BULLETIN 281B
VOL. 1

TECHNICAL MANUAL
MODEL 35
KEYBOARD SEND-RECEIVE (KSR) AND
RECEIVE-ONLY (RO)
TELETYPETRITER SETS

TELETYPETE®
CORPORATION
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INTRODUCTION

Bulletin 281B is a technical manual that provides descriptive, installing and maintenance information for the Model 35 Keyboard Send-Receive (KSR) and Receive-Only (RO) Teletypewriter Sets and their components.


Each volume is made up of a group of appropriate independent sections. They are separately identified by title and section number, and the pages of each section are numbered consecutively, independent of other sections.

The identifying number of a section, a 9-digit number, appears at the top of each page of the section, in the left corner of the left-hand pages and the right corner of the right-hand pages. The sections are placed in the manual in ascending numerical order.

To locate specific information refer to the table of contents on the following page. Find the name of the involved component in column one and the title of the section in column two. The correct 9-digit section number will then be found in column three. Turn to page one of the section indicated, where the contents of that section will be found (except where a section is small and does not require a listing of contents).

The sections comprising this bulletin are now stocked separately and may be individually ordered if the entire bulletin is not needed.
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### FILING INSTRUCTIONS

1. The following filing instructions apply to changes sent to the field.

2. Asterisks (*) in the table of contents indicate changes.

3. When the issue of a section changes, replace the old issue with the attached new one.

4. In the case of addendums, turn to the affected section and follow the instructions on the first page of the attached addendum.

5. Replace the old table of contents with this new one.

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35 TYPING UNIT (LP)

LUBRICATION

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1. GENERAL

1.01 This section provides lubrication for the 35 typing unit. It is reissued to include lubrication for the paper jam alarm, recent engineering information and to update general format. Since it is an extensive revision, marginal arrows used to indicate changes have been omitted.
1.02 Lubricate the 35 typing unit as directed in this section. The line drawings indicate points to be lubricated and the type and quantity of lubricant to be used. Figures 1 and 2 illustrate the general areas of lubrication on the friction feed unit and Figure 3 shows the lubrication areas on the sprocket feed unit. Lubricate the typing unit prior to placing it in service. Relubricate after a few weeks to make sure that all points have received proper lubrication. Thereafter, lubricate the typing unit at intervals of 1500 hours or six months, whichever occurs first.

1.03 Use KS7470 oil at all locations where the use of oil is indicated. Use KS7471 grease at all locations where the use of grease is indicated.

1.04 Saturate all spring wicks and felt oilers. Thoroughly lubricate the friction surfaces of all moving parts. However, avoid over-lubrication which permits oil or grease to drip or be thrown on other parts. Take special care to prevent any oil or grease from getting between the selector armature and its magnetic pole faces. Keep all electrical contacts free of oil and grease.

1.05 Apply a thin film of grease to the teeth of the range scale knob assembly (knob and gear).

1.06 Apply a thick film of grease to all gears and the spacing trip lever bail cam plate.

1.07 Apply oil to all cams, including the camming surfaces of each clutch disc.

1.08 Grease the clutch shoe lever spring loops and completely saturate the internal mechanism of the clutch assembly with oil.

1.09 Apply a thin film of oil around the outer periphery of the dashpot cup and retainer. Avoid excessive lubrication that will obstruct the dashpot parts.

1.10 The photographs serve as a guide to mechanism locations on the unit. They are also keyed to the paragraph numbers of line drawings of particular mechanisms. Parts in the line drawings are shown in an upright position unless otherwise specified. References to left, right, top, bottom, front, rear, etc, apply to the unit in its normal operating position as viewed from the operator's position in front of the unit.

1.11 The illustration symbols indicate the following lubrication directions.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
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<tr>
<td>O1</td>
<td>Apply 1 drop of oil.</td>
</tr>
<tr>
<td>O2</td>
<td>Apply 2 drops of oil.</td>
</tr>
<tr>
<td>O3</td>
<td>Apply 3 drops of oil, etc.</td>
</tr>
<tr>
<td>G</td>
<td>Apply thin film of grease.</td>
</tr>
<tr>
<td>SAT</td>
<td>Saturate (felt oilers, washers, wicks) with oil.</td>
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Note: During each lubrication period, check the following adjustments in Section 574-220-700TC.

