

*Your
Jennings
"Chief" Machine*



PARTS CATALOG
and
**SERVICE
MANUAL**

IMPORTANT

Your precision-built CHIEF and other Jennings models employing the famous Chief Mechanism will give you long and trouble-free service. At the same time, a little attention and care on your part will assure maximum operating efficiency and longer life.

This Service Manual will enable you to fully understand the working parts of Chief-type machines so that you can make minor adjustments and repairs when necessary. It will also help you in ordering replacement parts.

PLEASE READ CAREFULLY

What is back of Your New Jennings Machine?

- Established in 1906, O. D. Jennings & Co. is a solid, old line company that has a substantial financial background with one of the highest Dun & Bradstreet ratings.
- Over 60 Jennings Dealers and Distributors located throughout the country are equipped to serve you.
- Jennings Engineering Dept. has patented many features on the Chief Mechanism and is continually designing machines to give you greater play-appeal and finer performance.
- Each machine is carefully tested and inspected before it leaves the plant. Service it according to these instructions.

O. D. JENNINGS and COMPANY
4307-39 WEST LAKE STREET • CHICAGO 24, ILLINOIS

MAnsfield 6-2612

A PERSONAL MESSAGE FROM

O. D. JENNINGS

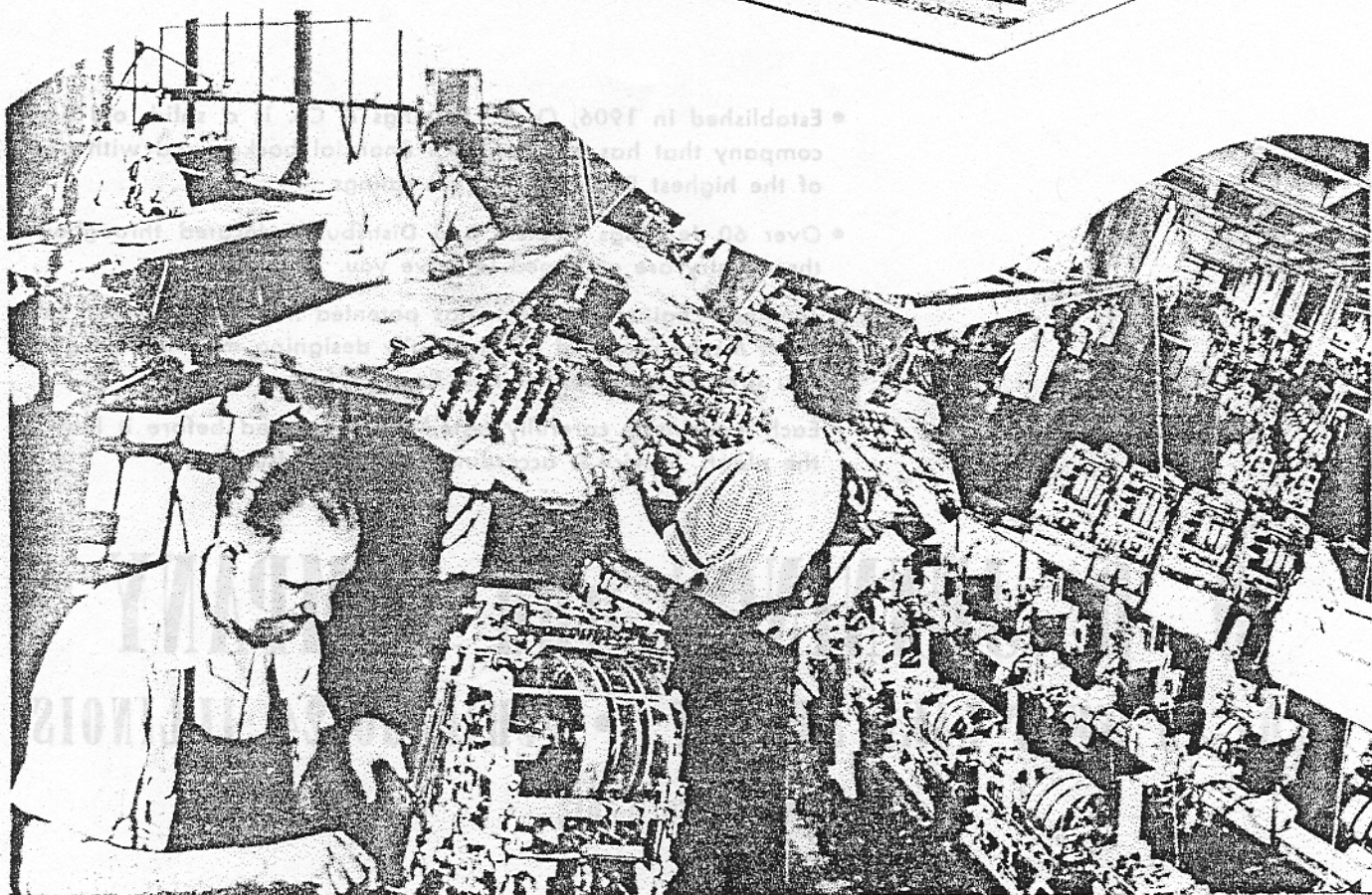
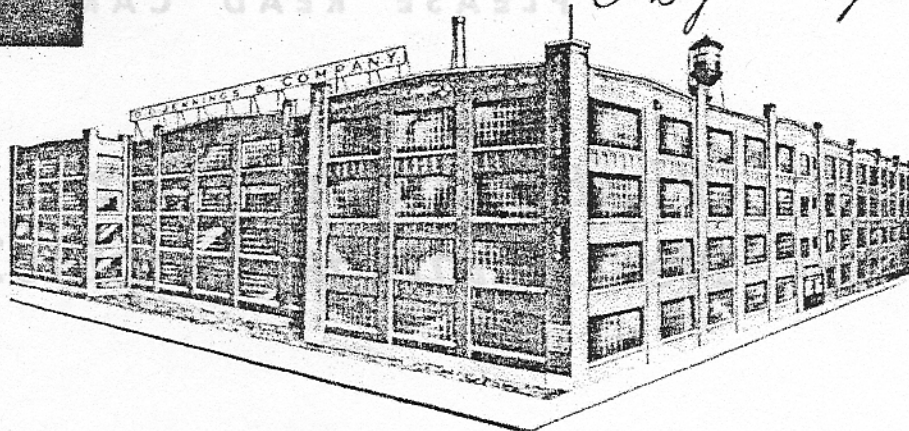


You now own one of the finest "precision built" coin machines on the market today. Your new "Chief" mechanism is built of the highest quality materials, carefully assembled and tested to give you lasting service and satisfaction.

You are always welcome to visit our plant and see for yourself how our "Chief" machines are being built.

Sincerely

O. D. Jennings



GENERAL INSTRUCTIONS

HOW TO ORDER PARTS

NOTE: All part numbers on photographs and in lists in this book are for 5¢ "Chief" Machines unless indicated as otherwise.

AT ALL TIMES WHEN ORDERING PARTS SPECIFY DENOMINATION OF MACHINE 5¢ 10¢ 25¢ 50¢ \$1.00

All Part numbers in this book are grouped according to assemblies. . . such as Escalator Assembly, Reel Assembly, Jackpot Assembly, etc. Since many parts are related to several assemblies, it may be necessary to check several related assemblies to find the part number.

If you cannot identify the part you want from photographs or part lists, send us a pencil-tracing of the part and describe where it is used; or send us the part you wish to replace.

ATTENTION! Your Jennings Machine when shipped from our factory is completely greased and oiled. However, it is very important that you continue to oil and grease the working parts of this mechanism. This should be done at least once every 30 days. **ALL OF THE MOST IMPORTANT POINTS TO BE OILED AND GREASED ARE INDICATED IN THE PICTURES ON THE FOLLOWING PAGES . . . LOOK FOR THEM!**

INSPECT YOUR SHIPMENT

When the "CHIEF" arrives, first inspect the crate to see that no damage has been done to your machine.

If you find a crate has been damaged to such an extent that the machine may be harmed you should request a "Bad Order" receipt from the driver or agent in order that you may file claim for any damage. Claim must be filed by YOU as our responsibility for the handling of the shipment ceases when the shipment is placed in the hands of the transportation company.

HOW TO REMOVE MACHINE FROM PACKING CASE

Cut the sealing wire and remove front cover. Then, with one hand grasp the top and with the other hand grasp the bottom of the machine just above the payout cup. It will now slide out of the packing case without any trouble.

"CHIEF" SPECIFICATIONS

Dimensions of Base 15 1/2" x 15 1/2"
Dimensions of Cabinet 13" x 14 1/2" x 27"
Mechanism Weight 43 pounds
Cabinet Assembly 50 pounds
Check or Cash Load Weight 4 pounds
"CHIEF" Boxed Weight 125 pounds

Specifications of Mint Venders furnished upon request.

CAPACITY OF COIN TUBE, JACKPOT AND RESERVE

5¢	"CHIEF"	Coin Tube holds approximately . .	\$ 6.50
5¢	"CHIEF"	Jackpot holds approximately	7.50
5¢	"CHIEF"	Reserve holds approximately	4.50
10¢	"CHIEF"	Coin Tube holds approximately	21.00
10¢	"CHIEF"	Jackpot holds approximately	17.50
10¢	"CHIEF"	Reserve holds approximately	17.50
25¢	"CHIEF"	Coin Tube holds approximately	37.50
25¢	"CHIEF"	Jackpot holds approximately	35.00
25¢	"CHIEF"	Reserve holds approximately	17.50
50¢	"CHIEF"	Coin Tube holds approximately	54.00
50¢	"CHIEF"	Jackpot holds approximately	37.00
50¢	"CHIEF"	Reserve holds approximately	10.00
\$1.00	"CHIEF"	Coin Tube holds approximately	94.00
1.00	"CHIEF"	Jackpot holds approximately	55.00
1.00	"CHIEF"	Has no Reserve	

PART LIST ABBREVIATIONS

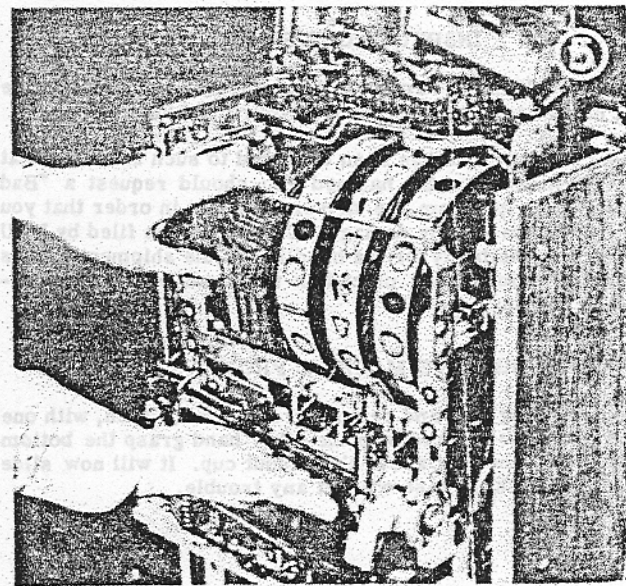
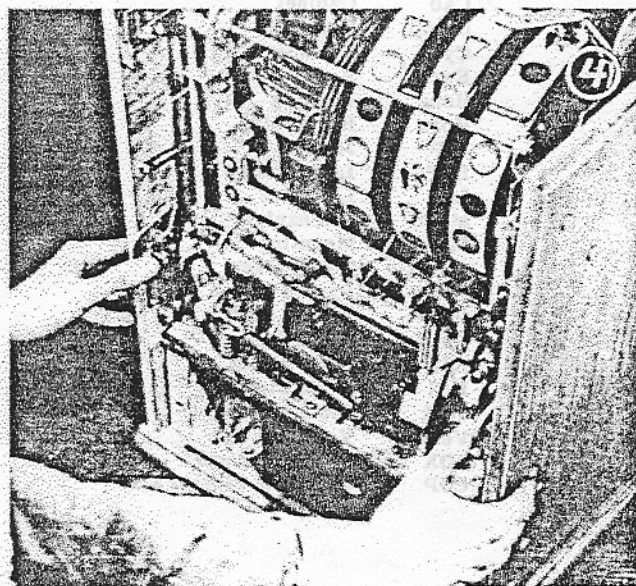
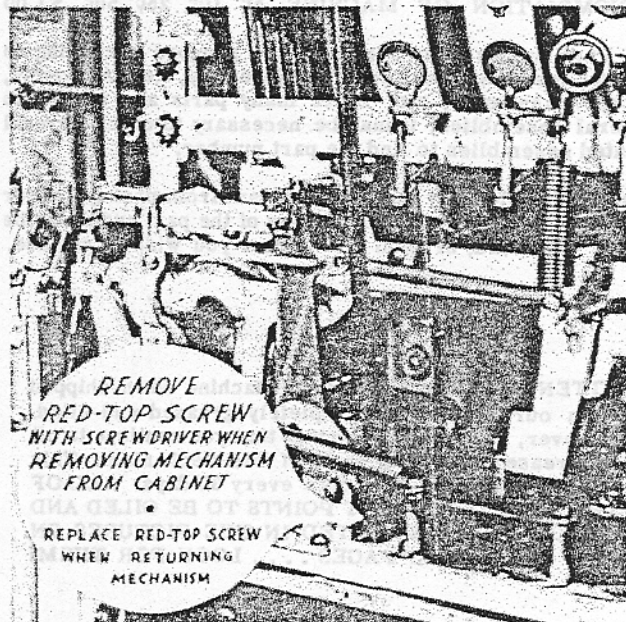
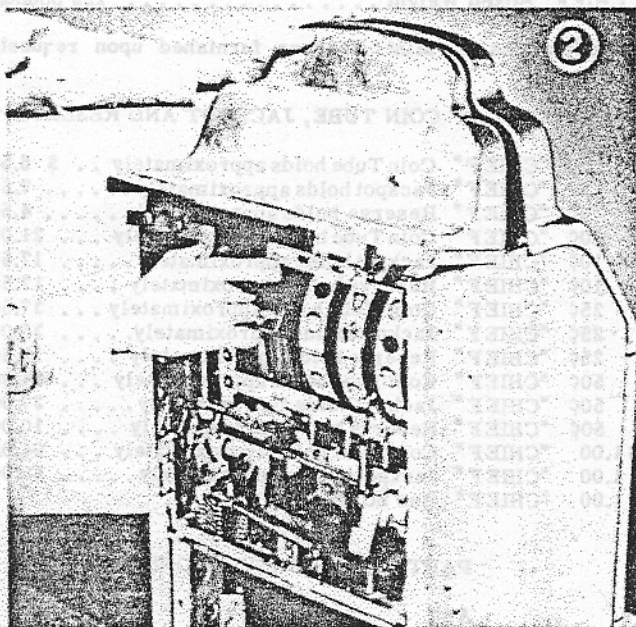
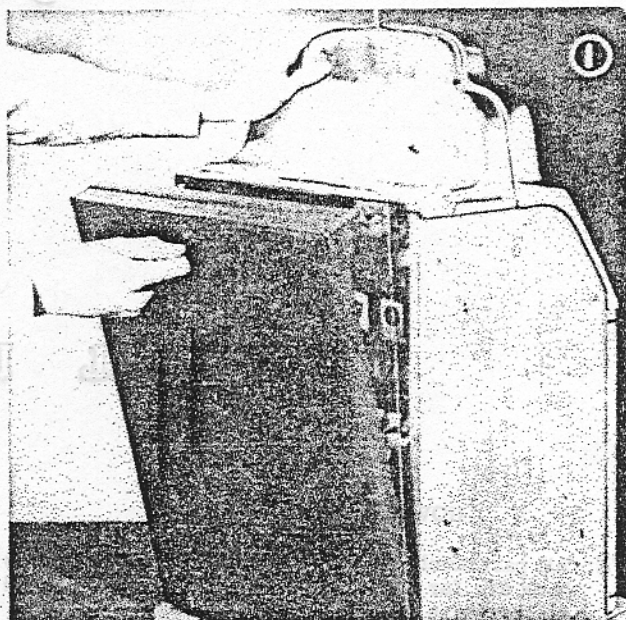
Adj.	Adjusting
Assy	Assembly
Brkt	Bracket
Cab	Cabinet
Comp	Complete
Cyl	Cylinder
Esc	Escalator
Hsng	Housing
Horz	Horizontal
J/P	Jackpot
L/F	Left Front
L/S	Left Side
Mech	Mechanism
Mtng	Mounting
O & E	Odd & Even
P/L	Payout Lever
P/S	Payout Slide
Retng	Retaining
R/F	Right Front
R/S	Right Side
Shld	Shoulder
Vert	Vertical
SDX	Super De Luxe
CSP	Complete Stock Part

