

RPP Series Service Manual



WARNING: This is a controlled document. It is your responsibility to deliver this information to the end user of the DESTACO CAMCO product. Failure to deliver this could result in your liability for injury to the user or damage to the machine. For copies of this manual, call your Customer Service Representative at 1-800-645-5207.







Service Manual

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Service Manual

INTRODUCTION

This service manual pertains to the disassembly and assembly of CAMCO's RPP Series Pick and Place Drive MODELS 150RPP, 300RPP, 500RPP, & 900RPP

The manual is to be used in conjunction with the General Service Manual which describes the lubrication and general maintenance of CAMCO Drives.

An exploded view of your specific Drive is included in this manual. Also included is a complete Bill of Materials for your convenience in identifying and ordering spare or replacement parts.

Some users of CAMCO Drives have the facilities and trained personnel to accomplish service repair. You must determine the extent to which intricate servicing should be done in your own facility. When in doubt, CAMCO recommends that CAMCO trained servicemen make the repairs.

WARNINGS AND CAUTIONS

Statements in this manual preceded by the words WARNING or CAUTION and printed in italics are very important. We recommend you take special notice of these during service or repair.

WARNING

Means there is the possibility of personal injury to yourself or others.

CAUTION

Means there is the possibility of damage to the CAMCO unit.





OIL SEAL REMOVAL

The only repair possible without disassembly of the indexer is replacement of oil seals. To remove oil seals, drill a number of holes into the case of the seal. The seal may then be removed with a pointed tool. Be sure to remove all metalic chips created during the drilling of removal holes. A new seal may be installed as outlined in the "Oil Seal Installation Recommendations" section of the "General Service Manual".

SPARE PARTS KIT

CAMCO offers a Spare Parts Kit for all CAMCO index drive models CAMCO builds. These kits include oil seals, bearings, shims and cam followers. These are components that will most likely require replacement during repair of your index drive. CAMCO recommends a Spare Parts Kit be purchased and kept on hand prior to any disassembly of your CAMCO drive.

A complete list of components supplied in the Spare Parts Kit can be found in the parts list located in the rear of this manual. The asterisk behind the item number indicates those parts supplied with the Spare Parts Kit.

BEFORE STARTING

Before starting disassembly of your CAMCO unit you should read and review the following instructions. These provide important information on parts and procedures necessary to successfully complete your repair.

Comply with all Warnings and Cautions.

Read the "Trouble Shooting Guide" section of your "General Service Manual" before disassembling CAMCO units. CAMCO recommends returning defective equipment for inspection and repair whenever possible.

CAMCO uses Loctite to secure all screws and setscrews. If you encounter a fastener that is difficult to remove, apply heat to the screw and remove while still warm



4.REPLACING GUIDE BEARINGS

Replacement of the center guide bearing can be done at this point without removal of the output follower wheel.

- A. Remove seals from both ends of the follower wheel center hole.
- B. Remove the retaining rings.
- C. Press or drive the bearings out using a round aluminum bar of sufficient length to permit both bearings to be removed from one side.



Fig. 3. Driving out center bearings

- D. Press in new bearings. Be sure to reinstall spacer between bearings if applicable on your model.
- E. Reinstall retaining rings and oil seals.
- F. Coat inside of bearings with NGLI #3 grease or equivalent prior to insertion of center shaft.

5. REMOVAL OF OUTPUT WHEEL

A. Remove the output bearing retaining ring capscrews.

B. Thread lifting eyes into the follower wheel output face. Use a hoist to lift the follower wheel free of the housing. Be sure to save the retaining ring shims since they will be required during reassembly.



Fig. 4. Removing output wheel

C. Place the follower wheel assembly on a bench. At this time you may want to replace the main output bearing or check the followers for damage or radial looseness. Loseness should not exceed .001 inch Do not confuse radial looseness with axial endplay. Endplay will be from .03 to .06 as a normal condition. If endplay exceeds .06 the follower may require replacement.

NOTE: Generally, followers are replaced as added insurance against eventual failure.





Fig. 5. Inspecting follower looseness

6.ROTARY FOLLOWER REPLACEMENT

- A. Remove the setscrews, apply heat to the setscrews holding the follower studs and remove while still warm.
- B. Threaded holes have been provided in the ends of the follower for ease of removal. Use a slide hammer or a simple self-made pull tool. The self made pull tool consists of a short piece of round tubing, large enough to clear the follower diameter and a small flat bar with a clearance hole large enough to insert a capscrew of equal thread size as the follower pull hole. Slip the tube over the follower, place the bar over the tube and thread a capscrew into the follower tightening the capscrew will remove the follower.

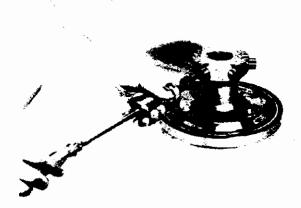


Fig. 6. Removing follower

- C. Check the follower holes for roundness. These holes may be worn out due to overloads, the holes should be round within .0005 to permit reuse of the follower wheel.
- D. Install new followers with an arbor press.

CAUTION! Be sure to press the followers in straight as damage to the follower and wheel could occur if improperly aligned during installation. Be sure the notches are aligned with the setscrew holes.

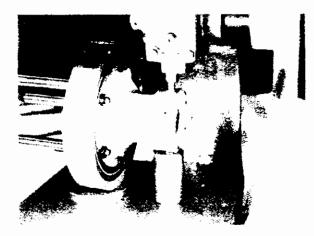


Fig. 7. Pressing in new followers

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E. Install the setscrews. The cone point setscrews lock into the "V" notch. The cup point setscrews lock against the flat. The oval point setscrews are used when only one flat is provided on the follower. Be sure to use Loctite thread locking liquid as recommended in the "General Service Manual".

