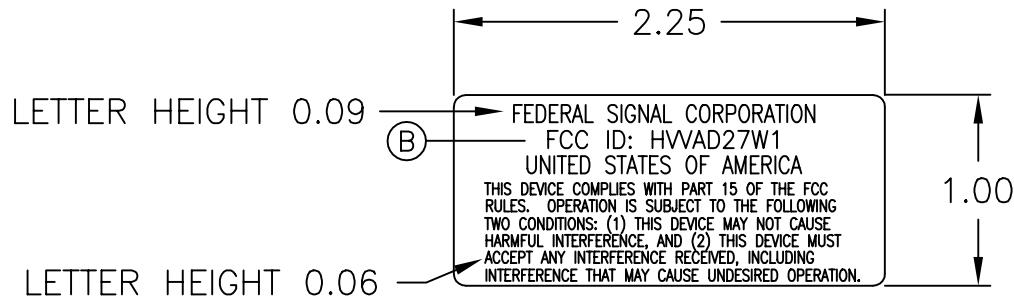


1612417B

DRAWING NUMBER



This drawing prepared
in accordance with
ANSI Y14.5M-1982

Tolerances Unless
Otherwise Specified

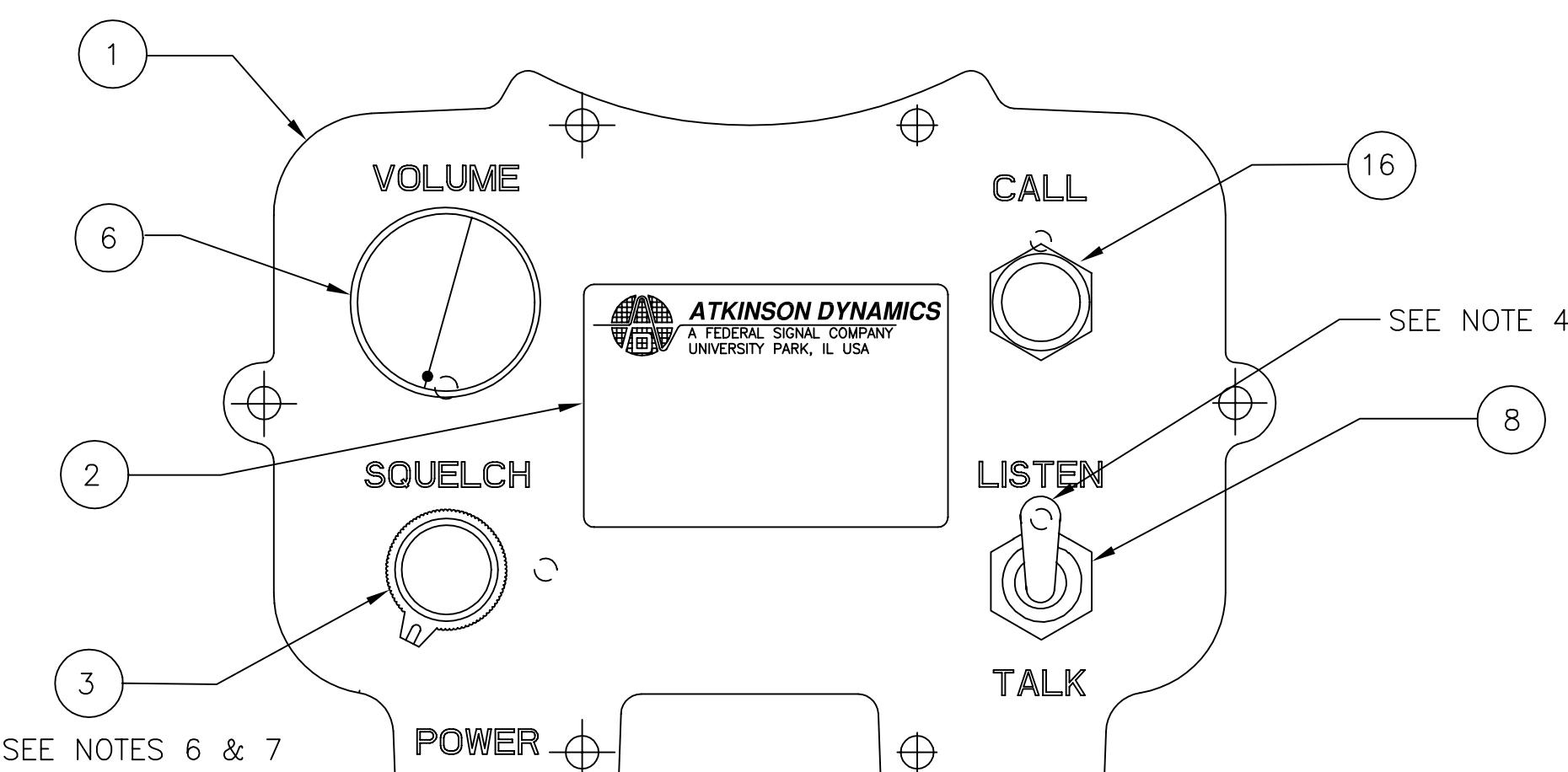
Angles ----- $\pm 0.5^\circ$
x.xx ----- ± 0.015
x.ooo ----- ± 0.005



