

# **Acco<sup>®</sup> WRIGHT<sup>®</sup>**

## **WORK-RATED<sup>®</sup>** **THE NEW CENTURY SERIES<sup>®</sup>**

wire rope electric hoists

product series 34

parts  
manual

SERIAL NUMBER

### **⚠ WARNING**

This equipment should not be installed, operated or maintained by any person who has not read all the contents of Instruction, Operation, and Maintenance Manual 69833; and Parts Manual 69836. Failure to read and comply with the instructions or any one of the limitations noted in either manual can result in serious bodily injury or death, and/or property damage.

There are no other warranties which extend beyond the description on the Order Acknowledgment and as it may apply to the specifications provided in this publication. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. Acco shall in no event be liable for any special, direct, indirect, incidental or consequential damages to anyone beyond the cost of replacement of the goods sold hereby.

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## NOTICE

Parts Manual 69836 covers parts information in reference to Product Series 34 of the WRIGHT® WORK-RATED® THE NEW CENTURY SERIES® wire rope electric hoist line. This manual includes parts information for a variety of hoist types. Therefore, all parts information may not apply to any one type or size of specific hoist. Disregard those portions of the manual that do not apply. Parts Manual 69836 should be used in conjunction with Manual 69833: Installation, Operation, and Maintenance Manual for WRIGHT® WORK-RATED® THE NEW CENTURY SERIES® Wire Rope Electric Hoists. Refer to Manual 69833 for instructions on installation, operation, inspection, testing, adjusting, and maintaining this equipment; and Parts Manual 69836 for parts information and identification. Use of the term MANUAL refers to both Manual 69833 and Parts Manual 69836.

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## NOTICE

TO ORDER PARTS: Provide part number, part description, quantity required, and Product Number or Serial Number of Hoist.

## IMPORTANT INFORMATION AND WARNINGS

### SAFETY ALERT SYMBOL

The Safety Alert Symbol is used in this manual to indicate hazards and to alert the reader to information that should be known, understood, and followed in order to avoid DEATH or SERIOUS INJURY.

Read and understand this manual before using the hoist.

Important issues to remember during operation are provided at the hoist control stations, at various locations on the hoist and in the manuals by **DANGER**, **WARNING**, or **CAUTION** instructions or placards, that alert the personnel to potential hazards, proper operation, load limitations, and more.

#### **DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

#### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

### **CAUTION**

These general instructions deal with the normal installation, operation, and maintenance situations encountered with the equipment described herein. The instructions should not be interpreted to anticipate every possible contingency or to anticipate the final system, crane, or configuration that uses this equipment.

This manual includes instructions and parts information for a variety of hoist types. Therefore, all instructions and parts information may not apply to any one type or size of specific hoist. Disregard those portions of the instructions that do not apply.

Record hoist serial number on the front cover of this manual for identification and future reference to avoid referring to the wrong manual for information or instructions on installation, operation, inspection, maintenance, or parts.

Use only Wright® authorized replacement parts in the service and maintenance of this hoist.

### **WARNING**

Equipment described herein is not designed for and should not be used for lifting, supporting, or transporting humans.

Equipment described herein should not be used in conjunction with other equipment unless necessary and/or required safety devices applicable to the system, crane, or application are installed by the system designer, system manufacturer, crane manufacturer, installer, or user.

Modifications to upgrade, rerate, or otherwise alter this equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

Equipment described herein may be used in the design and manufacture of cranes or monorails. Additional equipment or devices may be required for the crane or monorail to comply with applicable crane design and safety standards. The crane designer, crane manufacturer, or user is responsible to furnish these additional items for compliance. Refer to ASME B30.17, Safety Standard for Top-Running Single Girder Cranes; ASME B30.2 Safety Standard for Top-Running Double-Girder Cranes; and ASME B30.11 Safety Standard for Underhung Cranes and Monorails. If a below-the-hook lifting device or sling is used with a hoist, refer to ASME B30.9, Safety Standard for Slings, or ASME B30.20, Safety Standard for Below-the-Hook Lifting Devices.

Hoists and cranes, used to handle hot molten material may require additional equipment or devices. Refer to ANSI Z241.2, Safety Requirements for Melting and Pouring of Metals in the Metalcasting Industry.

Electrical equipment described herein is designed and built in compliance with ACCO Chain & Lifting Products interpretation of ANSI/NFPA 70, National Electrical Code. The system designer, system manufacturer, crane designer, crane manufacturer, installer, or user is responsible to assure that the installation and associated wiring of these electrical components is in compliance with ANSI/NFPA 70, and all applicable Federal, State, and Local Codes.

Failure to read and comply with any of the limitations noted herein can result in serious bodily injury or death, and/or property damage.

## IMPORTANT INFORMATION AND WARNINGS

### DANGER

HAZARDOUS VOLTAGES ARE PRESENT IN THE CONTROL ENCLOSURE, OTHER ELECTRICAL COMPONENTS, AND CONNECTIONS BETWEEN THESE COMPONENTS.

Before performing ANY mechanical or electrical maintenance on the equipment, de-energize (disconnect) the main switch supplying power to the equipment; and lock and tag the main switch in the de-energized position. Refer to ANSI Z244.1, Personnel Protection — Lockout/Tagout of Energy Sources.

Do not operate the equipment without control enclosure cover or covers in place.

Only trained and competent personnel should inspect and repair this equipment.

