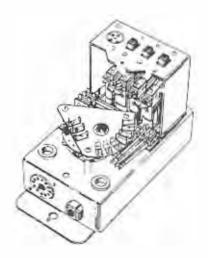
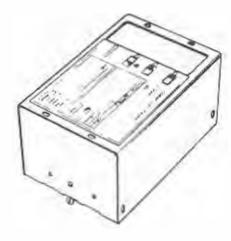
SEEBURG

HALF DOLLAR UNIT





Half Dollar Unit Cover

The Half Dollar Unit, Type HDUI, is designed for use with 5-10-25-cent Single or Dual Pricing Units to add half-dollar coin operation to these Units and provide for convenient flexibility of selection pricing. It does not alter, in any way, the selection operation or credit storage principle of the Pricing Unit with which it is associated; it supplements only the coin switch operation by setting up in the Pticing Unit, credits having value more than that given by two quarters, when a 50-cent coin switch is operated.

The Half Dollar Unit connections in a phonograph are made with cables and plugs as indicated in *Pigure* 2. A coin switch plug and a 12-prong plug and cables attached to the Half Dollar Unit are used to replace, respectively, the phonograph coin switch plug and electrical selector plug in the Pricing Unit. The phonograph coin switch plug and electrical selector plug, then, are inserted in the sockets in the Half Dollar Unit.

The fundamental operation of the Half Dollar Unit is associated with a motor driven switch.

The switch makes contact with six individual contacts that can be connected to the credit

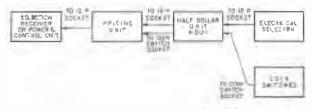


Figure 2.

coils in the associated Pricing Unit. The motor is started by closing a 50-cent or 25-cent coin switch and the subsequent operation results in establishing the desired credits. The credit coils that are energized in the operation are determined by the positions of three switches on the Half Dollar Unit (Figure 3) and by leads that are part of the pricing terminal board in the Unit. There are also two relays — a 25-cent relay and a 50-cent relay that function for control of the motor and are associated with the 25 and 50-cent coin switches of the phonograph. The operation of these relays, like the motor, is determined by the positions of the three switches.

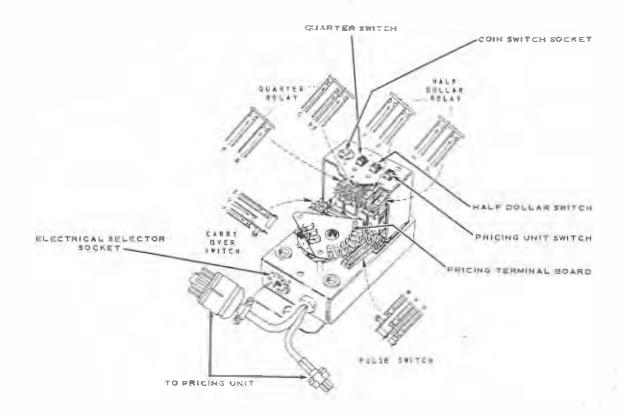


Figure 3.

TYPICAL CREDIT OPERATION WITH VARIOUS SWITCH POSITIONS ARE AS FOLLOWS:

PERATION WITH DUAL PRICING UNIT, TYPE DPU1

1. Selection Pricing!

Singles 10-cents/3 for quarter/7 for half EP Albums 15-cents/2 for quarter/4 for half plus one single

Switch positions on Half Dollar Unit:

Pricing Unit switch on position DPU1 Half Dollar switch on position 2 Quarter switch on position 3

In this arrangement and with these switch positions, the 5-cent, 10-cent and 25-cent credit solenoids of the Pricing Unit connect through the Half Dollar Unit to, respectively, the 5-cent, 10-cent and quarter coin switches and their operation is not altered by the use of the Unit. Operation with a 50-cent coin results in operation of the 50-cent relay and the HDU motor and

totaling in the DPU credits for seven 10-ceot selections or any combination of selections equal to a 70-cent credit.

If the Half Dollar switch is set to position I (instead of 2), the total half-dollar credit will be equal to 65 cents instead of 70 cents.

