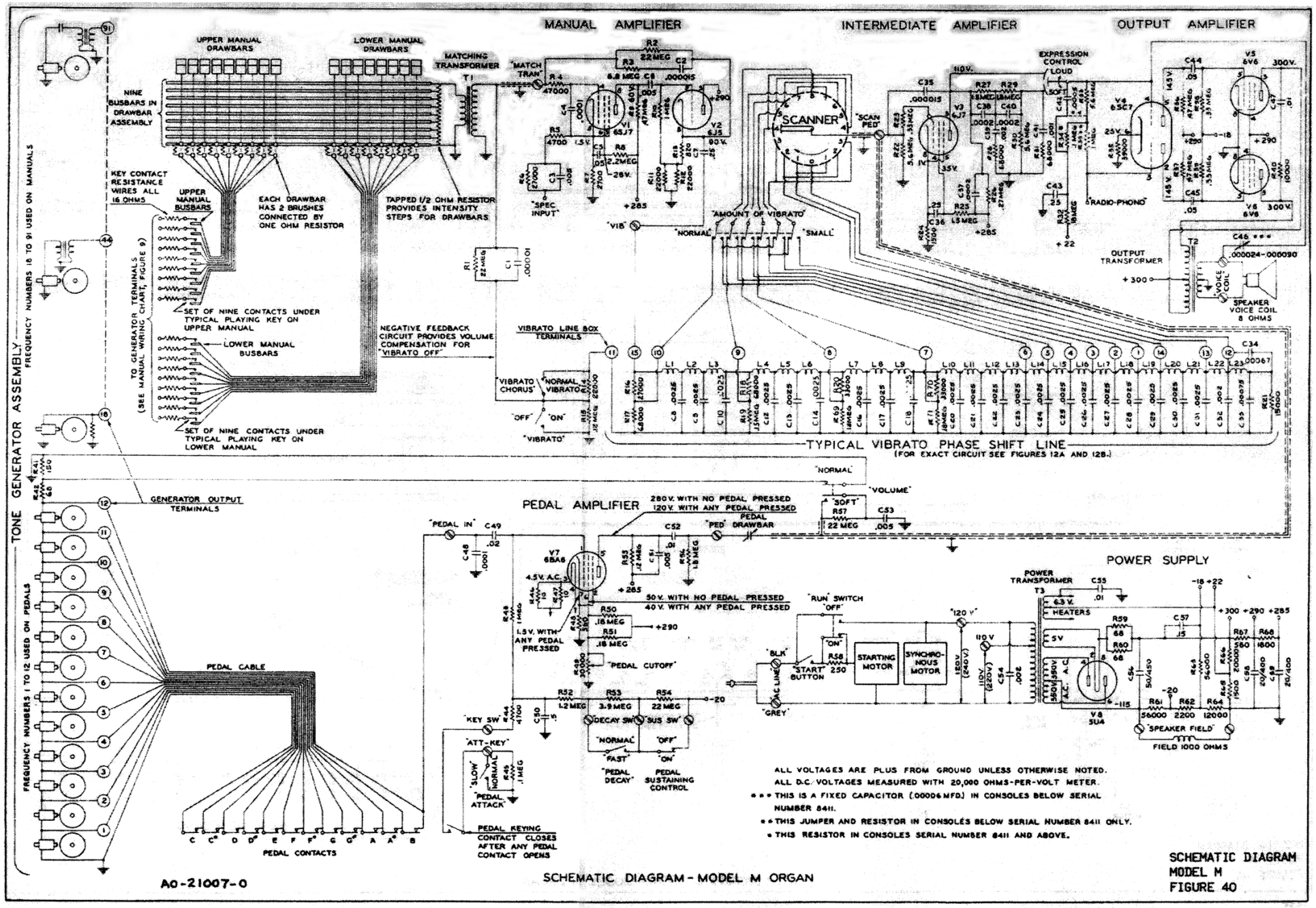
MANUAL AMPLIFIER
INTERMEDIATE AMPLIFIER
OUTPUT AMPLIFIER
TONE GENERATOR ASSEMBLY
FREQUENCY NUMBERS 16 TO 91 USED ON MANUALS
UPPER MANUAL DRAWBARS
LOWER MANUAL DRAWBARS
MATCHING TRANSFORMER
NINE BUSBARS IN DRAWBAR ASSEMBLY
KEY CONTACT RESISTANCE WIRES ALL 16 OHMS
UPPER MANUAL BUSBARS
EACH DRAWBAR HAS 2 BRUSHES CONNECTED BY ONE OHM RESISTOR
TAPPED 1/2 OHM RESISTOR PROVIDES INTENSITY STEPS FOR DRAWBARS
TO GENERATOR TERMINALS (SEE MANUAL WIRING CHART, FIGURE 9)
SET OF NINE CONTACTS UNDER TYPICAL PLAYING KEY ON UPPER MANUAL
LOWER MANUAL BUSBARS
SET OF NINE CONTACTS UNDER TYPICAL PLAYING KEY ON LOWER MANUAL
NEGATIVE FEEDBACK CIRCUIT PROVIDES VOLUME COMPENSATION FOR "VIBRATO OFF"
"MATCH TRAN"
"SPEC. INPUT"
"SCANNED"
SCANNER
"AMOUNT OF VIBRATO"
"NORMAL"
"SMALL"
EXPRESSION CONTROL "LOUD"
RADIO-PHONO
OUTPUT TRANSFORMER
SPEAKER VOICE COIL 8 OHMS
VIBRATO LINE BOX TERMINALS
VIBRATO CHORUS
"NORMAL VIBRATO"
"OFF"
"ON"
"VIBRATO"
TYPICAL VIBRATO PHASE SHIFT LINE
(FOR EXACT CIRCUIT SEE FIGURES 12A AND 12B.)
GENERATOR OUTPUT TERMINALS