REMOVING MECHANISM FROM CABINET

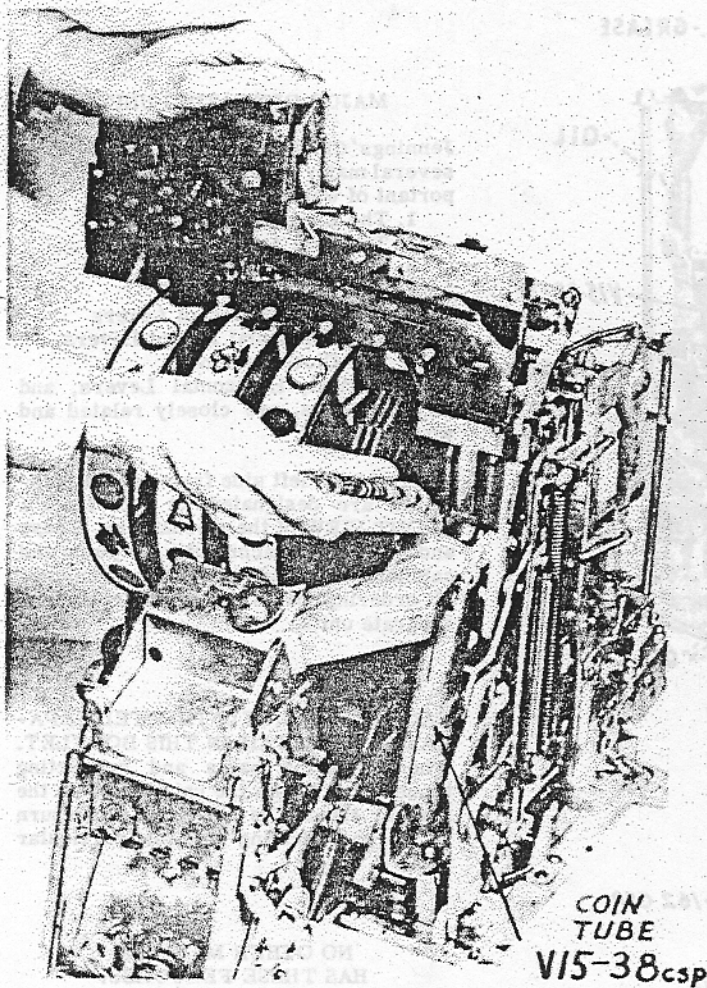
HOW TO REMOVE MECHANISM FROM CABINET

Remove back door as in figure 1. Be sure key is ALL THE WAY IN LOCK to insure lock opening easily. Remove rear top casting in back by pressing together the two clamps which hold this casting in position (figure 2). Casting will then lift off. At the bottom of the mechanism and to the left of the clock is a red-topped screw. Remove this screw as in figure 3, and press down on the clamps on each side of the cabinet as in figure 4. Slide out the mechanism easily as in figure 5.

When replacing mechanism in cabinet be sure it slides in easily. Be sure mechanism base fits properly into the grooves of the aluminum cabinet base. DO NOT FORCE IT IN!



LOADING the Mechanism



LOADING THE COIN TUBE

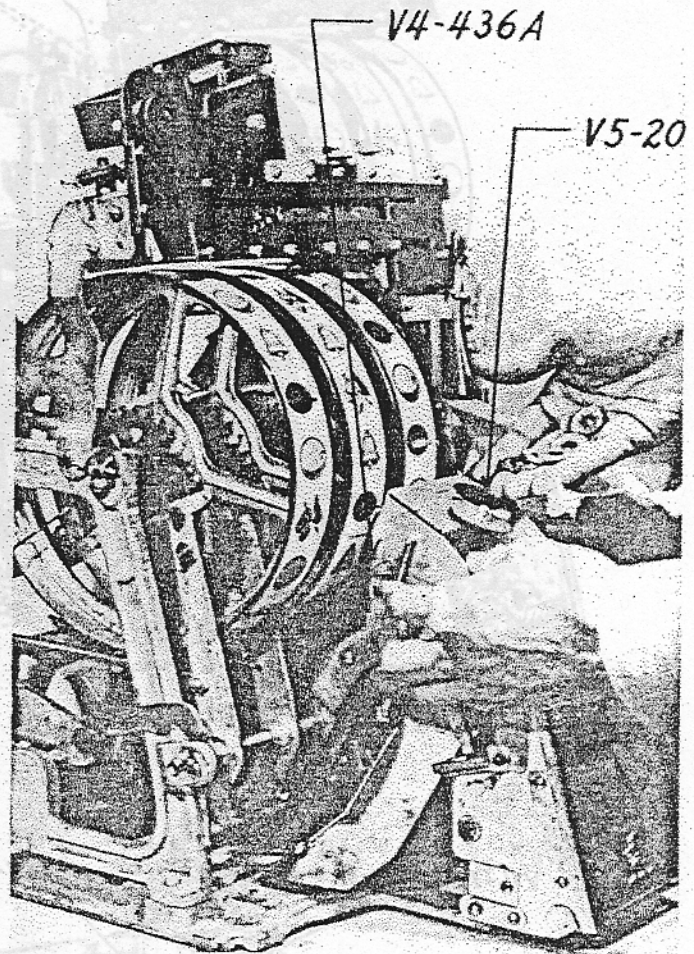
HOW TO LOAD THE COIN TUBE

The coin tube can be loaded with mechanism removed from the cabinet as illustrated above, or without removing the mechanism from the cabinet as follows: First, remove large back door on cabinet. Pull out loading lever V4-1534CSP located near base of mechanism at rear. This lever is stamped "Pull to Load". (See page 6 rear right view).

Now, play coins into the machine in the regular manner, pulling the handle each time you deposit a coin. You will notice that the reels do not spin, as they have become disengaged. After the coin tube is full then the coins start overflowing into the Jackpot. Continue until Jackpot is filled, then push loading lever V4-1534CSP into position.

Should you forget to push the loading lever back, the back door, when locked in place, will automatically push the loading lever in proper position. You cannot accidentally leave the reels disengaged as long as the back door is in place.

NOTE: Be sure all coins lay flat in the coin tube when loading. Any coins standing on end will cause payout slides to jam.



LOADING THE JACKPOT

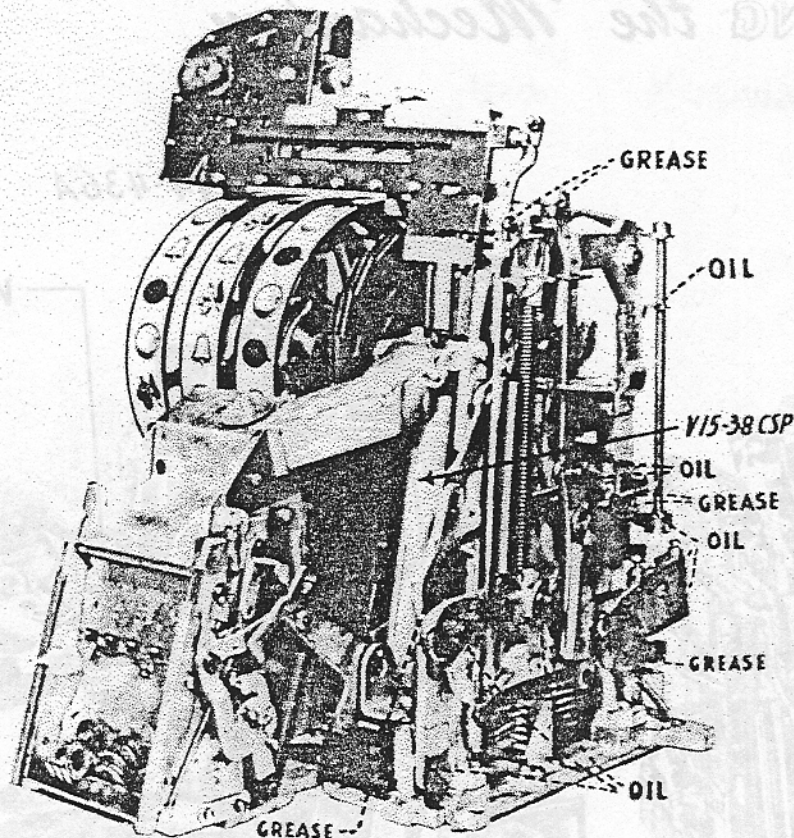
HOW TO LOAD THE JACKPOT

Both the Jackpot and Coin Tube must be loaded by hand when setting up your new "Chief". After once being loaded by hand, the Jackpot and reserve are automatically loaded from the overflow of the coin tube. When the Jackpot and reserve are full, then all coins overflow into the cash box.

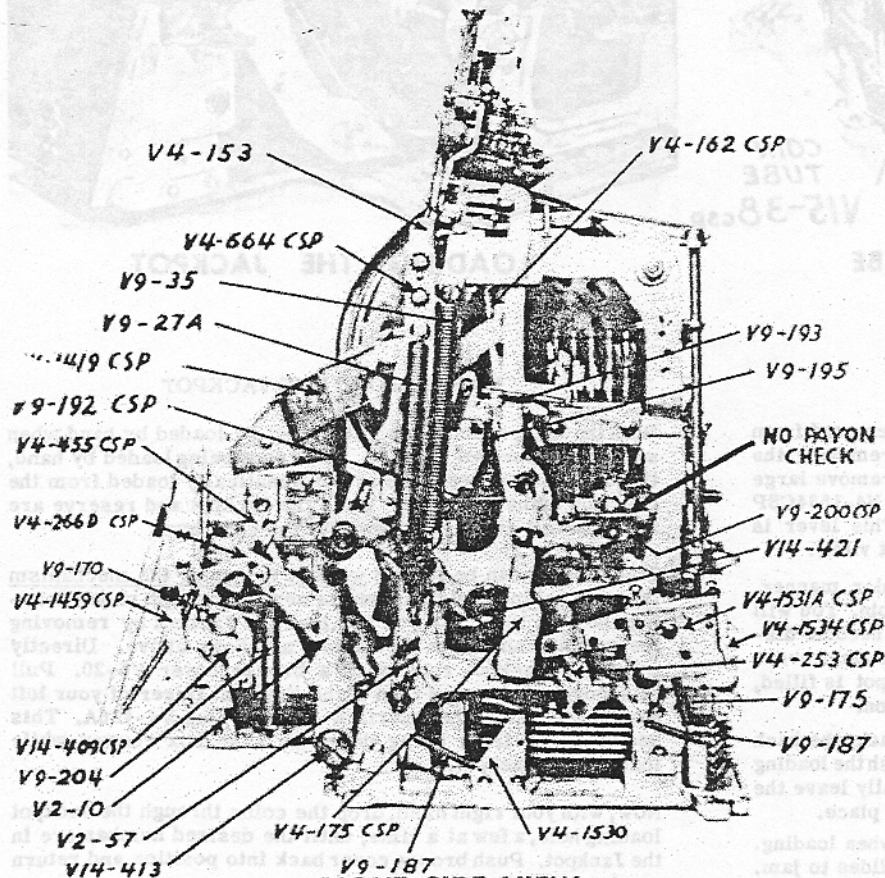
The Jackpot can be loaded without removing the mechanism from the cabinet as explained in next paragraph under loading the coin tube. Or you can load the Jackpot by removing the mechanism from the cabinet as shown above. Directly over the Jackpot runway is a bronze cover V5-20. Pull this cover aside and then place the first finger of your left hand underneath the overflow housing flap V4-436A. This keeps coins from going down the cash box runway while loading the Jackpot.

Now, with your right hand, drop the coins through the Jackpot loading hole, a few at a time, until the desired number are in the Jackpot. Push bronze cover back into position and return mechanism to cabinet.

**FAMILIARIZE YOURSELF
WITH THE SEPARATE UNITS**



FRONT RIGHT VIEW



RIGHT SIDE VIEW

MAJOR OPERATING UNITS

Jennings' Chief mechanism is made up of several major assemblies, the most important of which are the following:

1. The Escalator Assembly
2. The Reel Assembly
3. The Jackpot Assembly
- *4. The Payout Slides
- *5. The Vertical payout Levers
- *6. The Horizontal Payout Levers
7. The Clock Assembly

*The Vertical, Horizontal Levers, and Payout Slides, are closely related and work as a unit.

The right and left side frame and attachments are designated as such from a FRONT VIEW of the mechanism. These and the base attachments, the pump and cabinet attachments for the convenience of ordering parts are also treated as separate units.

EACH MAJOR UNIT IS TREATED SEPARATELY IN DETAIL IN THIS BOOKLET. When ordering parts and correcting trouble first locate the units to which the part or trouble is connected, then turn to the page dealing with that particular unit.

