SERVICE SLANTS
YOUR QUESTIONS OR COMMENTS ON "SERVICE SLANTS" ARE WELCOME AT ANY TIME
ISSUED BY WURLITZER SERVICE DEPT., NORTH TONAWANDA, N. Y.

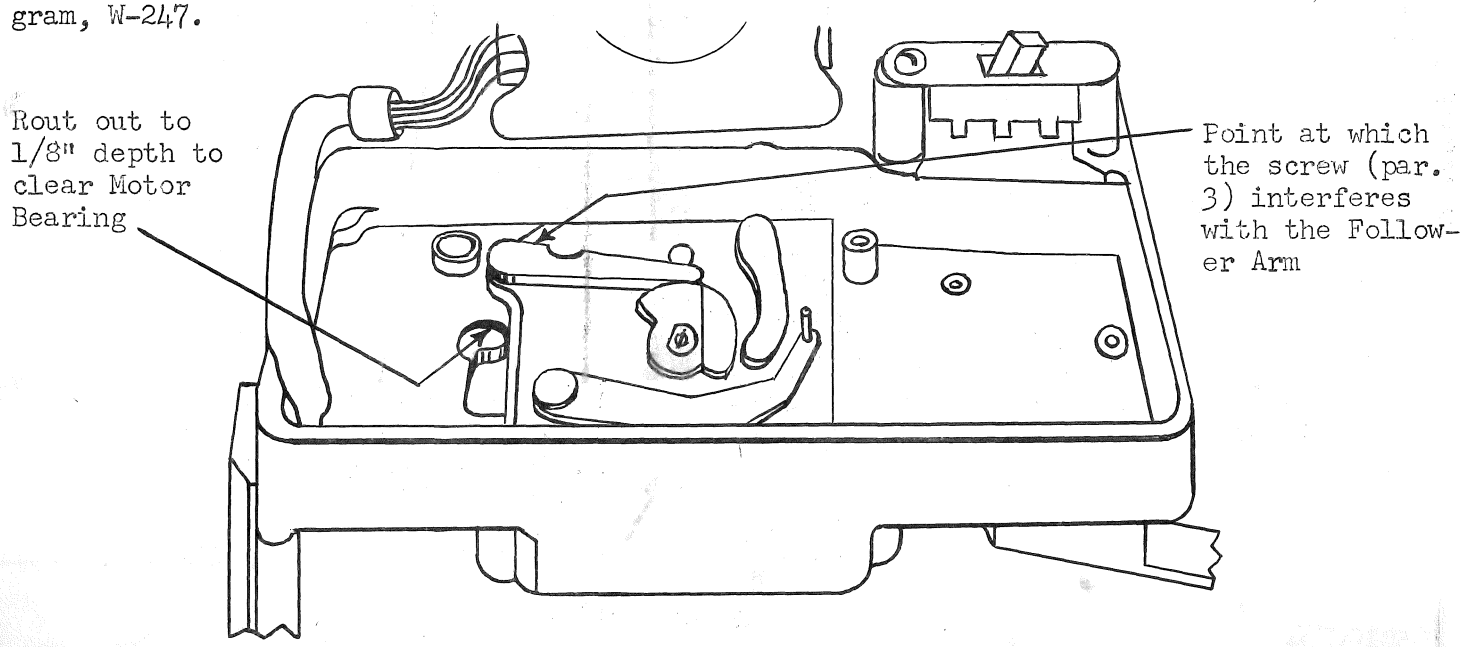
MODIFICATION OF 3020 AND 3020-(48) WALL BOX FOR USE OF 24V MOTOR, PART NO. 54186