1. Printing Carriage Position
2. Printing Hammer Bearing Stud
3. Printing Hammer Stop Bracket (Also see note following this adjustment.)
4. Lower Draw Wire Rope
5. Dashpot Vent Screw (Check Dashpot Transfer Slide for ease of movement.)
Figure 1 - 35 Typing Unit, Friction Feed
Figure 2 - 35 Typing Unit, Friction Feed
2. **BASIC UNIT**

2.01 **Printing Area**

(Front View)

2.02 **Printing Mechanism**

(Top View)
SECTION 574-220-701TC

2.03 Printing Mechanism (continued)

(Front View)

2.04 Typebox Carriage Mechanism

(Rear View)
2.05 Code and Print Areas

2.06 Codebar Mechanism

- O1 Hook (Each End)
- O2 Guide Slots (Right, Center, and Left — 9 Bars)
- Spring
- Codebars
- O1 Hooks (Each End) (3 Places)
- O2 Engaging Surfaces
- Springs
- Guides

(Front View)
SECTION 574-220-701TC

2.07 Codebar Detents

2.08 Print Suppression Mechanism
2.09 Paper Feed Mechanism (Friction Feed)

- O1: Hooks (Each End)
- O2: Bearing Surface (Each End)
- G: Teeth (2 Gears)
- O2: Bearings (Each End)
- O1: Bearing Surfaces (Each End) (6 Rollers)
- O2: Bearing Surfaces (Each End)
- O2: Bearing Surfaces (Right and Left)
- O1: Hooks (Each End)
- O2: Bearing Surface
- O2: Bearing Surfaces (Each End)

(right Side, Rear View)

- Spring
- Platen Detent Bail
- Paper Finger Shaft
- Platen Gears
- Platen Shaft
- Paper Pressure Roller Shafts (Wipe Off Excess Oil)
- Paper Straightener Shaft
- Paper Straightener Levers
- Spring
- Release Lever
- Release Lever Link

2.10 Ribbon Area

(right Side, Rear View)

(Left Rear View)
2.11 Ribbon Feed Mechanism

![Diagram of Ribbon Feed Mechanism (Left Side View)]

- O1 Hooks (Each End)
- O2 Bearing Surface
- SAT Felt Washer
- O1 Hooks (Each End)
- O2 Engaging Surface
- Bearing Surface Ribbon Feed Lever
- O2 Bearing Surface Ribbon Spool Toggle
- SAT Felt Washer Ribbon Roller Shaft
- O1 Hooks (Each End) Ribbon Spool Shaft
- O2 Engaging Surface Ribbon Ratchet Wheel
- SAT Felt Washer Ribbon Spring
- O2 Bearing Surface Ribbon Detent Lever

![Diagram of Ribbon Feed Mechanism (Rear View)]

- SAT Felt Washers (2 Washers)
- O2 Bearing Surface
- O2 Teeth
- O1 Hooks (Each End)
- O2 Engaging Surface
- O2 Bearing Surfaces
- SAT Felt Washers Ribbon Feed Lever Bail
- O2 Bearing Surface Ribbon Reverse Lever
- O2 Teeth Ribbon Ratchet Wheel
- O2 Hooks (Each End) Spring
- O2 Engaging Surface Ribbon Detent Lever Shaft
- SAT Felt Washers Ribbon Detent Lever Shaft
- O1 Engaging Surface Ratchet Feed Lever Shaft

2.12 Ribbon Feed Mechanism (continued)

![Diagram of Ribbon Feed Mechanism (Left Side View)]

- O2 Bearing Surface
- O2 Engaging Surface
- O2 Teeth
- O2 Teeth Ribbon Reverse Spur Gear
- O2 Bearing Surface Ribbon Reverse Lever
- O2 Engaging Surface Ribbon Reverse Lever
- O2 Teeth Ribbon Reverse Lever

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2.13 Positioning Area

(Right Side View)
SECTION 574-220-701TC

2.14 Ribbon Feed Mechanism (continued)

(Right Side View)

(Rear View)