7. REMOVAL OF OUTPUT BEARINGS

- A. Gently tap on the bottom of the bearing retainer ring with a soft face hammer, alternating from side to side to prevent binding, until the retainer ring is free of the bearing/follower wheel assembly.
- B. Remove the bearing clamp washer capscrews from the underside of the follower wheel.
- C. Place a small diameter aluminum bar against the protruding edge of the bearing and gently tap with a hammer, alternating from side to side to prevent binding, until the bearing is free of the follower wheel.

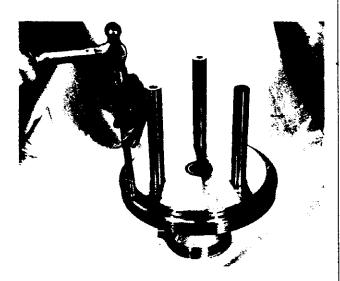


Fig. 8. Removing output bearing

8. LIFT FOLLOWER WHEEL REMOVAL

- A. Match mark the eccentric cartridges with the housing.
- B. Remove the cartridge capscrews. Remove the cartridges. If difficulty is encountered in removing the cartridges, a slight tapping on the inside lever arm should help to overcome this problem.
- C. Inspect the shim pack for damage and retain with their respective cartridges. If the shim packs are damaged replace with an exact thickness replacement as they not only establish bearing preload but also locate the followers with respect to the cams.
- D. At this point, the lift follower wheel can be removed through the bottom access opening.



Fig. 9. Removing lift follower shaft

E. Check for follower condition and replace if required as previously described in Step 6.

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9. INPUT SHAFT/CAM REMOVAL

NOTE: The output shaft must be removed prior to input shaft removal.

- A. Rotate the input shaft and inspect all parts for wear or damage. Endplay in the input shaft is not permissible.
- B. Match mark all input cartridges relative to the housing. These must be reinstalled in the same side and position.
- C. Remove all input bearing cartridge capscrews
- D. Tap on the end of the input shaft to drive the opposite cartridge from the housing. Then drive the shaft in the opposite direction for removal of other cartridge.

NOTE: Keep shims with their respective cartridges you will be asked to reinstall or replace with same shim thickness during assembly.

F. Remove the input shaft and cam assembly through the large cartridge opening.



Fig. 10. Removing input shaft

- E. Use a wheel puller to remove the bearing cones from the input shaft.
- G. Remove the outer locknut from the cam to be removed.
- H. Place a block of wood on the floor, turn the shaft vertical with the cam to be removed facing downward. Gently lift and let drop repeatedly until the cam ships off the shaft. Repeat this procedure to remove the remaining cam.

WARNING! Be sure to keep feet clear of falling cam. Steel toe safety shoes are a must.

 Remove the input bearing cups from the cartridges with a pulley puller, by prying or by drilling and tapping for iack screws.



ASSEMBLY OF CAMCO'S RPP SERIES DRIVE

PRIOR TO REASSEMBLY

Clean and deburr all parts before reassembly.

Follow tightening torque and Loctite recommendations as outlined in the "General Service Manual".

ASSEMBLY

1. Use an arbor to press the bearing cups into the cartridges. Coat the outside of the cup and the bore of the cartridge with an anti-sieze lubricant prior to pressing. Fill cavity of cartridges with bearing grease recommended in the "General Service Manual".

2. ASSEMBLING INPUT SHAFT

A. Use arbor to press the cams onto shaft. Be sure the key is installed into the shaft first. Apply anti-sieze lubricant to shaft and bore prior to pressing. The bore of the cam should be heated prior to pressing, if a heat gun is available.



Fig. 11. Pressing cam onto shaft

- B. Use a spanner wrench to install the cam locknuts. Adjust nuts to center cams on shaft.
- C. Use an arbor to press the bearing cones onto the shaft. Coat the shaft and bearing bore with anti-sieze lubricant prior to pressing. The bore of the bearing should be heated prior to pressing if a heat gun in available.
- D. Install the input cartridges. Be sure to install the same exact shims or equivalent height as was removed in disassembly.
- E. Line up match marks.
- F. Tighten cartridge mounting screws.
- G. If endplay exists remove an equal amount of shims from each side until there is a small amount of drag from preloading the bearings. In rare instances it may be necessary to remachine the cartridges if all shims have been removed and endplay still exists.

3. LIFT FOLLOWER WHEEL INSTALLATION

- A. Use an arbor to press the bearing cones onto the shaft. Coat shaft and bearing bore with anti-sieze lubricant prior to pressing. The bore of the bearing should be heated prior to pressing if a heat gun in available.
 - B. Insert the shaft through the bottom access opening.
- C. Place input shaft so that the lift cam is in dwell position.
- D. Position followers in cam track.
- E. Install the eccentric cartridges. Be sure to install the same exact shims or equivalent height as was removed in disassembly.



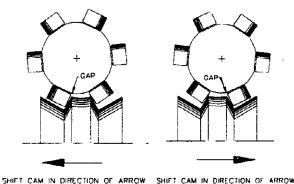
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- F. Line up match marks. (Cam repositioning may be required at this point. See "Setting of cams".)
- G. Tighten cartridge mounting screws.
- H. If endplay exists remove an equal amount of shims from each side until there is a small amount of drag from preloading the preloading the bearings. In rare instances it may be necessary to remachine the cartridges if all shims have been removed and endplay still exists.
- I. Loosen cartridge capscrews for later cam setting.

4. SETTING LIFT CAM

CAUTION: This mechanism is designed to operate with adjacent followers in close contact along their entire width with the surface of the cam during the dwell period. Unless this condition is achieved by proper installation, the mechanism will not transmit its rated load, and furthermore, serious damage to the cam and output shaft will occur.

