## Table of Contents

**Description:**

**Page Number:**

**Pictorial Index to Parts** (immediatey follows “Table of Contents”) ........................................ PIP-1, PIP-2

1. **Center Case Parts**
   - Insert-98/99 One Piece Cover ................................................................. 1-1
   - NL Drive Screw-98/99 Device ................................................................. 1-2
   - Control Link Pin-Touch Bar Device .................................................. 1-2
   - Tailpiece Guide ..................................................................................... 1-3

2. **Dogging Assembly Parts**
   - Hex Dogging Replacement Kit ............................................................. 2-1
   - Hex Dogging Shaft ............................................................................. 2-1
   - Dogging Adapter Spring .................................................................. 2-2
   - Dogging Spring ................................................................................. 2-3
   - Cylinder Dog Actuator .................................................................... 2-4
   - CD Dogging Plug ................................................................................ 2-4

3. **Mechanism Case Parts**
   - Mechanism Case Mounting Bracket .................................................. 3-1
   - Anti-Rattle Spring-33/35/98/99 .......................................................... 3-2
   - Cover Plate Stop ................................................................................ 3-2
   - Shock Absorber and Holder Assembly ............................................. 3-3
   - Pushbar Guide (front) ......................................................................... 3-4
   - Pushbar Guide (rear) .......................................................................... 3-5

4. **Vertical Rod Parts**
   - Rod Extension Connector ................................................................. 4-1
   - Extension Rod Drill Template-2227/98/9927 ....................................... 4-1
   - 98/9927 Rod Guide Assembly ............................................................. 4-2
   - 1/8 x 7/16 Roll Pin ............................................................................. 4-2

5. **Surface Vertical Latch Parts**
   - 299 Strike Shim .................................................................................. 5-1
   - Shim-264/299F/499F Strike ................................................................. 5-1
   - Bolt Return Spring ............................................................................. 5-2
   - 98/9927 Auxiliary Bolt Spring ............................................................... 5-3
### Table of Contents (continued)

<table>
<thead>
<tr>
<th>Description</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6. Concealed Vertical Latch Parts</strong></td>
<td></td>
</tr>
<tr>
<td>Ratchet Lever Spring</td>
<td>6-1</td>
</tr>
<tr>
<td>#10 External Tooth Lock Washer</td>
<td>6-2</td>
</tr>
<tr>
<td>Compression Spring-33/3547</td>
<td>6-2</td>
</tr>
<tr>
<td><strong>7. Mounting Hardware, Screws, and Retaining Rings</strong></td>
<td></td>
</tr>
<tr>
<td>325 Sex Bolt Assembly</td>
<td>7-1</td>
</tr>
<tr>
<td>425 Sex Bolt Assembly</td>
<td>7-1</td>
</tr>
<tr>
<td>10-12 x 10-24 x1 PTHCS</td>
<td>7-2</td>
</tr>
<tr>
<td>10-24 x 3/4 PPHMS</td>
<td>7-2</td>
</tr>
<tr>
<td>10-24 x 1PPHMS</td>
<td>7-3</td>
</tr>
<tr>
<td>8-32 x 1/4 UFPHMS</td>
<td>7-3</td>
</tr>
<tr>
<td>10-24 x 3/4 UFPHMS</td>
<td>7-4</td>
</tr>
<tr>
<td>1/4-20 x 3/4 UFPHMS</td>
<td>7-4</td>
</tr>
<tr>
<td>8-18 x 1/2 UFPHSM</td>
<td>7-5</td>
</tr>
<tr>
<td>12-24 Mechanism Case Screw</td>
<td>7-5</td>
</tr>
<tr>
<td>Truarc Retaining Ring T5304-18</td>
<td>7-6</td>
</tr>
<tr>
<td>10-32 x 1/4 UFPHMS with Nylock</td>
<td>7-7</td>
</tr>
<tr>
<td>10-24 x 3/4 FPHMS</td>
<td>7-7</td>
</tr>
<tr>
<td><strong>8. Trim Parts</strong></td>
<td></td>
</tr>
<tr>
<td>Shear Pin</td>
<td>8-1</td>
</tr>
<tr>
<td>Cylinder Retaining Cup</td>
<td>8-2</td>
</tr>
<tr>
<td>992L LiftSpring</td>
<td>8-2</td>
</tr>
<tr>
<td>Hex Stud-994/996 Trim</td>
<td>8-3</td>
</tr>
<tr>
<td>1/4-20 Hex AStud</td>
<td>8-3</td>
</tr>
<tr>
<td>10-24 x 1 3/8PPHMS</td>
<td>8-4</td>
</tr>
<tr>
<td>Truarc Retaining Ring 5160-42</td>
<td>8-4</td>
</tr>
<tr>
<td>Wave Spring Washer</td>
<td>8-5</td>
</tr>
<tr>
<td>1/4-20 x 5/8 Socket Set Screw</td>
<td>8-6</td>
</tr>
<tr>
<td><strong>Appendix A: Device Lubrication</strong></td>
<td>A-1</td>
</tr>
<tr>
<td><strong>Appendix B: Latch Lubrication</strong></td>
<td>B-1</td>
</tr>
<tr>
<td><strong>Index by Part Number</strong></td>
<td>IPN-1, IPN-2</td>
</tr>
</tbody>
</table>
Pictorial Index to Parts