**NO OTHER MACHINE
HAS THESE FEATURES:**

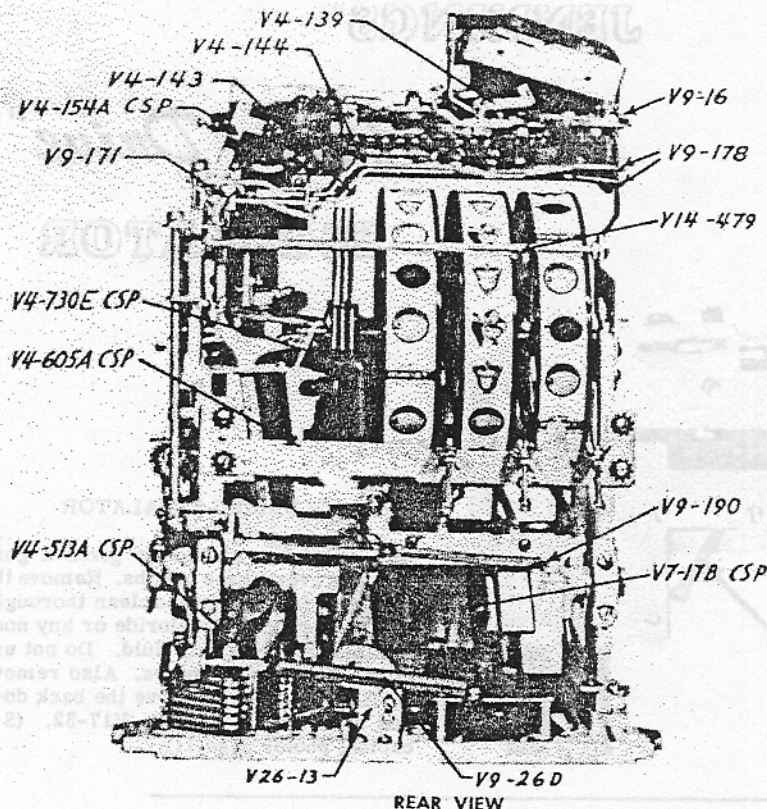
Jennings' famous Chief mechanism is the most trouble-free, compact and sturdy mechanism ever built. The Escalator and Jackpot are attached to the mechanism, which simplifies the servicing of machine.

This mechanism, when removed from the cabinet, operates EXACTLY as it does when enclosed in the cabinet. Adjustments are easy to make because all of the working parts are attached to the mechanism.

All units are quickly detachable when damage necessitates replacement.

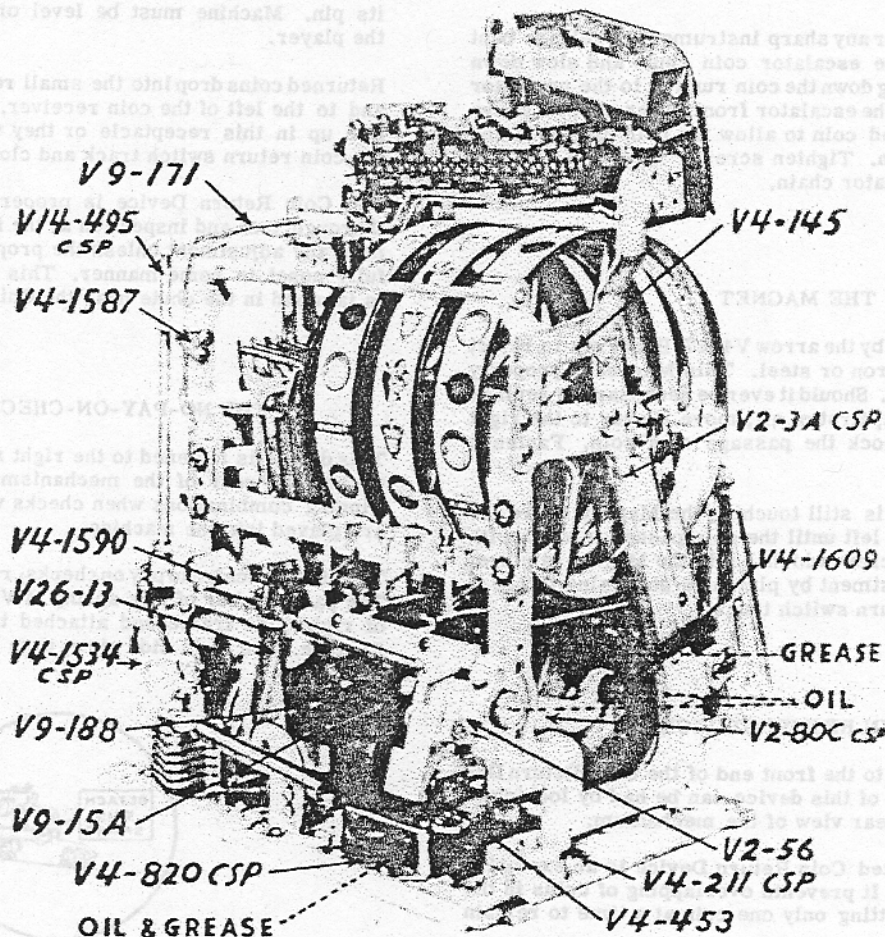
Jennings' world-famous "chain-drive" escalator rolls the coins and eliminates the "jamming" so common in ordinary escalators.

The large ADJUSTABLE Jackpot holds more coins than any other make. Equipped with safety glass front, Jennings' Jackpot is easy to load and may be removed in a jiffy.



DON'T

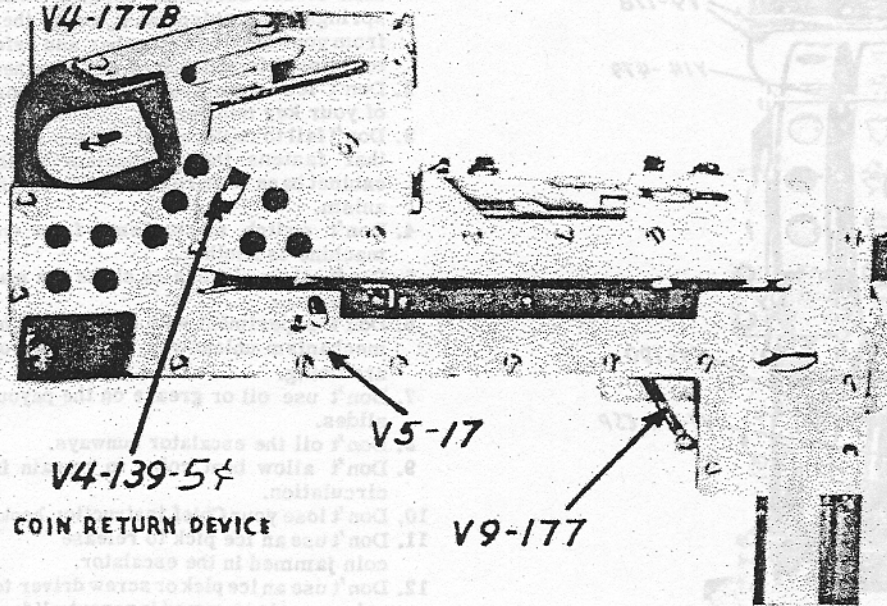
1. Don't shorten springs; change the tension or use substitute springs. When springs need replacement, order them from your catalog by number and refer to the part to which they are attached.
2. Don't lose your keys. Keep a record of your key numbers.
3. Don't fail to replace the red-top screw that fastens the mechanism to the cabinet base when removing the mechanism.
4. Don't switch mechanisms from one machine to another.
5. Don't allow players to shake the machine.
6. Don't experiment with any part of the mechanism unless you know what you are doing.
7. Don't use oil or grease on the payout slides.
8. Don't oil the escalator runways.
9. Don't allow bent coins to remain in circulation.
10. Don't lose your Chief instructor book.
11. Don't use an ice pick to release coin jammed in the escalator.
12. Don't use an ice pick or screw driver to release coins jammed in payout slides.



JENNINGS'

"Chain Drive"

ESCALATOR



CLEANING ESCALATOR

The escalator should be given a good cleaning every three months. Remove the escalator front cover and clean thoroughly with carbon tetrachloride or any non inflammable cleaning fluid. Do not use oil on escalator runways. Also remove the REAR top casting above the back door and clean the coin chute V17-32. (See cabinet photos page 11).

RELEASING BENT COINS

The use of an ice pick or any sharp instrument to release bent coins will scratch the escalator coin chute and slow down or stop coins travelling down the coin runway to the escalator roller chain. Loosen the escalator front cover screws above and below the jammed coin to allow the coin to drop to the escalator roller chain. Tighten screws. The coin will now travel along the escalator chain.

THE MAGNET

The Magnet, indicated by the arrow V4-177B, serves to reject all slugs that contain iron or steel. This Magnet is properly adjusted at the factory. Should it ever be necessary to replace or readjust the Magnet, first of all, move it over to the right just far enough to block the passage of a coin. Fasten it loosely in place.

Now, while the coin is still touching the Magnet, move the Magnet slowly to the left until the coin passes through with ease. Tighten the screw which holds the Magnet in place, and check your adjustment by playing a steel slug to see if it is drawn to the return switch track.

COIN RETURN DEVICE

Arrow V4-139 points to the front end of the Coin Return Device. A better view of this device can be had by looking at Page 6 showing the rear view of the mechanism.

The Jennings' patented Coin Return Device is an exclusive feature of the CHIEF. It prevents overlapping of coins in the coin chute by permitting only one coin at a time to remain in playing position.

This device operates on gravity and should swing freely on its pin. Machine must be level or all coins will return the player.

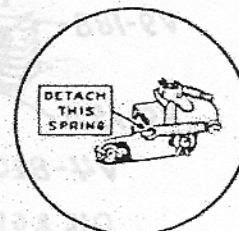
Returned coins drop into the small receptacle directly below and to the left of the coin receiver. Do not permit coins to pile up in this receptacle or they will eventually back into the coin return switch track and clog it.

The Coin Return Device is properly adjusted and given a thorough test and inspection at the factory. It should never need any adjustment unless the proper adjustment is forcefully upset in some manner. This may happen when a coin is jammed in the chute near the Coin Return Device.

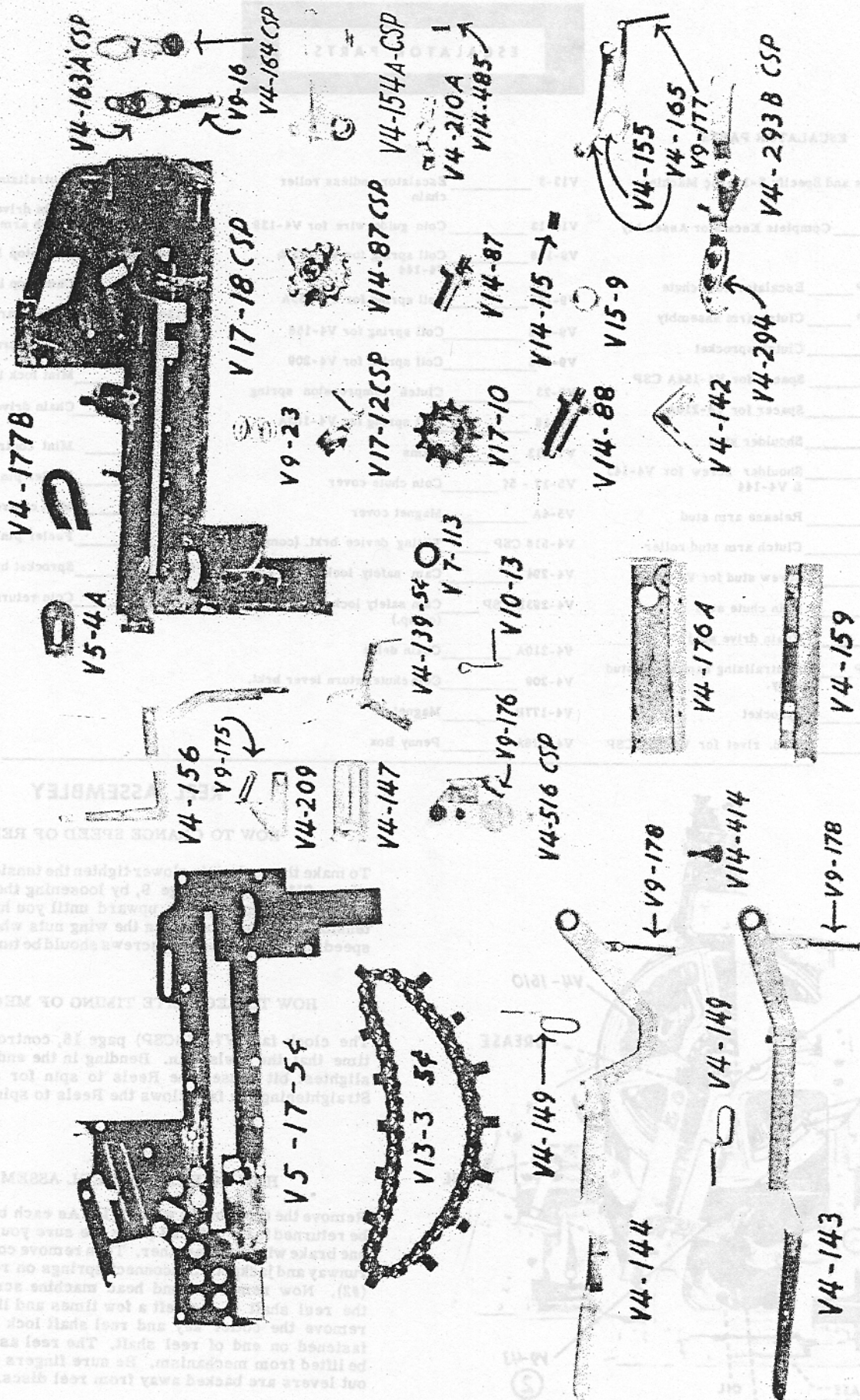
THE NO-PAY-ON-CHECK FEATURE

This device is fastened to the right main mechanism frame, toward the rear of the mechanism. It prevents paying on winning combinations when checks with a hole in the center are played into the machine.

To set the machine to pay on checks, remove spring as shown. The part number of this spring is V9-200, located in center of right side frame and attached to the No-Pay-on-Check Feature. See right side view, page 5.



ESCALATOR PARTS



ESCALATOR PARTS

ESCALATOR PARTS

Be Sure and Specify 5-10-25¢ Machine

V26-2 Complete Escalator Assembly

V17-18 CSP Escalator coin chute

V17-12 CSP Clutch arm assembly

V17-10 Clutch sprocket

V15-9 Spacer for V4-154A CSP

V14-485 Spacer for V4-210A

V14-472 Shoulder stud

V14-414 Shoulder screw for V4-143 & V4-144

V14-129 Release arm stud

V14-115 Clutch arm stud roller

V14-99 Screw stud for V4-156

V14-89 Coin chute stud

V14-88 Chain drive stud

V14-87 CSP Neutralizing cam stud & stud assy.

V14-79 Sprocket

V14-67a Shld. rivet for V4-164 CSP

V13-3 Escalator endless roller chain

V10-13 Coin guide wire for V4-139

V9-178 Coil spring for V4-143 & V4-144

V9-177 Coil spring for V4-155A

V9-176 Coil spring for V4-156

V9-175 Coil spring for V4-209

V9-23 Clutch compression spring

V9-16 Coil spring for V4-163A

V7-113 Shims

V5-17 - 5¢ Coin chute cover

V5-4A Magnet cover

V4-516 CSP Tilting device brkt. (comp.)

V4-294 Cam safety lock lever ext.

V4-293B CSP Cam safety lock lever (comp.)

V4-210A Chain drive

V4-209 Coin chute return lever brkt.

V4-177B Magnet

V4-176A Penny Box

V4-172A CSP Neutralizing cam (comp.)

V4-165 Chain drive arm link for clutch arm

V4-164 CSP Cam stop lever ext. (comp.)

V4-163A CSP Cam stop lever (comp.)

