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 5c "Chief" Machines unless indicated otherwise.

AT ALL TIMES WHEN ORDERING PARTS SPECIFY DENOMINATION OF MACHINE 5c 10c 25c 50c $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 the 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 ....................................... 126 pounds

Specifications of Mint Vendors furnished upon request.

CAPACITY OF COIN TUBE, JACKPOT AND RESERVE

| 5c "Chief" | 7.50 |
| 10c "Chief" | 21.00 |
| 25c "Chief" | 37.50 |
| 50c "Chief" | 54.00 |
| 1.00 "Chief" | 94.00 |
| 2.00 "Chief" | 120.00 |
| 5.00 "Chief" | 180.00 |
| 10.00 "Chief" | 300.00 |

PART LIST ABBREVIATIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Adj.</td>
<td>Adjusting</td>
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<td>Assy</td>
<td>Assembly</td>
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<td>Bracket</td>
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<td>Cabinet</td>
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<td>Complete</td>
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<td>Hng</td>
<td>Housing</td>
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<tr>
<td>Horz</td>
<td>Horizontal</td>
</tr>
<tr>
<td>J/P</td>
<td>Jackpot</td>
</tr>
<tr>
<td>L/F</td>
<td>Left Front</td>
</tr>
<tr>
<td>L/S</td>
<td>Left Side</td>
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<td>Mech</td>
<td>Mechanism</td>
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<tr>
<td>Ming</td>
<td>Mounting</td>
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<tr>
<td>O &amp; E</td>
<td>Odd &amp; Even</td>
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<tr>
<td>P/L</td>
<td>Payout Lever</td>
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<td>P/S</td>
<td>Payout Slide</td>
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<tr>
<td>Retng</td>
<td>Retaining</td>
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<tr>
<td>R/F</td>
<td>Right Front</td>
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<td>R/S</td>
<td>Right Side</td>
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<tr>
<td>Shld</td>
<td>Shoulder</td>
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<tr>
<td>Vert</td>
<td>Vertical</td>
</tr>
<tr>
<td>SDX</td>
<td>Super De Luxe</td>
</tr>
<tr>
<td>CSP</td>
<td>Complete Stock Part</td>
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</table>
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

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

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

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
8. 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 screwdriver 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 casing 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.

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

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.

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.
**ESCALATOR PARTS**

Be Sure and Specify 5-10-25c 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

V14-465 ______ Spacer for V4-210A

V14-472 ______ Shoulder stud

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

V14-128 ______ Release arm stud

V14-115 ______ Clutch arm stud roller

V14-99 ______ Screw stud for V4-158

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 V4-184 CSP

V13-3 ______ Escalator endless roller chain

V10-13 ______ Coin guide wire for V4-139

V9-178 ______ Coil spring for V4-142 & 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 V4-183A

VT-113 ______ Shims

V5-17 - 5c ______ Coin chute cover

V5-4A ______ Magnet cover

V4-516 CSP ______ Tilting device brkl. (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 brkl.

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

V4-158 ______ 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 - 5c ______ Coin return lever

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**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 15, 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 payout levers are backed away from reel discs.
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.