**SIGNAL
DIVISION**

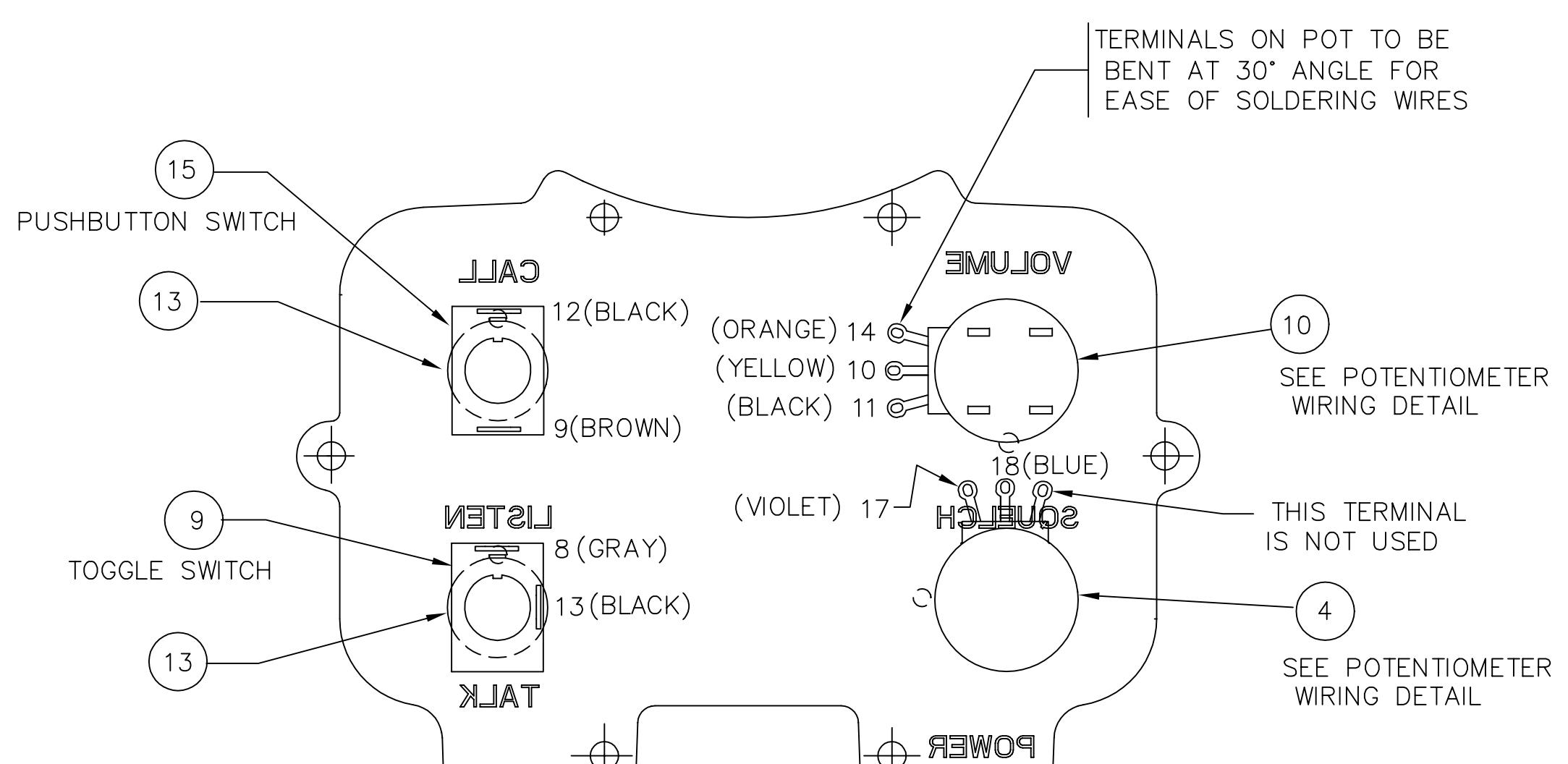
Federal Signal Corporation
2645 FEDERAL SIGNAL DRIVE - UNIVERSITY PARK, IL 60466