15 Ribbon Feed Mechanism (continued)

(Left Side View)
2.16 Vertical Positioning Mechanism

- O2 Bearing Surface
- SAT Felt Washer
- O1 Engaging Surfaces (4 Places)
- O1 Hooks (Each End)
- O2 Engaging Surface
- O2 Bearing Surface
- SAT Camming Surface
- SAT Felt Washers (2 Washers)
- O2 Bearing Surface (2 Places)
- O1 Hooks (Each End)
- SAT Felt Washers (2 Washers)
- O2 Ball Bearing
- SAT Felt Wick
- O1 Hooks (Each End)
- O2 Bearing Surface
- SAT Felt Washer (Not Illustrated)

(Ribbon Drive Link)

Vertical Positioning Lever

Vertical Positioning Locklever

Spring

Vertical Positioning Lever

Vertical Positioning Lever

Main Side Lever Follower Arm

Main Side Lever Follower Arm

Vertical Positioning Lever

Spring

Vertical Positioning Lever

Main Rocker Shaft

Spring Wick

Spring

Rocker Shaft Bracket

Rocker Shaft Bracket

(Left Side View)
2.17 Vertical Positioning Mechanism (continued)

SAT  Felt Washer  Vertical Positioning Lever

O2  Bearing Surface  Ribbon Drive Link

O2  Engaging Surface  Vertical Positioning Lever

O1  Engaging Surface  Vertical Positioning Lever

O1  Hooks (Each End)  Spring

O2  Bearing Surfaces (2 Places)  Vertical Positioning Lever

SAT  Felt Washer (2 Washers)  Main Side Lever Follower Arm

O2  Bearing Surface  Ribbon Drive Link

O1  Hooks (Each End)  Spring

O2  Bearing Surface  Codebar Clutch Trip Shaft Operating Lever

O2  Engaging Surface  Main Side Lever Follower Arm

SAT  Felt Washer  Codebar Clutch Trip Shaft Operating Lever Extension

SAT  Felt Washers (2 Washers)  Vertical Positioning Lever

O1  Hooks (Each End) (2 Springs)  Spring

SAT  Felt Wick  Spring Wick

O2  Bearing Surface  Rocker Shaft Bracket

O2  Ball Bearing  Main Rocker Shaft

(Right Side View)
2.18 Codebar Mechanism (continued)

- O2: Guide Slots
- O2: Engaging Surface
- O2: Bearing Guide Slots (8 Slots)
- O2: Roller Bearings (4 Rollers)
- O1: Hooks (Each End) (7 Springs)
- O2: Guide Slots (7 Slots)
- O2: Bearing Surfaces (2 Places)
- O2: Bearing Guide Slots (7 Slots)
- SAT: Felt Washer
- O3: Oil Hole

2.19 Selector Mechanism

- O2: Bearing Guide Slots (7 Slots)
- SAT: Felt Wick
- O2: Engaging Surfaces (7 Levers)
- O2: Guide Slots
- O2: Wick
- O2: Guide Slots
- O1: Hooks (Each End) (14 Springs)
- O2: Fill Cup (Avoid Air Lock)
- O2: Bearing Guide Slots (9 Slots)
SECTION 574-220-701TC

2.20 Selector Mechanism (continued)

G Teeth (2 Places)  Rangefinder Knob and Rack
O2 Slides (2 Places)  Rangefinder Mounting Rack
O2 Bearing Surface  Clutch Trip Lever
O1 Hooks (Each End)  Spring
(Right Side View)

2.21 Stunt Box Area

(Rear View)
2.22 Stunt Box Mechanism

- O2 Guide Slots (11 Levers)
- O2 Guide Slots (11 Pawls)
- SAT Each Felt Wick Function Pawl Springs
- O2 Guide Slots (11 Levers)
- O1 Hooks (Each End) (33 Springs)
- O2 Engaging Surfaces (Front and Rear) (11 Bars)
- O2 Guide and Engaging Surfaces
- O1 Hooks (Each End) Spring
- O2 Engaging Surface (11 Levers)
- O2 Bearing Surface Keyboard Lock-lever
- O2 Line Feed Slide Arm
- O2 Function Levers
- O2 Function Bars
- O2 Function Pawls

