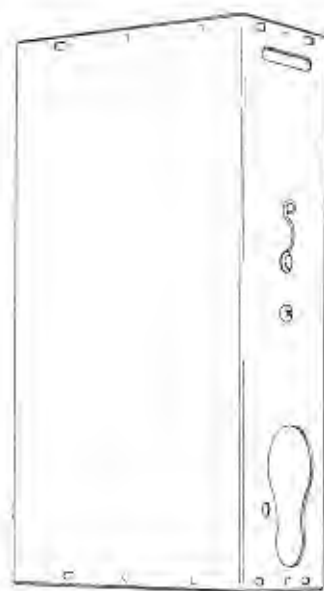
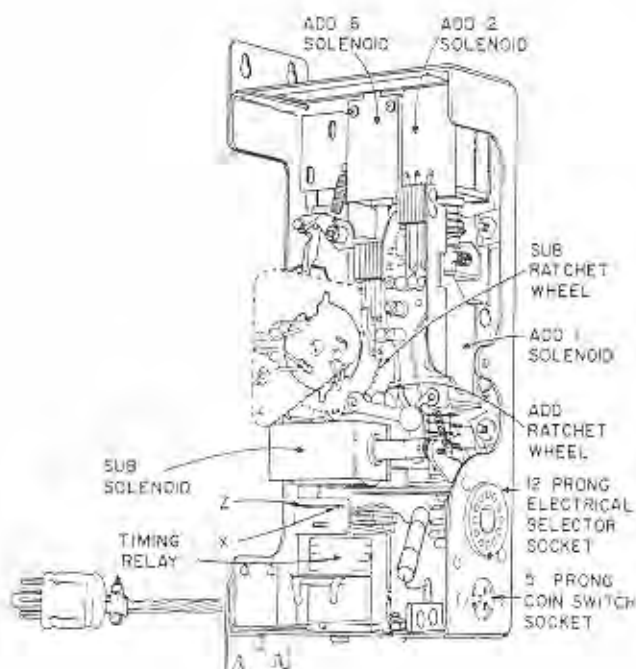


SEEBURG

CREDIT ACCUMULATOR, Type CAU1 and CAU5



Credit Unit Cover

The Credit Accumulator Unit is a part of the Tormat Memory System for storing credits for nickels, dimes and quarters deposited at the phonograph. Other functions are to cancel the credit when it is used for selections, and to control the selection system write-in pulse. It includes an add-and-subtract credit switch, three credit solenoids, a subtract solenoid, a timing relay, and a switch group that is operated by the subtract solenoid. Power for operation is taken from the Tormat Selector Unit with which it is associated and to which it is connected with a cable and 12-prong plug.

The credit switch is a rotary, wafer type having ratchets. The credit solenoids add credits by driving the switch counter-clockwise with pawls that engage the lower ratchet when the solenoids are energized. The credit solenoids are energized through the nickel, dime and quarter coin switches (in the phonograph cabinet) and add, respect-

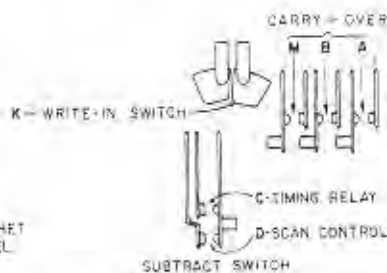
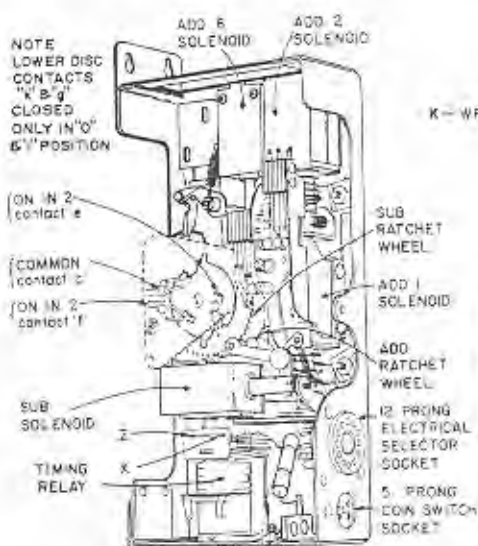
ively, one, two and six credits. A total of 24 credits may be accumulated. A $\frac{1}{2}$ ampere, slow-blow fuse fuses the credit coils for overload protection in event that a credit solenoid is continuously energized.

