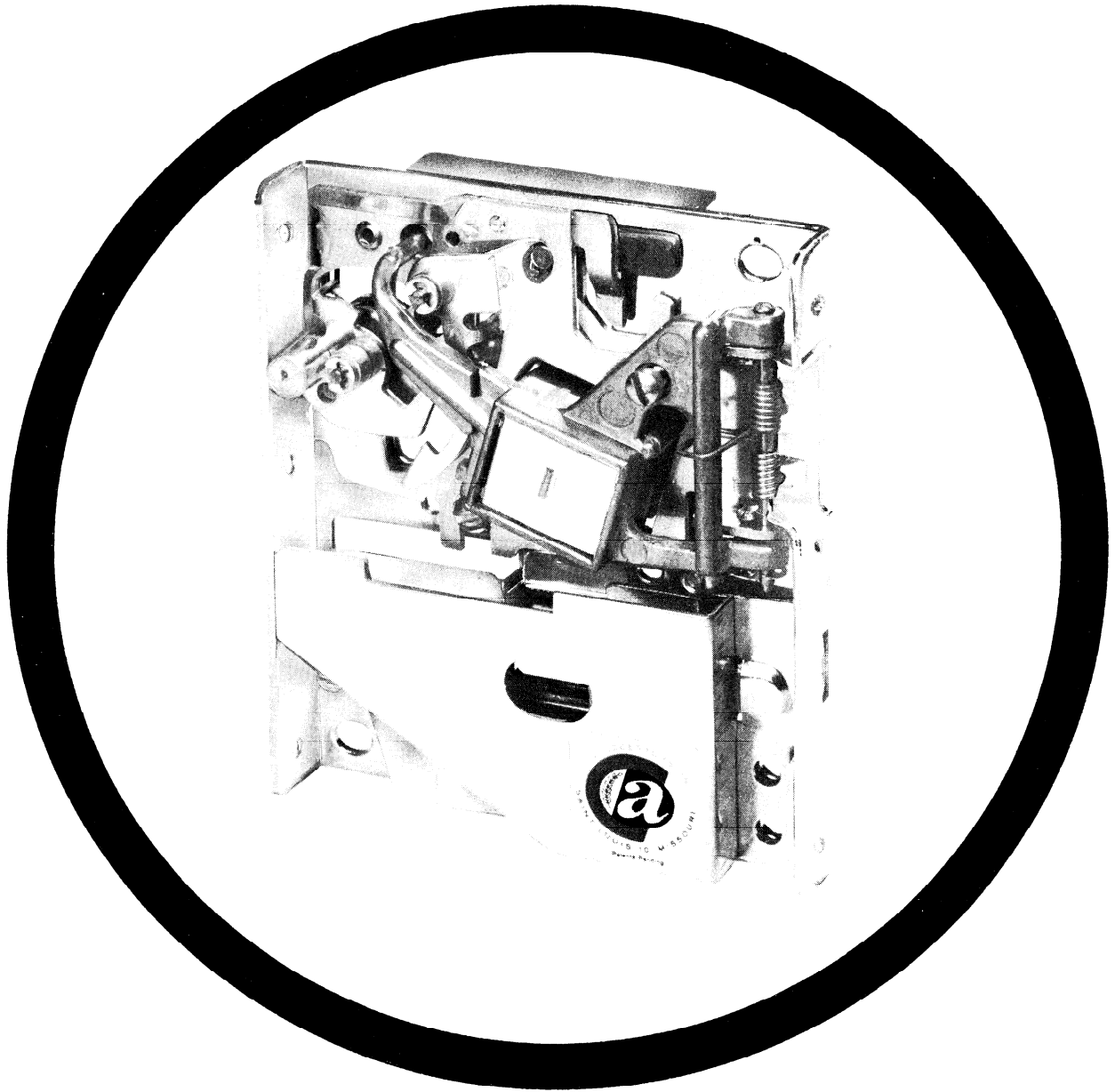


# 500 SERIES ACCEPTOR



OPERATION AND SERVICE MANUAL

 **coinco**®

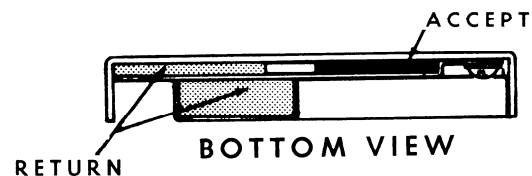
# OPERATION

The "Series 500" Acceptors are designed to require a minimum of maintenance and field adjustment. Detection and rejection of undesired or counterfeit coins are determined by size (both thickness and diameter), weight, metallic composition, and bounceability.

Transfer cradles are used to test the size of the coin. Undersize diameter coins will pass between the legs of the transfer cradle and will be returned. Oversize diameter coins will fail to pass between the transfer cradle and the wiper and will be returned by actuating the wiper operating lever. In the case of the quarter acceptor, an undersize lever must first be pivoted to unlock the transfer cradle. Undersize diameter "quarters" will fail to unlock the transfer cradle and will be returned by actuating the wiper operating lever. Coins that are oversize in thickness will fail to pass between the magnet gate and the main channel and will have to be dislodged and returned by actuating the wiper operating lever.

Transfer cradles are also used to test the weight of the coin. Underweight coins will fail to overcome the transfer cradle counterweight and will be returned by actuating the wiper operating lever.

A magnet is used to test the metallic composition of the coin. Highly magnetic coins, such as steel or iron, will be retained by the magnet and will be returned by actuating the wiper operating lever. Coins having comparatively high magnetic properties, such as copper, will be slowed down by the magnet and will drop off the end of the rail short of the "accept" entrance and be returned. Coins having little or no magnetic properties, such as brass or zinc, will pass through the magnetic field so fast that they will "overshoot" the "accept" entrance and be returned.



In the case of the Nickel Acceptor, a bounce tester is used to test the bounceability of the coin. Due to its magnetic properties, a genuine nickel passes quickly through the magnetic field and drops off the end of the rail in an arc that causes it to hit the bounce tester which, because of the coin's elasticity, "bounces" it into the "accept" entrance. A counterfeit coin passing through the magnetic field at the same speed as a genuine nickel will not have the same elasticity and so will not have the same "bounce" as a genuine nickel and will miss the "accept" entrance and be returned.