				FINISH			MATERIAL DESCRIBED AND INFORMATION CONVEYED IS PROPRIETARY TO FEDERAL SIGNAL CORPORATION, IS OR MAY BE THE SUBJECT OF PATENT APPLICATIONS, AND MAY NOT BE COPIED, DIVULGED TO OTHERS, OR USED FOR MANUFACTURING WITHOUT CONSENT.		
				SILVER MYLAR (BLACK LETTERING)					
				REMOVE BURRS, SHARP CORNERS AND EDGES					
				MATERIAL	UNIT OF MEASURE	DRAWN BY	CHKD. BY	SCALE AT A SIZE:	
				1611396A	PC	BWH	P.M.	NONE	
				NAME			DATE 4-3-02		
B	REL. TO PROD. ECO #04-TBD	TBD	BWH	LABEL, FCC,			DATE 4-3-02		
A	REL. TO PROD. ECO #02-5178	8-12-02	BWH	WIRELESS ATKINSON DYNAMICS	DRAWING NUMBER		DO NOT SCALE DRAWING		
REV.	CHANGE	DATE	BY				1612417B		

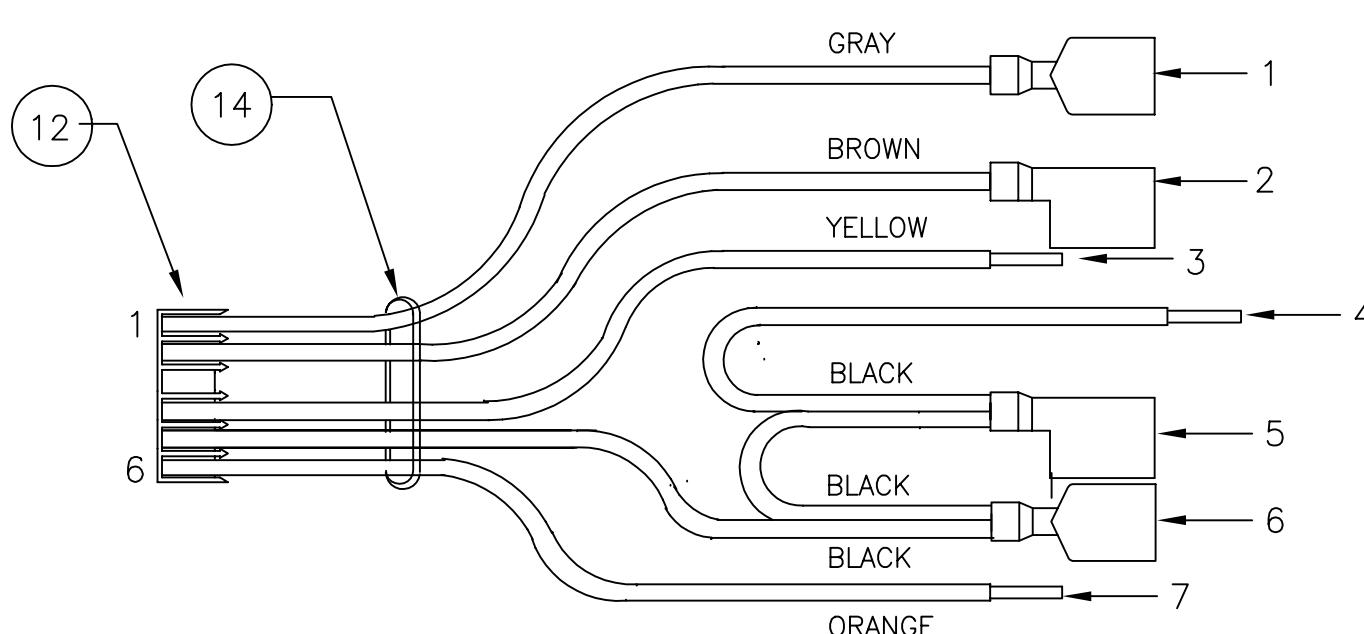


FRONT

ITEM	AD-27AW 120V	PART NO.	DESCRIPTION
1	1	8590252	COVER,HOUSING,MACHINED
2	1	81461822-02	NAMEPLATE,AD-27AW
3	1	141133	KNOB
4	1	106126	POTENTIOMETER,1K OHM
5	1	1751095	WIRING HARNESS,SQUELCH CONTROL
6	1	141A129	KNOB
7	2	288A542	BOOT,POTENTIOMETER
8	1	288801	BOOT,TOGGLE
9	1	122A298	SWITCH,TOGGLE,SPST
10	1	106125	POTENTIOMETER,WITH ON/OFF SWITCH
11	1	7075A032	LOCKWASHER,INT TTH,3/8
12	1	1751012	WIRING HARNESS ASSEMBLY
13	2	288A543	RING,SWITCH LOCKING
14	1	150A109	TIE WRAP
15	1	122A299	SWITCH,PUSHBUTTON
16	1	288697	BOOT,PUSHBUTTON