The number in each circle below is the page where information on the part is found. Use the "Table of Contents" to find items by part description. Use the "Index by Part Number" in the back of the manual to find items by part number.
Pictorial Index to Parts (continued)

The number in each circle below is the page where information on the part is found. Use the “Table of Contents” to find items by part description. Use the “Index by Part Number” in the back of the manual to find items by part number.
This page is intentionally left blank.
1. Center Case Parts

**Part Name:** NL Drive Screw-98/99 Device  
**Kit Location:** Bottom drawer #6

**Part Number:** 970441-89 unit; 090074-00 bulk, 10/pkg.

**Use:** 98/99 and 22 devices; BE, EO, DT, NL, and Rigid applications only

**Installation:** Use Phillips head screwdriver to turn cam so trim lock slide is in full up position for RHR or LHR application. Install drive screw in cam using 5/64” hex wrench.

---

**Part Name:** Control Link Pin-Touch Bar Device  
**Kit Location:** Top drawer #8

**Part Number:** 090031-00 bulk, 10/pkg.

**Use:** 98/99, 33/35, and 22 devices

**Installation:** Align holes of main control link and control linkage. Insert control link pin.
1. Center Case Parts

Part Name: Tailpiece Guide  

Kit Location: Top drawer #18

Part Number: 050156-00 bulk, 10/pkg.

Use: 98/99 and 22 device keyed (rim cylinder) trim applications

Installation: Snap pronged end of tailpiece guide into cross-slot of master cylinder cam on underside of center case. Guide cylinder tailpiece into funnel portion of tailpiece guide when installing trim.
2. Dogging Assembly Parts

Part Name: Hex Dogging Replacement Kit
Kit Location: Top compartment

Part Number: 15-445-00
Use: To replace existing dogging assemblies

Installation: Remove old dogging assembly, replace with new dogging assembly, and secure with 2 screws.

Part Name: Hex Dogging Shaft
Kit Location: Bottom drawer #5

Part Number: 090040-00 bulk, 2/pkg.

Installation: Insert end of shaft that is closest to groove into dogging adapter. Push down until shaft snaps into place.
2. Dogging Assembly Parts

Part Name: Dogging Adapter Spring

Part Number: 090042-00 bulk, 2/pkg.


Kit Location: Bottom drawer #2

Installation: Pinch legs of spring together and insert into dogging adapter so legs of spring align with grooves in dogging adapter (A). Insert dogging adapter with spring through bottom of dogging plate (B). Snap dogging hook over protruding end of dogging adapter and legs of spring (C). Spring holds dogging adapter, dogging plate, and dogging hook together (D).
2. Dogging Assembly Parts

Part Name: Dogging Spring
Kit Location: Bottom drawer #3

Part Number: 090041-00 bulk, 2/pkg.