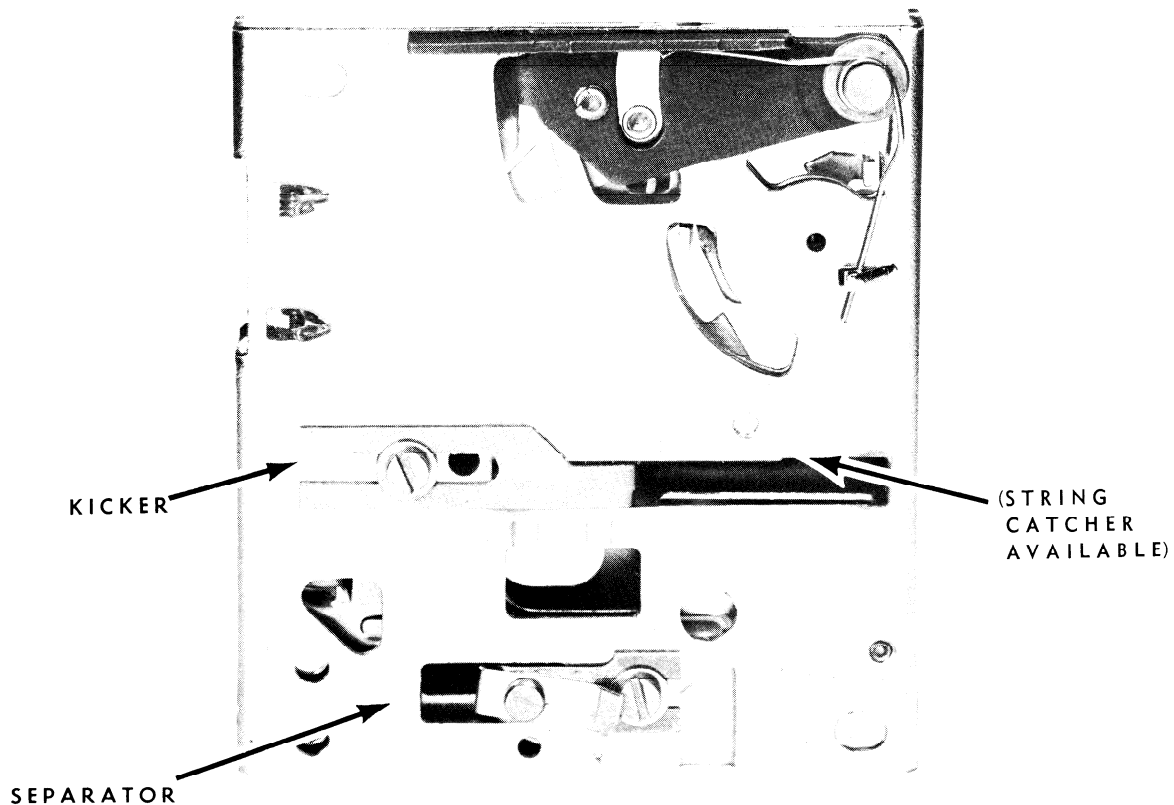
# ADJUSTMENTS

All "Series 500" Acceptors leave the factory adjusted for maximum performance. If, however, more critical adjustments are desired, or if the unit has been completely disassembled for service, the following adjustment procedure is suggested:

## A. Kicker and Separator—(On Dime and Quarter Acceptors only)

1. Set the Acceptor with the back of the unit facing you in the test position.
2. Loosen the screws holding the kicker and separator and move both as far to the right as they will go. Tighten the screws.
3. Insert several coins (both old and new) and note that some are returned by striking the separator.
4. Loosen the separator screw and move the separator a slight amount to the left. Tighten the screw.

### BACKVIEW



5. Insert the coins again and, if some of them are still returned, repeat Step 4 until all of the coins are accepted.

## **ADJUSTMENTS — (Continued)**

6. Loosen the kicker screw and move the kicker as far to the left as it will go. Tighten the screw.
7. Insert several coins and note that some of them are returned.
8. Loosen the kicker screw and move the kicker a slight amount to the right. Tighten the screw.
9. Insert the coins again and, if some of them are still returned, repeat Step 8 until all of the coins are accepted.
10. Be sure the screws are tight after all adjustments are made.

### **B. String Catcher—(Replaces the kicker in some models)**

1. The “V” in the string catcher should be assembled even with the bottom of the kicker opening.
2. On Nickel and Quarter Acceptors, the string catcher is moved as far to the right as it will go.
3. On Dime Acceptors, the string catcher is moved as far to the left as it will go.

## **MAINTENANCE —**

Depending upon the environment in which the Acceptor is used, periodic preventative maintenance should be performed.

The mainplate may be cleaned with any household cleanser. Thorough rinsing and drying are necessary to remove deposits and/or film.

Remove all filings from the magnet by guiding an ice pick, awl, or the point of a screw driver along the edges of the magnet. You will notice the filings will cling to the point of the tool.