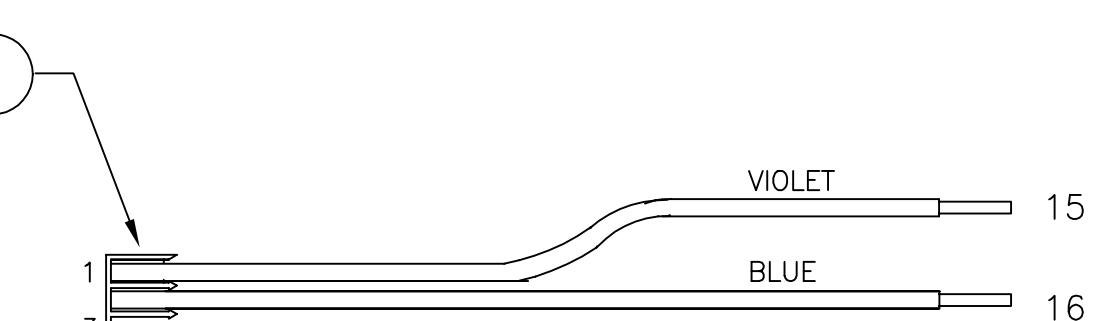
BACK



WIRING HARNESS DETAIL

WIRING HARNESS ASSEMBLY CHART

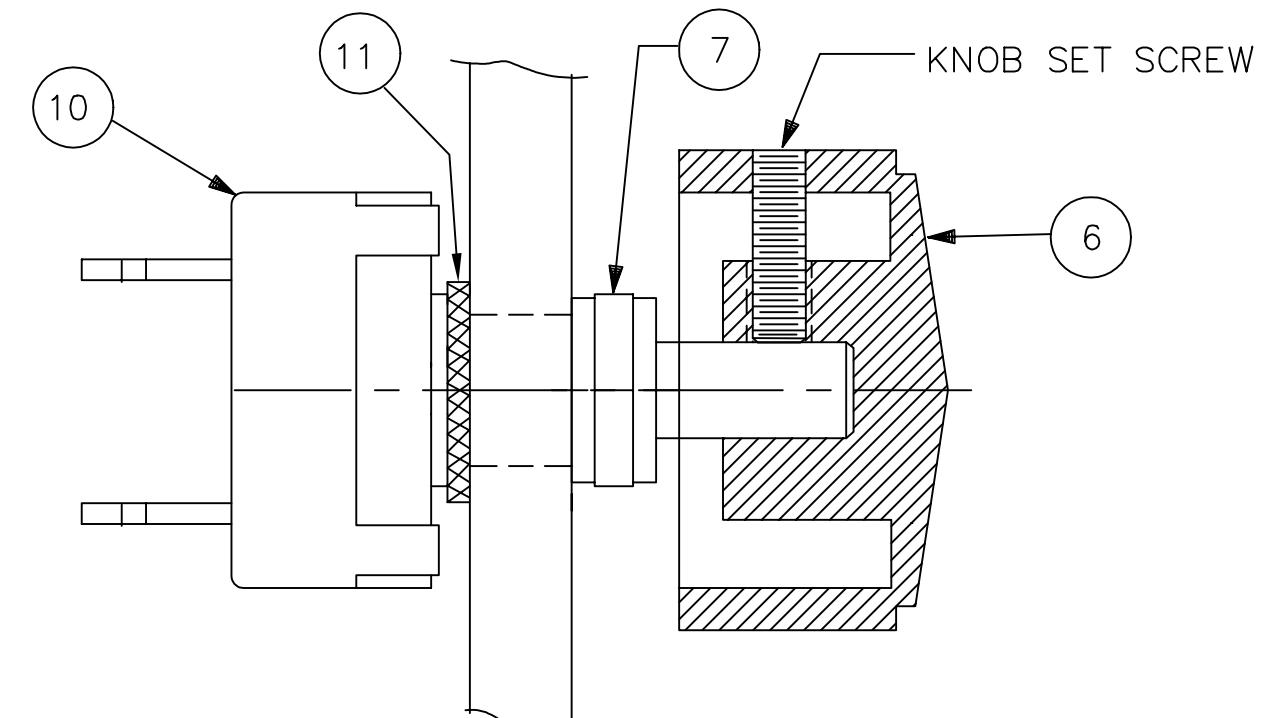
POINT	TO	POINT	COLOR
1		8	GRAY
2		9	BROWN
3		10	YELLOW
4		11	BLACK
5		12	BLACK
6		13	BLACK
7		14	ORANGE



