DESCRIPTION	MAT'L	QTY.	ITEM NO.

208/240 VAC LINE INPUT
BLANK
208/240V SCR CONTROLLED OUTPUT
BLANK
SPARE
EMISSION CONTROL
MAN/RATE SWITCH
MAN.
RATE
20 VAC
20 VAC
-10 VDC EMISSION CONTROL (CW)
SPARE
HIGH VOLTAGE POWER SIGNAL
MAN/RATE CNTRL
CURRENT SIGNAL
RATE MON.
TO EGC GROUND CHASSIS
CURRENT RANGE

A B C D E F H J K L M N P R S T U V W X Y Z

RATE OUTPUT
40 VAC
-10VDC

T1 GUDEMAN #14017
SCR FIRING
+28 V
-20V.
12V
30V.
6V
3V
-5V
GROUND
NOTE. CR4 NOT USED
SEE NOTE 3
RATE CHANGE
RATE PANEL
CURRENT RANGE SEL.
SCR BIAS

Q1 2N697
Q2 2N2646
Q3 2N3904
Q4 2N3906
Q5 2N3904
Q6 2N3904
Q7 2N3906
Q8 2N3904

CR1,2 1N4448
CR3 1N4740
CR4 1N750
CR5,6,7,8,9,10,11 1N4448
CR12 1N4448
CR13 1N4740
CR14 1N4740
CR15 1N4448
CR16 1N4740
CR17 1N4448
CR18 1N4448
CR19 1N4448
CR20 1N4448
CR21 1N4448
CR22 1N4448
CR23 1N4448
CR24 1N4448
CR25 1N4448
CR26 1N4448
CR27 1N4448
CR28 1N4448
CR29 1N4448
CR30 1N4448
CR31 1N4448
CR32 1N4448
CR33 1N4448
CR34 1N4448
CR35 1N4448
CR36 1N4448
CR37 1N4448
CR38 1N4448
CR39 1N4448
CR40 1N4448
CR41 1N4448
CR42 1N4448
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CR67 1N4448
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CR89 1N4448
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CR91 1N4448
CR92 1N4448
CR93 1N4448
CR94 1N4448
CR95 1N4448
CR96 1N4448
CR97 1N4448
CR98 1N4448
CR99 1N4448
CR100 1N4448

R1 47Ω
R2 47Ω
R3 1.2K
R4 47Ω
R5 1K
R6 680Ω
R7 820Ω
R8 250K
R9 47K
R10 6.8K
R11 4.7K
R12 2.2K
R13 1.2K
R14 100K
R15 150K
R16 15K
R17 470Ω
R18 330Ω
R19 2.7K
R20 330Ω
R21 680Ω
R22 330Ω 2W
R23 15K
R24 240Ω
R25 470Ω
R26 4.7K
R27 4.7K
R28 680Ω
R29 5K
R30 100K

C1 .33µf 600V
C2 .33µf 1KV
C3 .1µf 600V
C4 .33µf 200V
C5 10µf 50V
C6 .05µf 100V
C7 1µf 25V
C8 5.2µf 50V
C9 30µf 50V

SCR 1 2N1595
SCR 2 2N1595
SCR 3 2N1595
SCR 4 2N1595
BRIDGE RECT. 15DB6A
INTL. RECT. #10DB1, 1A 800 PRV

MOTOROLA 2N4443 SUBSTITUTES FOR CR1,CR2

REV	DESCRIPTION	BY	DATE	APP'VD
E	CR1 & 2 WERE 2N4443 ADDED CR 15 & 16 PER ECR 00042	FG	12-22-70	
D	REPLACE CR 1 WITH R 27 & CR 2 WITH R 28 ADDED R 29, 30 & 31, REMOVE HIGH SIDE R 31	LG	2/11/70	
C	ADDED 2N4188 SUB. FOR CR1,2	FARNUM	12-16-68	
B	CR 3,4,5,7,8,9,11 & 13 Were SD-2, R21 Was 13K	BG	8-8-68	
A	ORIGINAL RELEASE DATA, PRELIMINARY NOTES, ETC.			
	R31 AND NOTE 4 & 5		9-4-68	

2. REFERENCE DRAWINGS:
a - ARTWORK — 2F5443
b - FAB. DETAILS — 2F5453
c - ASSEMBLY — 2F5463

1. ALL RESISTORS 1/2W 5% UNLESS NOTED

— NOTES —

3. CAPACITANCE VALUES IN MICROFARADS, VOLTAGE RATINGS ARE DC UNLESS OTHERWISE NOTED.
4. RESISTANCE VALUES IN OHMS, 1/4W 10% UNLESS OTHERWISE NOTED.
5. VOLTAGES SHOWN ARE W RESPECT TO GROUND.
6. RELIMAN TERMINALS C2, R20 & R21 ARE 3/4W 1% TURN.
7. REFER TO WIRING DIAGRAM OF PRIMARY EQUIP. FOR MECHAL JUMPER CONNECTIONS. JUMPER IS NOT FOR STACK. VOLTAGE SHOULD BE CHANGED TO SUIT POWER AT SITE INPUT CHASIS WITH 28 VOLT TO GROUND.

JUL 8 1971

REV	S.N. EFF
D	6-868

TOLERANCES EXCEPT AS NOTED
INTERNAL RADII — .015 MAX. BREAK ALL EDGES — .005-.015
FINISH √
DRILLED HOLES: UP TO 1/4 DIA. ± .005 OVER 1/4 DIA. ± .010
DECIMAL ± FRACTIONAL ± ANGULAR ± °
THREADS CLASS 2

7-5463
USED ON DWG. NO.
DO NOT SCALE DRAWING.

BERKELEY AIRCO Temescal CALIFORNIA
A DIVISION OF AIR REDUCTION COMPANY, INCORPORATED

DRAWN BY Bob Gilbert DATE 5/5/68 CHECK BY [illegible] APP'VD BY [illegible] SCALE

A-T STANDARD — ES-6 —
GUN CONTROL PRINTED CIRCUIT CARD SCHEMATIC

DRAWING NUMBER 2F5463
SERIAL 6-868