- A. Place the cams in dwell (keyway facing up).
- B. Rotate the tops of both eccentric cartridges toward the output shaft until the followers touch the cam.
- C. Shift the cam axially until two adjacent followers are in full contact with the cam rib. This will also require adjustment of the eccentric input cartridges along with axial adjustment of the cam.
 - 1) If there is a gap at the root of the follower the cam should be shifted toward that follower.
 - 2) If there is a gap at the tip of the follower the cam should be shifted away from that follower.





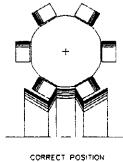


Fig. 12. Setting cam

- D. Apply "Prussian Blue" to the entire cam track.
- E. Rotate the camshaft slowly with a small handcrank to ensure that:
 - Both rollers are in contact with the cam rib in dwell. Look for uniform bluing pattern.
 - 2. You do not encounter unusual resistance in motion. The bluing pattern should be fairly uniform from side to side during motion. If a patch of bluing is worn off the outside of the cam rib on one side of the cam and not the other, shift the cam a .002 to .005 inch in the direction of the worn side. Do not overshift the cam or knocking will occur.
 - The cam bluing should never be worn off the leading or exit edges of the cam ribs. If so this indicates that the cam is not adjusted properly.



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- 4. There should be no looseness in any dwell. If there is adjust the eccentric cartridges to slightly preload the loosest dwell.
- F. Tighten the locknuts and secure with Loctite #242 as specified in the "General Service Manual". If lockwashers are used on your model, bend the tangs over the nut to insure locking.
- G. Tighten the eccentric cartridge capscrews.
- H. Double check for endplay in output shaft. Endplay is not permissible in the output shaft.
- I. Scribe a line on the housing and cartridges for later realignment.
- J. Disassemble and remove the lift shaft for output shaft installation and cam setting.

4. ASSEMBLY OF OUTPUT SHAFT

- A. Install new output bearing onto the output follower wheel. Tap into place alternating from side to side to prevent binding. Apply anti-sieze lubricant to the bore of the bearing prior to installation.
- B. Replace bearing clamp washers and capscrews.
- C. Place the input shaft so that the rotary cam is in dwell position.
- D. Use a hoist to place the output follower wheel into the housing. Be sure to position the followers on the cam track as described in "Cam Setting" instructions. The bearing will rest on the housing flange.
- E. Install the bearing retainer. Be sure to replace the exact shim thickness as removed in disassembly.

F. Install the retainer capscrews but leave loose for cam setting.

6. SETTING ROTARY CAM

NOTE: The list shaft mechanism must be removed prior to setting the rotary cam.

- A. Place the cams in dwell (keyway facing up).
- B. While pivoting on one dowel pin, rotate the output towards the input shaft as much as the clearance holes in the bearing retainer will allow.
- C. Shift the cam axially until two adjacent followers are in full contact with the cam rib. This will also require adjustment of the bearing retainer along with axial adjustment of the cam.
 - 1. If there is a gap at the root of the follower the cam should be shifted toward that follower(see fig.12).
 - 2. If there is a gap at the tip of the follower the cam should be shifted away from that follower(see fig. 12).
- D. Apply "Prussian Blue" to the entire cam track.
- `E. Rotate the camshaft slowly with a small handcrank to ensure that:
 - Both rollers are in contact with the cam rib in dwell. Look for uniform bluing pattern.
 - 2) That at the center of the cross over track the follower is free.
 - 3) You do not encounter unusual resistance in motion. The bluing pattern should be fairly uniform from side to side during motion. If a patch of bluing worn off the outside of the cam rib on one side of the cam and not the other, shift the cam a .002 to .005 inch in the direction of the worn side.



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- NOTE: Do not overshift the cam or knocking will occur
- 4) The cam bluing should never be worn off the lead-in or exit edges of the cam ribs. If so this indicates that the cam is not adjusted properly
- There should be no looseness in any dwell. If there is adjust the retaining ring to slightly preload the loosest dwell.
- F Tighten the locknuts and secure with Loctite #242 as specified in the "General Service Manual" if lockwashers are used on your model, bend the tangs over the nut to insure locking.
- G. Tighten retainer capscrews.
- H. Drill and ream the remaining hole in the output retaining ring to accept the next larger dowel pin. Install new dowel.
- 7 Reinstall the lift shaft and eccentric cartridges. Align the scribe lines, tighten the capscrews and dowel the cartridges in place.
- 8. Grease pack the main output bearing with lubricant specified in the "General Service Manual"

9.INSTALLING CENTER LIFT SHAFT

- A. Insert the center guide shaft/arm mounting assembly into the center hole of the output shaft. Align the arm mounting assembly with the outer guide shafts and continue insertion.
- B. Install the lift spool on the center shaft from the lower access opening. Install the flat head capscrew used to secure the spool to the shaft. Be sure the lift follower is engaged in the spool.

- 10. Reinstall the access covers with a new gasket, to insure against leakage. It is recommended you also apply "General Electric silicone rubber RTV-6" to the housing and cover
- 11 Install new oil seals as described in the "General Service Manual"
- 12. Fill the index drive with the recommended oil to the level indicator. See "General Service Manual". Too high an oil level will cause no damage. Too low a level may result in unit failure.





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HOW TO ORDER PARTS

Please refer to parts list shown in this manual. This parts list is for a standard Index Drive. If you feel your drive is nonstandard or you are in doubt you should contact CAMCO Customer Service at (708) 459-5200 and request a Bill of Material for your specific unit based on serial number CAMCO maintains records on all units for a period of ten years.

You may order parts per the standard Bill of Material even if your unit is nonstandard. CAMCO's order entry people will review the closed order file based on the following information and supply you with the correct part.

REQUIRED INFORMATION

- 1 Original purchase order number (if available)
- 2. Customer name (original purchaser of drive)
- 3. Model number (located on name plate)
- 4 Serial number (located on name plate)
- 5. Approximate date of purchase.