### NOTICE

It is the responsibility of the owner/user to install, inspect, test, maintain, and operate a hoist in accordance with ASME B30.16, Safety Standard for Overhead Hoists, OSHA Regulations, and ANSI/NFPA 70, National Electrical Code. If the hoist is installed as part of a total lifting system, such as an overhead crane or monorail, it is also the responsibility of the owner/user to comply with the applicable ASME B30 volume that addresses that type of equipment.

It is the responsibility of the owner/user to have all personnel that will install, inspect, test, maintain, and operate a hoist read the contents of this manual and applicable portions of ASME B30.16, Safety Standard for Overhead Hoists, OSHA Regulations, and ANSI/NFPA 70, National Electrical Code. If the hoist is installed as part of a total lifting system, such as an overhead crane, the applicable ASME B30 volume that addresses that type of equipment must also be read by all personnel.

Any ANSI Standards referenced in this manual may be obtained from the American National Standards Institute, 1430 Broadway, New York, New York 10018.

This manual contains information for safe operation of an overhead hoist. Taking precedence over any specific rule, however, is the most important rule of all "USE COMMON SENSE." Operation of an overhead hoist involves more than operating the controls. The operator must consider and anticipate the motions and actions that will occur as a result of operating the controls.

If the hoist owner/user requires additional information, or if any information in the manual is not clear, contact ACCO Chain & Lifting Products, York, Pennsylvania or the distributor of the hoist. Do not install, inspect, test, maintain, or operate the hoist unless this information is fully understood.

When contacting ACCO Chain & Lifting Products or the distributor of the hoist, always make reference to the serial number of the hoist.

A regular schedule of inspection of the hoist in accordance with the requirements of the ASME B30.16 should be established and records maintained.

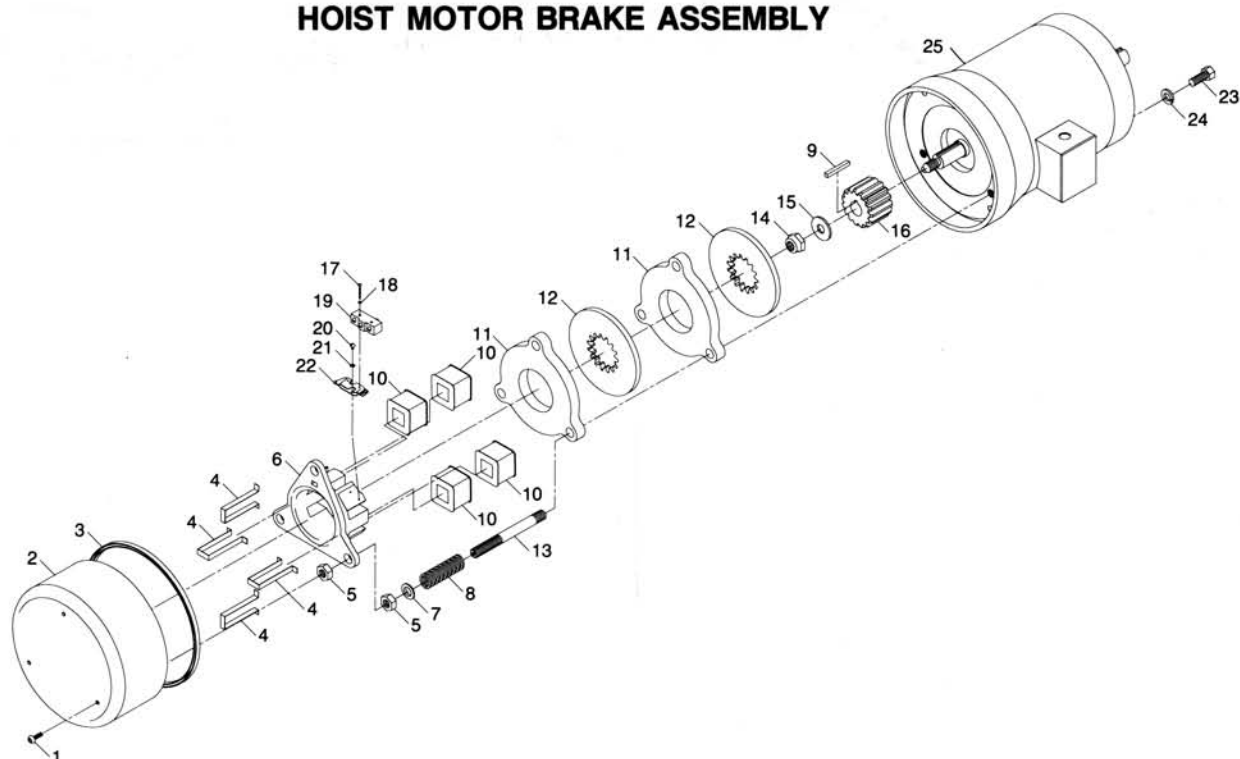
### WARNING

Before installing, removing, inspecting, or performing any maintenance on a hoist, the main switch shall be de-energized. Lock and tag the main switch in the de-energized position in accordance with ANSI Z244.1. Follow other maintenance procedures outlined in this manual and applicable ASME B30 volumes.

Additional WARNINGS are listed in various portions of this manual. Personnel shall read and follow these WARNINGS. Failure to read and comply with these WARNINGS as well as other instructions or any limitations noted in this manual and applicable ASME B30 volumes could result in serious bodily injury or death, and/or property damage.