2. Selection Pricing:

Singles 10-cents/4 for quarter/9 for half EP Albums 15-cents/2 (plus 1 single) for quarter/6 for half

Switch positions on Half Dollar Unit:

Pricing Unit switch on DPU1
Half Dollar switch on 2

Quarter switch on 4

The 5-cent and 10-cent credit solenoids of the DPU connect through the HDU to, tespectively, the 5-cent and 10-cent coin switches. Their operation is not modified in any way by

16026 (KE)

HDU. Operation with a quarter energizes the 25-cent relay, starts the HDU motor and results in a total credit in the OPU for four 10-cent selections or any combination of selections equal to a 40-cent credit. Operation with a half dollar energizes the 50-cent relay, starts the motor and results in a total credit in the DPU for nine 10-cent selections or any combination of selections equal to a 90-cent credit.

If the Half Dollar switch is set to position 1, there will be a total credit equal to 35 cents instead of 40 cents when a quatter coin is used but 50-cent operation is not affected because the switch is not used in the cycle of operation in which a 50-cent coin is involved.

OPERATION WITH SINGLE PHICING UNIT, TYPE SPUL

3. Selection Pricing:

All selections 10-conts/3 for quarter/7 for half

Pricing Voit credit solecoid positions:

10-cent coil in 1-credit position 25-cent coil in 3-credit position

Coin switch connections (in SPU1):

25-cent coin switch terminal to 25-cent coil

5-cent and 10-cent tetrainals of coloswitch socket concected together acid to 10-cent coil. (Diverter used on slug rejector so alternate nickels operate 5-cent coin switch.)

Switch positions on Half Dollar Unit:

Pricing Unit switch on SPU1
Half Dollar switch on 1
Quarter switch on 3

The 5-cent, 10-cent and quarter coin switches connect to their associated credit solenoids in the SPUI. Their operation is not modified by connection through the HDU. Operation with half-dollar coin energizes the 50-cent relay and starts the HDU meter. The motor operates until the totary switch closes its first contact at which time a 25-ceot credit is set up in the SPU. When the credit is established, the motor stops and remains idle until the credits have been used (three 10-cont selections). On completion of the third selection, the 50-cent relay again operates, the motor starts and drives the switch to another contact. When the switch is at this contact, three more credits are set up in the SPU. Again the relay releases and the motor stops to remain idle until the second group of three selections has been made. When these selections have been made, the motor and relay again operate and the switch moves to another contact. In this third operation of the motor, one more credit is set up, bringing the total of 10-ceot selection credits to seven (three-plus-three-plus-one) for a half dollar.

4. Selection Pricing:

All selections 10-cents/4 for quarter/9 for half

Single Pricing Unit credit solenoid positlous:

10-cent coil in 1-credit position 25-cent coil in 4-credit position

Coin switch connections (in SPU1) same as in 3.

Switch positions on Ilalf Dollar Unit:

Pricing Unit switch on SPUl Half Dollar switch on 1 Quarter switch on 3

Operation with all coins is the same as for 10-cents/3 for quarter/7 for half as detailed in 3 except that the 25-cent credit solenoid io the SPUI is in the 4-credit position and will give 4 credits each time it is energized. This results in 4 credits for a quarter and 9 for a half dollar.

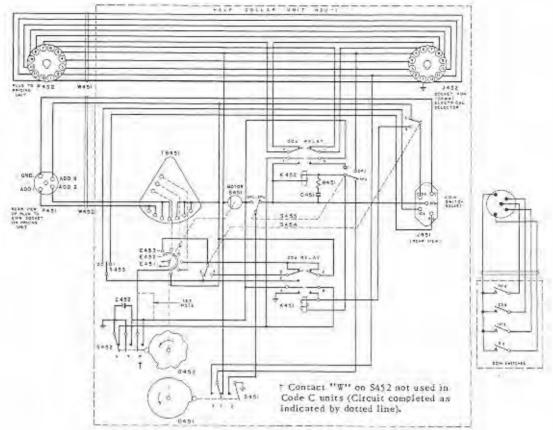
Additional bonus credits for half-dollar operation may be established by using connecting leads at the terminal board in the Unit. There are three flexible leads and seven connectiog terminals that are identified by color. Two of the terminals are marked green and connect to the add-1 credit solenoid of a Dual Pricing Unit; to the 5-cent credit solenoid of a Single Pricing Unit. I'wo terminals are yellow and connect to the add-2 credit solenoid of a DPU; to the 10-cent credit solenoid of ao SPU. Three terminals are marked with red and connect to the add-6 solenoid of the DPU; to the 25-cent credit soleuoid of an SPU. If one of the three leads is connected to a "green terminal", one additional credit vill be established each time the motor drives the rotary switch through a cycle of operation. If a lead is connected to a "red terminal", an additional 25-cent credit will be set up with each operation of the HDU motor. The leads and terminals may be used in any desired combination of credits.

