

Clegg Model 031A

Regulated Base Station P/S and Speaker

The 031A is a quality instrument designed to provide base station power for operation of typical mobile transceivers requiring a nominal 13.5 volt regulated source. An efficient 3 x 5 inch, 8 ohm speaker mounted on the front panel permits use with transceivers equipped for external speaker operation.

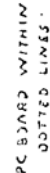
SPECIFICATIONS

Input Source	115 $\pm$ 10 Volts, 60 Hz, 3 amps
Output Voltage	13.8 Volts (nominal)
Output Current	10 Amps (max.) 9.5 Amps up to 50% duty cycle 6.5 Amps continuous duty
Regulation	$\pm$.5 volts with line variation of $\pm$ 10 volts and load variation from 0 to 9.5 amps.
Output Noises Ripple	200 mv (max.)
Recovery Time	10 milliseconds for step load change within ratings.
Circuit Protection	Self protected by internal circuit which senses current overload and reduces output to near zero. CIRCUIT RESET ACCOMPLISHED BY TURN OFF OF PANEL SWITCH FOR APPROXIMATELY 30 SECONDS.
Dimensions	7 $\frac{1}{4}$ " W x 4" H x 10 $\frac{1}{2}$ " D
Weight	Approx. 7 lbs.
Speaker	8 ohms, 2 watts max.
Connectors	a.) 3 voice AC line input b.) UNIVERSAL POSTS FOR DC OUTPUT Color coded: Red - Positive Black - Negative c.) RCA Phone jack for speaker input.

MODEL 031A BASE STATION POWER SUPPLY

REPLACEABLE PARTS LIST

Schematic Symbol	Description of Item	Clegg/ISC PN
C1	250 MFD, 40V	107-096
C2	470 MFD, 40V	107-091
C3	20,000 MFD, 35 VDC	107-014
C4,C5	.05 MFD, 50V	100-030
C6	4.7 MFD, 60V	107-052
C7	2.2 MFD, 16V Tantalum	109-001
C8	.001 MFD, Disc	102-098
CR1	IN4001 Diode	145-002
CR2	TRANS20RB Diode	143-026
BR1	Bridge Rect. Ass'y G.I. #KBH25005	149-004
F1	Fuse, 3 amp SLC-BLO	165-003
T1	Power Transformer	600-013
Q1	SCR, Type 2N5061	200-072
Q2	Transistor, Type MJE520	200-077
Q3	Transistor, Type 2N5885	200-118
R1,R2	22 ohm, $\frac{1}{4}$ watt, 10%	220-220
R3	33 ohm, $\frac{1}{4}$ watt, 10%	220-330
R4	10,000 ohm, $\frac{1}{4}$ watt, 10%	220-103
R5, R15	1,000 ohm, $\frac{1}{4}$ watt, 10%	220-102
R6	270 ohm, 2 watt, 10%	227-271
R7	300 ohm, 5 watt	232-003
R8		
R9,R10	.1 ohm, 5 watt, 10% IRC PW5	228-003
R11	2700 ohm, $\frac{1}{4}$ watt, 10%	220-272
R12	3300 ohm, $\frac{1}{4}$ watt, 10%	220-332
R13	2500 ohm potentiometer	241-026
R14	1800 ohm, $\frac{1}{4}$ watt, 10%	220-182
U1	IC, Motorola MPC-6032A	201-134
	SPEAKER QUAM 35A0528K 8 ohm voice coil	610-009

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