# PARTS LIST – PRODUCT SERIES 34

## HOIST MOTOR BRAKE ASSEMBLY



### HOIST MOTOR BRAKE PARTS

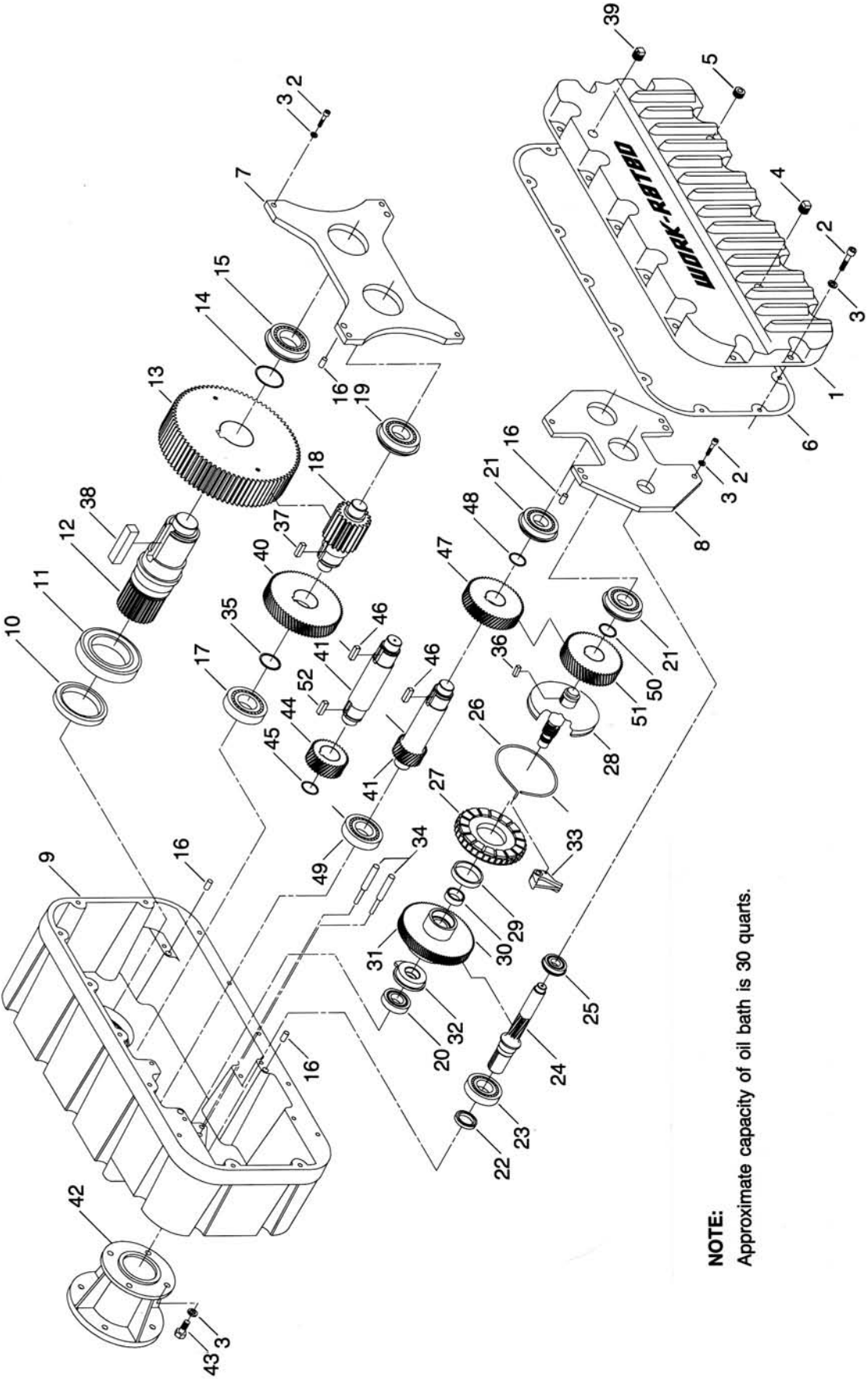
| ITEM NO. | DESCRIPTION         | QTY      | 68 LB FT TORQUE (a)             |
|----------|---------------------|----------|---------------------------------|
|          |                     |          | 69757-21<br>(b) (c)<br>PART NO. |
| 1        | Screw, LOC-WELL (d) | 3 ▲      | PA7323                          |
| 2        | Cover               | 1        | 69743-03                        |
| 3        | Gasket              | 3.1 ft ▲ | PA7110                          |
| 4        | Coil Strap          | 4        | 51451                           |
| 5        | Nut, Jam            | 6        | 24-12C                          |
| 6        | Magnet              | 1        | 51447                           |
| 7        | Washer              | 3        | PA5183                          |
| 8        | Spring              | 3        | PA6275 (e)                      |
| 9        | Key (g)             | 1        | 70879                           |
| 10       | Coil                | 4        | 51452                           |
| 11       | Armature Plate      | 2        | 51443                           |
| 12       | Lining Disc         | 2 ▲      | 51439                           |
| 13       | Stud                | 3        | 69991                           |
| 14       | Locknut             | 1 ▲      | PA2434                          |
| 15       | Washer              | 1        | 15-10-0                         |
| 16       | Hub                 | 1        | 69990                           |
| 17       | Screw               | 2        | 3-06-14                         |
| 18       | Lockwasher          | 2        | 19-06                           |
| 19       | Switch              | 1        | PA6079                          |
| 20       | Screw               | 2        | 3-08-4                          |
| 21       | Lockwasher          | 2        | 19-08C                          |
| 22       | Mounting Bracket    | 1        | PA6080                          |
| 23       | Bolt                | 4        | (f)                             |
| 24       | Lockwasher          | 4        | (f)                             |
| 25       | Motor               | 1        | (f)                             |