Reel Parts

V4-1541 'C' CSP
V4-1541 'B' CSP
V4-1541 'A' CSP

V14-405
V10-56

V10-64
V4-1610

'B' DISC
'C' DISC

WHEN ORDERING DISCS SPECIFY REEL COMBINATION
<table>
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<th>Part Number</th>
<th>Description</th>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>V26-18</td>
<td>Cash Box</td>
<td>V10-40</td>
<td>Handle return spring wire loop</td>
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<td>V26-4</td>
<td>Comp. left latch assy.</td>
<td>V10-23</td>
<td>Handle hubb Bolt lock wire for V14-155</td>
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<td>V26-3</td>
<td>Comp. right latch assy.</td>
<td>V9-33B</td>
<td>Handle return spring</td>
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<td>V20-41 CSP</td>
<td>Transformer assy.</td>
<td>V8-28</td>
<td>Award card glass</td>
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<td>V20-25 CSP</td>
<td>Cord &amp; plug set assy.</td>
<td>V8-26</td>
<td>Award card glass (club chief)</td>
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<td>Oval top coin chute runway assy.</td>
<td>V8-24</td>
<td>Award card glass</td>
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<td>5C</td>
<td></td>
<td>V8-23</td>
<td>Reel display glass</td>
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<td>V14-515</td>
<td>Stud for V4-414 CSP</td>
<td>V8-9A</td>
<td>Coin display glass</td>
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<td>V14-435</td>
<td>Shldr. stud for V4-414 CSP</td>
<td>V4-1784</td>
<td>Cab. bottom front corner brace</td>
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<td>V14-391 CSP</td>
<td>Handle shaft assy.</td>
<td>V4-1712</td>
<td>Drill proof plate for V12-46</td>
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<td>V14-390</td>
<td>Handle hub</td>
<td>V4-1596</td>
<td>Standard Chief name plate glass holder</td>
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<td>V14-155</td>
<td>Hub bolt for hub V14-390</td>
<td>V4-1595</td>
<td>Standard Chief award card glass holder</td>
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<td>V12-75</td>
<td>Chief console cabinet</td>
<td>V4-1529</td>
<td>Cab. top right channel (Club Chief)</td>
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<td>V12-74</td>
<td>Gasket name plate glass</td>
<td>V4-1526</td>
<td>Cab. top left channel (Club Chief)</td>
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<td>V12-85</td>
<td>Rear corner post left &amp; right</td>
<td>V1-191</td>
<td>Plastic front assembly</td>
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<td>L/F corner post for V12-46</td>
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<td>Check pocket assembly</td>
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<td>R/F corner post for V12-46</td>
<td>V1-207 CSP</td>
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<td>Upper handle bumper</td>
<td>V1-208 CSP</td>
<td>Oval top back assy.</td>
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<td>Lower handle bumper</td>
<td>V1-205 CSP</td>
<td>Club Chief oval top assy.</td>
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<td>Gasket for reel display glass</td>
<td>V1-129A CSP</td>
<td>Club Chief reel display frame</td>
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<td>V11-8</td>
<td>Gasket for escalator glass</td>
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<td>Black handle knob for V14-381 CSP</td>
<td>V1-138B CSP</td>
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<td>V4-944R</td>
<td>Right cab. mntg. safety catch</td>
<td>V4-546L</td>
<td>Left cab. mntg. safety catch</td>
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<td>V4-474 CSP</td>
<td>Steel back door</td>
<td>V4-546 L</td>
<td>Left latch catch</td>
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<td>V4-625</td>
<td>Right latch catch on cab.</td>
<td>V4-497</td>
<td>Mech. base hold down plate for V1-38A</td>
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<td>V4-415A CSP</td>
<td>Fast play lock dog assy.</td>
<td>V4-414 CSP</td>
<td>Handle operating cam assy.</td>
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<td>V4-414 CSP</td>
<td>Inside handle plate assy.</td>
<td>V4-413 CSP</td>
<td>Inside handle plate assy.</td>
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<tr>
<td>V4-222 CSP</td>
<td>Pump Assembly</td>
<td>V4-202A</td>
<td>Coin display glass frame</td>
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<td>V4-178</td>
<td>Bumper housing</td>
<td>V2-22</td>
<td>Handle collar</td>
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<td>V1-216</td>
<td>Standard Chief front</td>
<td>V1-215 CSP</td>
<td>Check pocket assembly</td>
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<td>V1-207 CSP</td>
<td>Plastic front assembly</td>
<td>V1-208 CSP</td>
<td>Oval top back assy.</td>
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<tr>
<td>V1-205 CSP</td>
<td>Club Chief oval top assy.</td>
<td>V1-129A CSP</td>
<td>Club Chief reel display frame</td>
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<tr>
<td>V1-129 CSP</td>
<td>Standard Chief reel display frame</td>
<td>V1-138B CSP</td>
<td>Aluminum base assembly</td>
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FRAMES and GLASS PANELS