Operation of the subtract solenoid drives the credit switch clockwise each time a selection is made. In the CAU1, the credit switch is moved two credits toward the "no credit" position each time a selection is made. In the CAU5, the credit switch is moved one credit toward the "no credit" position each time a selection is made.

The switch group that is associated with the subtract solenoid completes the selection write-in circuit for the Memory System and interlocks the solenoid operation to assure a full operating stroke. The timing relay controls the duration of solenoid operation by interrupting the power after a predetermined time interval.

CREDIT ACCUMULATOR, Type CAU1 and CAU5

CREDIT ACCUMULATOR TYPE CAU1

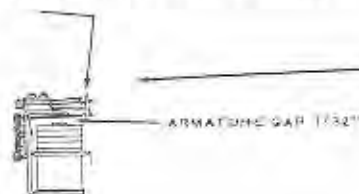


CONTACT	PRESSURE WHEN CLOSED	CONTACT GAP	NORMAL POSITION
A	1 OZ. MIN.	.010-.015	OPEN
B	1 OZ. MIN.	.010-.015	OPEN
C	7/8 OZ. MIN.	.004-.007	OPEN
D	7/8 OZ. MIN.	.010-.015	OPEN
K	7/8 OZ. MIN. AGAINST FLATE	NONE	OPEN
M	2/3 OZ.	.005	OPEN
X	1-1/2 OZ.	1/32"	CLOSED
Z	1-1/2 OZ.	1/32"	OPEN

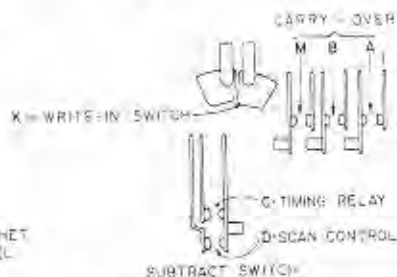
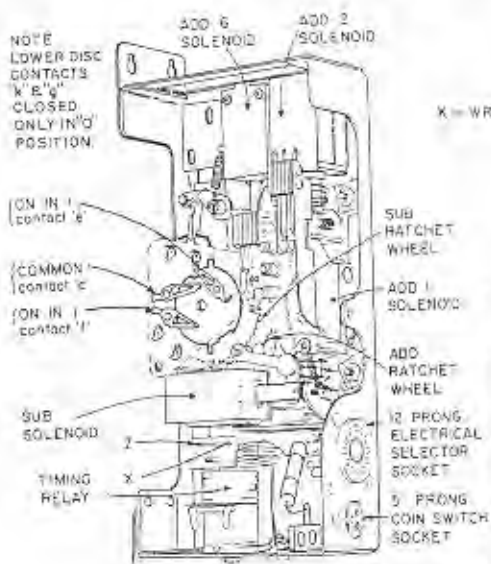
TIMING RELAY

NOTE: Credit switch contacts should have approximately 1/2 oz. pressure and will be correct if, WITH THE BAKELITE CONTACT MOUNTING PLATE REMOVED FROM THE UNIT, the blades are formed so their tips are 9/32" to 5/16" from the surface of the plate.

3 1/2 OZ. FORCE TO START ARMATURE FROM REST POSITION AS INDICATED HERE.