▲ Recommended Spare Parts

### NOTES:

- (a) On standard hoists, 68 lb. ft. torque brakes are used with single-speed and two-speed 15 HP motors.
- (b) Number in heading of chart is Hoist Motor Brake Assembly number.
- (c) This brake is not used on hoists in Hazardous (Classified) locations as identified by the National Electrical Code.
- (d) Screw with self-locking feature must be utilized. Substitutes are not permissible.
- (e) Springs are color coded. Spring (PA6275) for 68 lb. ft. torque brake is yellow in color.
- (f) For part numbers, refer to page 8, Hoist Motor.
- (g) Included with hoist motor. Also available individually.

HOIST GEAR HOUSING ASSEMBLY



**NOTE:**  
Approximate capacity of oil bath is 30 quarts.



# PARTS LIST – PRODUCT SERIES 34

## HOIST GEAR HOUSING ASSEMBLY

### HOIST GEAR HOUSING PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION          | QTY/ ASSY |
|----------|-------------|----------------------|-----------|
| 1        | 70037       | Gear Housing Cover   | 1         |
| 2        | 1-8-24      | Bolt, 1/2-13 x 1-1/2 | 22        |
| 3        | 17-8C       | Lockwasher, 1/2      | 26        |
| 4        | PA7380      | Oil Level Plug       | 1         |
| 5        | PA798       | Pipe Plug            | 1         |
| 6▲       | 70039       | Gasket               | 1         |
| 7        | 70041       | Output Spider        | 1         |
| 8        | 70040       | Input Spider         | 1         |
| 9        | 70037       | Gear Housing         | 1         |
| 10▲      | PA7441      | Oil Seal             | 1         |
| 11       | PA7439      | Bearing              | 1         |
| 12       | 70045       | Drum Shaft           | 1         |
| 13       | 70047       | Drum Gear            | 1         |
| 14       | PA7443      | Retaining Ring       | 1         |
| 15       | PA7440      | Bearing              | 1         |
| 16       | PA7394      | Dowel Pin            | 4         |
| 17       | PA7437      | Bearing              | 1         |
| 18       | 70044       | Drum Pinion Shaft    | 1         |
| 19       | PA7438      | Bearing              | 1         |
| 20       | PA6563      | Bearing              | 1         |
| 21       | PA7436      | Bearing              | 2         |
| 22▲      | PA7442      | Oil Seal             | 1         |
| 23       | PA7434      | Bearing              | 1         |
| 24       | 70042       | Motor Pinion Shaft   | 1         |
| 25       | PA7435      | Bearing              | 1         |
| 26       | 54430       | Pawl Spring          | 1         |

| ITEM NO. | PART NUMBER | DESCRIPTION            | QTY/ ASSY |
|----------|-------------|------------------------|-----------|
| 27       | 54343       | Ratchet Unit           | 1         |
| 28       | 55683       | Brake Shaft Unit       | 1         |
| 29       | PA6289      | Needle Bearing, Outer  | 1         |
| 30       | PA6290      | Needle Bearing, Inner  | 1         |
| 31       | 55695       | Brake Gear             | 1         |
| 32       | 50564       | Check Sleeve           | 1         |
| 33       | 60799       | Pawl                   | 1         |
| 34       | 70131       | Pawl Pin               | 2         |
| 35       | PA7037      | Retaining Ring         | 1         |
| 36       | 70231       | Key                    | 1         |
| 37       | 70057       | Key                    | 1         |
| 38       | 70058       | Key                    | 1         |
| 39       | PA7381      | Vent Plug              | 1         |
| 40       | (a)         | Change Gear            | (a)       |
| 41       | (a)         | Change Pinion or Shaft | (a)       |
| 42       | 70038       | Motor Snout            | 1         |
| 43       | 35-8-24C    | Bolt, 1/2-13 x 1-1/2   | 4         |
| 44       | (a)         | Change Pinion          | (a)       |
| 45       | (a)         | Retaining Ring         | (a)       |
| 46       | 70048       | Key                    | 1         |
| 47       | 70050       | Change Gear            | 1         |
| 48       | PA1269      | Retaining Ring         | 1         |
| 49       | PA6616      | Bearing                | 1         |
| 50       | PA6144      | Retaining Ring         | 1         |
| 51       | 70049       | Change Pinion          | 1         |
| 52       | (a)         | Key                    | (a)       |

### NOTE:

- (a) Gearing varies with the speed of the hoist. Three gear sets are available, each identified by Gear Housing Assembly No. 70060 with dash number suffix (-01 thru -02). Select proper dash number by counting and comparing number of teeth in gear and pinion.