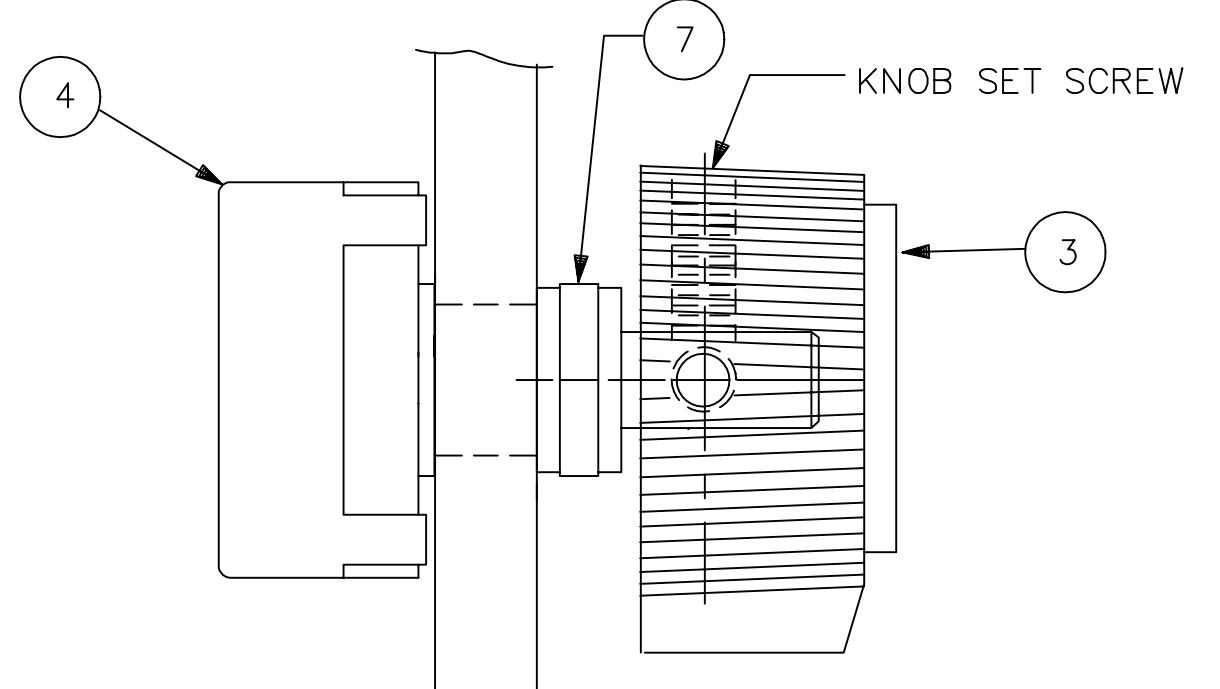
WIRING HARNESS DETAIL
SQUELCH POTENTIOMETER

POINT	TO	POINT	COLOR
15		17	VIOLET
16		18	BLUE

WIRING HARNESS ASSEMBLY CHART



POTENTIOMETER DETAIL
VOLUME CONTROL



POTENTIOMETER DETAIL
SQUELCH

NOTES

1. VOLUME POTENTIOMETER TO BE TURNED FULLY COUNTER-CLOCKWISE TO "OFF" POSITION BEFORE ASSEMBLING KNOB. VOLUME KNOB IS SECURED TO SHAFT WITH INDICATOR IN POSITION SHOWN WITH (2) 5/64" DIA. SET SCREWS.
2. RUBBER BOOTS SHOULD BE TIGHTENED SO THEY SNUG UP COMPLETELY AGAINST COVER PLATE. TORQUE SPECIFICATION 10 TO 15 IN-LBS.
3. SWITCHES SHOULD BE LINED UP AS SHOWN ON BACK DETAIL WITH LOCKING RINGS.
4. TOGGLE SWITCH TO BE FACTORY SET WITH THE TOGGLE IN THE LISTEN POSITION.
5. TIE WRAP TO BE PLACED ON WIRING HARNESS TO DRESS WIRES.
6. SQUELCH KNOB TO BE SET IN POSITION SHOWN IN "FRONT" DETAIL.
7. AFTER FINAL ASSEMBLY TEST IS COMPLETE, SET SQUELCH KNOB TO MID-POSITION.

This drawing prepared
in accordance with
ANSI Y14.5M-1982

			FINISH
			REMOVE BURRS, SHARP CORNERS AND EDGES
A2	SEE ECO #04-TBD	3-1-04	FINISH
A1	SEE ECO #03-5143	4-28-03	REMOVED BY P.M.
A	REL. TO PROD. ECO #02-5178	8-12-02	DRAWN BY BWH
REV.			CHKD. BY P.M.
			SCALE AT D SIZE: DRAWN BY BWH
			CHKD. BY P.M.
			DATE 10-22-01
			DO NOT SCALE DRAWING
			DRAWING NUMBER 8590256A-SHT.1