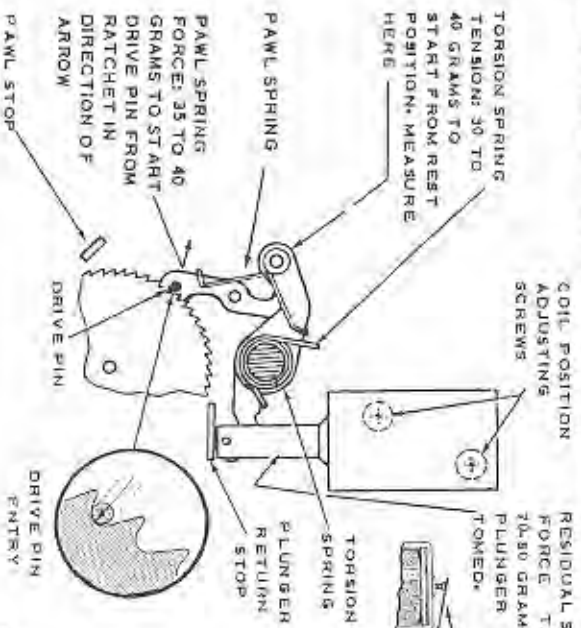


CREDIT ACCUMULATOR TYPE CAU5



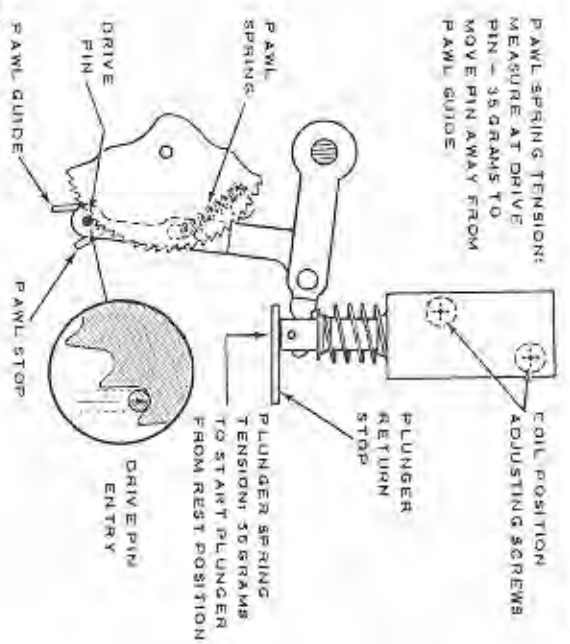
CONTACT	PRESSURE WHEN CLOSED	CONTACT GAP	NORMAL POSITION
A	1 OZ. MIN.	.010-.015	OPEN
B	1 OZ. MIN.	.010-.015	OPEN
C	7/8 OZ. MIN.	.004-.007	OPEN
D	7/8 OZ. MIN.	.010-.015	OPEN
K	7/8 OZ. MIN. AGAINST FLATE	NONE	OPEN
M	2/3 OZ.	.005	OPEN
X	1-1/2 OZ.	1/32"	CLOSED
Z	1-1/2 OZ.	1/32"	OPEN

ADD 6 (25¢) DRIVE ADJUSTMENT



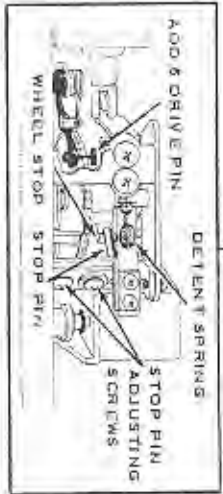
- With wheel stop against stop pin, adjust stop pin position so ADD 6 drive pin enters ratchet without striking or rubbing the sides of the teeth.
- Loosen the two screws holding the coil.
- Operate the plunger manually by applying force at the end of the plunger (*not the levers*) so it is fully seated.
- Position the coil so the plunger operation will move the wheel six teeth and be fully detented. Tighten screws holding the coil.
- Adjust pawl stop for minimum play in wheel when plunger is fully seated.
- Adjust plunger return stop position for clearance between the drive pin and the tips of the ratchet teeth. The tips should pass without rubbing but the clearance must not be more than .010".