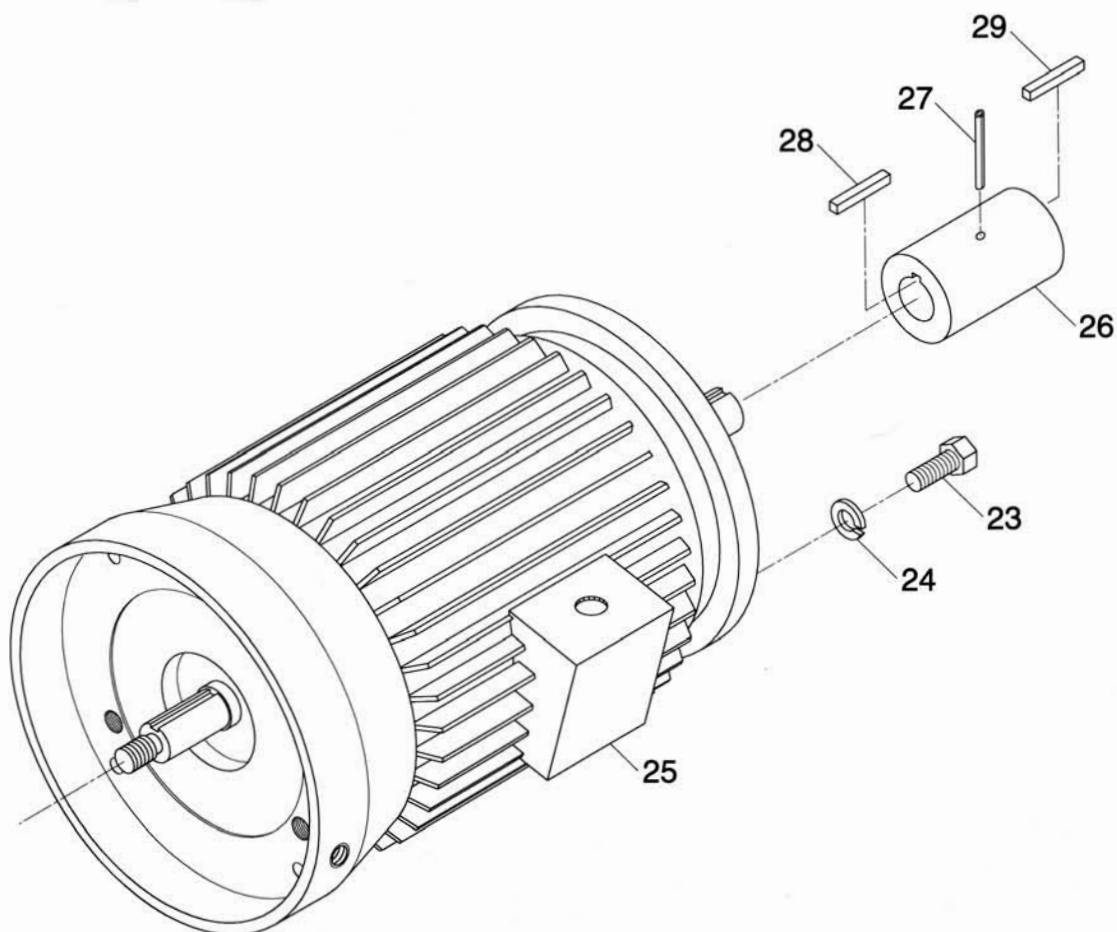
The parts of this assembly that affect the speed of the hoist are items 40, 41, 44, 45, and 52.

| GEAR HOUSING ASSEMBLY   |          |                         | 70060-01 | 70060-02 |
|-------------------------|----------|-------------------------|----------|----------|
| LIFTING SPEED (2PS/2PD) |          |                         | 30 FPM   | 44 FPM   |
| LIFTING SPEED (4PS/4PD) |          |                         | 15 FPM   | 22 FPM   |
| ITEM NO.                | PART NO. | DESCRIPTION             | QTY.     | QTY.     |
| 40                      | 70053    | Gear, 78 Teeth          | 1        | 0        |
| 40                      | 70052    | Gear, 70 Teeth          | 0        | 1        |
| 41                      | 70046    | Change Pinion, 26 Teeth | 1        | 0        |
| 41                      | 70043    | Change Shaft            | 0        | 1        |
| 44                      | 70051    | Change Pinion, 34 Teeth | 0        | 1        |
| 45                      | PA1269   | Retaining Ring          | 0        | 1        |
| 52                      | 70056    | Key                     | 0        | 1        |

### ▲ Recommended Spare Parts

## PARTS LIST – PRODUCT SERIES 34

### HOIST MOTOR



#### HOIST MOTOR PARTS

| ITEM NO. | PART NO. | DESCRIPTION    | QTY. |
|----------|----------|----------------|------|
| 23       | 35-8-24C | Bolt, Hex Head | 4    |
| 24       | 17-8C    | Lockwasher     | 4    |
| 25       | (b)      | Hoist Motor    | 1    |
| 26       | 70055    | Coupling       | 1    |
| 27       | PA5366   | Roll Pin       | 1    |
| 28       | 70863    | Key (a)        | 1    |
| 29       | 70054    | Key            | 1    |

No Recommended Spare Parts

#### NOTES:

(a) Included with hoist motor. Also available individually.

