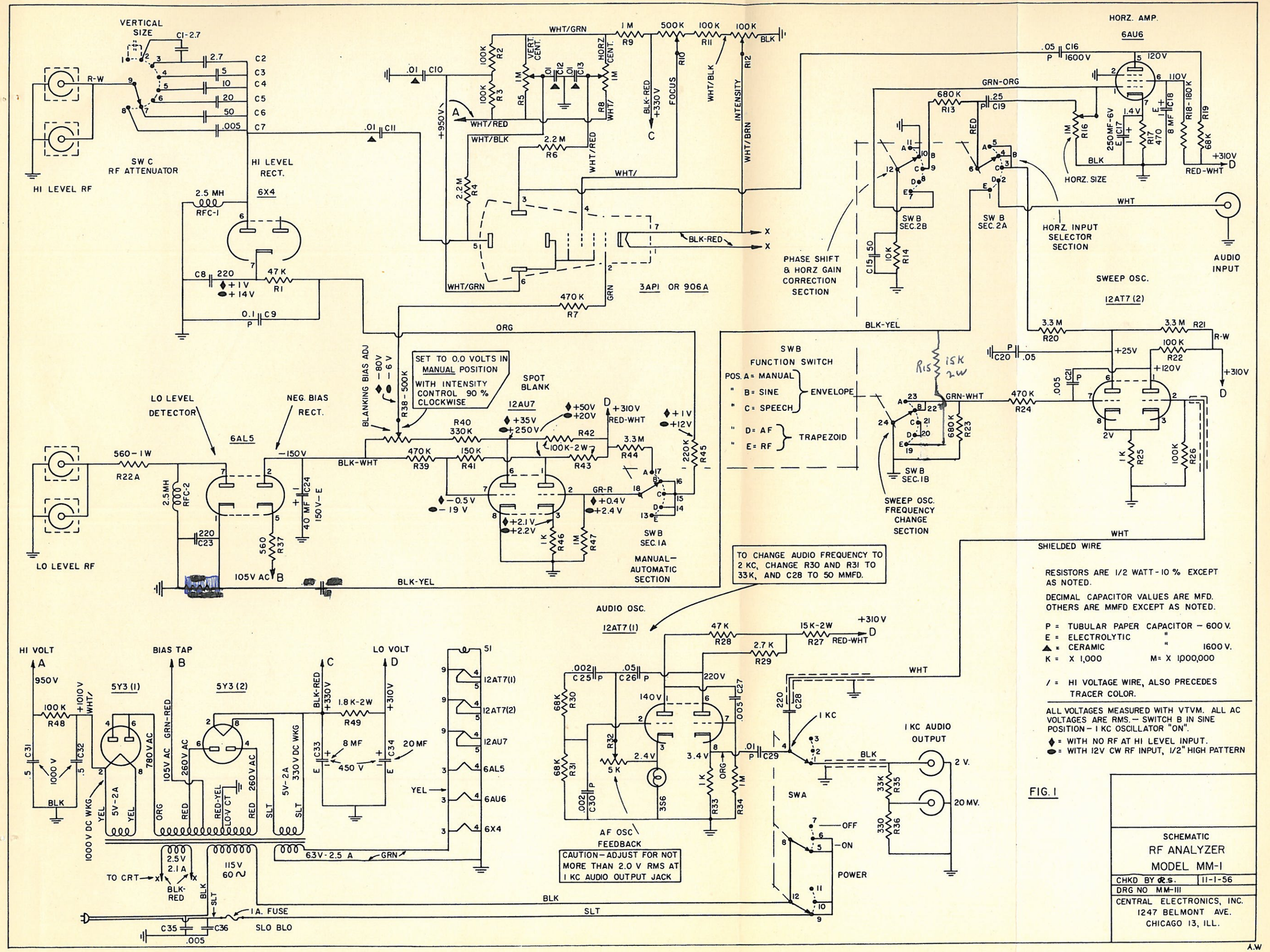
VERTICAL SIZE
C1-2.7
2.7
5
10
20
50
.005
C2
C3
C4
C5
C6
C7
R-W
SW C
RF ATTENUATOR
HI LEVEL RF
HI LEVEL RECT.
6X4
2.5 MH
RFC-1
C8 220
47 K
R1
+1V
+14V
0.1 C9
P
.01 C10
.01 C11
100K R2
100K R3
VERT. CENT.
HORZ CENT.
1M R9
500K R10
100K R11
100K R12
R5 1M
R8 WHT/ 1M
.01 C12
.01 C13
+950V
WHT/GRN
WHT/RED
WHT/BLK
2.2M R6
2.2M R4
WHT/RED
WHT/
BLK-RED +330V
FOCUS
WHT/BLK
INTENSITY
WHT/BRN
BLK-RED
3API OR 906A
470K R7
GRN
ORG
BLANKING BIAS ADJ
-80V
-6V
R38 - 500K
SET TO 0.0 VOLTS IN MANUAL POSITION WITH INTENSITY CONTROL 90 % CLOCKWISE
SPOT BLANK
12AU7
+35V
+250V
+50V
+20V
+310V
RED-WHT
+1V
+12V
R40 330K
R42
100K-2W
R43
3.3M R44
220K R45
470K R39
150K R41
BLK-WHT
LO LEVEL DETECTOR
NEG. BIAS RECT.