ADD 2 (10¢) DRIVE ADJUSTMENT



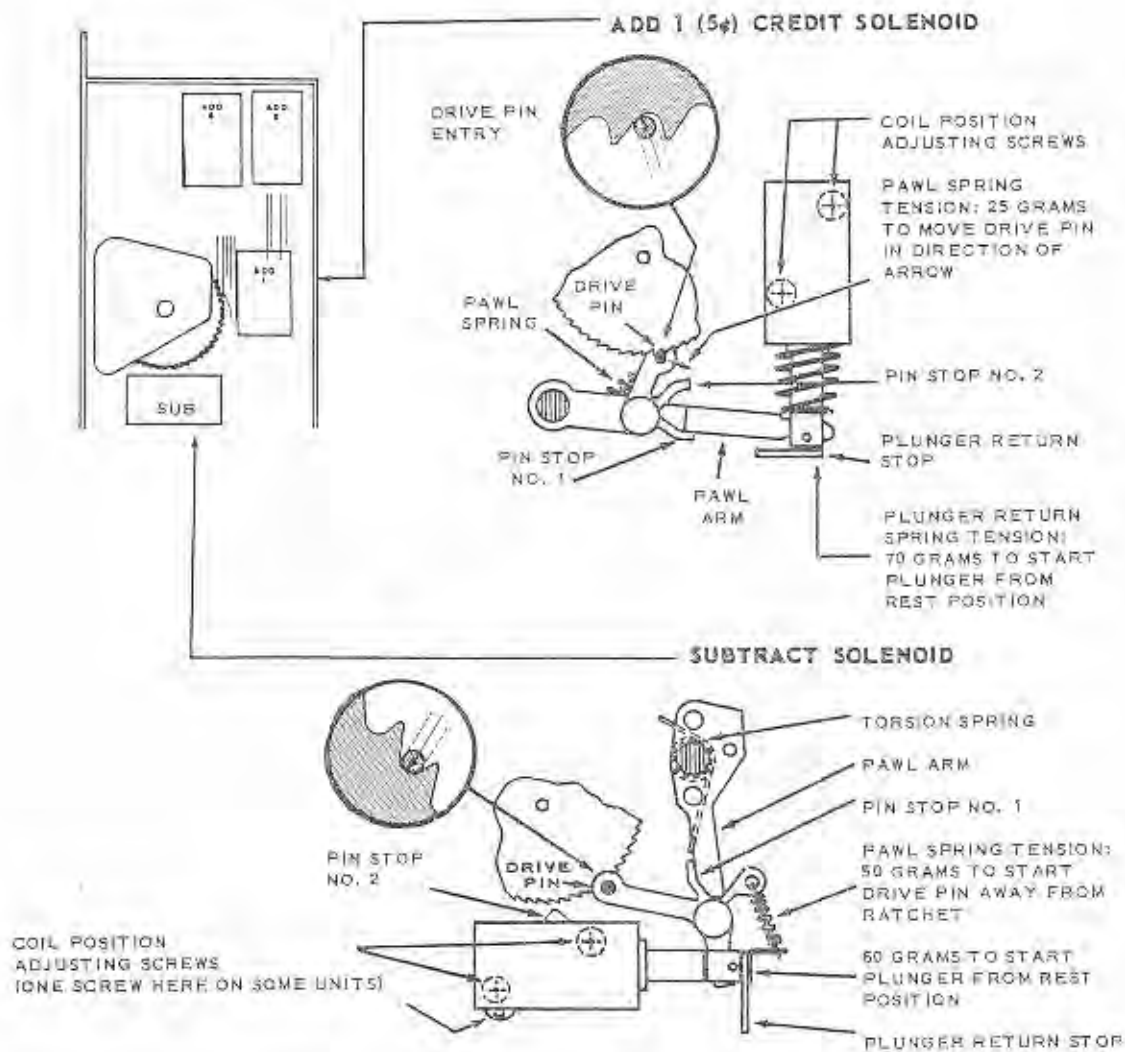
- Adjust pawl guide so drive pin enters ratchet without striking or rubbing the sides of the teeth.
- Loosen the two screws holding the coil.
- Operate the plunger manually by applying force at the end of the plunger (*not the levers*) so it is fully seated.
- Position the coil so the plunger operation will move the wheel two teeth and be fully detented. Tighten screws holding the coil.
- Adjust pawl stop for minimum play in wheel when plunger is fully seated.
- Adjust plunger return stop position for clearance between the drive pin and the tips of the ratchet teeth. The tips should pass without rubbing but the clearance must not be more than .010".

WHEEL STOP AND DETENT ADJUSTMENT



- With wheel stop against stop pin, adjust stop pin position so ADD 6 drive pin enters ratchet without striking or rubbing the sides of the teeth.
Entry of all drive pins and the detent spring position adjustments are effected by the stop pin position and should be checked if a change is made.
- Adjust position and force of detent spring so roller is in full detent when wheel stop is against stop pin and roller pressure against wheel is 150 to 160 grams (5 1/4 oz.).