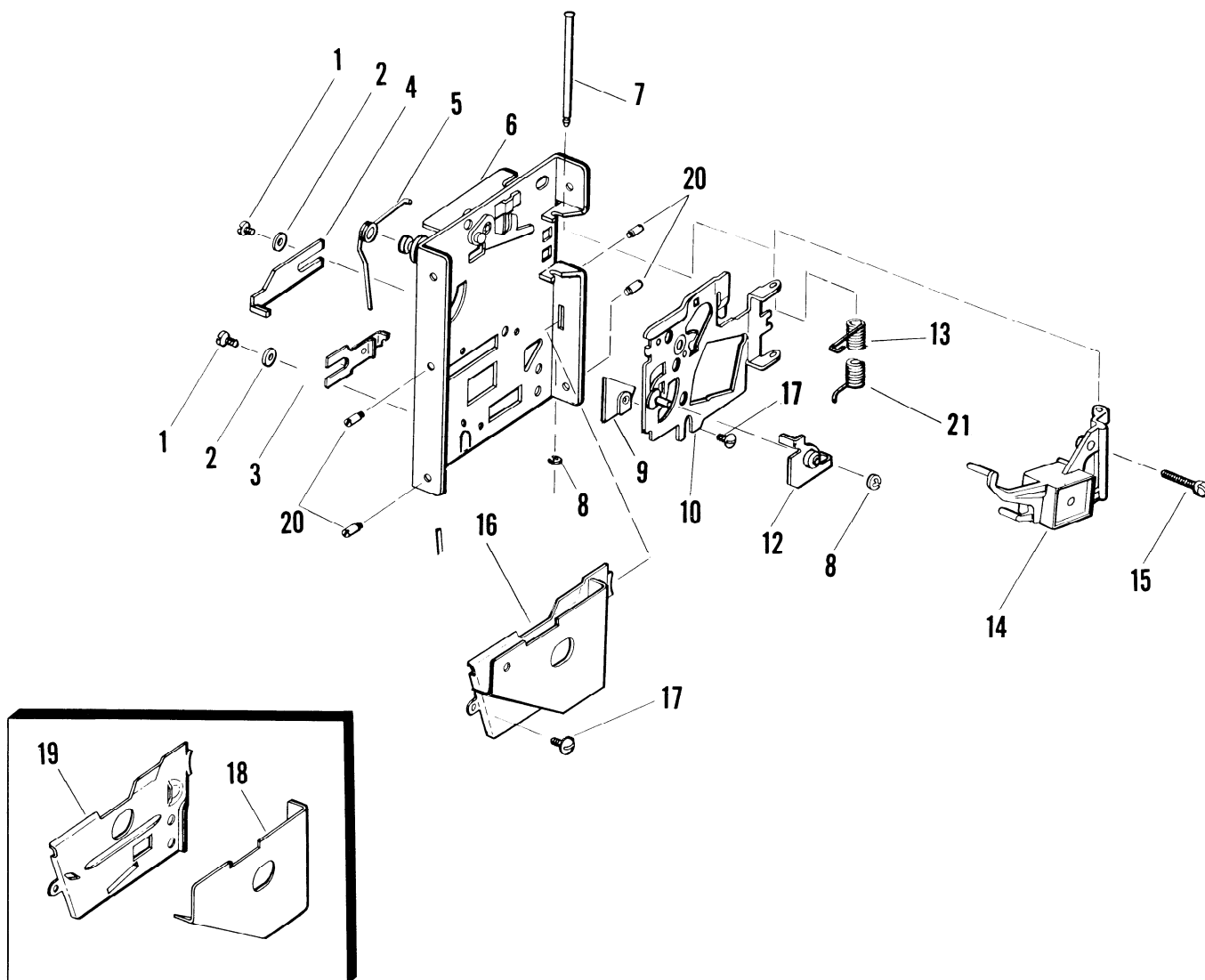
Remove the transfer cradles and undersize levers and clean the bushings. A pipe cleaner makes a good bushing cleaner. Also clean the pivot pin. Apply powdered graphite or pencil lead sparingly to the pivot pin and bushing and reassemble.

On Nickel units make certain all foreign matter is removed from the bounce tester. Also make certain the bounce tester fastening screws are tight.

In the event the recommended adjustment and maintenance procedures do not render your “Series 500” Acceptor serviceable, check for worn or damaged parts and replace as necessary.