Installation: Hold loop of spring and insert spring through large hole in end of dogging plate (A and B). Hook short end of spring into hole in dogging hook from top of dogging hook (C). Slide loop of spring from large hole (D) into smaller hole in end of dogging plate (E) and align loop vertically (F).
2. Dogging Assembly Parts

**Part Name:** Cylinder Dog Actuator  
**Kit Location:** Bottom drawer #4

**Part Number:** 090045-00 bulk, 2/pkg.  
**Use:** 98/99 and 33/35 cylinder dogging assemblies

---

**Part Name:** CD Dogging Plug  
**Kit Location:** Bottom drawer #11

**Part Number:** 090046-00 bulk, 2/pkg.  
**Use:** 98/99 and 33/35 cylinder dogging assemblies made after Sept. 1997

---

**Installation:**
1. Pull hex dogging shaft out of dogging adapter (A).
2. Snap cylinder dog actuator into place over dogging adapter spring and dogging adapter (B).
3. Insert CD dogging plug into hex hole in dogging adapter (C) and press until dogging adapter spring snaps into top groove of CD dogging plug (D).
3. Mechanism Case Parts

**Part Name:** Mechanism Case Mounting Bracket  
**Kit Location:** Top compartment

**Part Number:** 050524-00 (unit)  
**Use:** 98/99 and 33/35 devices

**Part Name:** End Cap Screw Package  
**Kit Location:** Middle 13

**Part Number:** 900597-00 bulk, 2/pkg.  
**Use:** 98/99 and 33/35 devices

**Installation:** Slide bracket into mechanism case making sure that Face A is flush against cover plate. Secure bracket to door. Attach mechanism end cap to bracket (end cap covers bracket).
3. Mechanism Case Parts

Part Name: Anti-Rattle Spring-33/35/98/99

Part Number: 090036-00 bulk, 10/pkg.

Use: 98/99 and 33/35 devices

Kit Location: Top drawer #11

Installation: Without spring, slide cover plate into mechanism case until flush (A and B). Insert front tabs on spring into channel in underside of cover plate (B). Push spring in and make sure rear tabs also engage channel. Continue pushing spring in until vertical tabs on back of spring are flush with end of cover plate (C).

A

B

C

2” Minimum

Anti-rattle clip
3. Mechanism Case Parts

**Part Name:** Shock Absorber and Holder Assembly  
**Kit Location:** Top drawer #17

**Part Number:** 050491-00 unit

**Use:** 98/99 and 33/35 devices

**Installation:** Place tip of plunger against action rod stop (A). Press in until plunger is fully retracted (B). Rotate shock absorber and holder so tabs slide over top of open guide base (C). Push down so tabs snap into cutouts (C and D).
3. Mechanism Case Parts

Part Name: Pushbar Guide (front)  
Kit Location: Middle drawer #12

Part Number: 090049-00 bulk, 10/pkg.

Use: 98/99 and 33/35 devices

Installation: Remove pushbar from mechanism case. Slide pushbar guide onto front of pushbar. Hold pushbar guide on pushbar and install pushbar on bellcranks. Slide base plate into mechanism case.

Also replaces older style pushbar guide (part number 971065-00). To replace, slide mechanism case away from center case. Remove cover mounting bracket from center case. Unhook older style pushbar guide from cover mounting bracket and discard. Replace cover mounting bracket. Install new pushbar guide.
3. Mechanism Case Parts

Part Name: Pushbar Guide (rear)  
Part Number: 090049-00 bulk, 10/pkg.  
Use: 98/99 and 33/35 devices  
Kit Location: Middle drawer #12


NOTE

This pushbar guide replaces the older style pushbar guide (part number 971066-00) shown below.
4. Vertical Rod Parts

**Part Name:** Rod Extension Connector  
**Kit Location:** Top drawer #14

**Part Number:** 090075-00 bulk, 4/pkg.

**Use:** 98/9927 and 33/3527 devices on doors taller than 7 feet

**Installation:** Drive out roll pin (963935-89) and remove latch case rod connector from latch end of existing rod (A). Insert rod extension connector into latch end of existing rod and either end of extension rod and secure with roll pins (B). Insert latch case rod connector into latch end of extension rod and secure with roll pin (C).

---

**Part Name:** Extension Rod Drill Template-2227/98/9927  
**Kit Location:** Top drawer #7

**Part Number:** 969298-89 unit

**Use:** To locate roll pin hole on 98/9927, 33/3527, and 2227 vertical rods

**Installation:** Slide template on rod until bottom of rod and bottom of template are flush. Drill 1/8” diameter hole through hole in template.
4. Vertical Rod Parts

**Part Name:** 98/9927 Rod Guide Assembly

**Kit Location:** Bottom drawer #14

**Part Number:** 112063-32 unit

**Use:** 98/9927 and 2227 devices made after 1993

[NOTE]

112063-32 finish is stainless. Other finishes available.

