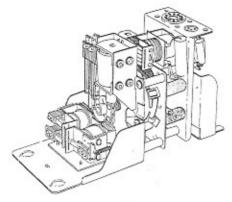
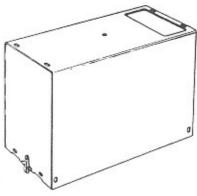
## SEEBURG

SINGLE PRICING UNIT Type SPU1H





Pricing Unit Cover

The Single Pricing Unit, Type SPUIH, is a part of the Tormat Selection System for making selections for nickels, dimes, quarters and half dollars deposited at the phonograph. Its function is to store credit for coins deposited, cancel the credit as it is used for selections and to control the selection system write-in current pulse. Power for operation is taken from a Selection Receiver or Power and Control Unit with which it is associated and to which it is connected with a cable and plug.

The principle parts of the unit are three credit solenoids, a cancel solenoid, two cam operated switch groups, a timing relay, an a.c. operated "50¢ relay" and a d.c. operated "slow release relay". These may be identified in Figure 2.

The credit switch is a "wheel" supporting six equally spaced snap-action switches which are parallel connected and terminate at a collector ring and the grounded frame of the unit. The snap-action switches are closed by the plungers of the credit solenoids. One solenoid is operated by the nickel and dime operated coin switches, one by the quarter coin switch, one by the 50-cent switch. Closing any one of the snap-action switches establishes "credit" so selections can be made. Each time a selection is made, the cancel solenoid in the Unit advances the credit switch one sixth turn. It is advanced, therefore, one position the distance between the snap-action switches - for each selection made.

A reset bracket is mounted on the assembly so a snap-action switch moves past it each time a selection is made. When a snap-action switch that has been turned "on" (by a credit solenoid plunger) passes the bracket, it is engaged by the bracket and reset to the "off" position.

The "nickel and dime" is mounted so its plunger turns on the snap-action switch which is one position from the reset bracket. Because the switch will be opened with one operation of the cancel solenoid, one credit is set up when a 10¢ coin or two nickels are deposited. (The slug rejector in the phonograph is equipped with a tilting lever that permits only alternate nickels to operate the "nickel coin switch".)

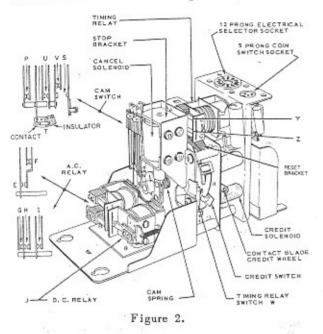
The "quarter solenoid" is three positions from the reset bracket and will turn on a snapaction switch permitting three selections to be made.

The "half dollar solenoid" is four positions from the reset bracket and is parallel connected to the a.c. operated "50-cent relay". It turns on the snap-action switch that is four positions from the reset bracket permitting four selections to be made. When the fourth selection has been made, the snap-action switch is opened but the 50¢ relay and the slow release relay then operate to energize the quarter solenoid to permit three additional selections so there are a total of seven for the 50-cent coin.

The cancel solenoid plunger is linked to one of the switch cams so the cam is rotated approximately 60 degrees when the solenoid is energized. This cam is pinned to a shaft which drives the other of the two switch cams. A pawl on the second cam engages a ratchet on the credit switch and moves it one position each time the solenoid plunger operates.

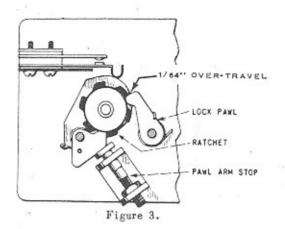
The timing relay operates at approximately 25 volts d.c. and is loaded with copper slugs that delay starting of its armature from the rest position. The delay is introduced to control the time the contacts in the switch groups are closed.

The switch groups contact functions are detailed in the table on Page 16015.

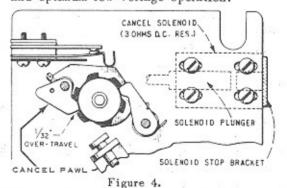


## MECHANICAL ADJUSTMENTS

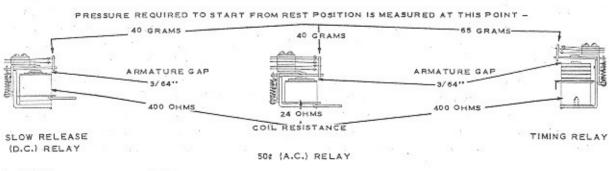
- The Pawl Arm Stop limits the rotation of the credit switch when the Cancel Solenoid plunger returns to normal rest position. It should be adjusted so the credit switch rotates far enough to allow the Lock Pawl to fall into the ratchet and have approximately 1/64" overtravel. The adjustment must be checked at all six positions of the credit wheel and the ratchet. After adjustment, set the locknut tight. See Figure 3.
- Adjust the position of the Cancel Solenoid
  Stop Bracket so the Cancel Pawl overtravels the ratchet teeth approximately
  1/32" when the solenoid plunger bottoms
  against the Stop. Set the Stop mounting
  screws firmly after adjustment. See Figure 4.