V4-159 Chain guard

V4-156 Coin returning lever

V4-155 Mint lock lever release

V4-154A CSP Chain drive lever (comp.)

V4-149 Mint control shaft lever pin

V4-147 Feeler pin guide bracket

V4-144 Mint control shaft lever

V4-143 Feeler pin lever

V4-142 CSP Sprocket brkt. assembly

V4-139 - 5¢ Coin return lever

REEL ASSEMBLY

HOW TO CHANGE SPEED OF REELS

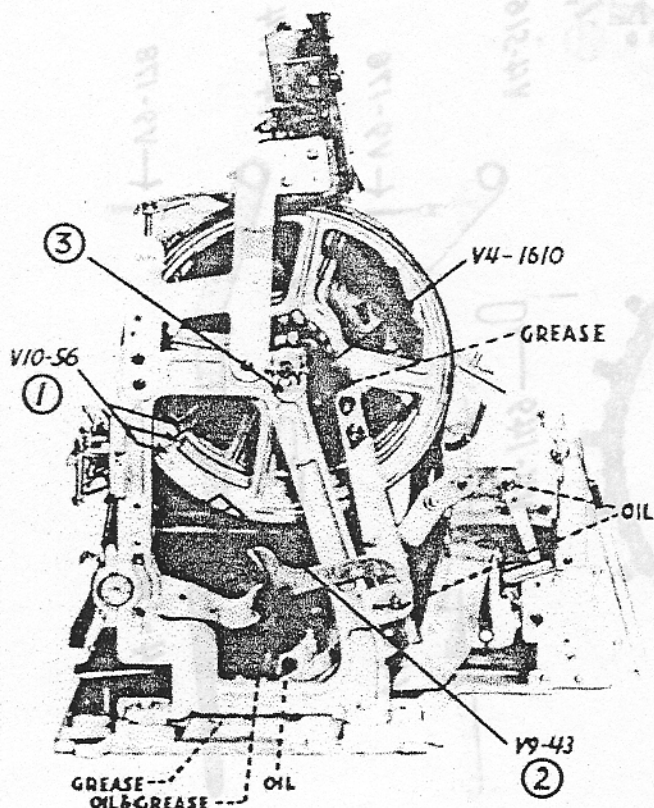
To make the reels spin slower tighten the tension on the brake wires (V10-56) see page 9, by loosening the wing nuts and turning the long screws upward until you have the desired tension. Be sure to tighten the wing nuts when through. To speed up the reels the long screws should be turned downward.

HOW TO REGULATE TIMING OF MECHANISM

The clock fan (V7-17BCSP) page 16, controls the length of time that the reels spin. Bending in the ends of the fan the slightest bit causes the Reels to spin for a shorter time. Straightening the fan allows the Reels to spin longer.

HOW TO REMOVE REEL ASSEMBLY

Remove the three brake wires (#1). As each brake wire must be returned to its original place, be sure you can distinguish one brake wire from another. Then remove coin tube overflow runway and jackpot. Disconnect springs on reel stop levers. (#2). Now remove round head machine screw, (#3). Turn the reel shaft to the left a few times and lift out. Do NOT remove the cotter key and reel shaft lock strap (V4-1610) fastened on end of reel shaft. The reel assembly can now be lifted from mechanism. Be sure fingers of vertical pay-out levers are backed away from reel discs.



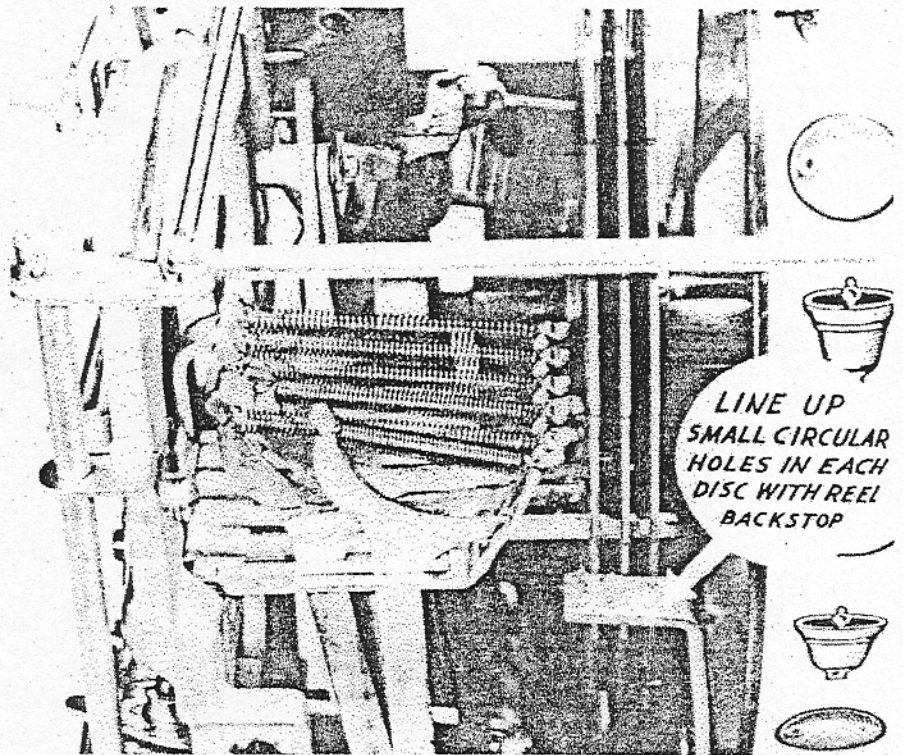
How to Remove Reel Strips

TO REMOVE REEL STRIPS

Line up the small circular holes in each disc just above the reel back stop as indicated in photo to right. Now turn the machine around and examine the reel strips where both ends meet. You will find the ends of all three reel strips are parallel with each other. Keep them in this position. Remove and replace one reel strip at a time and bring the ends of the reel strip together in line with the ends of the other two.

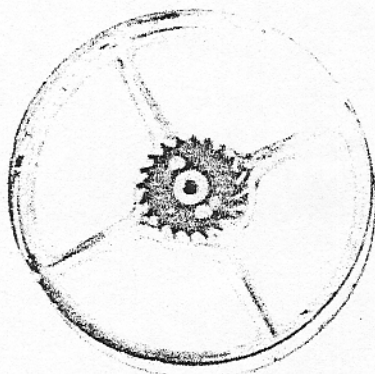
HOW TO ORDER REEL STRIPS

Each reel strip has a number located just above the spot where the ends of the reel strip come together on the reel. Locate this number first when ordering reel strips. If the number is obliterated, make a copy of the symbols on a strip of paper and mail with order.