CONTACT GAP ADJUSTMENT

RELAY	RELAT PU LED IN		MILAY DROPPED OVE		CONTACT FUNCTIONS ON HOU-1	
А	CLOSED	20	GRAMS	OPEN	.015 MIN.	MOTOR CIRCUIT
8	CLOSED	20	GRAMS	OPEN	.015 MIN.	WELAY INTERLOCK IN SERIES WITH "U" ON PULSE SWITCH
C	DPEN	.015	MIN.	CLOSED	20 GRAMS	ADD & CIRCUIT CONNECTS 25 CREDIT OIL OF PHICING UNIT TO "W" (PULSE SWITCH)
D	OPEN	,015	MIN.	CLOSED	20 GRAMS	ADD 6 CIRCUIT (FINAL & CREDITS)
L	CLOSED 20 GRAMS		OPEN	-015 MIN.	ADD 2 CIRCUIT CONNECTS IOF OR OF CREDIT COIL OF PRICING UNIT HRU QUARTER SWITCH TO W'CONTAC	
F	CLOSED 20 GRAMS		OPEN	.015 MIN.	RELAY INTERLOCK IN SERIES WITH "U" ON P LSE SWITCH	
G	CL0505	2.0	GRAMS	OPEN	.015 MIN.	MOTOR CREWIT
H	OPEN	.015	MIN.	CLOSED	20 GRAMS	OPENS EP CHICUIT DURING 50 / CHEGIT OPERATION
d	OPEN	.015	MIN.	CLOSED	20 GRAMS	OPENS SINGLES CIRCUIT DURING SO & CREDIT OPERATION
SWITCH CONTACTS			RMEDIATE OF CAM	OF CAM		
U	CLOSED 15 GRAMS (I	MIN)	CLOSEI 15 GRAN		OPEN .010 GAP	INTERLOCK CIRCUIT FOR SOF AND 25 F RELAYS (OPENS ONLY BY LOGE "A" ON PULSE CAM)
V.*	CLOSED 15 GRAMS()	MIN)	OPEN .005 GA	P (MIN)	OPEN	MOTOR CIRCUIT
W.*	CLOSED OPEN IS GRAMS (MIN) .OIS GAI		P	OPEM	OPERATES CHILDIT COILS IN PRICING UNIT (IN CONJUNCTION WITH MOTOR DRIVEN SWITCH IN BOLL)	
×	CLOSED 25 GRAMS(N	(NIN)	0PEN 1/64 G	AP	OPEN 1/32TO3/64GAP	COMPLETES 25 V. TO 50 F HILAY ON SPU OPERATION
Ŷ	OPEN 3/64 GAP		OPEN 1/646	AP	CLOSED 15 GRAMS	IN 25 V CIRCUIT TO 25 F AND 50 F RELAYS
7	CLOSED IOGRAMS(N	MIN)	CLOSE	D MS(MIN)	OPEN 3/64GAP	DROUND CIRCUIT FOR 25 FAND SOF RELAYS PARALLELS "6" IN SOF AND "A" CONTACTS IN 25 F

* NOTE: 'W' MUST OPEN BEFORE 'V'.