For service assistance or sales requirements, contact our branch office in your area.

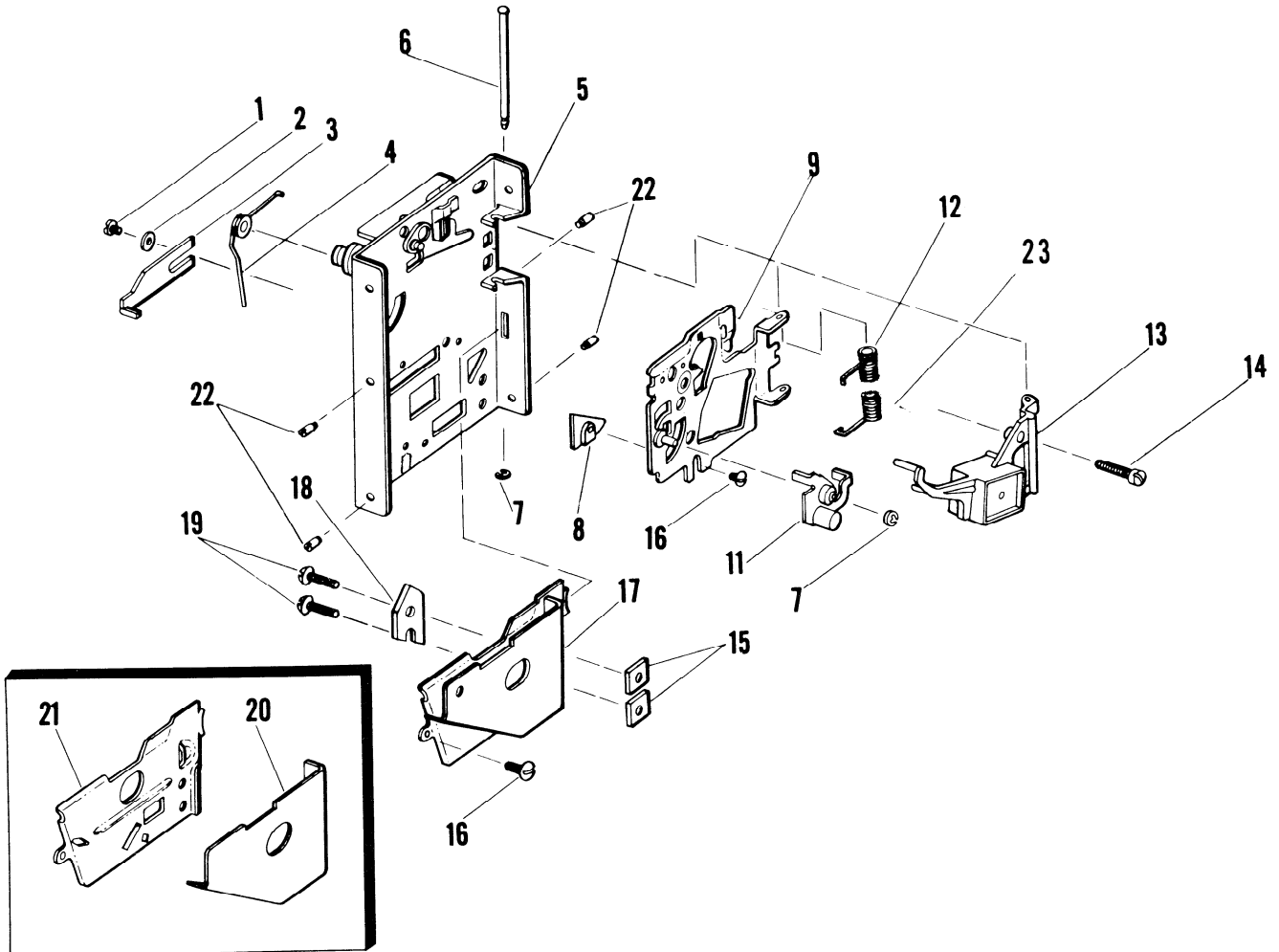
# D-520



**NOTE:** When ordering parts be sure to specify the part number, description, quantity, and model number of unit.

INDEX NO.	PART NO.	DESCRIPTION	QUANTITY	INDEX NO.	PART NO.	DESCRIPTION	QUANTITY
1	900926	Kicker Screw	2	13	901153	Upper Gate Pivot Spring	1
2	950030	#6-32x1/32 Washer	2	14	405588	10c Magnet Gate Assembly	1
3	405007-1	Separator Assembly	1	15	951061	Thickness Screw	1
4	951051	Kicker	1	16	405552	Coverplate Assembly	1
5	950069	Gate Lever Spring	1	17	150-6-2	#6-32x1/8 Rnd. Hd. Sems Screw	2
6	405551-1	Mainplate Assembly	1	18	950005	Return Coverplate	1
7	951055	Gate Pivot Pin	1	19	951066	Coverplate	1
8	900448	"C" Washer	1	20	900818	Mounting Studs	4
9	951072	10c Rail	1			(Mounting studs are not in Basic 520-0 unit)	
10	405559	10c Gate Assembly	1	21	901154	Lower Gate Pivot Spring	1
12	405619	10c Cradle Assembly	1				