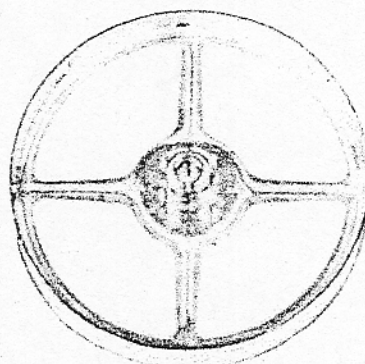


LINE UP
SMALL CIRCULAR
HOLES IN EACH
DISC WITH REEL
BACKSTOP

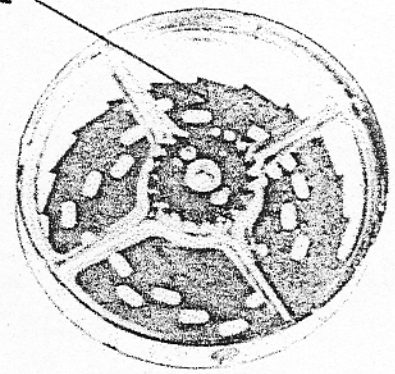
Reel Parts



V4-1541 'C' CSP



V4-1541 'B' CSP



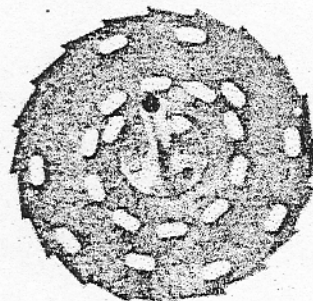
V4-1541 'A' CSP

V14-405

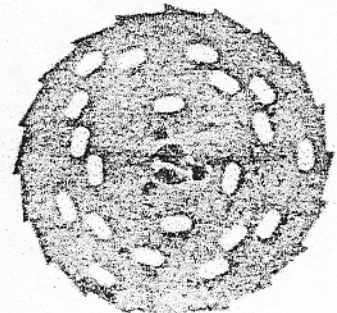
V10-56

V4-1610
V10-64

WHEN ORDERING DISCS
SPECIFY REEL COMBINATION

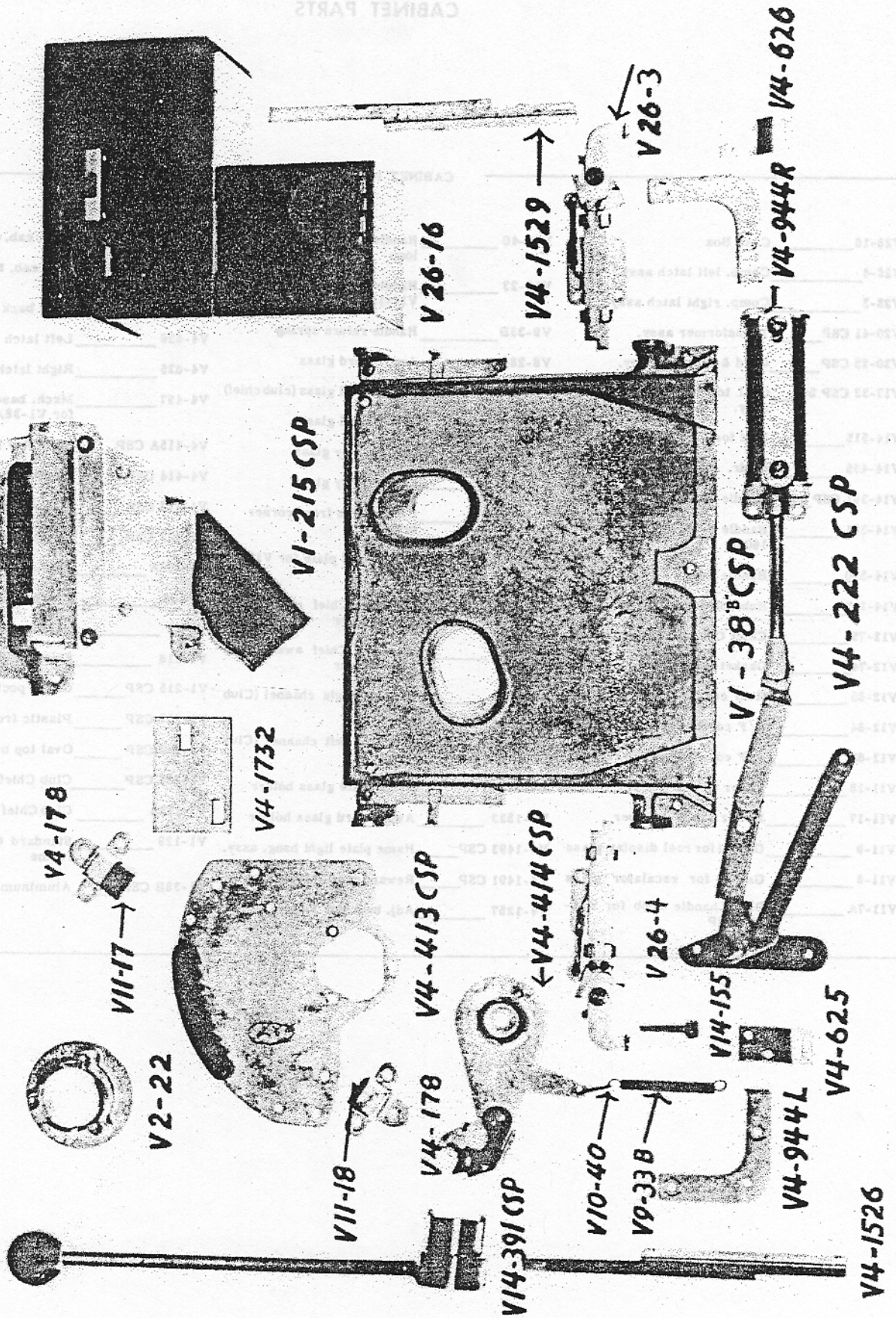


'B' DISC



'C' DISC

CABINET PARTS

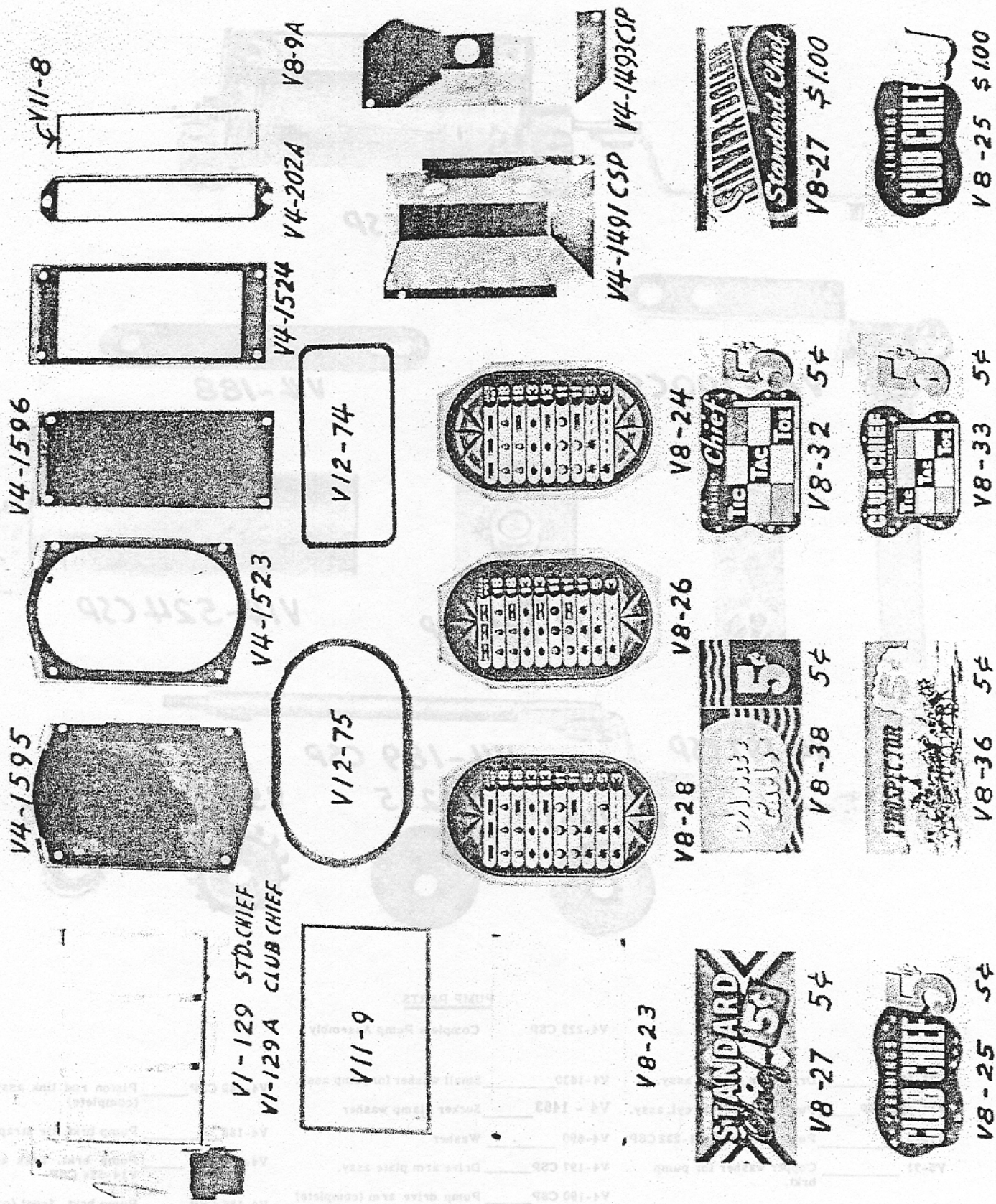


CABINET PARTS

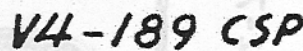
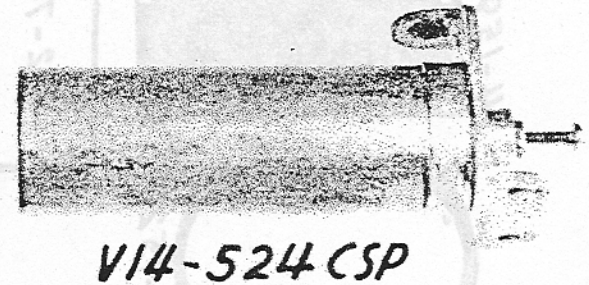
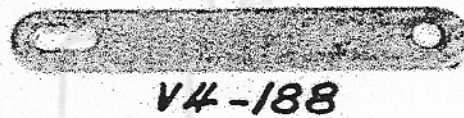
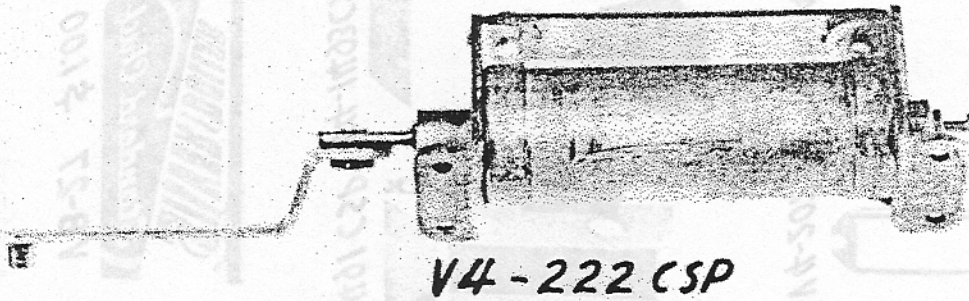
CABINET PARTS LIST

V26-16	Cash Box	V10-40	Handle return spring wire loop	V4-944R	Right cab. mtng. safety catch
V26-4	Comp. left latch assy.	V10-23	Handle hubbolt lock wire for V14-155	V4-944L	Left cab. mtng. safety catch
V26-3	Comp. right latch assy.	V9-33B	Handle return spring	V4-754 CSP	Steel back door
V20-41 CSP	Transformer assy.	V8-28	Award card glass	V4-626	Left latch catch
V20-25 CSP	Cord & plug set assy.	V8-26	Award card glass (clubchief)	V4-625	Right latch catch on cab.
V17-32 CSP 5¢	Oval top coin chute runway assy.	V8-24	Award card glass	V4-497	Mech. base hold down plate for V1-38A
V14-515	Stud for V4-414 CSP	V8-23	Reel display glass	V4-415A CSP	Fast play lock dog assy.
V14-435	Shldr. stud for V4-414 CSP	V8-9A	Coin display glass	V4-414 CSP	Handle operating cam assy.
V14-391 CSP	Handle shaft assy.	V4-1784	Cab. bottom front corner brace	V4-413 CSP	Inside handle plate assy.
V14-391	Handle shaft alt. for V14-160A	V4-1732	Drill proof plate for V12-46 CSP	V4-222 CSP	Pump Assembly
V14-390	Handle hub	V4-1596	Standard Chief name plate glass holder	V4-202A	Coin display glass frame
V14-155	Hub bolt for hub V14-390	V4-1595	Standard Chief award card glass holder	V4-178	Bumper housing
V12-75	Chief Console Cabinet	V4-1529	Cab. top right channel (Club Chief)	V2-22	Handle collar
V12-74	Gasket name plate glass	V4-1526	Cab. top left channel (Club Chief)	V1-216	Standard Chief front
V12-65	Rear corner post left & right	V4-1524	Name plate glass holder	V1-215 CSP	Check pocket assembly
V12-64	L/F corner post for V12-46	V4-1523	Award card glass holder	V1-207 CSP	Plastic front assembly
V12-63	R/F corner post for V12-46	V4-1493 CSP	Name plate light hsg. assy.	V1-206 CSP	Oval top back assy.
V11-18	Upper handle bumper	V4-1491 CSP	Reward card light hsg. assy.	V1-205 CSP	Club Chief oval top assy.
V11-17	Lower handle bumper	V4-1257	Adj. brkt. for V4-415A CSP	V1-129A	Club Chief reel display frame
V11-9	Gasket for reel display glass			V1-129	Standard Chief reel display frame
V11-8	Gasket for escalator glass			V1-38B CSP	Aluminum base assembly
V11-7A	Black handle knob for V14-391 CSP				

FRAMES and GLASS PANELS



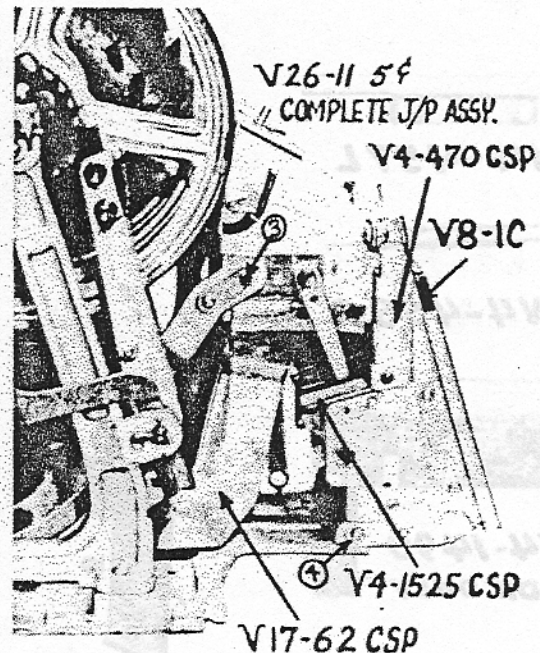
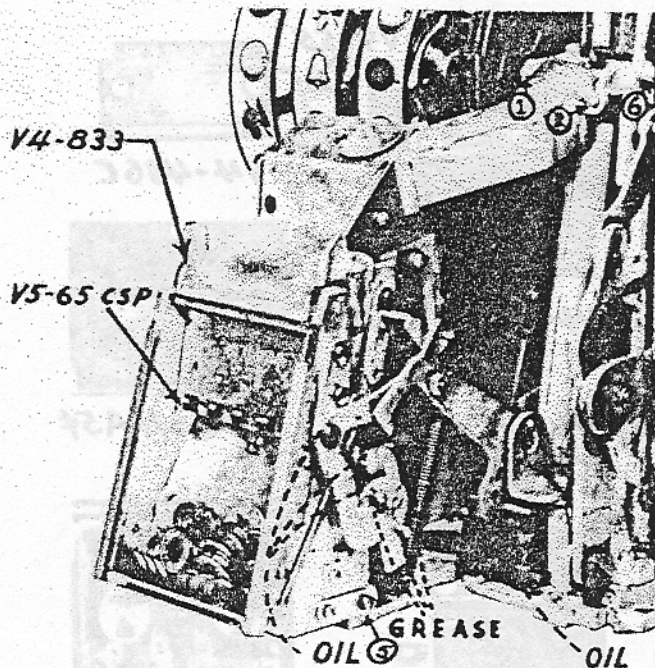
PUMP PARTS



PUMP PARTS

V26-15 _____ Drive arm & plate assy.	V4-222 CSP _____ Complete Pump Assembly	V4-189 CSP _____ Piston rod link assy. (complete)
V14-524 CSP _____ Pumpbrkt. (back)& cyl. assy.	V4-1630 _____ Small washer for pump assy.	V4-188 _____ Pump brkt. tie strap
V12-5 _____ Pump sucker for V4-222 CSP	V4 - 1463 _____ Sucker clamp washer	V4-187 CSP _____ Pump brkt. back assy. for V14-524 CSP
V5-71 _____ Copper washer for pump brkt.	V4-690 _____ Washer	V4-186 CSP _____ Pump brkt. front (complete)
V5-6 _____ Sucker compression spring	V4-197 CSP _____ Drive arm plate assy.	
	V4-190 CSP _____ Pump drive arm (complete)	

JACKPOT ASSEMBLY



THE JACKPOT ASSEMBLY

For the convenience of adjustments and inspection, the Jackpot is attached directly to the mechanism. The Jackpot is fully automatic and self-loading. An ample reserve Jackpot instantly reloads the main Jackpot when the Jackpot dumps.

For directions on how to Load the Jackpot when setting up your machine, see page 4.

HOW TO REMOVE JACKPOT

Remove the two machine screws on the coin overflow runway, designated by Numbers 1 and 2. Then remove the three machine screws designated by Numbers 3, 4, 5, and lift the Jackpot out.

HOW TO REMOVE THE COIN TUBE

Remove the round head machine screw designated by number 6, and lift off the coin tube.

JACKPOT PARTS

Be Sure and Specify 5-10-25¢ Machine	V7-89 J/P overflow opening cover	V4-540 Jackpot overflow runway
V26-11 Complete Jackpot Assembly	V5-65 CSP Reserve lever assy.	V4-458 J/P glass runway guide (right)
V17-67 CSP J/P Housing door assy.	V5-20 CSP J/P Loading cover assy.	V4-457 J/P glass runway guide (left)
V17-62 J/P Overflow runway	V5-11A Jackpot retliner	V4-456B CSP Cam guard & Hsng. Assy.
V17-7 Reserve levers guide bracket	V4-1628 CSP J/P Cam guard & arm catch assy.	V4-455 CSP Reserve lever retng. arm (comp.)
V14-460 Shoulder Screw	V4-1525 CSP Reserve levers & guide brkt. assy.	V4-438 CSP Coin overflow hsng. cover assy.
V14-443A Jackpot door shaft	V4-1525 Reserve levers shelf guide	V4-436C Coin overflow hsng. flap
V14-409 CSP J/P Closing crank shaft assy.	V4-1490 J/P Guard	V4-435B CSP Coin overflow hsng. (comp.)
V10-19A Coin overflow flap hinge pin	V4-1459 CSP J/P Closing lever assy.	
V8-203 Spring for V4-1592	V4-1419 CSP Tube to J/P runway assy.	
V9-183 Spring	V4-943 Cleat to lock J/P in position	
V9-173 5 Finger springs	V4-838B Side J/P opening filler plate	
V9-170 Spring	V4-833 J/P glass hold down brkt.	
V9-55 Coil spring for V4-436C	V4-801 CSP J/P Hsng. & overflow assy.	
V8-1C Jackpot front glass	V4-694 Jackpot support bracket	

JACKPOT OPENING & CLOSING ARRANGEMENT

V4-464A CSP J/P opening lever lock relief arm brkt. assy.
V4-266D CSP J/P opening lever assembly