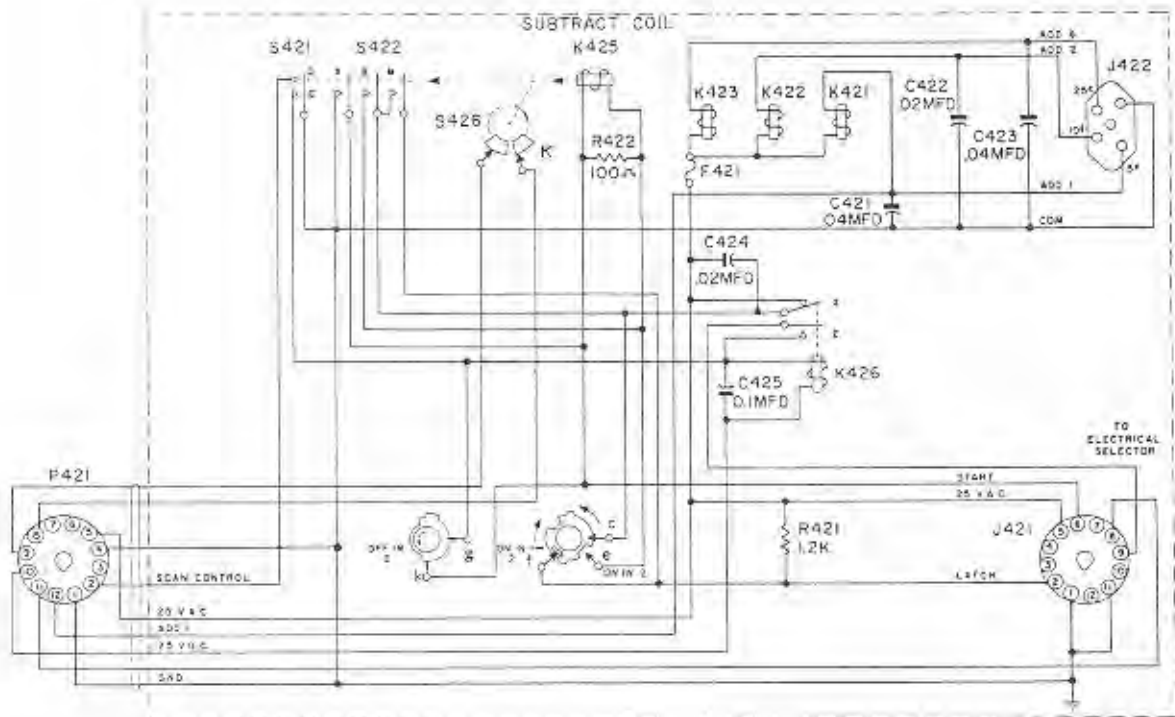
CREDIT ACCUMULATOR, Type CAU1 and CAU5



SUBTRACT AND ADD 1 DRIVE ADJUSTMENT

- A. Adjust pin stop No. 1 so the drive pin enters the ratchet without striking or rubbing the sides of the teeth.
- B. Adjust the plunger return stop position for clearance between the drive pin and the tips of the ratchet teeth. The tips should pass without rubbing but the clearance must not be more than .010".
- C. Loosen the two screws holding the coil.
- D. Operate the plunger manually by applying force at the end of the plunger (*not the levers*) so it is fully seated.
- E. Position the coil so the plunger operation will move the wheel the required number of teeth and will be in full detent. Tighten screws holding the coil.
- F. Adjust pin stop No. 2 for minimum play in wheel when plunger is fully seated.