PEDAL CABLE
FREQUENCY NUMBERS 1 TO 12 USED ON PEDALS
PEDAL CONTACTS
PEDAL AMPLIFIER
280 V. WITH NO PEDAL PRESSED
120 V. WITH ANY PEDAL PRESSED
"PEDAL IN"
"PED" DRAWBAR PEDAL
"VOLUME"
"NORMAL"
"30FT"
50 V. WITH NO PEDAL PRESSED
40 V. WITH ANY PEDAL PRESSED
1.5 V. WITH ANY PEDAL PRESSED
"PEDAL CUTOFF"
"KEY SW"
"ATT-KEY"
"SLOW"
"NORMAL"
"FAST"
"PEDAL ATTACK"
"PEDAL DECAY"
DECAY SW
SUS SW
"OFF"
"ON"
PEDAL SUSTAINING CONTROL
PEDAL KEYING CONTACT CLOSES AFTER ANY PEDAL CONTACT OPENS
POWER SUPPLY
POWER TRANSFORMER T3
6.3 V. HEATERS
5 V
"RUN" SWITCH "OFF"
"ON"
"START" BUTTON
STARTING MOTOR
SYNCHRONOUS MOTOR
"BLK"
"GREY"
AC LINE
"SPEAKER FIELD"
FIELD 1000 OHMS
ALL VOLTAGES ARE PLUS FROM GROUND UNLESS OTHERWISE NOTED.
ALL D.C. VOLTAGES MEASURED WITH 20,000 OHMS-PER-VOLT METER.
*** THIS IS A FIXED CAPACITOR (.00006 MFD.) IN CONSOLES BELOW SERIAL NUMBER 8411.
** THIS JUMPER AND RESISTOR IN CONSOLES BELOW SERIAL NUMBER 8411 ONLY.
* THIS RESISTOR IN CONSOLES SERIAL NUMBER 8411 AND ABOVE.
A0-21007-0
SCHEMATIC DIAGRAM - MODEL M ORGAN
SCHEMATIC DIAGRAM
MODEL M
FIGURE 40