(Left Side View)
2.23 Stripper Blade Mechanism

(Rear View)

O2 Engaging Surface
Line Feed
Stripper Slide

O2 Guide Surfaces (2 Places)
Stripper Slide

O2 Guide Surfaces (Each End)
Stripper Blade

G Engaging Surfaces (2 Places)
Stripper Blade

O2 Engaging Surface
Stripper Bail

(Left Side View)

O2 Bearing Surfaces (2 Bearings)
Cam Arms

G Engaging Surfaces (Each Arm)
Contact Arm

G Engaging Surfaces (2 Arms)
Cam Arms

SAT Felt Washers (4 Washers)
Driving Cam

O2 Guide Slots (Each End)
Stripper Blade

G Camming Surfaces (2 Cams)
Driving Cam

SAT Felt Washer
Stripper Blade
Driving Arm

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2.24 Ribbon Reverse Mechanism

(Right Rear View)

2.25 Function Rocker Shaft Mechanism

(Left Rear View)
2.26 Function Reset Bail Mechanism

(Optical Reader)

(Optical Reader)

(Optical Reader)

(Optical Reader)

(Optical Reader)

Note: See 2.38 for photograph of the location of this mechanism.
2.28 Spacing Drum Mechanism

2.29 Dashpot Mechanism
2.30 Carriage Return Mechanism

SAT  Felt Oiler  Printing Track Guide
O2  Between Layers  Carriage Return Spring
G  Cam Disc Surface  Margin Indicator Cam Disc
O2  Bearing (Outer and Inner End)  Carriage Return Spring Drum Shaft
SAT  Felt Washer  Carriage Return Spring Drum Shaft
O1  Hooks (Each End)  Spring
SAT  Felt Wick  Spring Wick
O2  Bearing Surface  Tension Pulley Bail
O2  Cable Grooves (2 Places)  Carriage Return Spring Drum

(Left Front View)

2.31 Spacing Drum Feed Mechanism

O2  Engaging Surfaces (2 Places)  Automatic Carriage Return Bellcrank
O2  Bearing Surface  Automatic Carriage Return Bellcrank
O1  Hooks (Each End)  Spring
O2  Engaging Surface  Spacing Drum Feed Pawl Release Link
O2  Bearing Surfaces (2 Places)  Spacing Drum Feed Pawl Release Link
O2  Hooks (Each End)  Spring

(Front View)
2.32 Track Guide Mechanism

(Right Front View)

2.33 Horizontal Positioning Mechanism

(Right Front View)

(Left Front View)
2.34 Horizontal Positioning Mechanism (continued)

(Top View)

Hooks (Each End)    Spring
Felt Washer         Codebar Bellcrank
Engaging Surfaces   Horizontal Motion
(3 Slides)          Stop Slides

(Front View)

G
Engaging Surfaces   Shift Shock
(2 Slides)          Absorber Slides
Hooks (Each End)    Shock Absorber
Shock Absorber      Spring
Decelerating Slides

O1
Engaging Surfaces   Shift Slide
(2 Slides)          Driver Links
Bearing Surfaces    Shift Slide
(4 Places)          Drive Links
Felt Washers        Shift Slide
(5 Washers)         Drive Links

(Front View)

O2
Guiding Surface     Horizontal Positioning
Horiztonal          Locklever
Locklever Arm Roller
O2
Bearing Surface     Spring Wick
SAT
Felt Wick
O1
Hooks (Each End)    Spring
Hooks (Each End)
SAT
Felt Washer         Horizontal Positioning
Felt Washer         Locklever
SAT
Felt Washer
SECTION 574-220-701TC

2.35 Horizontal Positioning Drive Mechanism

(Front View)

2.36 Shift Mechanism

(Right Side View)

(Left Side View)
2.37 Oscillating Mechanism

O2 Bearing Surfaces (3 Places) Oscillating Rail Shift Link
O2 Bearing Surface Oscillating Rail
SAT Felt Washers (3 Washers) Pulleys
SAT Felt Washer Oscillating Rail Guide Arm

(Left Front View)