HALF DOLLAR UNIT, TYPE HOUL



Schematic diagram

PARTS LIST

	Rem	₽art No.	Part Na∢ne	\$3
	B451	450710	Timing Mater	
	C45 t	86259	Condenser .02 ±ze 500 V. Ceratnic	
	C-452	86259	Condenser .02 .50% 500 V. Ceramic	
	E451	-150715	Contact Finger Assembly	
	E452	450721	Contact Ring	
	E453	450719	Contact Segment *	
	1451	450735	Coin Switch Socket	
	3452	201275	Socket (12 Pin)	
	K451	450729	Relay (Cuarter)	
	K452	450730	Relay (Hatf Dollar)	
	451	Carry-Dve	Part No. 450712-Rotor Part No. 450782-Rotor	Assy-Code A Units
	0452	Pulse Car	п (*) Part Nc. 450782-Roto	Assy-Code & Units
	P451	450736	Coin Switch Plug	
	P 452	410707	Plug (12 Pin)	
	R451	82403	Resistor 18 ±10% ½ W.	7 W. SA
	\$451	450725	Carry Over Switch	
	\$452	450727	Pelse Switch-Code A & Units	
	1	450789	Pulse Switch-Code C Units	
	\$453	450733	Slide Switch	*See Notes
	\$454	450734	Slide Switch	Page 16030
	\$455	450734	Slide Switch	
T	6451	450722	Terminal Coard Assembly*	
	Y/451	450753	Cable Assembly	
	#452	450737	Cable Assembly (Coin.)	

	Item Part No. Part Name
	1 (*0700 Movelies Rose Riveled Assembly
/ / [0] (0) / E	Mounting Base Riveled Assembly
	968325 Grummet
DOB ES	602828 Strain Relief Clamp
T T TO THE REAL PROPERTY OF THE PARTY OF THE	2 988161 Grommets
	3 450738 Spacer
	4 450726 Carryover Switch Assembly
O Contset	450259 Tapped Plate
	450250 Tension Plate
	911031 3-48 x 7/8 Phillips R.H.M.S.
L.O L.	5 450709 Switch Mounting Bracket
	912882 Sems
	6 450731 Switch Bracket Riveled Assembly
510 O	450733 Slider Switch
- 0 000 ° OK	454734 Slider Switch
	450735 \$ Pin Socket
0 Pb (O)	7 450730 Relay (50a)
	914225 Sems
	8 450728 Relay Mounting Plate
	9 450729 Relay (25∉)
- Gilling out	914225 Sems
0	10 450743 Cover Assembly
- A	912959 Sems
(5) P	11 1 450727 Pulse Switch-Code A & B Units
3	450789 Pulse Switch-Code C Units
	450259 Tapped Plate
	450260 Tension Plate
	911031 3-48 x 7/8 Phillips R.H.M.S.
	12 4.50709 Switch Mounting Bracket
	912882 Sems
00 50 00 C)	
(3)*	
	450736 5 Prong Plug
	15 201275 12 Pin Socket
(a)	16 450739 Power Cable Assembly
	410708 12 Prong Piug
0 0 (0 0 0)-0*	17 * 450712 Rolor Assembly-Code A Units
100	450782 Rotor Assembly-Code B Units
	918341 6-32 x 성 Socket 위. Cup Point Set So
0	18 450724 Spacer (Long)
Ctra 2 0	19 - 450718 Segment Plate Assembly-Code A Un
(De) 00 1	450784 Segment Plate Assembly-Code S U
	20 450725 Spacer (Shoft)
	21 * 450722 Terminal Board Assembly
	22 246933 Taper Tab Connector
3	
(m)	
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	925342 1206 Lockwasher
	24 82403 18 Okm ± 10% ½ W.
	25 86259 .02 MFD 500 V. Ceramic Condense
10	400697 Terminal Strip (Not Shown)
	* Item 17; Code A Pulso Cambas 7 Lobes
0	Code 2 % C Puite Can has 4 Loben Them 19: Code A Might have 6 Contact Segments
	Them 19: Code A Units have 6 Contact Segments Code 2 & C Units have 3 Contact Segments
GO O	Item 21; Not used in Code B & C Units
	Tittem 11: Code A & B switches have 3 pairs of contacts
	Code C switches have 2 pairs of contacts (W Contact omitted)
16030 (BG) Issue 3	THE SEEBURG CORPORATION. CHICAGO 22, ILL.