**Installation:** Slide over rod after rods have been adjusted. Place half way between device center case and latch. Secure to door with screws.

---

**Part Name:** 1/8 x 7/16 Roll Pin

**Kit Location:** Top drawer #10

**Part Number:** 090054-00 bulk, 10/pkg.

**Use:** 98/9927 and 33/3527 vertical rods

**Installation:** Line up holes in rod and latch case rod connector (A) or in rod and rod extension connector (B) and drive roll pin through hole.
5. Surface Vertical Latch Parts

**Part Name:** 299 Strike Shim  
**Kit Location:** Top drawer #16

**Part Number:** 970321-89 unit

**Use:** 299 strikes to decrease spacing between strike and latch

**Installation:** Position shim as shown. Prepare center hole per chart.

---

**Part Name:** Shim-264/299F/499F Strike  
**Kit Location:** Bottom drawer #15

**Part Number:** 945521-89 unit

**Use:** 264, 299F, and 499F strikes to decrease spacing between strike and latch

**Installation:** Position shim with teeth facing strike and closest to strike roller. Mate teeth with notches in bottom of strike. Prepare center hole per chart.

---

**Metal Frame**
- Prep: #25 drill and #10-24 tap
- Screw: 10-24 x 3/4 FPHMS

**Wood Frame**
- Prep: 1/8" pilot drill x 1" deep
- Screw: 10 x 11/2 FPHWS
5. Surface Vertical Latch Parts

Part Name: Bolt Return Spring

Part Number: 090065-00 bulk, 10/pkg.

Use: 98/9927/27-F and 2227/27-F top and bottom latches
     98/9947/47-F and 33/3547/47-F bottom latches

Kit Location: Bottom drawer #9

Installation: For 98/9947/47-F and 33/3547/47-F latch, remove Truarc retaining ring, latch pin, and rod connecting screw for accessibility. Replace after installing spring.

98/9947/47-F and 33/3547/47-F Bottom Latch

Rear view. Spring fits behind latch bolt axle. Front view. Latch case not shown for clarity.

98/9927/27-F and 2227/27-F Top and Bottom Latches

(98/9927/27-F Top Latch Shown)

Rear view: Spring fits behind latch bolt axle. Front view: Latch case not shown for clarity.
5. Surface Vertical Latch Parts

**Part Name:** 98/9927 Auxiliary Bolt Spring  
**Kit Location:** Top drawer #5

**Part Number:** 090076-00 bulk, 10/pkg.

**Use:** 98/9927 and 2227 top latches

**Installation:** Place one end of spring over auxiliary bolt tang. Compress spring and place free end of spring over latch case housing tang.
6. Concealed Vertical Latch Parts

Part Name: Ratchet Lever Spring
Kit Location: Middle drawer #7

Part Number: 090069-00 bulk, 2/pkg.
Use: 98/9947/47-F and 33/3547/47-F top latches

Installation: Place small end of spring over ratchet lever tang. Place large end of spring over pin in latch case.
6. Concealed Vertical Latch Parts

Part Name: #10 External Tooth Lock Washer  
Kit Location: Top drawer #3

Part Number: PKGSRV.1007 bulk, 10/pkg.

Use: To secure 98/9947 and 33/3547 latch mounting bracket

Installation: Use washer with screws that attach latch mounting bracket to door.

Part Name: Compression Spring-33/3547  
Kit Location: Middle drawer #3

Part Number: 090066-00 bulk, 10/pkg.

Use: 98/9947 and 33/3547 top latch

Installation: Place small end of spring on latch bolt linkage tang, other end on latch case tang.

Latch bolt linkage tang (inside latch case)  
Latch case tang  
Spring Location  
Latch case shown cut away for clarity
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 325 Sex Bolt Assembly  
**Kit Location:** Top drawer #4

**Part Number:** 034902-32 bulk, 2/pkg.

**Use:** For mounting 98/99, 33A/35A, and 22 latches and latch mounting brackets made after Nov. 1998

**Installation:** Drill mounting holes per template supplied with device, 13/32” diameter outside, 5/16” diameter inside. Hammer sex bolt through 13/32” diameter hole. #325 sex bolt takes 1/4-20 thread screw.