6AL5
-150V
560-1W R22A
2.5MH RFC-2
220 C23
560 R37
40 MF C24 150V-E
105V AC
BLK-YEL
LO LEVEL RF
-0.5V
-19V
GR-R
+0.4V
+2.4V
+2.1V
+2.2V
1K R46
1M R47
SW B SEC. 1A
MANUAL-AUTOMATIC SECTION
HORZ. AMP.
6AU6
.05 C16
P
1600V
120V
110V
GRN-ORG
680K R13
.25 C19
P
RED
1.4V
1M R16
250MF-6V E 1C17
1-1
R17 470
8 MF E C18
R18-180K
R19 68K
+310V
RED-WHT
D
BLK
HORZ. SIZE
WHT
HORZ. INPUT SELECTOR SECTION
AUDIO INPUT
SW B SEC. 2B
SW B SEC. 2A
PHASE SHIFT & HORZ GAIN CORRECTION SECTION
C15 50
10K R14
SWEEP OSC.
12AT7 (2)
BLK-YEL
SWB
FUNCTION SWITCH
POS. A = MANUAL
" B = SINE
" C = SPEECH
ENVELOPE
" D = AF
" E = RF
TRAPEZOID
R15 15K 2W
3.3M R20
3.3M R21
R-W
P C20 .05
+25V
100K R22
+120V
+310V
D
C21 .005 P
GRN-WHT
470K R24
680K R23
2V
1K R25
100K R26
SW B SEC. 1B
SWEEP OSC. FREQUENCY CHANGE SECTION
WHT
SHIELDED WIRE
TO CHANGE AUDIO FREQUENCY TO 2 KC, CHANGE R30 AND R31 TO 33K, AND C28 TO 50 MMFD.
AUDIO OSC.
12AT7 (1)
47 K R28
15K-2W R27
+310V
RED-WHT
2.7 K R29
.002 C25 P
.05 C26 P
220V
140V
68K R30
68K R31
R32 5K
2.4V
3.4V
356
1K R33
ORG-1M R34
.002 C30 P
.005 C27
.01 P C29
220 C28
1 KC
BLK
SW A
1 KC AUDIO OUTPUT
2 V.
20 MV.
33K R35
330 R36
AF OSC FEEDBACK
CAUTION-ADJUST FOR NOT MORE THAN 2.0 V RMS AT 1 KC AUDIO OUTPUT JACK
OFF
ON
POWER
HI VOLT
A
950V
100K R48
+1010V
WHT/
C31 .5
1000 V
C32 .5
BLK
5Y3 (1)
780V AC
1000V DC WKG
YEL
5V-2A
YEL
BIAS TAP
B
5Y3 (2)
105V AC
GRN-RED
ORG
RED
260V AC
RED-YEL
1.0V CT
RED
260V AC
5V-2A
330V DC WKG
SLT
SLT
LO VOLT
C
D
BLK-RED +330V
1.8K-2W R49
+310V
C33 E 8 MF 450 V
C34 E 20 MF
YEL
0
9
4
5
12AT7(1)
9
4
5
12AT7(2)
9
4
5
12AU7
3
4
6AL5
3
4
6AU6
3
4
6X4
51
6.3V-2.5 A
GRN
2.5V 2.1 A
115V 60 ~
TO CRT
BLK-RED
BLK
SLT
1A. FUSE
SLO BLO
C35 .005
C36
BLK
SLT
RESISTORS ARE 1/2 WATT - 10 % EXCEPT AS NOTED.
DECIMAL CAPACITOR VALUES ARE MFD. OTHERS ARE MMFD EXCEPT AS NOTED.
P = TUBULAR PAPER CAPACITOR - 600 V.
E = ELECTROLYTIC "
▲ = CERAMIC " 1600 V.
K = X 1,000 M = X 1,000,000
/ = HI VOLTAGE WIRE, ALSO PRECEDES TRACER COLOR.
ALL VOLTAGES MEASURED WITH VTVM. ALL AC VOLTAGES ARE RMS. - SWITCH B IN SINE POSITION - 1 KC OSCILLATOR "ON".
♦ = WITH NO RF AT HI LEVEL INPUT.
⬬ = WITH 12V CW RF INPUT, 1/2" HIGH PATTERN
SCHEMATIC
RF ANALYZER
MODEL MM-1
CHKD BY R.S.
11-1-56
DRG NO MM-111
CENTRAL ELECTRONICS, INC.
1247 BELMONT AVE.
CHICAGO 13, ILL.
A.W

FIG. 1