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V1-129A
VII-9

V7-8
V11-8
V12-74
V12-75

V4-1596
V4-1595
V4-1554
V4-1523
V6-2024
V7-21

V8-23
V8-24
V8-25

V8-26
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V8-56

V8-57
V8-58
V8-59
PUMP PARTS

V4-222 CSP Complete Pump Assembly

V26-15 Drive arm & plate assy.
V14-524 CSP Pump brkt. (back) 2 cyl. assy.
V12-5 Pump sucker for V4-222 CSP
V5-71 Copper washer for pump brkt.
V5-6 Sucker compression spring

V4-190 CSP Small washer for pump assy.
V4 - 1463 Sucker clamp washer
V4-690 Washer
V4-197 CSP Drive arm plate assy.
V4-190 CSP Pump drive arm (complete)

V4-189 CSP Piston rod link assy. (complete)
V4-188 Pump brkt. tie strap
V4-187 CSP Pump brkt. back assy. for V14-524 CSP
V4-186 CSP Pump brkt. front (complete)
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. A simple 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 5-10-25C Machine

V26-11 Complete Jackpot Assembly
V17-67 CSP 1/P Housing door assy.
V17-62 1/P Overflow runway
V17-2 Reserve levers guide bracket
V14-460 Shoulder Screw
V14-465A Jackpot door shaft
V14-409 CSP 1/P Closing crank shaft assy.
V10-19A Coin overflow flap hinge pin
V9-303 Spring for V4-1592
V9-183 Spring
V9-173 3 Finger springs
V9-170 Spring
V9-55 Coil spring for V4-436C
V8-1C Jackpot front glass

JACKPOT PARTS

V7-89 1/P overflow opening cover
V5-65 CSP Reserve lever assy.
V5-20 CSP 1/P Loading cover assy.
V5-11A Jackpot reliner
V4-1625 CSP 1/P Cam guard & arm catch assy.
V4-1525 CSP Reserve levers & guide brkt. assy.
V4-1525 Reserve levers shelf guide
V4-1490 1/P Guard
V4-1458 CSP 2/P Closing lever assy.
V4-1419 CSP Tube to 1/P runway assy.
V4-943 Cleat to lock 1/P in position
V4-835B Side 1/P opening filler plate
V4-833 2/P glass hold down brkt.
V4-801 CSP 1/P Hang. & overflow assy.
V4-594 Jackpot support bracket

V4-456 CSP Jackpot overflow runway
V4-458 1/P glass runway guide (right)
V4-457 1/P glass runway guide (left)
V4-455 CSP Cam guard & Hang. Assy.
V4-455 CSP Reserve lever reing. arm (comp.)
V4-438 CSP Coin overflow hang. cover assy.
V4-436C Coin overflow hang. flap
V4-435B CSP Coin overflow hang. (comp.)

JACKPOT OPENING & CLOSING ARRANGEMENT

V4-464A CSP 1/P opening lever lock relief arm brkt. assy.
V4-286D CSP 1/P opening lever assembly
**CLOCK ASSEMBLY**

**REMOVING THE CLOCK**

**THE CLOCK ASSEMBLY**

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

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

V4-1789
V7-178 CSP
V4-940 CSP

V5-49 A CSP
V4-268 CSP

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
V7-178 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.)
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 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 (V4-601 A CSP where it fastens to the top of the payout slides cover. (Indicated by Number 6, Page 18).
2. Now remove coin cover 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 take-off arm goes through slot at top of tube. Replace all other parts and be sure the position of the Jackpot opening lever assembly (V4-601 A) is lined up with your previous mark.
PAYOUT SLIDES AND LEVERS

When ordering slides or horizontal levers be sure to specify 5c, 10c, or 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