TO ORDER PARTS contact CAMCO "Order Entry Department" Wheeling, Illinois Phone (708) 459-5200 or FAX #708-459-3064

- A. Describe the parts required and the 14 digit part number as listed in the Standard Bill of Materials or a Special Bill of Materials pertaining to your unit. State if you are using a Standard or Special bill of material.
- B. Give as much of the above required information as possible.

ON WARRANTY

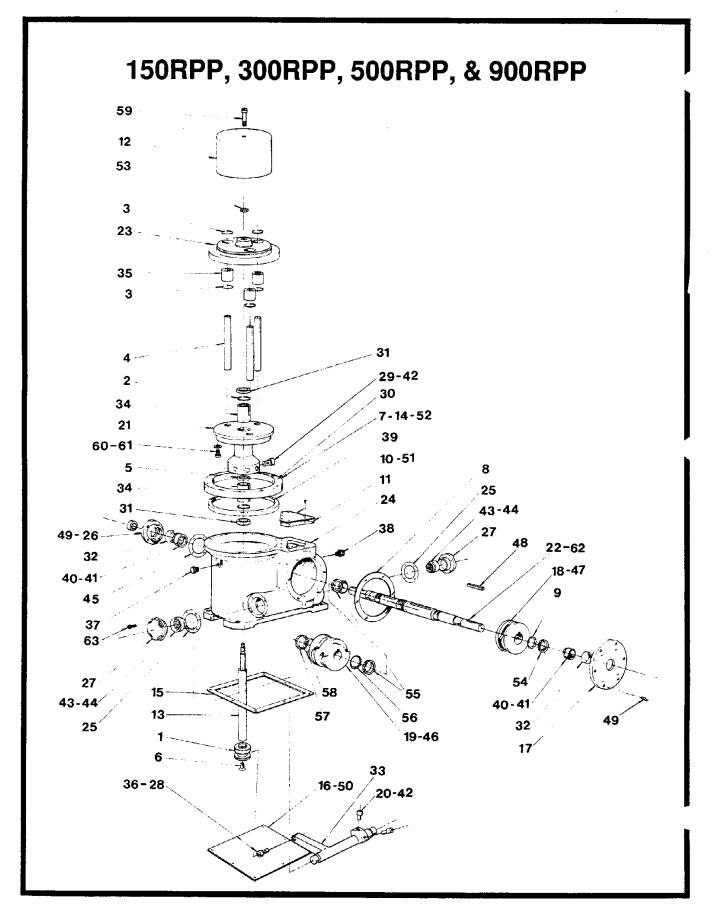
Replacement parts CAMCO will send freight prepaid via most practical means.

CAMCO will issue a "Returned Material Authorization Number" (RMA#) for the return of defective parts for inspection. CAMCO will bill customer for repair parts. When inspection of returned parts has been completed and determined to be a warranty problem, CAMCO will issue a credit to the customer for the repair parts and freight charges.

ON NON-WARRANTY

Replacement or spare parts, with approved credit, are sent F.O.B. our plant Wheeling, Illinois.





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PARTS LIST FOR 150RPP CAMBOT (STANDARD CONFIGURATION)

| I <u>TEM NO.</u> | PART NUMBER | DESCRIPTION |
|---|------------------|--|
| 1 | . 07B36357009999 | LIFT SPOOL |
| | . 95A33029210000 | |
| 3 | | NOT USED ON 150RPP (USE BUTTON |
| | | HEAD CAPSCREWS #8-32 X 1/4 LG TO |
| | | SECURE GUIDE BEARINGS) |
| 4 | .07A44467009999 | GUIDE SHAFT |
| 5 | .07A36383009000 | SPACER |
| | | FLAT HEAD SCREW, SELF LOCKING |
| 7 * | . 07A36375018800 | SHIM, OUTPUT .002 THK |
| | . 07A36375028800 | |
| | . 07A36375038800 | |
| _ | . 07A36376018800 | |
| | .07A36376028800 | |
| | . 07A36376038800 | |
| | . 95A26010050000 | |
| | . 07A39456000000 | • |
| | . 07A39434000000 | |
| | . 07B44480009999 | |
| | . 07B44479009999 | • |
| | . 07B36326009999 | |
| | . 07B36378000000 | |
| | . 07B36377009600 | |
| | . 07C36380003021 | |
| | | LIFT CAM (CONTACT CAMCO FOR |
| 40 | | ASSISTANCE IN CAM SELECTION) ROTARY CAM (CONTACT CAMCO FOR |
| 19 | | ASSISTANCE IN CAM SELECTION) |
| 20* | . 82C33150010003 | |
| 1 | | FOLLOWER WHEEL (FOR ALL EXCEPT 4 STOP) |
| 2.1 | | FOLLOWER WHEEL (4 STOP ONLY) |
| 22 | | INPUT SHAFT (W/OR W/O REDUCER) |
| | . 07B36346009999 | · · · · · · · · · · · · · · · · · · · |
| | . 07G36277001002 | |
| | . 24A17674018800 | |
| l e e e e e e e e e e e e e e e e e e e | . 24A17674028800 | · |
| | . 24A17674038800 | |
| 26 | . 07C36380003021 | CARTRIDGE, OPEN INPUT |
| 27 | . 24B28402003012 | CARTRIDGE, CLOSED ECC |
| 28 | . 42C07311210001 | . CAM FOLLOWER CFH 34 5 |
| 29 <i>.</i> | . 82C33150010003 | . CAM FOLLOWER CFH 285-3 |
| 30* | . 84A36360000000 | . OIL SEAL C/R 33645 |
| 31* | . 84D07329050000 | OIL SEAL C/R 6204 |
| 32* | . 84A36361000000 | OIL SEAL C/R 7513 |
| 33 | . 07C36324004002 | . FOLLOWER WHEEL LIFT SHAFT |
| | | BEARING, LINEAR THOM SUPER 10 |
| i . | . 86A42714030000 | |
| 36 | . 95A26008010000 | . LOCKNUT, ESNA NTE 5/16-24 |
| <u> </u> | | |