---

**Part Name:** 425 Sex Bolt Assembly  
**Kit Location:** Top drawer #49

**Part Number:** 034302-32 bulk, 2/pkg.

**Use:** For mounting 98/99 and 22 device surface latches and latch mounting brackets made before Nov. 1998; for mounting 98/99, 33/35, and 22 device end cap brackets and center cases (EO applications)

**Installation:** Drill mounting holes per template supplied with device, 13/32” diameter outside, 1/4” diameter inside. Hammer sex bolt through 13/32” diameter hole. #425 sex bolt takes 10-20 thread screw. (See diagram above)
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 10-12 x 10-24 x 1 PTHCS                  **Kit Location:** Top drawer #13

**Part Number:** 900919-00 bulk, 2/pkg.

**Use:** 98/9927 and 2227 device rod guide assembly

**Installation:** Use screws to mount 9927 rod guide assembly to door. For wood door, drill 1/8” diameter pilot holes. For metal door, use #25 drill and #10-24 tap.

---

**Part Name:** 10-24 x 3/4 PPHMS                  **Kit Location:** Middle drawer #2

**Part Number:** PKGSRV.1015 bulk, 10/pkg.

**Use:** 98/99, 33/35, and 22 device mechanism case mounting brackets

**Installation:** Use screws to mount 98/99, 33/35, and 22 device mechanism case mounting brackets to door. For metal door surface mount, prepare door with #25 drill and #10-24 tap. Screws also can be used with #425 sex bolts on 1 3/4” door.

---

98/99 and 33/35 device mechanism case bracket

22 device mechanism case bracket
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 10-24 x 1 PPHMS  
**Kit Location:** Middle drawer #9

**Part Number:** PKGSRV.1016 bulk, 20/pkg.

**Use:** 98/99, 33/35, and 22 device center cases

**Installation:** Use screws to mount 98/99, 33/35, and 22 device center cases to 1 3/4" hollow metal doors. For surface mount, prepare door with #25 drill and #10-24 tap. Also can be used for through-mounting to trim and with #425 sex bolts.

---

**Part Name:** 8-32 x 1/4 UFPHMS  
**Kit Location:** Top drawer #6

**Part Number:** PKGSRV.1018 bulk, 20/pkg.

**Use:** 98/9927 and 33/3527 latch case covers

**Installation:** Place latch case cover over latch case and secure with two screws.
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 10-24 x 3/4 UFPHMS

**Kit Location:** Top drawer #1

**Part Number:** PKGSRV.1019 bulk, 10/pkg.

**Use:** 98/9927 and 2227 latches and latch mounting brackets made before Nov. 1998

**Installation:** Use with #425 sex bolts. Drill mounting holes per template supplied with device, 13/32” diameter outside, 1/4” diameter inside. Hammer sex bolt through 13/32” diameter hole.

---

**Part Name:** 1/4-20 x 3/4 UFPHMS

**Kit Location:** Bottom drawer #7

**Part Number:** PKGSRV.1020 bulk, 10/pkg.

**Use:** 98/9927 and 2227 latches and latch mounting brackets made after Nov. 1998

**Installation:** Use with #425 sex bolts. Drill mounting holes per template supplied with device, 13/32” diameter outside, 1/4” diameter inside. Hammer sex bolt through 13/32” diameter hole. (See diagram above.)
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 8-18 x 3/8 UFPHSMS

**Part Number:** 900892-32 bulk, 4/pkg.

**Use:** 98/99 center case cover

**Installation:** Secure center case cover with four screws.

**NOTE**

900892-32 finish is chrome. Other finishes available.

---

**Part Name:** 12-24 Mechanism Case Screw

**Part Number:** 090073-00 bulk, 10/pkg.

**Use:** 98/99 and 33/35 devices; secures center case cover mounting bracket to mechanism case

**Installation:** Remove two pine tree clips and replace with screws.

98/99 device shown
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** Truarc Retaining Ring T5304-18

**Part Number:** 090107-00 bulk, 10/pkg.

**Use:**
- 98/99 and 22 rim latch bolt axle
- 98/9927 and 98/9947 center case

**Kit Location:** Top drawer #2

**Installation:** Use flat blade screwdriver to push ring over groove in pin so ring snaps in place.

![Diagram of 98/99 and 22 rim latch bolt axle (98/99 shown)]

![Diagram of 98/9927 and 98/9947 center case]
7. Mounting Hardware, Screws, and Retaining Rings

**Part Name:** 10-24 x 3/4 FPHMS with Nylock  
**Kit Location:** Bottom drawer #1

**Part Number:** PKGSRV.1023 bulk, 10/pkg.  
**Use:** 299 strike

**Installation:** Prepare mounting holes per template supplied with device using #25 drill and #10-24 tap.
8. Trim Parts

Part Name: Shear Pin

Kit Location: Middle drawer #10

Part Number: PKGSRV.1010 bulk, 50/pkg.