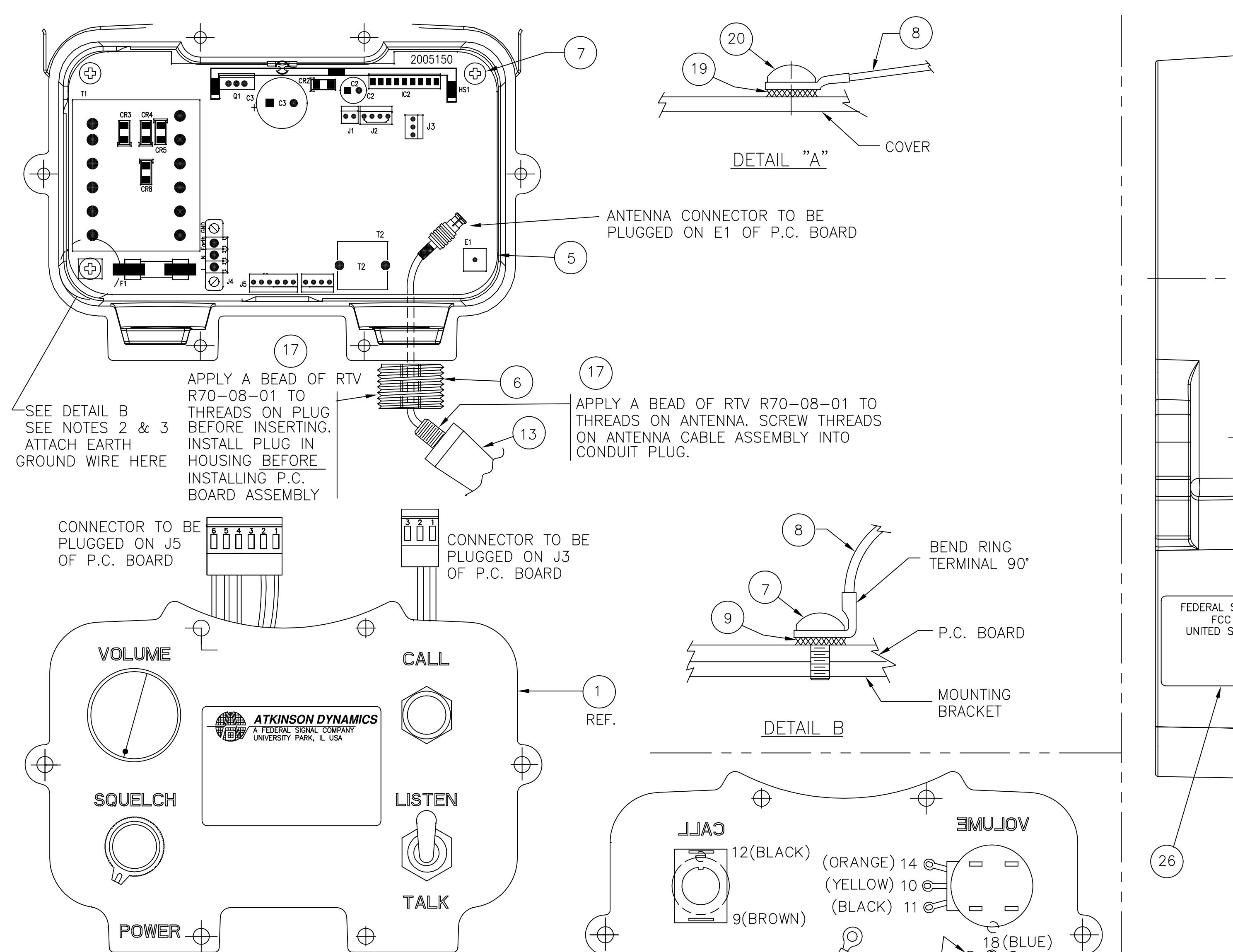
Tolerances Unless
Otherwise Specified
Angles ----- ±0.5°
x.xx ----- ±.015
x.fff ----- ±.005