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PARTS LIST FOR 150RPP CONTINUED

| 37 | 9 | 95A33000010000 | AIR VENT (BREATHER) |
|-----|------------|------------------|-----------------------------|
| 38 | 9 | 95A33001010000 | SIGHT GLASS |
| 39* | 8 | 36A36362000000 | BEARING KAYDON KB035XPOL |
| 40° | 8 | 36A36363000021 | BEARING CONE 07079 |
| 41* | 8 | 86D07328170022 | BEARING CUP 07196 |
| 42 | <i></i> 9 | 95A26012070000 | SSS OVL PT 10-24 X 3/8 |
| 43* | 8 | 86D07328060021 | BEARING CONE A5069 |
| 44* | 8 | 86D07328060022 | BEARING CUP A5144 |
| 45* | | 7A36376018800 | |
| • | <i></i> 0 | 7A36376028800 | SHIM, INPUT .005 THK |
| • | C | 07A36376038800 | SHIM, INPUT .010 THK |
| 46 | |)25K225 | KEY 1/4 SQ X 2 1/4 LG |
| 47 | | 025K150 | KEY 1/4 SQ X 1 1/2 LG |
| 48 | | M06K187 | KEY 6MM SQ X 1 7/8 LG |
| 49 | 9 | 95A08089000000 | SPECIAL LARGE HEAD CAPSCREW |
| 50 | 9 | 95A26003150000 j | BHCS 10-24 X 1/2 |
| 51 | 9 | 95A26003140000 | BHCS 10-24 X 3/8 |
| 52 | 9 | 95A26000320000 | SHCS 10-24 X 1 |
| 53 | <i>.</i> 9 | 99J22413080000 | LOCKNUT BH01 |
| 54 | 9 | 95A26009050000 | LOCKNUT PN-05 |
| 55 | 9 | 95A26009060000 | LOCKNUT PN-06 |
| 56 | 9 | 95A26010060000 | LOCKWASHER W 06 |
| 57 | 9 | 95A26009050000 | LOCKNUT PN-05 |
| 58 | 9 | 95A26010050000 | LOCKWASHER W 05 |
| 59 | 9 | 95A26003150000 | BHCS 10-24 X 1/2 |
| 60 | | 95A26000270000 | |
| 61 | 9 | 95A26021210000 | FLATWASHER 6018 |
| 62 | | | NOT USED ON 150RPP |
| 63 | 9 | 95A26003150000 | BHCS 10-24 X 1/2 |
| | | | |

^{*} Indicates parts supplied with Spare Parts Kit #150RPP SPK



PARTS LIST FOR 300RPP CAMBOT (STANDARD CONFIGURATION)

| ITEM NO. | PART NUMBER | DESCRIPTION |
|----------|------------------|--|
| | | |
| 1 | . 05B37127000000 | LIFT SPOOL |
| | . 95A33030150000 | |
| | . 95A33032170000 | |
| | . 05J32192009999 | |
| | | |
| _ | | FLAT HEAD SCREW, SELF LOCKING |
| | . 05B23863018800 | |
| | . 05B23863028800 | |
| | . 05B23863038800 | |
| | . 05B23875000000 | |
| | | |
| - | . 05B23866009600 | |
| | . 05B23867000000 | |
| | . 05B35875009999 | |
| | . 05B37128000000 | |
| - | .05C23852008915 | |
| | . 05C23865000000 | |
| | . 05C23864009500 | |
| | . 05B23874003121 | |
| | | . LIFT CAM (CONTACT CAMCO FOR |
| 10 | | ASSISTANCE IN CAM SELECTION) |
| 10 | | . ROTARY CAM (CONTACT CAMCO FOR |
| 10 | | ASSISTANCE IN CAM SELECTION) |
| 20* | . 82C33150020003 | · · · · · · · · · · · · · · · · · · · |
| | | . FOLLOWER WHEEL (FOR BUT 4 STOP) |
| | | FOLLOWER WHEEL (4 STOP ONLY) |
| 22 | | . INPUT SHAFT (W/OR W/O 2" REDUCER) |
| | | . INPUT SHAFT 2" REDUCER & 15 DHL SIDE 1 |
| | | . INPUT SHAFT 2" REDUCER & 15 DHL SIDE 2 |
| 23 | . 05C35476009999 | |
| | 05G23856001004 | |
| | . 24A17961018800 | |
| | 24A17961028800 | |
| | 24A17961038800 | • |
| | 03B22858003121 | · |
| | 24B17670003112 | |
| 1 | 82C33150020003 | |
| | 82C33150020003 | |
| | 84D07329780000 | |
| Į. | 84D07329170000 | |
| _ | 84D07329190000 | |
| | | FOLLOWER WHEEL LIFT SHAFT |
| | | . BEARING, LINEAR THOM SUPER 16 |
| | 99J23842010000 | , , , , , , , , , , , , , , , , , , , |
| | 95A26012060000 | |
| | 99A24032000000 | |
| | 95A33001010000 | · · · · · · · · · · · · · · · · · · · |
| L | | |