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V17-3</td>
<td>O. &amp; E. Payout cover assy. 5¢</td>
</tr>
<tr>
<td>V15-38 CSP</td>
<td>Check tube assembly</td>
</tr>
<tr>
<td>V14-527</td>
<td>Payout slide posts (4)</td>
</tr>
<tr>
<td>V14-500</td>
<td>Payout guide for V2-70A CSP</td>
</tr>
<tr>
<td>V14-467</td>
<td>Pin for V4-1544</td>
</tr>
<tr>
<td>V14-475</td>
<td>Pin for operating bar</td>
</tr>
<tr>
<td>V14-437</td>
<td>Shoulder Screw</td>
</tr>
<tr>
<td>V14-407A</td>
<td>Horz. levers stud</td>
</tr>
<tr>
<td>V14-381</td>
<td>Shoulder stud</td>
</tr>
<tr>
<td>V10-49</td>
<td>Holding pin</td>
</tr>
<tr>
<td>V10-10A</td>
<td>Extension pin</td>
</tr>
<tr>
<td>V9-215</td>
<td>O. &amp; E. slide cover spring</td>
</tr>
<tr>
<td>V9-214</td>
<td>2 Coin payout slide coin separator spring</td>
</tr>
<tr>
<td>V9-213</td>
<td>Payout slide coin separator spring</td>
</tr>
<tr>
<td>V9-204</td>
<td>Spring</td>
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<tr>
<td>V9-199</td>
<td>Spring for V4-216A CSP</td>
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<tr>
<td>V9-198</td>
<td>Spring for V4-310A</td>
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<tr>
<td>V9-197</td>
<td>Spring for V4-157</td>
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<tr>
<td>V9-196</td>
<td>Spring for V4-411, V3-130, V3-131</td>
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<tr>
<td>V9-195</td>
<td>Spring for V4-140</td>
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<tr>
<td>V9-191</td>
<td>Spring for top side V4-522</td>
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<tr>
<td>V9-189</td>
<td>Ext. springs (7) for horz. payout levers</td>
</tr>
<tr>
<td>V9-187</td>
<td>Vert. lever springs (6) for V4-184, V4-183, V4-182 V4-1527</td>
</tr>
<tr>
<td>V4-411</td>
<td>O. &amp; E. 2-Coin payout slide</td>
</tr>
<tr>
<td>V4-409</td>
<td>J/P Lever 2-Cherry payout</td>
</tr>
<tr>
<td>V4-310A</td>
<td>O. &amp; E. Bottom payout slide</td>
</tr>
<tr>
<td>V4-266 CSP</td>
<td>J/P Opening lever assy.</td>
</tr>
<tr>
<td>V4-321A CSP</td>
<td>Vert. lever lift brkt. assy.</td>
</tr>
<tr>
<td>V4-216A CSP</td>
<td>Payout lock lever assy.</td>
</tr>
<tr>
<td>V4-212</td>
<td>Rake off arm</td>
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<tr>
<td>V4-211 CSP</td>
<td>Timing bar</td>
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<tr>
<td>V4-184</td>
<td>18 Coin lever 1 &amp; 2 cherry payout</td>
</tr>
<tr>
<td>V4-183</td>
<td>13 Coin lever 1 &amp; 2 cherry payout</td>
</tr>
<tr>
<td>V4-182</td>
<td>11 Coin lever 1 &amp; 2 cherry payout</td>
</tr>
<tr>
<td>V4-181</td>
<td>3 &amp; 5 Coin lever - 2 Cherry payout</td>
</tr>
<tr>
<td>V4-178</td>
<td>Handle cam bumper hang.</td>
</tr>
<tr>
<td>V4-157</td>
<td>Payout lock slide</td>
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<tr>
<td>V4-140</td>
<td>Bumper lever release arm</td>
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<tr>
<td>V3-131 CSP</td>
<td>O. &amp; E. 6-Coin payout slide assy.</td>
</tr>
<tr>
<td>V3-130 CSP</td>
<td>O. &amp; E. 5-Coin payout slide assy.</td>
</tr>
<tr>
<td>V2-70A CSP</td>
<td>Complete payout base assy.</td>
</tr>
<tr>
<td>V2-7A CSP</td>
<td>Base &amp; posts assembly</td>
</tr>
<tr>
<td>V9-175</td>
<td>Coll spring connecting V4-400 to V4-1501</td>
</tr>
<tr>
<td>V9-174</td>
<td>Vert. lever spring (1) for V4-409</td>
</tr>
<tr>
<td>V7-113</td>
<td>Washer</td>
</tr>
<tr>
<td>V4-1561</td>
<td>Payout springs brkt.</td>
</tr>
<tr>
<td>V4-1560</td>
<td>Washer</td>
</tr>
<tr>
<td>V4-1555</td>
<td>Upper vert. levers guide brkt.</td>
</tr>
<tr>
<td>V4-1544</td>
<td>Vert. lever hinge brkt.</td>
</tr>
<tr>
<td>V4-1530</td>
<td>Brkt. to guide payout levers</td>
</tr>
<tr>
<td>V4-1528</td>
<td>3 &amp; 5 Coin lever (3F11) - 3 cherry payout</td>
</tr>
<tr>
<td>V4-1527</td>
<td>3 &amp; 5 Coin lever - 1 Cherry payout</td>
</tr>
<tr>
<td>V4-1522</td>
<td>Horz. payout lever - 11 coin</td>
</tr>
<tr>
<td>V4-1506</td>
<td>Horz. shutter slide payout lever</td>
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<tr>
<td>V4-1505</td>
<td>Horz. payout lever - 3 coin</td>
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<tr>
<td>V4-1504</td>
<td>Horz. payout lever - 5 coin</td>
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<tr>
<td>V4-1503</td>
<td>Horz. payout lever - 13 coin</td>
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<td>V4-1502</td>
<td>Horz. payout lever - 18 coin</td>
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<tr>
<td>V4-1501</td>
<td>Horz. payout lever J/P</td>
</tr>
<tr>
<td>V4-1468</td>
<td>Reel levers support brkt.</td>
</tr>
<tr>
<td>V4-1465</td>
<td>Horz. levers guide brkt.</td>
</tr>
<tr>
<td>V4-401 CSP</td>
<td>J/P Opening lever assy.</td>
</tr>
<tr>
<td>V4-501</td>
<td>Top payout slide</td>
</tr>
<tr>
<td>V4-513A CSP</td>
<td>Check tube unloading arm assy.</td>
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<tr>
<td>V4-501</td>
<td>Vert. payout levers stop brkt.</td>
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<tr>
<td>V4-484 CSP</td>
<td>J/P lock lever brkt. assy.</td>
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<tr>
<td>V4-453</td>
<td>Connecting link</td>
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<tr>
<td>V4-411 CSP</td>
<td>O. &amp; E. 2-Coin payout slide assy.</td>
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**Horizontal Payout Levers for Tic Tac Toe**