JACKPOT PARTS

V4-457L

V4-458 R

V4-1490
SDX ONLY

V8-1C

V4-435'B' CSP

V4-436C

V5-11A5†

V4-801 CSP

V17-67 CSP

V4-1419 CSP

V9-183

V4-833

V17-7

V4-1628 CSP

V4-838 B

V7-69

V4-1525

V10-19A

V5-65 CSP

V14-409 CSP

V4-455 CSP

V17-62

V4-549

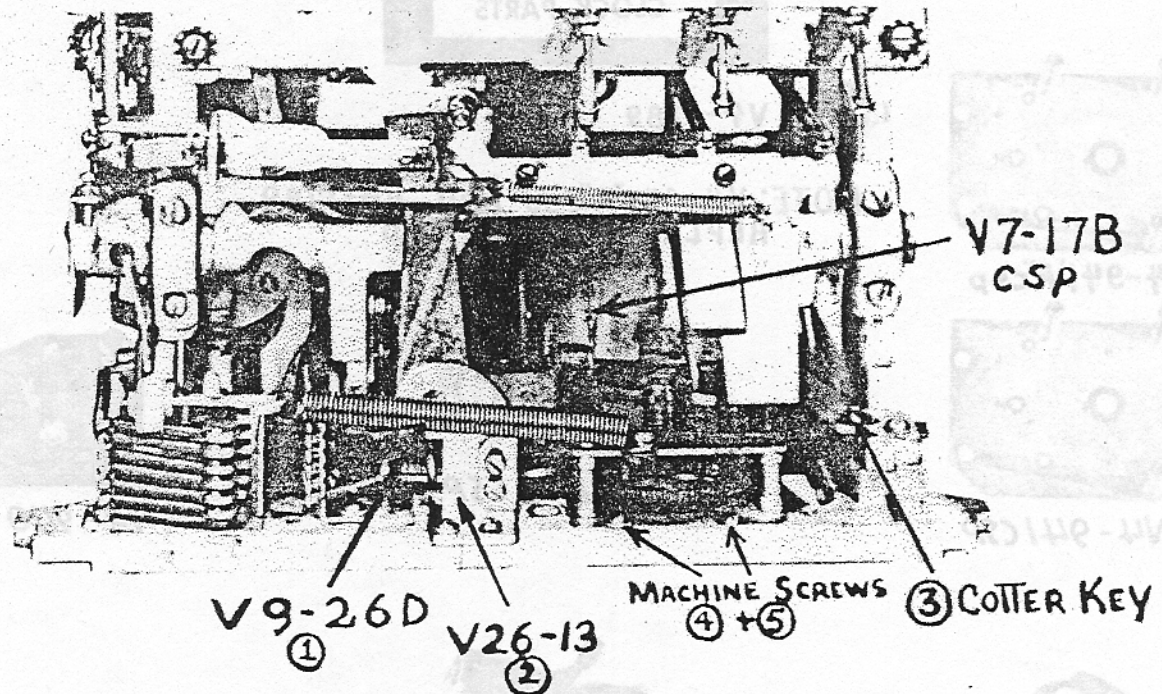
V9-170

V4-943

V4-1459 CSP

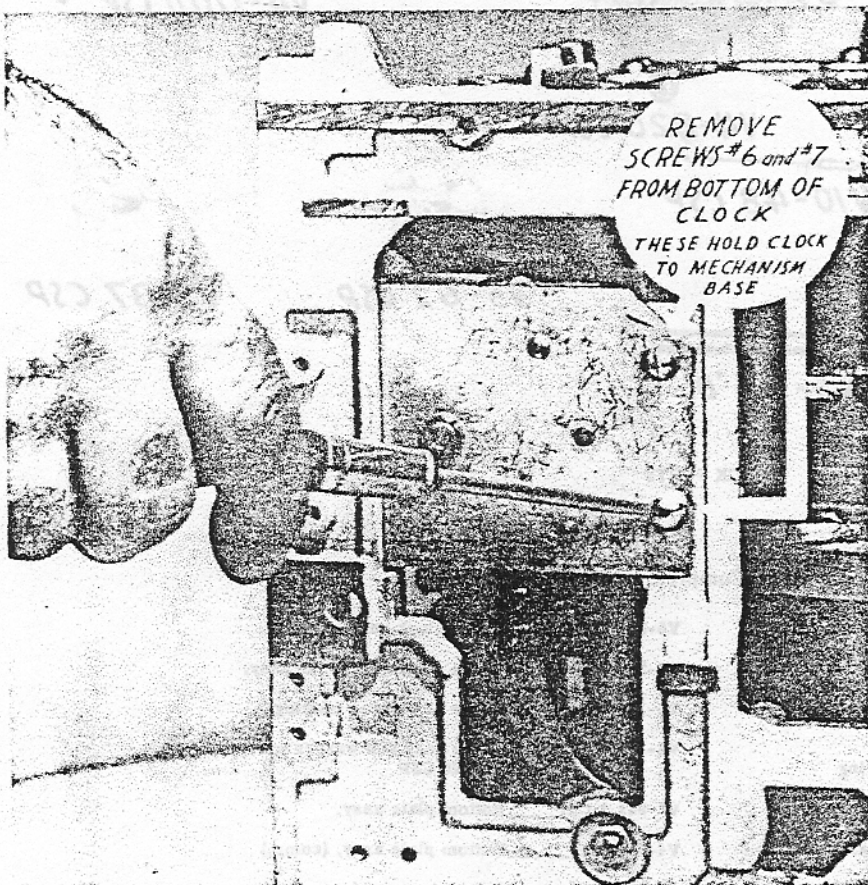
V14-460

CLOCK ASSEMBLY



THE CLOCK ASSEMBLY

REMOVING THE CLOCK



The clock or governor may well be considered the heart of the Chief mechanism. All action is timed and controlled by the clock. It is of the utmost importance that this unit be in perfect working order at all times.

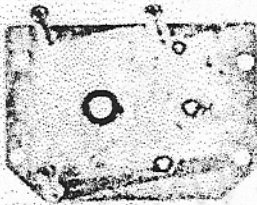
The fan shaft (V10-48CSP) and clock gears should be oiled frequently. Use a good grade of thin oil and apply a little oil to the teeth of the clock gears also. Use vaseline on the rollers coming in contact with the clock. When the clock becomes dirty it should be removed and thoroughly cleaned by soaking in a pan of carbon tetrachloride or any non-inflammable cleaning fluid. Wipe and oil before replacing.

TO REMOVE CLOCK

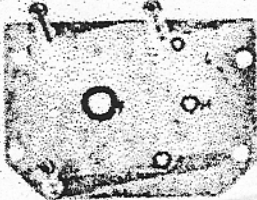
1. Detach main clock spring (Number 1) above.
2. Remove payout lever cam arm bracket assembly (Number 2) above.
3. Remove cotter key from clock arm (Number 3) above.
4. Remove the two large round head machine screws (Number 4 & 5) at rear of clock base. Now tip the machine forward and remove the two screws (Numbers 6 & 7) from the bottom that fasten the clock to mechanism base. Clock can now be lifted out.

Do not shorten the main clock spring (V9-26D) as the increased tension may strip clock gears or cause other damage to the clock.

CLOCK PARTS



V4-941A CSP



V4-941 CSP

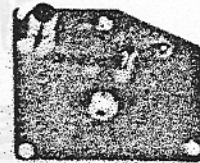


V4-1789

NOTE: V4-941A CSP AND V4-1789
REPLACE V4-941 CSP



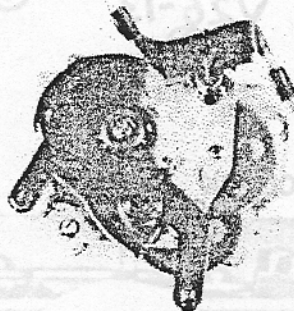
V7-17B' CSP



V4-940 CSP



V5-49A CSP



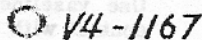
V4-820 CSP



V4-170D' CSP



V14-268 CSP



V4-1167

V10-48 CSP



V5-62 CSP



V5-37 CSP

V9-26'D'

CLOCK PARTS

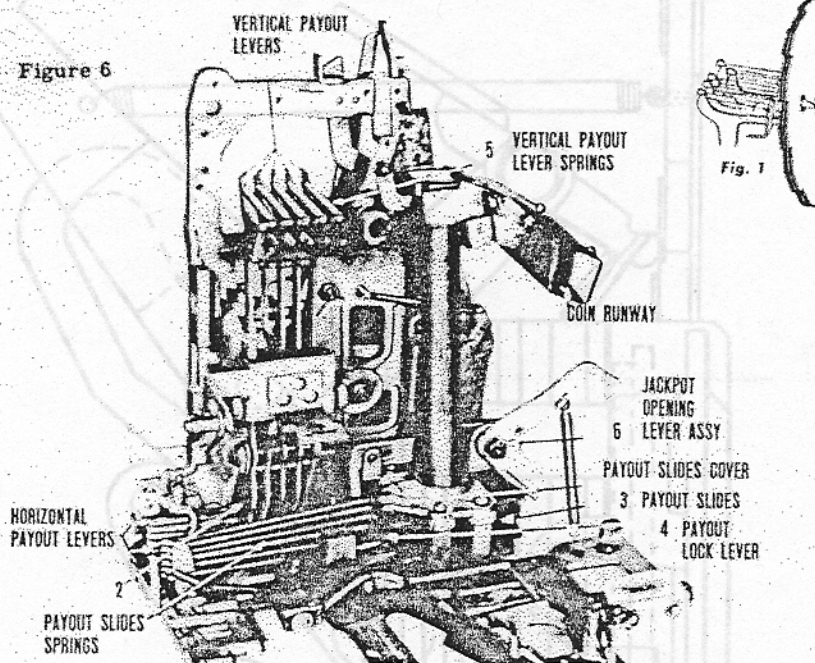
V4-820 CSP _____ Complete clock assembly

V14-268 CSP _____ Ratchet assy. for V4-820 CSP
V10-48 CSP _____ Fan shaft assy.
V9-102 _____ Clock ratchet spring for V5-49 CSP
V9-26D _____ Main clock spring
V7-17B CSP _____ Clock fan assy. (comp.)
V5-62 CSP _____ Medium gear assy. (comp.)
V5-49A CSP _____ Tooth clock gear & ratchet pawl assy. (comp.)

V5-37 CSP _____ Large clock gear (comp.)
V5-36B CSP _____ Large clock gear & hub assy.
V4-1789 _____ Large clock gear bushing
V4-1167 _____ Large gear hub washer for V4-820 CSP
V4-941 A CSP _____ Bottom plate assy.
V4-941 CSP _____ Bottom plate assy. (comp.)
V4-940 CSP _____ Top plate assy. (comp.)
V4-170 D CSP _____ Clock arm assy. (comp.)

PAYOUT ASSEMBLY VERTICAL AND HORIZONTAL PAYOUT LEVERS

Figure 6



THE PAYOUT SLIDES

Figure 6 illustrates the complete payout unit and also the vertical and horizontal payout levers. Study it closely. The vertical and horizontal payout levers and payout slides are closely related and work as a unit.

What happens when a winning combination appears on the reel symbols:

1. The finger of the vertical payout lever corresponding to the winning combination passes through the holes in the reel discs (No. 1).
2. The bottom of the vertical payout lever is forced against the side of the corresponding horizontal payout lever (No. 2).
3. This action releases the proper payout slide (No. 3) and permits the correct number of coins to fall into the cup.

EACH TIME THE MACHINE IS PLAYED THE PAYOUT SLIDES ARE RESET. Now take a look at (No. 4). This is the payout lock lever and its functions are very IMPORTANT! As the reels come to a stop the payout lock lever holds the slides forward long enough for the vertical payout lever to enter the holes in the discs and trip the horizontal payout lever that releases the payout slides. The payout lock lever at the point where it rests against the payout slides should be GREASED frequently to prevent binding.

REMOVING COINS JAMMED IN PAYOUT SLIDES

If a coin is lodged vertically in the payout slides do NOT take an ice pick or any sharp instrument to remove it. When examining the payout slides from the base of the mechanism, after tilting the machine backward, the delicate bronze springs on the payout slides are clearly visible. Be SURE you do not touch or scratch these springs. Any change in the adjustment of the bronze springs will cause more trouble.

Remove the coin runway and coin tube. For instructions on how to remove the coin tube and coin runway, see Page

Fig. 1

HOW TO CORRECT PAYOUT TROUBLE

If the payout unit fails to deliver the proper number of coins, or does not pay off, the trouble may come from several causes:

1. Examine (No. 1) and make sure the finger of the vertical payout lever is not binding against the side of the holes in the reel discs.
2. Make sure the spring on the vertical payout lever (No. 5) is not disconnected, broken or stretched.
3. Inspect the coin tube. It may be empty.

If this does not correct the source of the trouble, tilt the machine backward and examine the payout slides from the base of the machine. A coin may be lodged vertically in the payout slides.

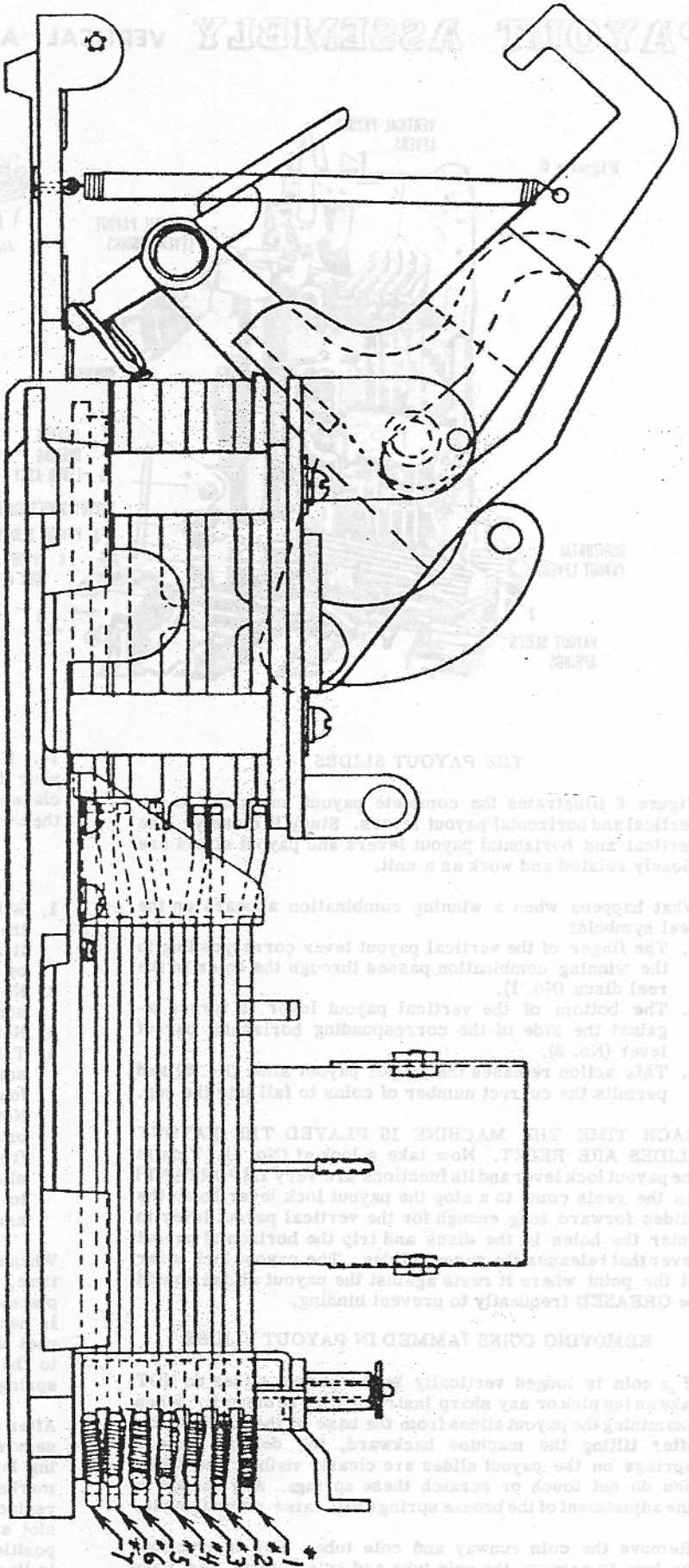
14. Now lift the jammed coins from the payout slides with your fingers. The payout slides should be removed and cleaned every few months by soaking in a pan of kerosene, then wiped dry with a clean rag and replaced.

HOW TO REMOVE THE PAYOUT SLIDES

1. With a pencil or scratch awl mark the exact position of the Jackpot opening lever assembly (V4-601A CSP where it fastens to the top of the payout slides cover. (Indicated by Number 6, Page 18).
2. Now remove coin runway by removing the two machine screws indicated by Numbers 1 and 2, page 14.
3. Next remove the Jackpot, see Page 14 for instructions.
4. Take off the coin tube by removing the round head machine screw designated by Number 6, page 14. Then remove the four screws holding the payout slides cover to the posts. Now turn the mechanism around and with a button hook or spring hook, unfasten the seven payout slide spring from the bracket at the rear of the mechanism. Payout slides will now come out without any difficulty. Be sure to keep them in proper order and to replace them in the same order.

When ready to replace the slides, put each slide in, one at a time, starting from the bottom, and fasten each spring in place as you put the slide in. The spring on the second slide is heavier than the others and goes through the hole in the post that is directly behind the slides. This spring fastens to the opposite side of the bracket to which the other six springs are attached.

After all seven slides are in place and the springs properly secured, fasten the payout slides cover and the Jackpot opening lever assembly in position, taking care to line up your marks properly for the Jackpot opening lever assembly. Now, replace coin tube, making sure that rake-off arm goes through slot at top of tube. Replace all other parts and be sure the position of the Jackpot opening lever assembly (V4-601A) is lined up with your previous mark.