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PARTS LIST FOR 300RPP CONTINUED

| 39* | 86A23862000003 BRG KAYDON KF060XPOL |
|-----|---|
| 40* | 36A22882000021 BEARING CONE 4T-LM67049A |
| 41* | 86A22882000022 BEARING CUP 4T-LM67010 |
| 42 | 95A26012070000 SSS OVL PT 10-24 X 3/8 |
| 43* | 86D07328070021 BEARING CONE A6075 |
| 44* | 36D07328070022 BEARING CUP A6157 |
| 45* | 48A06080018800 SHIM, INPUT .002 THK |
| • | 48A06080028800 SHIM, INPUT .005 THK |
| • | 48A06080038800 SHIM, INPUT .010 THK |
| 46 | 037K238 KEY 3/8 SQ X 2 3/8 LG |
| 47 | 031K131 KEY 3/16 SQ X 1 3/16 LG |
| 48 | · NOT SUPPLIED WITH 300RPP |
| 49 | 95A26000380000 SHCS 1/4-20 X 1/2 |
| 50 | 99A18874020000 HHCS 1/4-20 X 1/2 |
| 51 | 95A26003220000 BHCS 10-32 X 1/2 |
| 52 | 95A26000440000 SHCS 1/4-20 X 1 1/2 |
| 53 | 95A26009040000 LOCKNUT PN-04 |
| 54 | 95A26009070000 LOCKNUT PN-07 |
| 55 | 95A26009080000 LOCKNUT PN-08 |
| 56 | , NOT USED ON 300RPP |
| 57 | 95A26009080000 LOCKNUT PN-08 |
| 58 | NOT USED ON 300RPP |
| 59 | 95A26000470000 SHCS 1/4-20 X 2 1/4 |
| 60 | 95A26000390000 SHCS 1/4-20 X 5/8 |
| 61 | 05A23858000000 FLATWASHER FW 1 |
| 62 | 95A33032170000 RETAINING RING 5108-125 |
| 63 | 95A26003210000 BHCS 10-32 X 3/8 |
| | |

^{*} Indicates parts supplies with Spare Parts Kit #300RPP SPK



Service Manual

PARTS LIST FOR 500RPP CAMBOT (STANDARD CONFIGURATION)