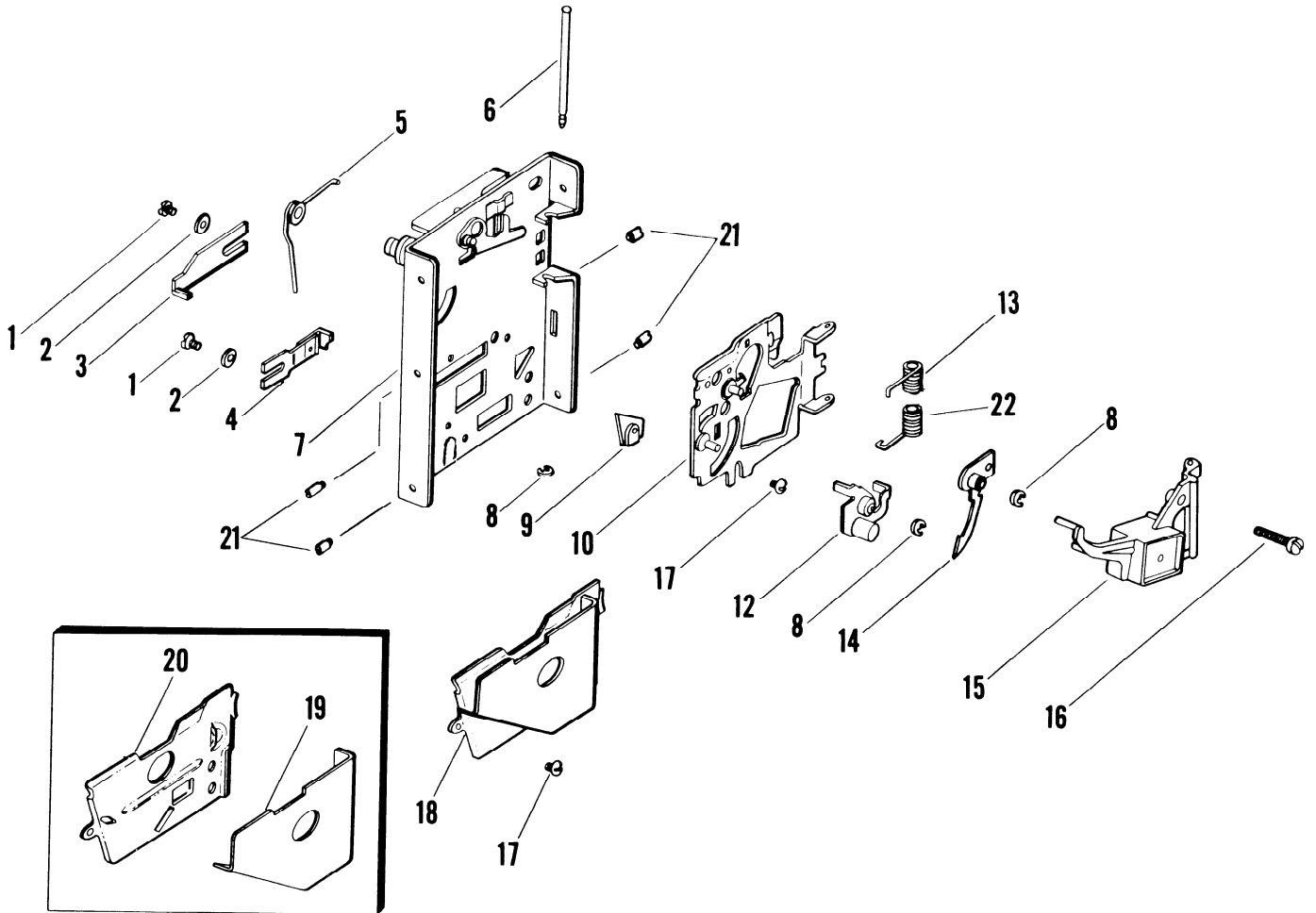
# N-510



**NOTE: When ordering parts be sure to specify the part number, description, quantity, and model number of unit.**

INDEX NO.	PART NO.	DESCRIPTION	QUANTITY	INDEX NO.	PART NO.	DESCRIPTION	QUANTITY
1	900926	Kicker Screw	1	15	402-8	Keys Nuts—8-32	2
2	950030	#6 5/16x1/32 Washer	1	16	150-6-2	#6-32x1/8 Rnd. Head Screw	2
3	951051	Kicker	1			—Sems	2
4	950069	Gate Lever Spring	1	17	405552-1	Coverplate Assembly	1
5	405551-2	Mainplate Assembly	1	18	950440	Bounce Tester	1
6	951055	Gate Pivot Pin	1	19	110-8-6	8-32x3/8 Rnd. Hd. Screw	2
7	900448	"C" Washer	2	20	950005	Return Coverplate	1
8	951071	5c Rail	1	21	951066-1	Coverplate	1
9	405558	5c Gate Assembly	1	22	900818	Mounting Studs	4
11	403024	5c Cradle Assembly	1			(Mounting studs are not in basic 510-0 unit)	
12	901153	Upper Gate Pivot Spring	1	23	901154	Lower Gate Pivot Spring	1
13	405586	5c Magnet Gate Assembly	1				