3. Set the end of the Cam Spring in the first hole in the panel. The Cam Spring may be identified in Figure 2. Check operation by closing all snap-action credit switches and allow the Cam Spring to rotate the switches past the reset bracket. This should be checked slowly to determine if the Spring pressure is adequate to reset the switches without benefit of inertia. If more spring pressure is required, move to the second hole and repeat the test. Use the lowest possible spring pressure (consistent with positive operation) to insure minimum wear and optimum low voltage operation.



4. The pressure of the credit wheel contact against the ring on the credit switch should be approximately 2½ oz. Excessive pressure will result in excessive wear and sluggish rotary action of the credit switch.

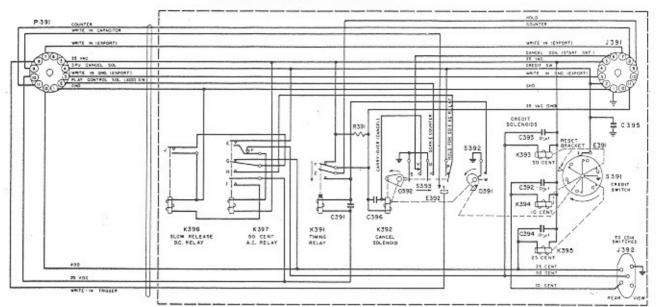


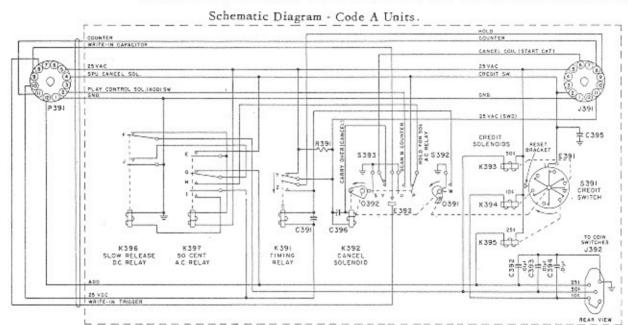
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Issue 2

## SINGLE PRICING UNIT, Type SPU1-H





Schematic Diagram - Code B & Code C Units.

SWITCH	CONTACT	PRESSURE	CONTACT GAP	HORMAL POSITION	FUNCTION
CAM SWITCH	S	3% oz.	1/64"	OPEN	Carry-Over Contact For Cancel Sciencid.
	т	2/3 oz.	.D40" ON INSULATOR	OPEN	Selection Write-In Pulse Trigger Switch,
	U	1 ox.	1/64"	OPEN	Operators Phonograph Selection Counter And Play Control Add Selevoid.
	٧	1 01	.010*	CLOSED	Completes Circuit Te Cancel Solenoid From Electrical Selector Starting Switches.
	P.	3/4 oz.	1/64"	CLOSED	Hold Contact For Sile Relay, In Series, Hith H.
TIMING	Y	1-1% es.	1/32"	CLOSED	Completes 35-Volt Circuit To Cancel And Circuit Scienceds And Electrical Selector Laten Bar Scienced
RELAY	z	1-1% oz.	1/32"	GPEH	Timing Relay Interlock, In Series With Hold Switches In Electrical Selector.
SWITCH	W	2/3 oz.	3/64*	OPEH	Operates Fining Relay.
SO# A. C. RELAY	G	2/3 01	1/64*	CLOSED	In Stries With J On Slow Release Relay. Ogerates 35¢ Credit Solenoid.
	Н	2/3 oz.	1/64*	OPEN	Hold Contact For SQ: Relay, In Series With P.
	1	2/3 ax.	1/64"	OPEN	Operates Stow Release Relay.
	Ε	2/3 oz.	.010**	02 EN	Hold Contact Fix 50e Relay.
	p	1 oz.	.008⁻	CLOSED	Completes Circuit From SDe Coin Switch To SDe Relay Cort.
SLOW SELEASE D. C. RELAY	1	1 02.	1/32-	GPEX	In Stries With G On Sile Relay, Operates 25e Credit Sciencid,