Use: 991, 992, and 994 trim made after Jan. 1993

Installation: This procedure is for 992L R&V trim. For other trim, see trim instructions.

1. Remove trim from door.
2. Remove two lift springs (A).
3. Push slider up, then pull out (B).
4. Use retaining ring pliers to remove retaining ring (C).
5. Remove washer and cam (D).
7. Place lever in desired position, RHR or LHR (F).
8. Insert new shear pin with head pointed down and tighten shear pin set screw.
10. Install washer, retaining ring, slider, and two lift springs.
8. Trim Parts

**Part Name:** Cylinder Retaining Cup  
**Kit Location:** Top drawer #15

**Part Number:** 968201-89 unit  
**Use:** 880, 990, 991, 992, and 994 trim with rim cylinders

**Installation:** With trim off door, insert cylinder through trim. Install cylinder retaining cup over trim so tabs on cylinder retaining cup align with notches on trim. Secure cylinder retaining cup to cylinder with screws.

**Part Name:** 992/994 Lift Spring  
**Kit Location:** Bottom drawer #13

**Part Number:** 971573-00 unit; PKGSRV.1011 bulk, 20/pkg.  
**Use:** 992/994 trim

**Installation:** See pictures below for 992 and 994 spring installation.
8. Trim Parts

**Part Name:** Hex Stud-994/996 Trim  
**Kit Location:** Top drawer #4

**Part Number:** 971585-89 unit

**Use:** 994 and 996 trim

**Installation:** Screw stud into trim housing. Do not over-tighten.

---

**Part Name:** 1/4-20 Hex Stud  
**Kit Location:** Middle drawer #5

**Part Number:** 971440-89 unit; PKGSRV.1012 bulk, 10/pkg.

**Use:** 991 and 992 trim made after March 1997

**Installation:** Screw stud into trim housing. Do not over-tighten.
8. Trim Parts

**Part Name:** Truarc Retaining Ring 5160-42  
**Kit Location:** Middle drawer #6

**Part Number:** 964285-00 unit; PKGSRV.1013 bulk, 10/pkg.

**Use:** To secure cam on 991 and 992 trim

**Installation:** Use retaining ring pliers to open retaining ring. Slip ring over shaft and position ring in groove in shaft.

**Part Name:** 10-24 x 1 3/8 PPHMS  
**Kit Location:** Top drawer #12

**Part Number:** PKGSRV.1022 bulk, 10/pkg.

**Use:** To mount 991 and 992 trim on 1 3/4” doors

**Installation:** Bolt through device and door to hex studs on trim.
8. Trim Parts

Part Name: Wave Spring Washer

Part Number: 090103-00 bulk, 10/pkg.

Use: Used on 992 and 370 series controls to eliminate excessive lever movement perpendicular to the face of the door.

Installation: This procedure is for 992L R&V trim. For other trim, see trim instructions.

1. Remove trim from door.
2. Remove two lift springs (A).
3. Push slider up, then pull out (B).
4. Use retaining ring pliers to remove retaining ring (C).
5. Replace or install washer (D).
6. Install retaining ring, slider, and two lift springs.
8. Trim Parts

**Part Name:** 1/4-20 x 5/8 Socket Set Screw  
**Kit Location:** Bottom drawer #10

**Part Number:** 964353-76 unit  
**Use:** 992 trim

**Installation:** Loosen or remove set screw. Slide the R&V finger in or out to align the mark for the door thickness with the surface indicated. When aligned, tighten the set screw with a 1/8” hex wrench.
Appendix A: Device Lubrication

Devices are lubricated before delivery. Additional periodic lubrication will increase device life by inhibiting excessive wear of moving parts. Lubricate every four months with Duralube or equivalent. Recommended surfaces for lubrication are shown in the diagrams below. **Lubricate indicated surfaces on both sides of device.**