(b) Select standard hoist motor by part number according to motor specifications as follows:

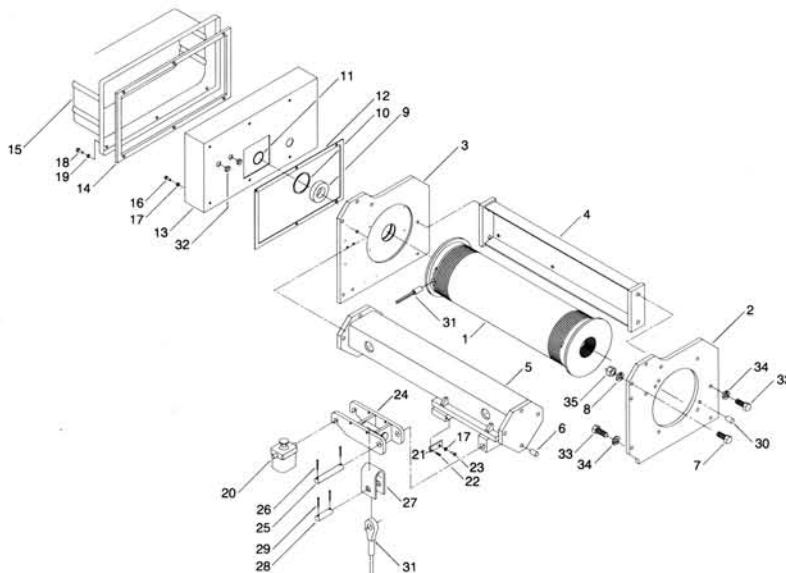
| PART NO. | VOLTAGE | HP   | RPM      | SPEED  | FRAME |
|----------|---------|------|----------|--------|-------|
| 69777-13 | 208     | 15   | 1800     | Single | 256TC |
| 69777-14 | 230/460 |      |          |        |       |
| 69777-15 | 575     |      |          |        |       |
| 69778-17 | 208     | 15/5 | 1800/600 | Two    |       |
| 69778-18 | 230     |      |          |        |       |
| 69778-19 | 460     |      |          |        |       |
| 69778-20 | 575     |      |          |        |       |

For other specified special motors, refer to additional information pages supplied with manual.



## PARTS LIST – PRODUCT SERIES 34

### SUSPENSION – 2PS REEVING



### 2PS SUSPENSION PARTS

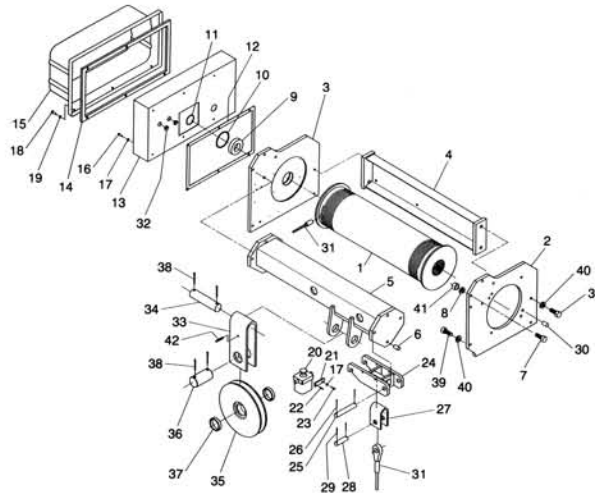
| ITEM NO. | DESCRIPTION             | QTY. | 21 FT.<br>LIFT<br>PART NO. | 53 FT.<br>LIFT<br>PART NO. | 71 FT.<br>LIFT<br>PART NO. | 97 FT.<br>LIFT<br>PART NO. |
|----------|-------------------------|------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1        | Drum, Single Grooving   | 1    | 70144-01                   | 70144-02                   | 70144-03                   | 70144-04                   |
| 2        | End Plate, Gear End     | 1    | 70148                      | 70148                      | 70148                      | 70148                      |
| 3        | End Plate, Control End  | 1    | 70149                      | 70149                      | 70149                      | 70149                      |
| 4        | Side Frame              | 1    | 70172-01                   | 70172-02                   | 70172-03                   | 70172-04                   |
| 5        | Frame Unit              | 1    | 70212-01                   | 70212-02                   | 70208-03                   | 70208-04                   |
| 6        | Dowel Pin               | 4    | PA7457                     | PA7457                     | PA7457                     | PA7457                     |
| 7        | Hex Head Bolt           | 4    | 35-12-44C                  | 35-12-44C                  | 35-12-44C                  | 35-12-44C                  |
| 8        | Lockwasher              | 4    | 17-12C                     | 17-12C                     | 17-12C                     | 17-12C                     |
| 9        | Bearing                 | 1    | PA7451                     | PA7451                     | PA7451                     | PA7451                     |
| 10       | Retaining Ring          | 1    | PA7456                     | PA7456                     | PA7456                     | PA7456                     |
| 11       | Retaining Ring          | 1    | PA7455                     | PA7455                     | PA7455                     | PA7455                     |
| 12       | Gasket                  | 1    | 70139                      | 70139                      | 70139                      | 70139                      |
| 13       | Enclosure               | 1    | 70138-01                   | 70138-01                   | 70138-01                   | 70138-01                   |
| 14       | Gasket                  | 1    | 58531                      | 58531                      | 58531                      | 58531                      |
| 15       | Cover                   | 1    | 52823                      | 52823                      | 52823                      | 52823                      |
| 16       | Hex Head Bolt           | 6    | 35-4-6C                    | 35-4-6C                    | 35-4-6C                    | 35-4-6C                    |
| 17       | Lockwasher              | 7    | 17-4C                      | 17-4C                      | 17-4C                      | 17-4C                      |
| 18       | Captive Screw           | 6    | 58597                      | 58597                      | 58597                      | 58597                      |
| 19       | Retaining Ring          | 6    | PA6634                     | PA6634                     | PA6634                     | PA6634                     |
| 20       | Overload Cut-off 5 Ton  | 1    | 39170-04                   | 39170-04                   | 39170-04                   | 39170-04                   |
| 20       | Overload Cut-off 7½ Ton | 1    | 66291-04                   | 66291-04                   | 66291-04                   | 66291-04                   |
| 21       | Keeper Plate            | 1    | 53219                      | 53219                      | 53219                      | 53219                      |
| 22       | Roll Pin                | 1    | PA4607                     | PA4607                     | PA4607                     | PA4607                     |
| 23       | Hex Head Bolt           | 1    | 35-4-8C                    | 35-4-8C                    | 35-4-8C                    | 35-4-8C                    |
| 24       | Rope End Mounting Unit  | 1    | 69753                      | 69753                      | 69753                      | 69753                      |
| 25       | Pin                     | 1    | 69717                      | 69717                      | 69717                      | 69717                      |
| 26       | Cotter Pin              | 2    | PA1364                     | PA1364                     | PA1364                     | PA1364                     |
| 27       | Rope Hanger             | 1    | 70161                      | 70161                      | 70161                      | 70161                      |
| 28       | Pin                     | 1    | 70162                      | 70162                      | 70162                      | 70162                      |
| 29       | Cotter Pin              | 2    | PA1771                     | PA1771                     | PA1771                     | PA1771                     |
| 30       | Dowel Pin               | 2    | PA7458                     | PA7458                     | PA7458                     | PA7458                     |
| 31       | Wire Rope Assembly (a)  | 1▲   | 70146-01                   | 70146-02                   | 70146-03                   | 70146-04                   |
| 32       | Grommet                 | 2    | PA7409                     | PA7409                     | PA7409                     | PA7409                     |
| 33       | Hex Head Bolt           | 10   | 35-10-28C                  | 35-10-28C                  | 35-10-28C                  | 35-10-28C                  |
| 34       | Lockwasher              | 10   | 17-10C                     | 17-10C                     | 17-10C                     | 17-10C                     |
| 35       | Hex Nut                 | 4    | 22-12C                     | 22-12C                     | 22-12C                     | 22-12C                     |