| 1 03837187000000 LIFT SPOOL 2 95A33030210000 RETAINING RING N5008-200 3 95A33031420000 RETAINING RING 5100-156 4 03A33568009999 GUIDE SHAFT 5 03A23411099000 SPACER 6 95A37189000000 FLAT HEAD SCREW, SELF LOCKING 7 56B26168018800 SHIM, OUTPUT .002 THK - 56B26168028800 SHIM, OUTPUT .005 THK 8 03B23298000000 GASKET, CART LARGE 9 NOT USED ON 500RPP 10 03B22887009600 GASKET, CART LARGE 10 03B22887009600 GASKET, CART LARGE 11 03B30862009999 COVER, LOCKNUT 12 03B30862009999 COVER, TOP 13 03B37188000000 GASKET, COKNUT COVER 14 556C2349500300 BEARING RETAINER 15 03C22879000000 GASKET, BOTTOM COVER 16 03C22879000100 GASKET, BOTTOM COVER 17 03C2287900100 BOTTOM COVER 18 LIFT CAM (CONTACT CAMCO FOR ASSISTANCE IN CAM SELECTION) 19 ROTARY CAM (CONTACT CAMCO FOR ASSISTANCE IN CAM SELECTION) 20 2C33566024008 FOLLOWER CHE 288-3 21 03C33566024008 FOLLOWER WHEEL (FOR BUT 4 STOP) 03C33566024008 FOLLOWER WHEEL (FOR BUT 4 STOP) 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D33563007002 INPUT SHAFT, 2.5* RED. & 15 DHL SIDE 2 03D3356300000 GAM FOLLOWER CFH 288-3 04 GARDARD G | I <u>TEM NO.</u> | PART NUMBER | DESCRIPTION |
|--|------------------|------------------|--|
| 6 95A37189000000 FLAT HEAD SCREW, SELF LOCKING 7* 56B26168018800 SHIM, OUTPUT .002 THK * 56B26168028800 SHIM, OUTPUT .005 THK * 56B26168038800 SHIM, OUTPUT .010 THK 8* 03B23298000000 GASKET, CART LARGE 9 NOT USED ON 500RPP 10 03B22887009600 COVER, LOCKNUT 11* 03B22888000000 GASKET, LOCKNUT 11* 03B22888000000 GASKET, LOCKNUT COVER 12 03B30862009999 COVER, TOP 13 03B37188000000 GUIDE SHAFT, CENTER 14 56C23495009300 BEARING RETAINER 15* 03C22878009600 GASKET, BOTTOM COVER 16 03C22878009600 BOTTOM COVER 17 03C23297003121 CART, OPEN INPUT 18 LIFT CAM (CONTACT CAMCO FOR ASSISTANCE IN CAM SELECTION) 19 ROTARY CAM (CONTACT CAMCO FOR ASSISTANCE IN CAM SELECTION) 20* 82C33150040003 CAM FOLLOWER CFH 288-3 21 03C33556014006 FOLLOWER WHEEL (FOR BUT 4 STOP) 03C33566024008 FOLLOWER WHEEL (FOR BUT 4 STOP) 03C33566024008 FOLLOWER WHEEL (FOR BUT 4 STOP) 22 03D39437007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 2 23 03C33570009999 DIAL MOUNTING PLATE 24 03G27869001004 HOUSING 25* 48A06080018800 SHIM, .005 THK * 48A06080028800 SHIM, .005 THK * 48A0608028800 SHIM, .005 THK * 48A0608028800 SHIM, .005 THK * 48A0608028800 SHIM, .010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, OPEN INPUT 28 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 12350 31* 84D07329860000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A2663012010000 SSS OVL PT 1/4-20 X 1/4 | 2 | . 95A33030210000 | RETAINING RING N5008-200 RETAINING RING 5100-156 GUIDE SHAFT |
| * 56826168028800 SHIM, OUTPUT .005 THK * 56826168038800 SHIM, OUTPUT .010 THK 8 * 0382398000000 GASKET, CART LARGE 9 | 6 | . 95A37189000000 | FLAT HEAD SCREW, SELF LOCKING |
| 8 * 03B23298000000 GASKET, CART LARGE 9 | • | . 56B26168028800 | . SHIM, OUTPUT .005 THK |
| 10 | 8* | . 03B23298000000 | . GASKET, CART LARGE |
| 12 | 10 | . 03B22887009600 | . COVER, LOCKNUT |
| 15" 03C22879000000 GASKET, BOTTOM COVER | 12 | . 03B30862009999 | . COVER, TOP |
| 17 03C23297003121 CART, OPEN INPUT 18 | 15* | .03C22879000000 | . GASKET, BOTTOM COVER |
| ASSISTANCE IN CAM SELECTION) ROTARY CAM (CONTACT CAMCO FOR ASSISTANCE IN CAM SELECTION) 20* 82C33150040003 CAM FOLLOWER CFH 288-3 21 03C33566014006 FOLLOWER WHEEL (FOR BUT 4 STOP) 03C33566024008 FOLLOWER WHEEL (4 STOP ONLY) 22 03D39437007002 INPUT SHAFT (W/OR W/O 2.5 REDUCER) 03D33562007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 2 23 03C33570009999 DIAL MOUNTING PLATE 24 03G27869001004 HOUSING 25* 48A06080018800 SHIM, .002 THK * 48A06080028800 SHIM, .005 THK * 48A0608038800 SHIM, .010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 12350 31* 84D07329860000 OIL SEAL C/R 12350 33* 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 17 | . 03C23297003121 | . CART, OPEN INPUT |
| ASSISTANCE IN CAM SELECTION) 20* 82C33150040003 CAM FOLLOWER CFH 288-3 21 03C33566014006 FOLLOWER WHEEL (FOR BUT 4 STOP) | | | ASSISTANCE IN CAM SELECTION) |
| 21 03C33566014006 FOLLOWER WHEEL (FOR BUT 4 STOP) 03C33566024008 FOLLOWER WHEEL (4 STOP ONLY) 22 03D39437007002 INPUT SHAFT (W/OR W/O 2.5 REDUCER) 03D33562007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 2 23 03C33570009999 DIAL MOUNTING PLATE 24 03G27869001004 HOUSING 25* 48A06080018800 SHIM, .002 THK * 48A06080028800 SHIM, .005 THK * 48A06080038800 SHIM, .010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329860000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | | | . ASSISTANCE IN CAM SELECTION) |
| 03D33562007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 03D33563007002 INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 2 23 03C33570009999 DIAL MOUNTING PLATE 24 03G27869001004 HOUSING 25* 48A06080018800 SHIM, .002 THK * 48A06080028800 SHIM, .010 THK * 48A06080038800 SHIM, .010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | | . 03C33566014006 | . FOLLOWER WHEEL (FOR BUT 4 STOP) |
| 23 03C33570009999 DIAL MOUNTING PLATE 24 03G27869001004 HOUSING 25* 48A06080018800 SHIM, .002 THK * 48A06080028800 SHIM, .010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 22 | 03D33562007002 | . INPUT SHAFT, 2.5" RED. & 15 DHL SIDE 1 |
| 25* 48A06080018800 SHIM, 002 THK - 48A06080028800 SHIM, 005 THK - 48A06080038800 SHIM, 010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | | | . DIAL MOUNTING PLATE |
| * 48A06080038800 SHIM, 010 THK 26 03B22858003121 CART, OPEN INPUT 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 25* | 48A06080018800 | . SHIM, .002 THK |
| 27 03B22859003112 CART, CLOSED ECC 28 82C33150040003 CAM FOLLOWER CFH 288-3 29 82C33150040003 CAM FOLLOWER CFH 288-3 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | * | 48A06080038800 | . SHIM, .010 THK |
| 30* 84D07329860000 OIL SEAL C/R 95052 31* 84D07329200000 OIL SEAL C/R 12481 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 27 28 | 03B22859003112 | . CART, CLOSED ECC . CAM FOLLOWER CFH 288-3 |
| 32* 84D07329190000 OIL SEAL C/R 12350 33 03C37186000000 FOLLOWER WHEEL LIFT SHAFT 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 30* | 84D07329860000 | . OIL SEAL C/R 95052 |
| 34* 86A22875010000 BEARING, LINEAR THOM SUPER 20 35* 86A26463000000 LINEAR BEARING L-16-MM 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 32* | 84D07329190000 | . OIL SEAL C/R 12350 |
| 36 95A26012110000 SSS OVL PT 1/4-20 X 1/4 | 34* | 86A22875010000 | BEARING, LINEAR THOM SUPER 20 |
| | 36 | 95A26012110000 | . SSS OVL PT 1/4-20 X 1/4 |



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PARTS LIST FOR 500RPP CONTINUED

| 38 | 95A33001010000 | SIGHT GLASS |
|----------------|------------------------|------------------------------|
| 39 | 8 6A24320000000 | BRG KAYDON KG090XPOL |
| 40* | 86A22882000021 | BEARING CONE 4T-LM67049A |
| 41* | 86A22882000022 | BEARING CUP 4T-LM67010 |
| 42 | 95A26012110000 | SSS OLV PT 1/4-20 X 1/4 |
| 43* | 86A22882000021 | BEARING CONE 4T-LM67049A |
| 44* | | BEARING CUP 4T-LM67010 |
| 45* | 48A06080018800 | SHIM, .002 THK |
| • . | | SHIM, .005 THK |
| • . | 48A06080038800 | SHIM, .010 THK |
| 46 | | KEY 3/8 SQ X 3 1/2 LG |
| 47 | 031K175 | KEY 3/16 SQ X 1 3/4 LG |
| 48 | | NOT SUPPLIED WITH 500RPP |
| 49 | | SHCS 1/4-20 X 1/2 |
| 50 | 99A18874020000 | HHCS 1/4-20 X 1/2 |
| 51 | 95A26003220000 | BHCS 10-32 X 1/2 |
| 52 | 95A26000580000 | SHCS 5/16-18 X 1 1/2 |
| 53 | 95A26009040000 | LOCKNUT PN-04 |
| 54 | 95A26009070000 | LOCKNUT PN-07 |
| 55 | 95A26009080000 | LOCKNUT PN-08 |
| 56 | | NOT USED ON 500RPP |
| 57 | 95A26009080600 | LOCKNUT PN-08 |
| 58 | | NOT USED ON 500RPP |
| 5 9 | 95A26000660000 | SHCS 5/16-18 X 3 1/2 |
| 60 | 95A26000690000 | SHCS 3/8-16 X 3/4 |
| 61 | 99A24322000000 | FLATWASHER FW 3 |
| 62 | 95A33032170000 | RETAINING RING 5108-125 |
| 63 | 95A08089000000 | SPECIAL LARGE HEAD CAPSCREWS |