14	951061	Thickness Screw	1				

# Q-530



**NOTE: When ordering parts be sure to specify the part number, description, quantity, and model number of unit.**

INDEX NO.	PART NO.	DESCRIPTION	QUANTITY	INDEX NO.	PART NO.	DESCRIPTION	QUANTITY
1	900926	Kicker Screw	2	14	405560	Undersize Lever Assembly	1
2	950030	#6 5/16x1/32 Brass Washer	2	15	405587	25c Magnet Gate Assembly	1
3	951051	Kicker	1	16	951061	Thickness Screw	1
4	405007-1	Separator Assembly	1	17	150-6-2	#6-32x1/8 Rnd. Hd. Sems Screw	2
5	950069	Gate Lever Spring	1	18	405552-2	Coverplate Assembly	1
6	951055	Gate Pivot Pin	1	19	950005	Return Coverplate	1
7	405551-2	Mainplate Assembly	1	20	951066-2	Coverplate	1
8	900448	"C" Washer	3	21	900818	Mounting Studs	4
9	951073	Rail	1			(Mounting studs are not in basic 530-0 unit)	
10	405557	25c Gate Assembly	1	22	901154	Lower Gate Pivot Spring	1
12	405556	25c Cradle Assembly	1				
13	901153	Upper Gate Pivot Spring	1				