▲ Recommended Spare Parts

**NOTE:** (a) Part numbers shown for Item 31, Wire Rope Assembly, are for standard hoists using 5/8 dia. 6x37 XIP wire rope. For special hoists using other size or type wire rope, refer to the wire rope part number listed in additional pages included with this manual; or contact Acco Chain & Lifting Products or the distributor of the hoist.

# PARTS LIST – PRODUCT SERIES 34

## SUSPENSION – 4PS REEVING



### 4PS SUSPENSION PARTS

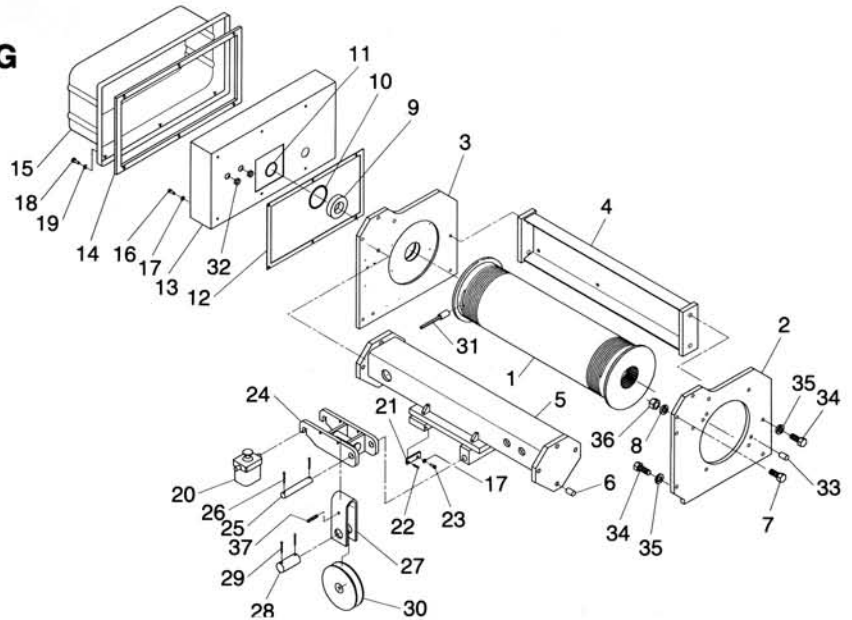
| ITEM NO. | DESCRIPTION                   | QTY. | 25 FT. LIFT<br>PART NO. | 38 FT. LIFT<br>PART NO. | 61 FT. LIFT<br>PART NO. | 92 FT. LIFT<br>PART NO. |
|----------|-------------------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1        | Drum, Single Grooving         | 1    | 70144-03                | 70144-04                | 70144-05                | 70144-06                |
| 2        | End Plate, Gear End           | 1    | 70148                   | 70148                   | 70148                   | 70148                   |
| 3        | End Plate, Control End        | 1    | 70149                   | 70149                   | 70149                   | 70149                   |
| 4        | Side Frame                    | 1    | 70172-03                | 70172-04                | 70172-05                | 70172-06                |
| 5        | Frame Unit                    | 1    | 70169-03                | 70169-04                | 70203-05                | 70203-06                |
| 6        | Dowel Pin                     | 4    | PA7457                  | PA7457                  | PA7457                  | PA7457                  |
| 7        | Hex Head Bolt                 | 4    | 35-12-44C               | 35-12-44C               | 35-12-44C               | 35-12-44C               |
| 8        | Lockwasher                    | 4    | 17-12C                  | 17-12C                  | 17-12C                  | 17-12C                  |
| 9        | Bearing                       | 1    | PA7451                  | PA7451                  | PA7451                  | PA7451                  |
| 10       | Retaining Ring                | 1    | PA7456                  | PA7456                  | PA7456                  | PA7456                  |
| 11       | Retaining Ring                | 1    | PA7455                  | PA7455                  | PA7455                  | PA7455                  |
| 12       | Gasket                        | 1    | 70139                   | 70139                   | 70139                   | 70139                   |
| 13       | Enclosure                     | 1    | 70138-01                | 70138-01                | 70138-01                | 70138-01                |
| 14       | Gasket                        | 1    | 58531                   | 58531                   | 58531                   | 58531                   |
| 15       | Cover                         | 1    | 52823                   | 52823                   | 52823                   | 52823                   |
| 16       | Hex Head Bolt                 | 6    | 35-4-6C                 | 35-4-6C                 | 35-4-6C                 | 35-4-6C                 |
| 17       | Lockwasher                    | 7    | 17-4C                   | 17-4C                   | 17-4C                   | 17-4C                   |
| 18       | Captive Screw                 | 6    | 58597                   | 58597                   | 58597                   | 58597                   |
| 19       | Retaining Ring                | 6    | PA6634                  | PA6634                  | PA6634                  | PA6634                  |
| 20       | Overload Cut-off 10 Ton       | 1    | 39170-04                | 39170-04                | 39170-04                | 39170-04                |
| 20       | Overload Cut-off 15 Ton       | 1    | 66291-04                | 66291-04                | 66291-04                | 66291-04                |