CREDIT ACCUMULATOR, Type CAU1 and CAU5



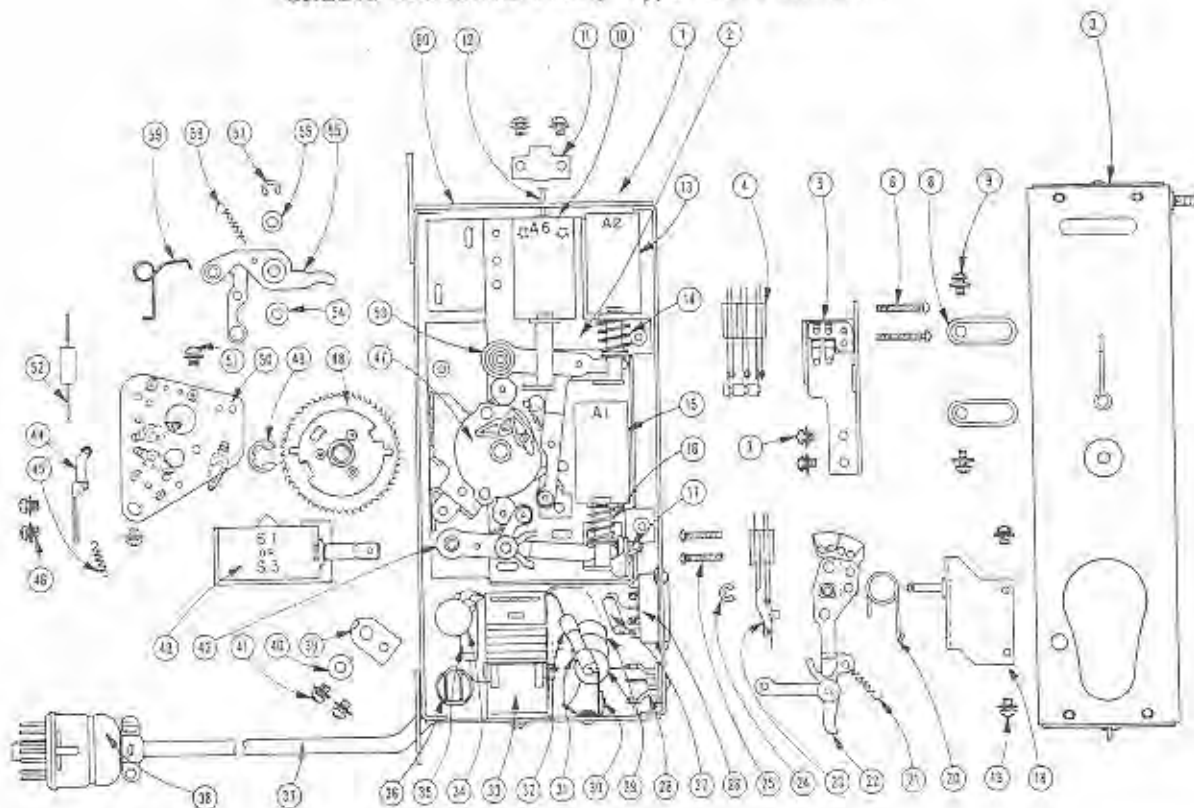
Schematic Diagram, Type CAU1.

NOTE: Schematic diagram for type CAU5 same as above except contact "f" is "on in 1" and contact "e" is "on in 1". Contact "k" on in "0" and off in 1 and more.

PARTS LIST

Item	Part No.	Description	Item	Part No.	Description
C421	86258	.04 Mfd. Condenser, Ceramic	K423	450186	Solenoid Assembly (Add 6)
C422	86259	.02 Mfd. Condenser, Ceramic	K422	450182	Solenoid Assembly (Add 2)
C423	86258	.04 Mfd. Condenser, Ceramic	K421	450184	Solenoid Assembly (Add 1)
C424	86259	.02 Mfd. Condenser, Ceramic	S426	450255	Write-in-switch
C425	86142	.01 Mfd. Condenser, 200V.	S422	450150	Switch (Carry-over) (CAU1)
J422	450735	Socket (5 Contact)		450211	Switch (Carry-over) (CAU5)
J421	201275	Socket (12 Contact)	S421	450628	Switch (CAU1)
F421	450683	Fuse (1/2 Amp Slo-Blo)		450630	Switch (CAU5)
P421	410707	Plug (12 Prong)			
K426	450280	Timing Relay	R422	82838	100 Ohms Resistor, 2 W.
K425	450188	Solenoid Assembly(Sub)	R421	82707	1.2 K Resistor, 1 W.