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<tr>
<th>5¢</th>
<th>10¢</th>
<th>25¢</th>
<th>50¢</th>
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<tbody>
<tr>
<td>V4-409</td>
<td>Jackpot Lever</td>
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<tr>
<td>V4-1527A</td>
<td>3 &amp; 5 Coin Lever</td>
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<td>V4-184A</td>
<td>18 Coin Lever</td>
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<tr>
<td>V4-184</td>
<td>18 Coin Lever</td>
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<td></td>
</tr>
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<td>V4-183</td>
<td>13 Coin Lever</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V4-182</td>
<td>11 Coin Lever</td>
<td></td>
<td></td>
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</tbody>
</table>
FRAME & ATTACHMENTS

LEFT SIDE FRAME BASE AND ATTACHMENTS

V13-70 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 V4-458 CSP
V9-43 Reel stop lever springs
V4-1809 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.
V4-448 CSP Comp. reel spinner
V4-466 I/P lock lever brkt.
V4-463 CSP I/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

V14-440 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 Coll spring assy.
V9-187 Spring for V2-57
V9-55 Operating arm spring
V9-27A Operating lever conn. link spring
V4-1625 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.
V4-176 CSP Mini 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

V28-11 CSP Payout lever cam arm & brkt. assy.
V14-405 CSP Shaft Assembly
V14-470 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
V14-150 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.
V4-1531 CSP Fork assy. for V2-8C
V4-1303 Payout lever cam arm adjuster
V4-1692 Operating fork springs hook
V4-1306 CSP Payout lever cam arm guide assy.
V4-1294 CSP Payout lever cam arm brkt. assy.
V4-1295 CSP Payout lever cam arm assy.
V4-1296 CSP Payout lever cam arm guide assy.
V4-1297 CSP Payout lever cam arm brkt. assy.
V4-750E CSP Disc back spin stopping lever assy.
V4-505 Side frames born. brace
V4-18A CSP Payout push rod safety arm assy.
V2-8C CSP Main operating lever assy.

SEE PHOTOS
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

V4-266D 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

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