HORIZONTAL PAYOUT LEVERS

1¢

#1 V4-1501
2 V4-1559
3 V4-1558
4 V4-1559
5 V4-1504
6 V4-1505
7 V4-1506

5¢

#1 V4-1501
2 V4-1502
3 V4-1503
4 V4-1522
5 V4-1504
6 V4-1505
7 V4-1506

10¢

#1 V4-1501
2 V4-1557
3 V4-1559
4 V4-1557
5 V4-1060
6 V4-1505
7 V4-1506

25¢

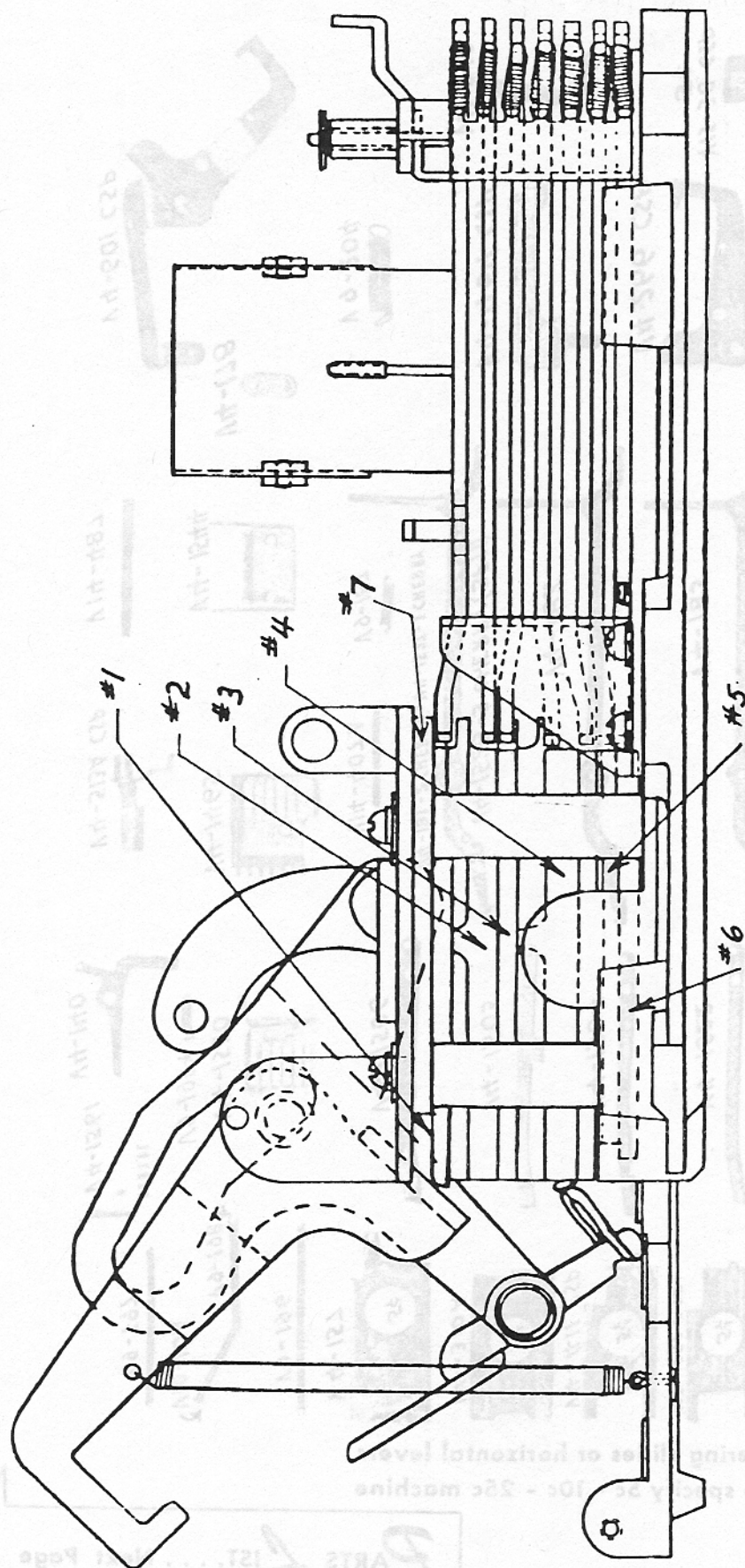
#1 V4-1501
2 V4-1558
3 V4-1502
4 V4-1559
5 V4-1060
6 V4-1505
7 V4-1506

50¢

#1 V4-1565
2 V4-1566
3 V4-1566
4 V4-1558
5 V4-1584
6 V4-1585
7 V4-1506

\$1.00

#1 V4-699
2 V4-700
3 V4-700
4 V4-1574
5 V4-1573
6 V4-1505
7 V4-1506

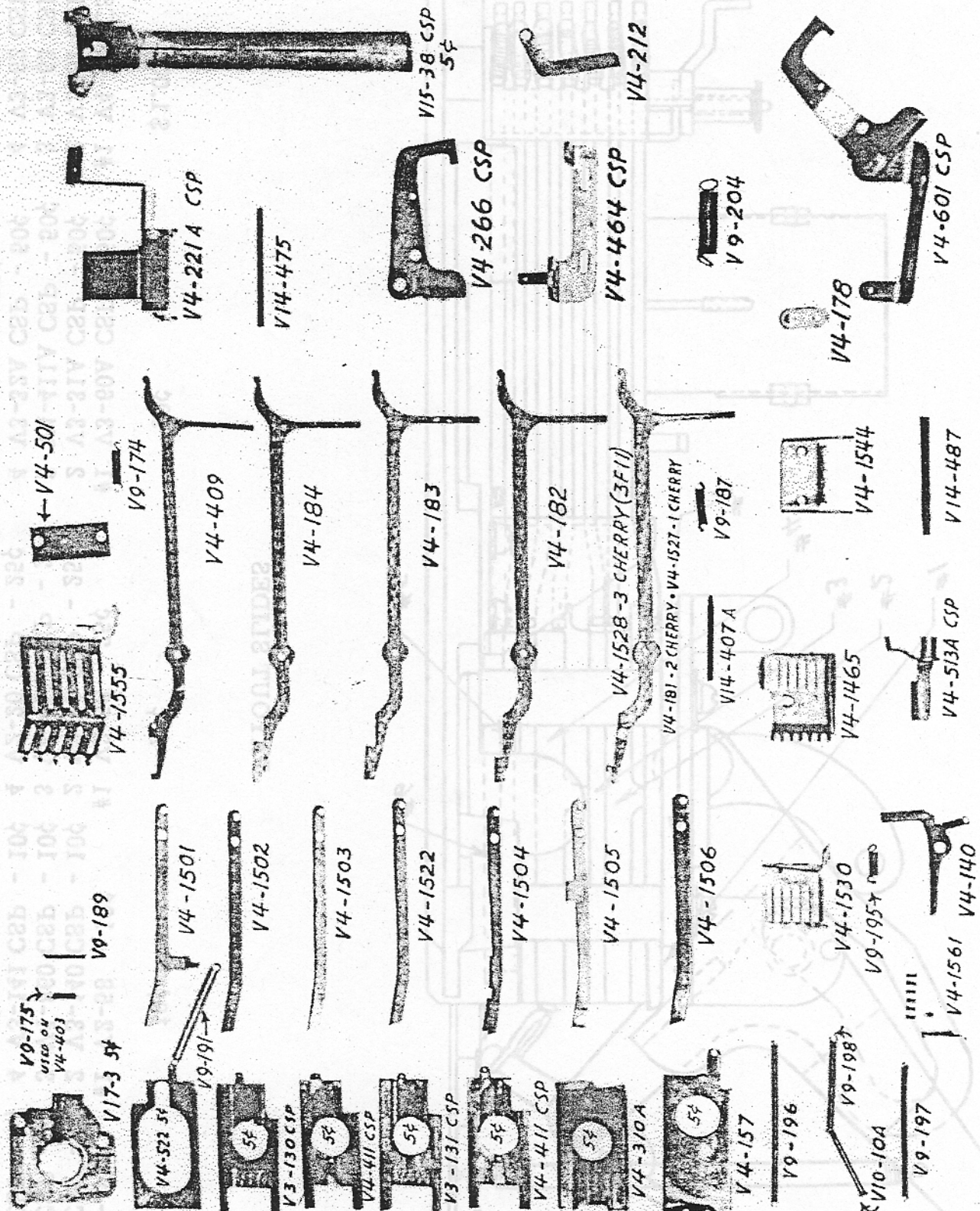


18B

PAYOUT SLIDES

5¢	10¢	25¢	50¢	\$1.00
#1 V4-522 - 5¢	#1 V2-58 - 10¢	#1 V2-58 - 25¢	#1 V3-60A CSP - 50¢	#1 V4-714 CSP
2 V3-130 CSP - 5¢	2 V3-140 CSP - 10¢	2 V2-19 CSP - 25¢	2 V3-31A CSP - 50¢	2 V3-61 CSP
3 V4-411 CSP - 5¢	3 V4-860 CSP - 10¢	3 V4-411 CSP - 25¢	3 V4-411A CSP - 50¢	3 V3-63 CSP
4 V3-131 CSP - 5¢	4 V3-141 CSP - 10¢	4 V2-20 CSP - 25¢	4 V3-32A CSP - 50¢	4 V3-62 CSP
5 V4-310A - 5¢	5 V4-310A - 10¢	5 V4-310A - 25¢	5 V4-310A - 50¢	5 V4-702 CSP
6 V4-157 - 5¢	6 V4-157 10¢	6 V4-157 - 25¢	6 V4-157A - 50¢	6 V4-715
7 V17-3 - 5¢ CSP	7 V17-3 .0¢ CSP	7 V17-3 - 25¢ CSP	7 V2-6A - 50¢ CSP	7 V3-64 - 1.00

PAYOUT SLIDES AND LEVERS



When ordering slides or horizontal levers
be sure to specify 5c - 10c - 25c machine

PARTS LIST... Next Page

PAYOUT SLIDES AND RELATED PARTS

VERTICAL AND HORIZONTAL PAYOUT LEVERS, PAYOUT SLIDES AND RELATED PARTS

WHEN ORDERING SLIDES OR HORIZONTAL LEVERS

Be Sure to Specify 5-10-25¢ Machine

V17-3 _____ O. & E. Payout cover assy. 5¢
V15-38 CSP _____ Check tube assembly
V14-527 _____ Payout slide posts (4)
V14-500 _____ Payout slide guide for V2-70A CSP
V14-487 _____ Pin for V4-1544
V14-475 _____ Pin for operating bar
V14-437 _____ Shoulder Screw
V14-407A _____ Horz. levers stud
V14-381 _____ Shoulder stud
V10-49 _____ Holding pin
V10-10A _____ Extension pin
V9-215 _____ O. & E. slide cover spring
V9-214 _____ 2 Coin payout slide coin separator spring
V9-213 _____ Payout slide coin separator spring
V9-204 _____ Spring
V9-199 _____ Spring for V4-216A CSP
V9-198 _____ Spring for V4-310A
V9-197 _____ Spring for V4-157
V9-196 _____ Spring for V4-411, V3-130 V3-131
V9-195 _____ Spring for V4-140
V9-191 _____ Spring for top slide V4-522
V9-189 _____ Extn. springs (7) for horz. payout levers
V9-187 _____ Vert. lever springs (4) for V4-184, V4-183, V4-182 V4-1527
V4-411 _____ O. & E. 2-Coin payout slide
V4-409 _____ J/P Lever 2-Cherry payout
V4-310A _____ O. & E. Bottom payout slide
V4-266 CSP _____ J/P Opening lever assy.
V4-221A CSP _____ Vert. lever lift brkt. assy.
V4-216A CSP _____ Payout lock lever assy.
V4-212 _____ Rake off arm
V4-211 CSP _____ Timing bar
V4-184 _____ 18 Coin lever 1 & 2 cherry payout
V4-183 _____ 13 Coin lever 1 & 2 cherry payout
V4-182 _____ 11 Coin lever 1 & 2 cherry payout
V4-181 _____ 3 & 5 Coin lever - 2 Cherry payout
V4-178 _____ Handle cam bumper hang.
V4-157 _____ Payout lock slide

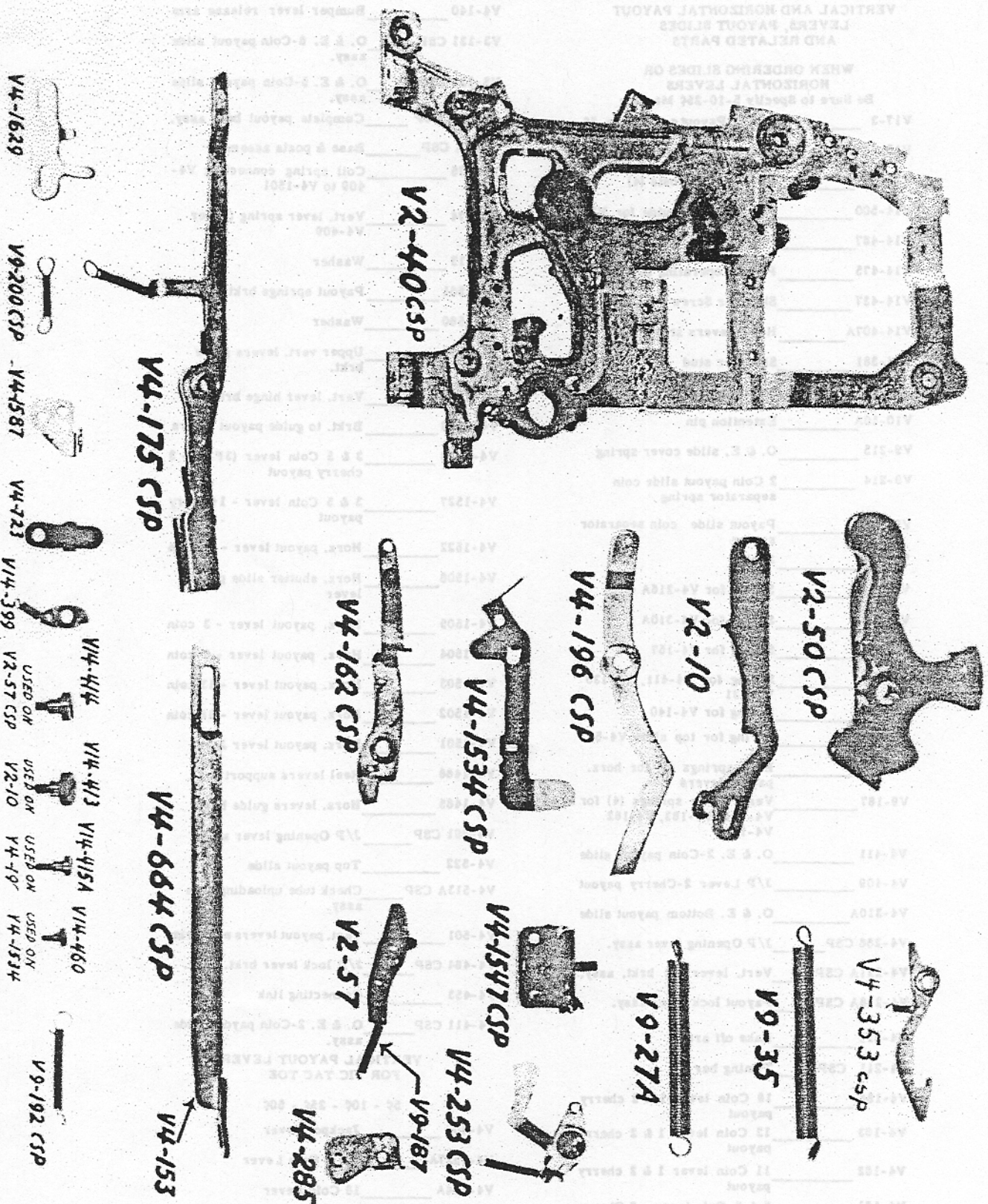
V4-140 _____ Bumper lever release arm
V3-131 CSP _____ O. & E. 6-Coin payout slide assy.
V3-130 CSP _____ O. & E. 5-Coin payout slide assy.
V2-70A CSP _____ Complete payout base assy.
V2-7A CSP _____ Base & posts assembly
V9-175 _____ Coil spring connecting V4-409 to V4-1501
V9-174 _____ Vert. lever spring (1) for V4-409
V7-113 _____ Washer
V4-1561 _____ Payout springs brkt.
V4-1560 _____ Washer
V4-1555 _____ Upper vert. levers guide brkt.
V4-1544 _____ Vert. lever hinge brkt.
V4-1530 _____ Brkt. to guide payout levers
V4-1528 _____ 3 & 5 Coin lever (3F11) - 3 cherry payout
V4-1527 _____ 3 & 5 Coin lever - 1 Cherry payout
V4-1522 _____ Horz. payout lever - 11 coin
V4-1506 _____ Horz. shutter slide payout lever
V4-1505 _____ Horz. payout lever - 3 coin
V4-1504 _____ Horz. payout lever - 5 coin
V4-1503 _____ Horz. payout lever - 13 coin
V4-1502 _____ Horz. payout lever - 18 coin
V4-1501 _____ Horz. payout lever J/P
V4-1468 _____ Reel levers support brkt.
V4-1465 _____ Horz. levers guide brkt.
V4-601 CSP _____ J/P Opening lever assy.
V4-522 _____ Top payout slide
V4-513A CSP _____ Check tube unloading arm assy.
V4-501 _____ Vert. payout levers stop brkt.
V4-484 CSP _____ J/P lock lever brkt. assy.
V4-453 _____ Connecting link
V4-411 CSP _____ O. & E. 2-Coin payout slide assy.