- Under dogging hook
- Action rod spring and action rod (this end only)
- Inside bellcrank notches
- Bellcrank-rivet
- Bellcrank arm (through slot in open guide base)
- Contact points between housing rivet, bellcrank, and center case housing
- Contact point between bellcrank and open guide base
- Contact points between rod links and chassis
- Outside ends of latch bolt pin
- Slot in trim lock tumbler (both ends)
- Contact points between main control link and center case housing
- Under master cylinder cam

**CAUTION**

Use only Duralube or equivalent for lubrication.
Appendix B: Latch Lubrication

Latches are lubricated before delivery. Additional periodic lubrication will increase latch life by inhibiting excessive wear of moving parts. Lubricate every four months with Duralube or equivalent. Recommended surfaces for lubrication are marked with ● in the diagrams below.

⚠️ CAUTION
Use only Duralube or equivalent for lubrication.

![Diagram showing lubrication points for different latch types](image-url)
# Index by Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Description</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>034302-32 (bulk)</td>
<td>425 Sex Bolt Assembly</td>
<td>7-1</td>
</tr>
<tr>
<td>034902-32 (bulk)</td>
<td>325 Sex Bolt Assembly</td>
<td>7-1</td>
</tr>
<tr>
<td>050156-00 (bulk)</td>
<td>Tailpiece Guide</td>
<td>1-3</td>
</tr>
<tr>
<td>050491-00 (unit)</td>
<td>Shock Absorber and Holder Assembly</td>
<td>3-3</td>
</tr>
<tr>
<td>050524-00 (unit)</td>
<td>Mechanism Case Mounting Bracket</td>
<td>3-1</td>
</tr>
<tr>
<td>090031-00 (bulk)</td>
<td>Control Link Pin-Touch Bar Device</td>
<td>1-2</td>
</tr>
<tr>
<td>090036-00 (bulk)</td>
<td>Anti-RattleSpring-33/35/98/99</td>
<td>3-2</td>
</tr>
<tr>
<td>090040-00 (bulk)</td>
<td>Hex Dogging Shaft</td>
<td>2-1</td>
</tr>
<tr>
<td>090041-00 (bulk)</td>
<td>Dogging Spring</td>
<td>2-3</td>
</tr>
<tr>
<td>090042-00 (bulk)</td>
<td>Dogging Adapter Spring</td>
<td>2-2</td>
</tr>
<tr>
<td>090045-00 (bulk)</td>
<td>Cylinder Dog Actuator</td>
<td>2-4</td>
</tr>
<tr>
<td>090046-00 (bulk)</td>
<td>CD Dogging Plug</td>
<td>2-4</td>
</tr>
<tr>
<td>090049-00 (bulk)</td>
<td>Pushbar Guide (front)</td>
<td>3-4</td>
</tr>
<tr>
<td>090049-00 (bulk)</td>
<td>Pushbar Guide (rear)</td>
<td>3-5</td>
</tr>
<tr>
<td>090054-00 (bulk)</td>
<td>1/8 x 7/16 Roll Pin</td>
<td>4-2</td>
</tr>
<tr>
<td>090059-00 (bulk)</td>
<td>10-32 x 1/4UFPHMS with Nylock</td>
<td>7-7</td>
</tr>
<tr>
<td>090065-00 (bulk)</td>
<td>Bolt Return Spring</td>
<td>5-2</td>
</tr>
<tr>
<td>090066-00 (bulk)</td>
<td>Compression Spring-33/3547</td>
<td>6-2</td>
</tr>
<tr>
<td>090069-00 (bulk)</td>
<td>Ratchet Lever Spring</td>
<td>6-1</td>
</tr>
<tr>
<td>090073-00 (bulk)</td>
<td>12-24 Mechanism Case Screw</td>
<td>7-5</td>
</tr>
<tr>
<td>090074-00 (bulk)</td>