O2 Bearing Surface (3 Places) Oscillating Rail Shift Link
O2 Bearing Surface Oscillating Rail
SAT Felt Washers (3 Washers) Pulleys
SAT Felt Washer Oscillating Rail Guide Arm

(Right Front View)
2.38 Main Shaft Area

2.39 Main Shaft (Clutches, Gears, etc)

- Felt Washer
- Drive Link
- Internal Mechanism and Felt Wicks (3 Clutches)
- Clutch Assembly
- Teeth (4 Gears)
- Main Shaft Gears
- Bearing Surfaces (2 Clutches)
- Clutch Sleeves
- Ball Bearing
- Main Shaft Bearing
- Camming Surfaces (2 Discs)
- Clutch Discs
- Bearing Surface
- Drive Link Bearing
2.40 Main Shaft (Clutches, Gears, etc) (continued)

(Bottom View)

- SAT Felt Washers (2 Washers)
- SAT Internal Mechanism and Felt Wicks (3 Clutches)
- O2 Bearing Surfaces (2 Cams)
- O2 Ball Bearing
- O2 Bearing Surfaces (3 Clutches)
- O2 Camming Surfaces (4 Discs)
- G Camming Surface

2.41 Selector Cam Clutch Assembly

(Front View)

- SAT Felt Washer
- SAT Internal Mechanism
- O2 Camming Surface
- O2 Camming Surfaces (Each Cam)

2.42 Trip Shaft Mechanism

(Bottom View)

- O2 Engaging Surfaces (5 Levers)
- O2 Engaging Surfaces (5 Levers)
- O2 Hooks (Each End) (9 Springs)
- SAT Felt Washer and Wick
- SAT Felt Washer (16 Washers)
- SAT Cam Follower Arm Roller
- SAT Cam Follower Arm
- SAT Clutch Trip Lever Shaft

- ECCentric Follower Arm Bearing
- Clutch Assembly
- Eccentric Follower Arm Cams
- Main Shaft Bearing
- Clutch Sleeve
- Clutch Disc
- Cam
2.43 Spacing Clutch Trip Cam Mechanism

(Right Side View)

2.44 Spacing Mechanism

(Left Side View)

(Bottom View)
2.45 Spacing Mechanism (continued)

(Right Side View)

- Engaging Surface
- Felt Washers (2 Washers)
- Felt Washer
- Engaging Surface
- Felt Washers (2 Washers)
- Hooks (Each End)
- Spacing Cut-Out Transfer Bail
- Spacing Cut-Out Transfer Bail
- Spacing Cut-Out Bail
- Spacing Cut-Out Bail
- Carriage Return Bail Shaft
- Spring

2.46 Shift Selector Mechanism

(Bottom Left View)

- Pivot
- Engaging Surface
- Hooks (Each End)
- Felt Washer
- Felt Wick
- Felt Washer
- Shift Drive Pawl
- Shift Drive Pawl
- Spring
- Codebar Clutch Cam Follower
- Spring
- Shift Drive Link
2.47 Shift Selector Mechanism (continued)

(Rear View)

2.48 Line Feed Area

(Rear View)
2.49 Line Feed Mechanism (Friction Feed)

(Right Rear View)
2.50 Single-Double Line Feed Mechanism

(Left Side View)
Figure 3 - 35 Typing Unit (Sprocket Feed)
2.51 Line Feed Mechanism (Sprocket Feed)

(Right Side View)

- O1: Bearing Surface
- G: Teeth
- O2: Bearing Surface
- G: Teeth
- O2: Bearing Surfaces (2 Places)
- O1: Hooks (Each End)
- Handwheel Gear
- Handwheel Gear
- Platen Detent Bail
- Idler Gear
- Idler Gear
- Platen Gear
- Platen Gear
- Spring

2.52 Sprocket Feed Paper Mechanism

(Right Side View)

- O1: Hooks (Each End)
- O2: Pivot (2 Places)
- O2: Pivots (2 Places)
- O1: Hooks (Each End)
- G: Pack Pin and Spring Cavaties (22 Places)
- G: Light Coat
- Do Not Pack With Grease
- Spring
- Guide Bracket Latch
- Guide Bracket Shaft
- Spring
- Sprocket With Steel Pins
- Sprocket With Delrin Pins
3. VARIABLE FEATURES