CREDIT ACCUMULATOR, Type CAU1 and CAU5



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	450800	TYPE CAU1 CREDIT ACCUMULATOR UNIT	31	86259	0.02 MFD CERAMIC CONDENSER
	450802	TYPE CAU5 CREDIT ACCUMULATOR UNIT	32	450683	1/2 AMP. FUSE
2	450808	MTG. PLATE ASSEMBLY	33	450280	TIMING RELAY
3	450819	COVER ASSEMBLY CAU1		914249	8-32 X 5/16 SEMS
	450859	COVER ASSEMBLY CAU5	34	86259	0.02 MFD CERAMIC CONDENSER
	450820	LABEL CAU1	35	86142	0.1 MFD CONDENSER, 200 VOLT
	450860	LABEL CAU5	36	450278	STRAIN RELIEF CLAMP
4	450150	CARRY-OVER SWITCH CAU1	37	450638	CABLE ASSEMBLY
	450211	CARRY-OVER SWITCH CAU5	38	408259	CAP & LINER
	450260	TENSION PLATE		410709	12-PRONG PLUG
5	450254	SWITCH MT. BRKT. ASSEMBLY CAU1		247855	CLAMP FILLER
	450344	SWITCH MT. BRKT. ASSEMBLY CAU5	39	450566	CREDIT WHEEL STOP PLATE
6	911011	3-48 X 1/2 PHILLIPS R.H.M.S.	40	920014	FLATWASHER
7	912882	6-32 X 3/16 SEMS	41	912970	6-32 X 1/2 SEMS
8	F-1960	CABLE CLAMP	42	450065	CREDIT ARM ASSEMBLY
9	913177	6-32 X 3/8 SEMS		450098	SPRING
10	450186	COIL AND BRKT. ASSEMBLY ADD 1		125448	RETAINING RING
	925321	1106 LOCKWASHER	43	450188	COIL & BRACKET ASSEMBLY CAU1
	920741	FLATWASHER		450335	COIL & BRACKET ASSEMBLY CAU5
	912882	6-32 X 3/16 SEMS		450331	COIL SUPPORT BRACKET
11	450318	RESIDUAL SPRING		920741	FLATWASHER
	912833	6-32 X 1/8 SEMS		912882	6-32 X 3/16 SEMS
12	450317	RESIDUAL PIN		913026	6-32 X 1/2 SEMS
13	450182	COIL & BRKT. ASSEMBLY ADD 2		925321	1106 LOCKWASHER
	920741	FLATWASHER		450075	SOLENOID PLUNGER ASSEM. CAU1
	912882	6-32 X 3/16 SEMS		450348	SOLENOID PLUNGER ASSEM. CAU5
	450075	SOLENOID PLUNGER ASSEM. CAU1	44	450465	DEYENT SPRING & ROLLER ASSEM.
	450348	SOLENOID PLUNGER ASSEM. CAU5	45	450464	DEYENT SPRING
14	450329	SPRING	46	910821	3-48 X 3/16 PHILLIPS R.H.M.S.
	921850	FLATWASHER	47	450879	TERMINAL BOARD ASSEMBLY CAU1
	125452	RETAINING RING		450880	TERMINAL BOARD ASSEMBLY CAU5
15	450184	COIL & BRKT. ASSEMBLY ADD 1		450069	TERMINAL BOARD CAU1
	920741	FLATWASHER		450335	TERMINAL BOARD CAU5
	912882	6-32 X 3/16 SEMS		450070	BOARD MTG. BRACKET
	450075	SOLENOID PLUNGER ASSEM. CAU1		450142	CONTACT SPRING ASSEMBLY
	450348	SOLENOID PLUNGER ASSEM. CAU5		940120	SOLDER LUG
16	450329	SPRING		980650	0.125 DIAM. X 3/16 TUB. RIVET
	921850	FLATWASHER		980910	0.088 DIAM. X 1/8 TUB. RIVET
	125452	RETAINING RING		929741	FLATWASHER
17	450375	BUMPER		912862	6-32 X 3/16 SEMS
18	450027	PIVOT BRKT. ASSEMBLY CAU1	48	450262	CREDIT WHEEL ASSEMBLY
	450332	PIVOT BRKT. ASSEMBLY CAU5		921590	WASHER 0.003 TK
19	912882	6-32 X 3/16 SEMS		921550	FLATWASHER
20	450291	TORSION SPRING	49	125403	RETAINING RING
21	450129	SPRING	50	450814	CONTACT PLATE ASSEMBLY CAU1
22	480105	CANCEL ARM ASSEMBLY CAU1		450854	CONTACT PLATE ASSEMBLY CAU5
	480339	CANCEL ARM ASSEMBLY CAU5	51	912970	6-32 X 1/2 SEMS
23	450628	SWITCH CAU1		920741	FLATWASHER
	450630	SWITCH CAU5	52	82838	100 OHM RESISTOR
	450260	TENSION PLATE	53	450111	CREDIT ARM ASSEMBLY
	450259	TAPPED PLATE		450129	SPRING
24	125448	RETAINING RING	54	921051	FLATWASHER
25	910991	3-48 X 5/8 PHILLIPS R.H.M.S.	55	450121	CREDIT ARM ASSEMBLY
26	201275	12-PRONG SOCKET	56	921113	FLATWASHER
27	82707	1200 OHM RESISTOR	57	301374	RETAINING RING
28	450735	5-PRONG SOCKET	58	450813	SPRING
29	86258	0.04 MFD CERAMIC CONDENSER	59	450121	SPRING
30	400697	TERMINAL STRIP	60	450511	SUPPORT FRAME RIVETED ASSEMBLY