SIGNAL
DIVISION

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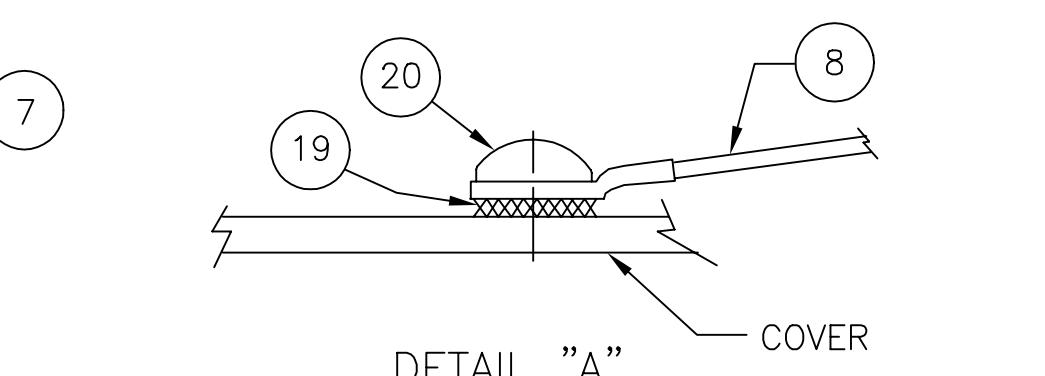
ITEM	AD-27AW 120V	PART NO.	DESCRIPTION
1	1	8590256 (REF)	COVER ASSEMBLY
2	1	8590217	HOUSING, MACHINED
3	1	8590193	BRACKET ASSEMBLY, MOUNTING
4	2	7011A062-06	SCREW, THD, FRM, PAN, HD, PHIL, 8-32
5	1	2005150	PCBA, 120V, ATKINSON WIRELESS
6	1	8590118-02	PLUG, CONDUIT
7	3	7000A404-04	SCREW, MACH, PAN, HD, PHIL, 6-32
8	1	T300218-40-004	T WIRE, 18 AWG
9	1	7075A010	LOCKWASHER, INT TTH, #6
10	1	139285-02	CONNECTOR, 2 POSITION
11	1	150159	CLAMP, WATERTIGHT CABLE
12	1	1461181	CORD, POWER, 120V
13	1	8590279	ANTENNA ASSEMBLY
14	1	230280	SPACER
15	1	C300218-10-037	WIRE, CUT, 18 AWG, BLACK
16	1	140411-03	PLUG, 3 POSITION
17	0.50	R70-08-01	ADHESIVE, RTV #6708
18	2	C92-09-03-0001	TUBING, HEAT SHRINK
19	1	7075A025	LOCKWASHER, EXT TTH, #8
20	1	7000A408-03	SCREW, MACH, PAN, HD, PHIL, 8-32
21	1	81461208	LABEL, CAUTION
22	1	81461590	LABEL, WARNING
23	1	8590013	GASKET, COVER
24	6	7000A78-10	SCREW, MACH, PAN, HD, PHIL, 10-32
25	6	7074A010	LOCKWASHER, #10 SPLIT
26	1	1612417	LABEL, FCC
	1	2561749	INSTRUCTION SHEET
	1	180428	CARTON, SHIPPING
	1	181310	FILLER, BOTTOM
	1	181311	FILLER, TOP
2	2	1612331-02	LABEL, CARTON, AD-27AW

NOTES

- CUT SPEAKER WIRES TO 7" LENGTH FROM OUTLET INSIDE HOUSING.
- ATTACH ONE END OF EARTH GROUND WIRE T300218-40-004 UNDERNEATH SCREW. SEE DETAIL B
- MAKE SURE TERMINAL ON EARTH GROUND WIRE DOES NOT TOUCH FUSE F1 ON P.C. BOARD.
- INSTALL HEAT SHRINK TUBING OVER SWITCH CONTACTS AFTER SOLDERING WIRES.
- TORQUE THE SIX (6) COVER SCREWS TO 18-20 INCH LBS.

MOUNTING BRACKET ASSEMBLY INSTALLATION

ATTACH SPACER TO MOUNTING BRACKET BEFORE INSTALLING IN HOUSING. REMOVE PAPER LINER TO INSTALL. MAKE SURE BRACKET IS CLEAN.



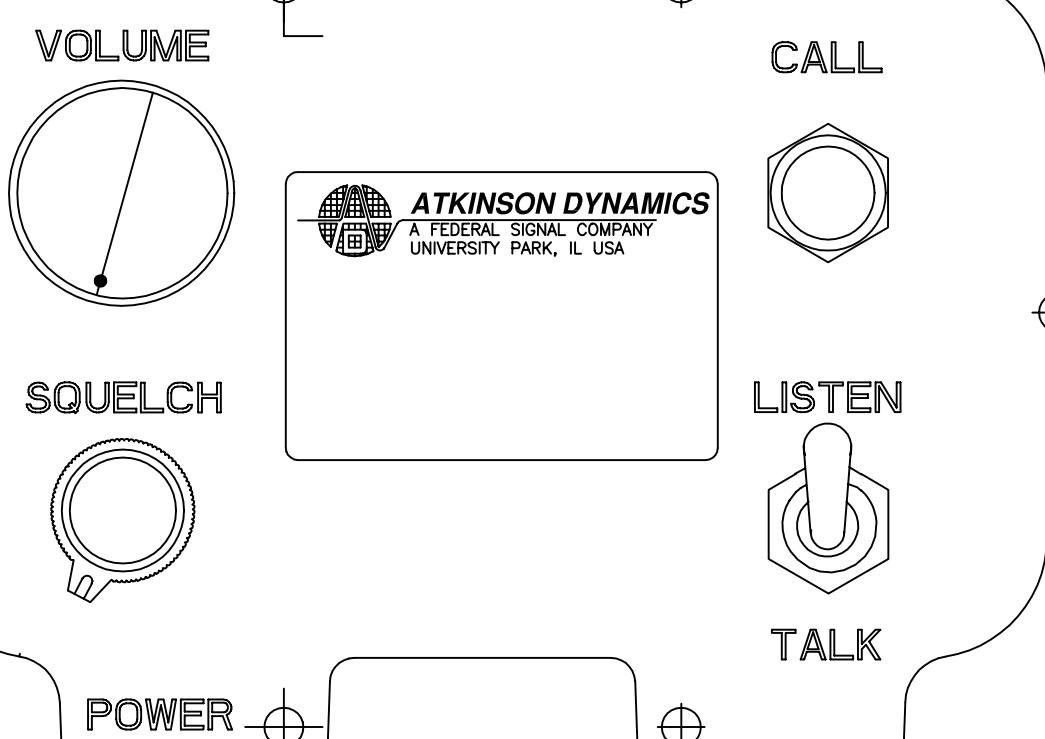
ANTENNA CONNECTOR TO BE PLUGGED ON E1 OF P.C. BOARD