3.01 Typing Unit (Sprocket Feed)

3.02 Horizontal Tabulator Area

(Bottom View)
3.03 Horizontal Tabulator — Blocking Lever

Horizontally Tabulator - Blocking Lever (Front View)

3.04 Horizontal Tabulator — Slide Arm

Horizontal Tabulator - Slide Arm (Bottom View)

3.05 Horizontal Tabulator — Operating Lever

Horizontal Tabulator - Operating Lever (Left Bottom View)
3.06 Horizontal Tabulator — Latch Bail

(Left Side View)

3.07 Horizontal Tabulator — Operating Lever (continued)

(Right Side View)

3.08 Horizontal Tabulator — Intermediate Bail

(Left Side View)
3.09 Horizontal Tabulator — Bail Extension Arm

(Bottom View)

3.10 Spacing Cut-Out Transfer Bail

(Right Side View)

3.11 Print-Nonprint Solenoid Mechanism

(Left Side View)

Note: Do not oil the cylindrical surface or pole face of solenoid plunger.
3.12 Vertical Tabulator and Transmitter Distributor Control Mechanism

(Gear) Gear

(Gear) Idler

Hooks (Each End) Spring

Bearing Handwheel

Hooks (Each End) Spring

Pivot Adjustable Arm

Hooks (Each End) Springs

(2 Springs)

Form Start

Form-Out and Vertical Tab

Handwheel

Adjustable Arm and Blocking

Blocking Lever

(Left Side View)
3.13 Form-Out Mechanism

- **O2** Engaging Surface
- **O2** Pivot
- **O1** Loop
- **O2** Pivot (2 Places)

Note: Do not oil plunger.

- **O2** Engaging Surface
- **O2** Pivot
- **Form-Out Bail**

- **O2** Pivot
- **Torsion Spring**
- **Form-Out Lever**
- **Solenoid Lever**

- **O2** Engaging Surface
- **O1** Hooks (Each End)
- **O2** Guide Surface (2 Places)
- **Solenoid Lever**
- **Spring**
- **Nonrepeat Slide**

(Left Frame Viewed From Right Rear)
3.14 Vertical Tabulator Mechanism (For Switch Network Service)

(G) Gear

(O1) Hooks (Each End)

(O1) Hooks (Each End)

(O2) Bearing

(G) Gear

(O2) Pivot

(O1) Hooks (Each End) (2 Springs)

(O2) Slides (2)

(O2) Bearing Surface

(O1) Pivot

(Idler) Spring

(Spring) Handwheel

(Form Start) Adjustable Arm

(Springs) Form-Out and Vertical Tabulation

(Adjustable Arm and Blocking Lever)

(Blocking Lever)
3.15 Two Color Ribbon Shift Mechanism — Oscillating Lever

Note: Photograph reference shows general area of this mechanism and not the actual mechanism.

3.16 Two Color Ribbon Shift Mechanism — Ribbon Operating Mechanism

Note: Photograph reference shows general area of this and not the actual mechanism.
3.17 Local Backspace Mechanism

(Front View)

- Engaging Surface
- Backspace Camming Bail
- Bearing Surface
- Adjusting Plate
- Engaging Surfaces (2 Places)
- Intermediate Arm
- Hooks (Each End)
- Spring
- Bearing Surface
- Backspace Camming Bail

Note: See Figure 2 for location of this mechanism.

3.18 Paper-Out Alarm Mechanism (Friction Feed)

(Right Side View)

- SAT
- Felt Washer
- Switch Bracket
- Hooks (Each End)
- Spring
- Pivot Points (2 Places)
- Lever Bracket

(Rear View)
3.19 Low Paper and Paper-Out Alarm Mechanism (Sprocket Feed)

3.20 Keyboard Lock Mechanism

Note: Photograph reference shows general area of this mechanism and not the actual mechanism.
3.21 Paper Jam Alarm (Sprocket Feed)

(Right Side View)

- O1 Point Contact (2 Places)
- O1 Bearing Surface
- O1 Pivots (Each End)
- O1 Hooks (Each End)

Switch Buttons
Operating Lever
Bail
Spring