MECHANICAL

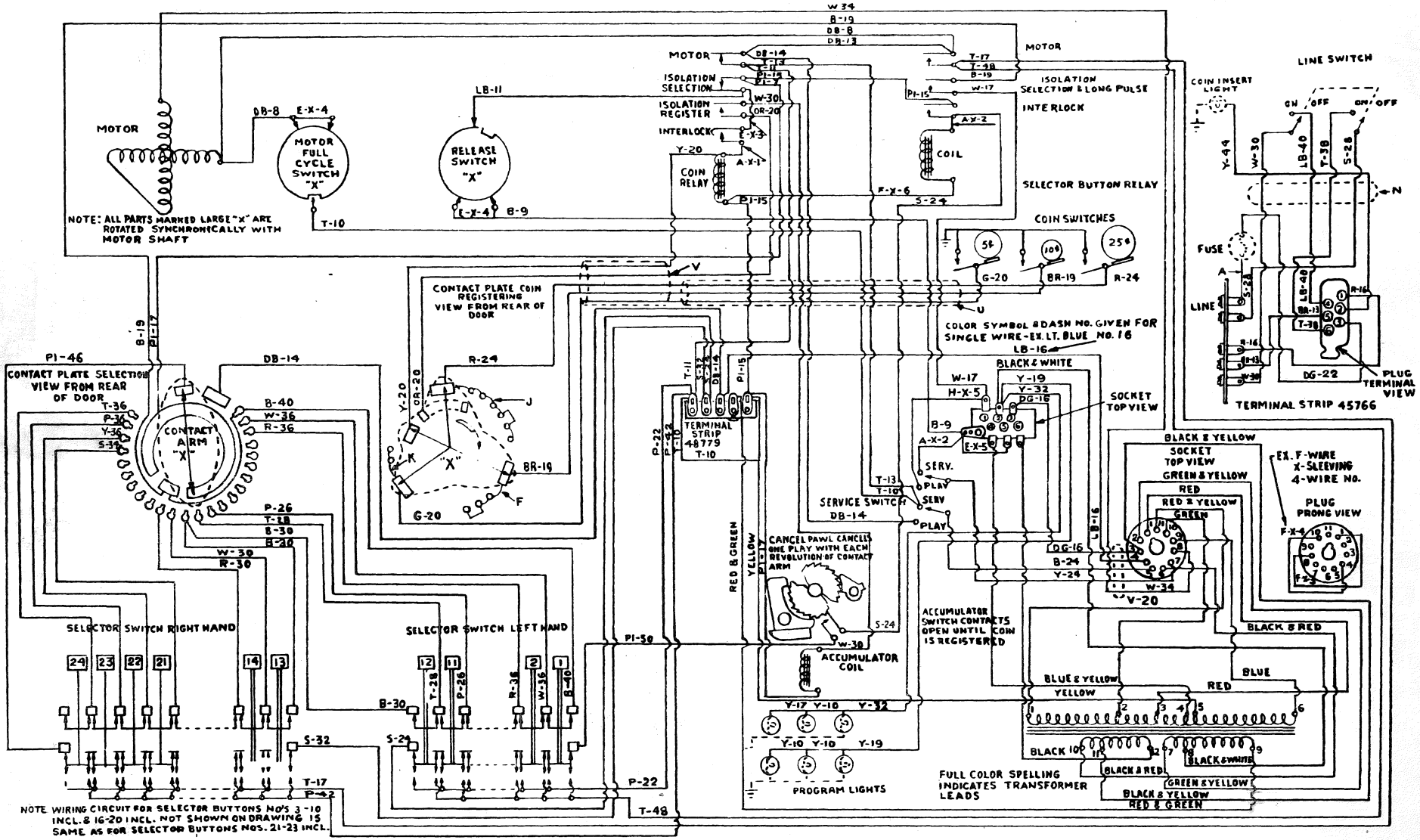
1. Remove connecting arm, Part No. 45840, to prepare for drilling.
2. Remove old motor and drill through the two upper motor mounting holes with #27 drill. Counter-sink (82° tool) the hole under the actuating lever, Part No. 45381, to provide flush installation of #6 Flat Head Screw. Rout out casting to accomodate inner motor bearing as indicated in the figure below.
3. From the new motor, remove the 6-32 x 1/4" Bind Head Screw, that interferes with the follower arm, Part No. 45834, from the inside motor bearing bracket. Counter-sink the hole as in par. 2 and install a 6-32 x 1/4" Flat Head Screw, flush with the surface.
4. Mount the new motor with 1 - 6-32 x 5/8" Round Hd. and 1 - 6-32 x 5/8" Flat Head Screw.
5. Assemble and adjust in accordance with Model 3020 Service Manual S-289.

ELECTRICAL

1. Remove the circuit wire from No. 6 pin of the 6 pin socket and connect it to No. 5 lug of the terminal strip to provide the 24V supply for the motor. The wire from the transformer may be left on the No. 6 pin of the 6 pin socket, however, it is no longer in use as indicated by the schematic wiring diagram, W-247.
2. Remove the wire from No. 6 pin of the 11 pin (3 wire plug), Part No. 46050, and connect No. 8 pin to No. 1 pin, providing the ground circuit for 24V to supply the new motor.
3. Inspect for accuracy of changes and test for proper operation at 130V and 90V.
4. This change may be made in the early Models 3020 by following the schematic wiring diagram, W-247.



WIRING DIAGRAM MODEL 3020 WALL BOX - 3 WIRE - 5-10-25¢ - 24V - 60 CY — LATER MODELS
REWORKED FOR 24V MOTOR - PART NO. 54186



PT. NO.	NAME	PT. NO.	NAME	PT. NO.	NAME	PT. NO.	NAME
45017	SELECTOR SWITCH R.H.	48779	TERMINAL STRIP	45483	SELECTOR BUTTON RELAY	45790	ACCUMULATOR SWITCH
45018	SELECTOR SWITCH L.H.	45531	SOLDERING LUG 2 REQ'D	45371	MOTOR	45563	ACCUMULATOR COIL
45764	LINE SWITCH	45986	LIGHT SOCKET	45671	SWITCH ASSEM. MOTOR & RELAY	45517	POWER TRANSFORMER
45765	SERVICE SWITCH	45970	LIGHT SOCKET	45830	CONTACT PLATE-COIN REG.	38492	SOCKET-11 PRONG
45389	COIN SWITCH	45985	PROGRAM LIGHT BULB	45833	CONTACT PLATE SELECTOR	48772	SOCKET ASSEM- 6 PRONG
45767	FUSE HOLDER	37987	COIN INSERT LIGHT BULB	45827	CONTACT ARM ASSEM. SEL.	46050	PLUG ASSEM - 11 PRONG
45766	TERMINAL STRIP	45484	COIN RELAY	45903	CONTACT ARM ASSEM. COIN REG.	46054	PLUG ASSEM. - 6 PRONG

WIRE COLOR CODING												SLEEVING		JUMPER WIRE	
#24 GAUGE						#22 GAUGE						SYM	SIZE	SYM	
COLOR	SYM	COLOR	SYM	COLOR	SYM	COLOR	SYM	COLOR	SYM	COLOR	SYM			A	BARE WIRE WITH OR WITHOUT SLEEVING AS INDICATED SEE A OR F-X-4
BLACK	B	PINK	PI	YELLOW	Y	WHITE	W	L.BLUE	LB			N	1/4"	E	
WHITE	W	ORANGE	OR	PURPLE	P	BROWN	BR	TAN	T			U	9/64"	F	
RED	R	BROWN	BR	TAN	T	RED	R					V	3/8"	H	
LT. BLUE	LB	DK. GREEN	DG			DK. GREEN	DG					X	1/32"	J	
DK. BLUE	DB	SLATE	S			YELLOW	Y							K	