^{*} Indicates parts supplies with Spare Parts Kit #500RPP SPK



Service Manual

PARTS LIST FOR 900RPP CAMBOT (STANDARD CONFIGURATION)

| ITEM NO. | PART NUMBER | DESCRIPTION |
|-------------|------------------|---|
| | . 09B37221000000 | LIFT SPOOL |
| | . 95A33030350000 | |
| | . 95A33031500000 | |
| | . 09A30404009999 | |
| | . 09A32465009000 | |
| | | FLAT HEAD SCREW, SELF LOCKING |
| | .09B29064018800 | |
| | . 09B29064028800 | |
| | , 09B29064038800 | |
| | . 09B29068000000 | |
| | . 95A26010120000 | |
| | . 09B32175000000 | |
| | . 09B32176000000 | |
| | . 09B32405002000 | |
| | . 09B37222000000 | |
| | . 09C29030009300 | |
| | . 09C29057009600 | |
| | . 09C29058000000 | |
| | . 09C29066003011 | |
| | | LIFT CAM (CONTACT CAMCO FOR |
| 10 | | ASSISTANCE IN CAM SELECTION) |
| 19 | | ROTARY CAM (CONTACT CAMCO FOR |
| 10 | | ASSISTANCE IN CAM SELECTION) |
| 20* | . 82C10457060003 | · · · · · · · · · · · · · · · · · · · |
| | | FOLLOWER WHEEL (FOR BUT 4 STOP) |
| | | FOLLOWER WHEEL (4 STOP ONLY) |
| 22 | 09D39516007002 | INPUT SHAFT (W/OR W/0 3.5 REDUCER) |
| | | INP. SHAFT, 3.5" RED. & 35 DHL SIDE 1 |
| | 09D33676007002 | . INP. SHAFT, 3.5" RED. & 35 DHL SIDE 2 |
| 23 | . 09D33301009999 | DIAL MOUNTING PLATE |
| 24 | . 09G28935001002 | HOUSING |
| 25* | . 30B02669018800 | . SHIM, .002 THK |
| • | . 30B02669028800 | . SHIM, .005 THK |
| • | . 30B02669038800 | . SHIM, .010 THK |
| | . 30B07728003121 | |
| | 30B07731003112 | |
| | 82C10457060003 | |
| | 82C10457060003 | |
| | 84A29060000000 | |
| | 84A29061000000 | |
| | 84D07329370000 | |
| | | . FOLLOWER WHEEL LIFT SHAFT |
| | | . BEARING, LINEAR THOM SUPER 32 |
| 35* | 86A24061000000 | . LINEAR BEARING L-20-MM |
| | | |



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PARTS LIST FOR 900RPP CONTINUED

| 36A 95A26005440000 SSS CUP PT 1/4-20 X 3/8 |
|--|
| 36B 95A26006200000 SSS CONE PT 1/4-20 X 3/8 |
| 37 99A24032000000 AIR VENT (BREATHER) |
| 38 95A33001020000 SIGHT GLASS |
| 39 86A29059000000 BRG KAYDON KG110XP0L |
| 40* 86D07328340022 BEARING CUP 3720 |
| 41* 86D07328440021 BEARING CONE 3767 |
| 42 95A26005440000 SSS CUP PT 1/4-20 X 3/8 |
| 95A26006200000 SSS CONE PT 1/4-20 X 3/8 |
| 43* 86D07328340022 BEARING CUP 3720 |
| 44* 86D07328440021 BEARING CONE 3767 |
| 45* 30B02669018800 SHIM, .002 THK |
| * 30B02669028800 SHIM, .005 THK |
| * 30B02669038800 SHIM, .010 THK |
| 46 062K475 KEY 5/8 SQ X 4 3/4 LG |
| 47 |
| 48 |
| 49 95A26000710000 SHCS 3/8-16 X 1 |
| 50 95A26002010000 HHCS 1/4-20 X 1/2 |
| 51 95A26003280000 BHCS 1/4-20 X 1/2 |
| 52 95A26000750000 SHCS 3/8-16 X 2 |
| 53 95A26009070000 LOCKNUT PN-07 |
| 54 95A26009120000 LOCKNUT PN-12 |
| 55 95A26009140000 LOCKNUT PN-14 |
| 56 95A26010140000 LOCKWASHER W 14 |
| 57 95A26009140000 LOCKNUT PN-14 |
| 58 95A26010140000 LOCKWASHER W 14 |
| 59 95A26000660000 SHCS 5/16-18 X 3 1/2 |
| 60 95A26000710000 SHCS 3/8-16 X 1 |
| 61 99A24322000000 FLATWASHER FW 3 |
| 62 NOT USED ON 900RPP |
| 63 95A08116000000 SPECIAL LARGE HEAD CAPSCREWS |

^{*} Indicates parts supplies with Spare Parts Kit #900RPP SPK







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