SEE DETAIL B
SEE NOTES 2 & 3
ATTACH EARTH GROUND WIRE HERE

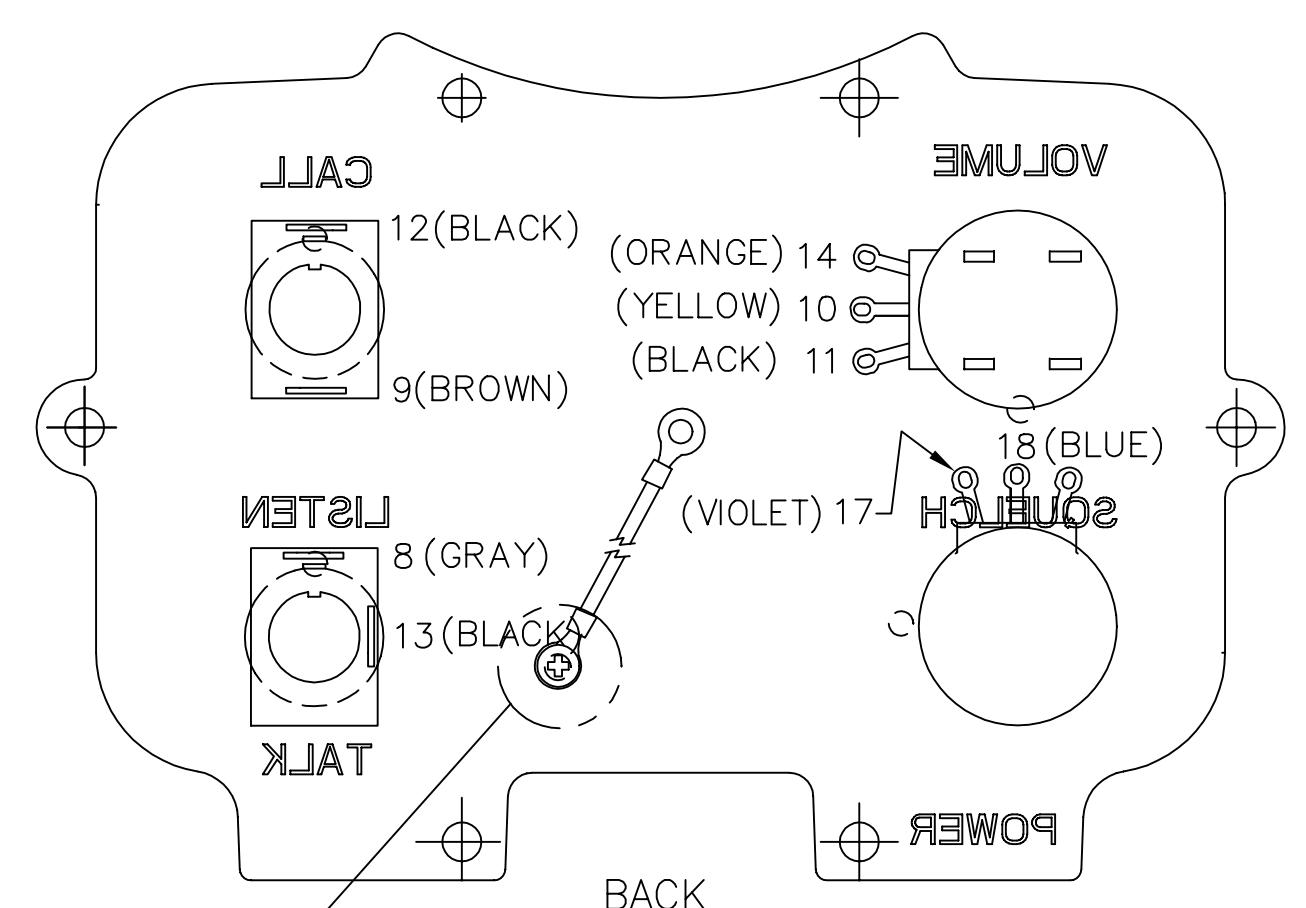
APPLY A BEAD OF RTV R70-08-01 TO THREADS ON PLUG BEFORE INSERTING. INSTALL PLUG IN HOUSING BEFORE INSTALLING P.C. BOARD ASSEMBLY

CONNECTOR TO BE PLUGGED ON J5 OF P.C. BOARD

CONNECTOR TO BE PLUGGED ON J3 OF P.C. BOARD



BEND RING TERMINAL 90°
P.C. BOARD
MOUNTING BRACKET



SEE DETAIL A