VERTICAL PAYOUT LEVERS FOR TIC TAC TOE

5¢ - 10¢ - 25¢ - 50¢

V4-409 _____ Jackpot Lever
V4-1527A _____ 3 & 5 Coin Lever
V4-184A _____ 18 Coin Lever
V4-184 _____ 18 Coin Lever
V4-183 _____ 13 Coin Lever
V4-182 _____ 11 Coin Lever

RIGHT SIDE FRAME AND ATTACHMENTS



FRAME & ATTACHMENTS

• LEFT SIDE FRAME BASE AND ATTACHMENTS •

V15-70 _____ Stop lever bushing
V14-408 _____ Reel stop lever shaft
V14-400 _____ Reel spinner shaft
V10-49 _____ Reel spinner shaft holding pin
V9-199 _____ Spring for V4-216A CSP
V9-187 _____ Spring
V9-150 _____ Spring
V9-93 _____ Spring for V4-468 CSP
V9-43 _____ Reel stop lever springs
V4-1609 _____ Reel stop lifter arm
V4-1477A CSP _____ Comp. "A" Reel stop lever assy.
V4-1477B CSP _____ Complete "B" Reel stop lever assy.
V4-1477C CSP _____ Comp. "C" Reel stop lever assy.
V4-468 CSP _____ Comp. reel spinner
V4-464 _____ J/P lock lever brkt.
V4-463 CSP _____ J/P support brkt. assy.
V4-453 _____ Clock & timing bar conn. link
V4-216A _____ Payout lock lever assy.
V4-211 CSP _____ Timing bar assembly
V2-7A CSP _____ Chief base assembly
V2-3A CSP _____ Left side frame assy.
• RIGHT SIDE FRAME AND ATTACHMENTS •
V14-460 _____ Shldr. screw for V4-1534
V14-415A _____ Feeler shaft drive lever shldr. screw
V14-414 _____ Shldr. screw for coin separator lever
V14-413 _____ Lock lever shldr. screw
V14-399 _____ Pawl for side frame
V9-200 CSP _____ Push lever spring assy.
V9-192 CSP _____ Coil spring assy.
V9-187 _____ Spring for V2-57
V9-35 _____ Operating arm spring
V9-27A _____ Operating lever conn. link spring
V4-1629 _____ Push Lever
V4-1587 _____ Rod guide brkt.
V4-1547 CSP _____ No-pay-on-check brkt. assy.
V4-1534 CSP _____ Arm assy. for reloading machine
V4-723 _____ Spring pull clip
V4-664 CSP _____ Coin operating lever conn. link assy.

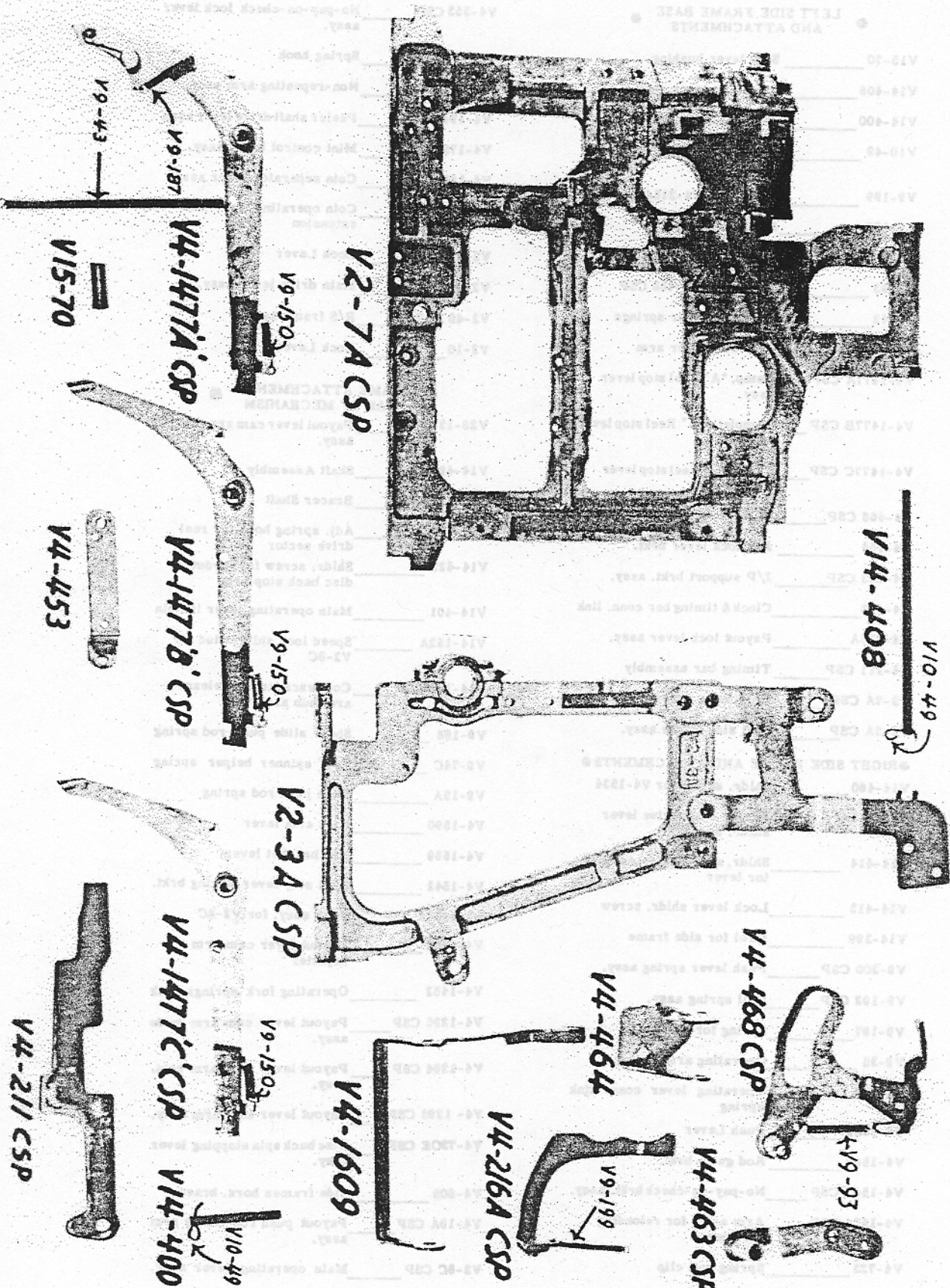
V4-353 CSP _____ No-pay-on-check lock lever assy.
V4-285 _____ Spring hook
V4-253 CSP _____ Non-repeating arm assy.
V4-196 CSP _____ Peeler shaft drive lever assy.
V4-175 CSP _____ Mint control lever assy.
V4-162 CSP _____ Coin separator lever assy.
V4-153 _____ Coin operating lever link extension
V2-57 _____ Lock Lever
V2-50 CSP _____ Main drive lever assy.
V2-40 CSP _____ R/S frame assy.
V2-10 _____ Lock Lever

• FRAME ATTACHMENTS REAR OF MECHANISM •

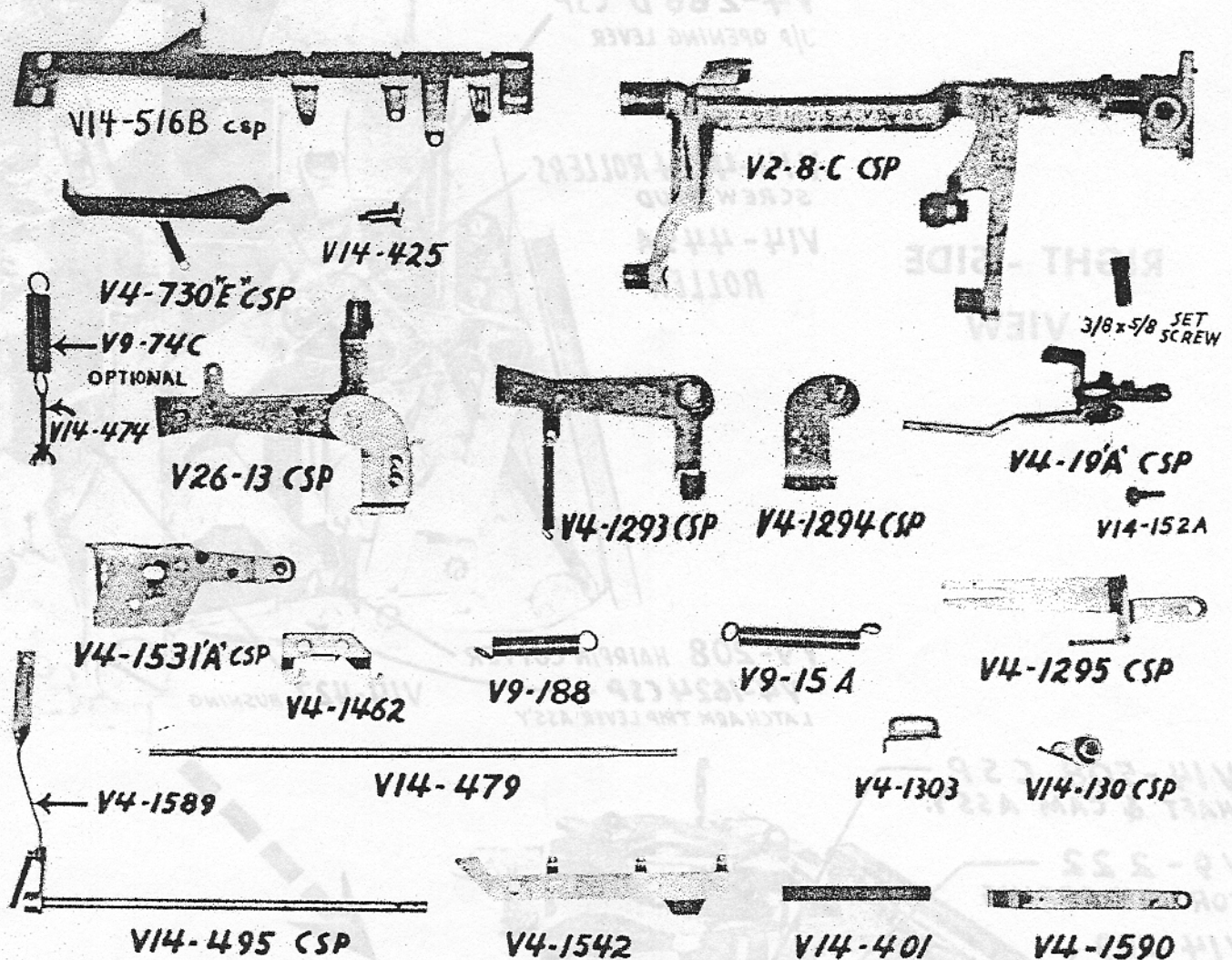
V28-13 CSP _____ Payout lever cam arm & brkt. assy.
V14-495 CSP _____ Shaft Assembly
V14-479 _____ Bracer Shaft
V14-474 _____ Adj. spring hook for reel drive sector
V14-425 _____ Shldr. screw for payout & disc back stop arm
V14-401 _____ Main operating lever lift pin
V14-152A _____ Speed lock shldr. stud for V2-8C
V14-130 CSP _____ Coin escapement release arm hub assy.
V9-188 _____ Short slide push rod spring
V9-74C _____ Reel spinner helper spring
V9-15A _____ Slide push rod spring
V4-1590 _____ Cam arm lever
V4-1589 _____ Rod bracket lever
V4-1542 _____ Reel stop lever spring brkt.
V4-1531A CSP _____ Fork assy. for V2-8C
V4-1303 _____ Payout lever cam arm adjuster
V4-1462 _____ Operating fork springs hook
V4-1296 CSP _____ Payout lever cam arm guide assy.
V4-1294 CSP _____ Payout lever cam arm brkt. assy.
V4-1293 CSP _____ Payout lever cam arm assy.
V4-730E CSP _____ Disc back spin stopping lever assy.
V4-605 _____ Side frames horz. brace
V4-19A CSP _____ Payout push rod safety arm assy.
V2-8C CSP _____ Main operating lever assy.

• SEE PHOTOS •

LEFT SIDE FRAME , BASE AND ATTACHMENTS



FRAME ATTACHMENTS - REAR OF MECHANISM



PLEASE NOTE:

The following pages are for revisions and changes which will be made from time to time.

RECENT JACKPOT ASSEMBLY CHANGES

RIGHT - SIDE VIEW

V4-266 D CSP
J/P OPENING LEVER

V14-404 ROLLERS
SCREW STUD

V14-449A
ROLLER

V9-208 HAIRPIN COTTER
V4-1624 CSP
LATCH ARM TRIP LEVER ASS'Y

V14-427 BUSHING

V14-508 CSP
SHAFT & CAM ASS'Y.

V9-222
TORSION SPRING

V14-509
SHAFT

COTTER
KEY

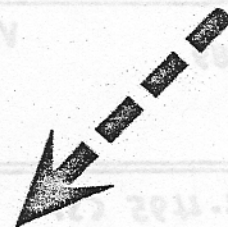
V9-207
TORSION
SPRING

COTTER KEY

V17-67 CSP-DOOR ASS'Y

V4-1628 CSP
J/P CAM GUARD & ARM CATCH ASS'Y

V4-1627-LATCH ARM



BOTTOM VIEW with mechanism lying on side