<td>NL DriveScrew-98/99 Device</td>
<td>1-2</td>
</tr>
<tr>
<td>090075-00 (bulk)</td>
<td>Rod Extension Connector</td>
<td>4-1</td>
</tr>
<tr>
<td>090076-00 (bulk)</td>
<td>98/9927 Auxiliary Bolt Spring</td>
<td>5-3</td>
</tr>
<tr>
<td>090103-00 (bulk)</td>
<td>Wave Spring Washer</td>
<td>8-5</td>
</tr>
<tr>
<td>090107-00 (bulk)</td>
<td>Truarc Retaining Ring T5304-18</td>
<td>7-6</td>
</tr>
<tr>
<td>112063-32 (unit)</td>
<td>98/9927 Rod Guide Assembly (stainless)</td>
<td>4-2</td>
</tr>
<tr>
<td>15-445-00 (unit)</td>
<td>Hex Dogging Replacement Kit</td>
<td>2-1</td>
</tr>
<tr>
<td>900892-00 (bulk)</td>
<td>8-18 x 3/8UFPHSMS (chrome)</td>
<td>7-5</td>
</tr>
<tr>
<td>900919-00 (bulk)</td>
<td>10-12 x 10-24 x 1 PTHCS</td>
<td>7-2</td>
</tr>
<tr>
<td>900597-00 (bulk)</td>
<td>End Cap Mounting Screw</td>
<td>3-1</td>
</tr>
<tr>
<td>945521-89 (unit)</td>
<td>Shim-264/299F/499F Strike</td>
<td>5-1</td>
</tr>
<tr>
<td>964285-00 (unit)</td>
<td>Truarc Retaining Ring 5160-42</td>
<td>8-4</td>
</tr>
<tr>
<td>964353-76 (unit)</td>
<td>1/4-20 x 5/8 Socket Set Screw</td>
<td>8-6</td>
</tr>
<tr>
<td>968201-89 (unit)</td>
<td>Cylinder Retaining Cup</td>
<td>8-2</td>
</tr>
<tr>
<td>969298-89 (unit)</td>
<td>Extension Rod Drill Template-2227/98/9927</td>
<td>4-1</td>
</tr>
<tr>
<td>971585-89 (unit)</td>
<td>Hex Stud-994/996 Trim</td>
<td>8-3</td>
</tr>
<tr>
<td>970321-89 (unit)</td>
<td>299 Strike Shim</td>
<td>5-1</td>
</tr>
<tr>
<td>970441-89 (unit)</td>
<td>NL DriveScrew-98/99 Device</td>
<td>1-2</td>
</tr>
<tr>
<td>971440-89 (unit)</td>
<td>1/4-20 Hex Stud</td>
<td>8-3</td>
</tr>
</tbody>
</table>
# Index by Part Number (continued)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Description</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>971573-00 (unit)</td>
<td>992L Lift Spring</td>
<td>8-2</td>
</tr>
<tr>
<td>PKGSRV.1007 (bulk)</td>
<td>#10 External Tooth Lock Washer</td>
<td>6-2</td>
</tr>
<tr>
<td>PKGSRV.1010 (bulk)</td>
<td>Shear Pin</td>
<td>8-1</td>
</tr>
<tr>
<td>PKGSRV.1011 (bulk)</td>
<td>992L Lift Spring</td>
<td>8-2</td>
</tr>
<tr>
<td>PKGSRV.1012 (bulk)</td>
<td>1/4-20 Hex Stud</td>
<td>8-3</td>
</tr>
<tr>
<td>PKGSRV.1013 (bulk)</td>
<td>Truarc Retaining Ring 5160-42</td>
<td>8-4</td>
</tr>
<tr>
<td>PKGSRV.1015 (bulk)</td>
<td>10-24 x 3/4 PPHMS</td>
<td>7-2</td>
</tr>
<tr>
<td>PKGSRV.1016 (bulk)</td>
<td>10-24 x 1 PPHMS</td>
<td>7-3</td>
</tr>
<tr>
<td>PKGSRV.1018 (bulk)</td>
<td>8-32 x 1/4 UFPHMS</td>
<td>7-3</td>
</tr>
<tr>
<td>PKGSRV.1019 (bulk)</td>
<td>10-24 x 3/4 UFPHMS</td>
<td>7-4</td>
</tr>
<tr>
<td>PKGSRV.1020 (bulk)</td>
<td>1/4-20 x 3/4 UFPHMS</td>
<td>7-4</td>
</tr>
<tr>
<td>PKGSRV.1022 (bulk)</td>
<td>10-24 x 1 3/8 PPHMS</td>
<td>8-4</td>
</tr>
<tr>
<td>PKGSRV.1023 (bulk)</td>
<td>10-24 x 3/4 FPHMS</td>
<td>7-7</td>
</tr>
</tbody>
</table>