| 21       | Keeper Plate                  | 1    | 53219                   | 53219                   | 53219                   | 53219                   |
| 22       | Roll Pin                      | 1    | PA4607                  | PA4607                  | PA4607                  | PA4607                  |
| 23       | Hex Head Bolt                 | 1    | 35-4-8C                 | 35-4-8C                 | 35-4-8C                 | 35-4-8C                 |
| 24       | Rope End Mounting Unit        | 1    | 69753                   | 69753                   | 69753                   | 69753                   |
| 25       | Pin                           | 1    | 69717                   | 697174                  | 69717                   | 69717                   |
| 26       | Cotter Pin                    | 2    | PA1364                  | PA1364                  | PA1364                  | PA1364                  |
| 27       | Rope Hanger                   | 1    | 70161                   | 70161                   | 70161                   | 70161                   |
| 28       | Pin                           | 1    | 70162                   | 70162                   | 70162                   | 70162                   |
| 29       | Cotter Pin                    | 2    | PA1771                  | PA1771                  | PA1771                  | PA1771                  |
| 30       | Dowel Pin                     | 2    | PA7458                  | PA7458                  | PA7458                  | PA7458                  |
| 31       | Wire Rope Assembly (a)        | 1 ▲  | 70146-13                | 70146-14                | 70146-15                | 70146-16                |
| 32       | Grommet                       | 2    | PA7409                  | PA7409                  | PA7409                  | PA7409                  |
| 33       | Sheave Hanger                 | 1    | 70158                   | 70158                   | 70158                   | 70158                   |
| 34       | Pin                           | 1    | 70159                   | 70159                   | 70159                   | 70159                   |
| 35       | Polyamide Sheave with Bearing | 1    | 69573                   | 69573                   | 69573                   | 69573                   |
| 35       | Steel Sheave with Bearing     | 1    | 69574                   | 69574                   | 69574                   | 69574                   |
| 36       | Pin                           | 1    | 70160                   | 70160                   | 70160                   | 70160                   |
| 37       | Spacer                        | 2    | 69575-02                | 69575-02                | 69575-02                | 69575-02                |
| 38       | Cotter Pin                    | 4    | PA1484                  | PA1484                  | PA1484                  | PA1484                  |
| 39       | Hex Head Bolt                 | 10   | 35-10-28C               | 35-10-28C               | 35-10-28C               | 35-10-28C               |
| 40       | Lockwasher                    | 10   | 17-10C                  | 17-10C                  | 17-10C                  | 17-10C                  |
| 41       | Hex Nut                       | 4    | 22-12C                  | 22-12C                  | 22-12C                  | 22-12C                  |
| 42       | Pin                           | 1    | PA3713                  | PA3713                  | PA3713                  | PA3713                  |

#### ▲ Recommended Spare Parts

**NOTE:** (a) Part numbers shown for Item 31, Wire Rope Assembly, are for standard hoists using 5/8 dia. 6x37 XIP wire rope. For special hoists using other size or type wire rope, refer to the wire rope part number listed in additional pages included with this manual; or contact Acco Chain & Lifting Products or the distributor of the hoist.

# PARTS LIST – PRODUCT SERIES 34

## SUSPENSION – 2PD REEVING



### 2PD SUSPENSION PARTS

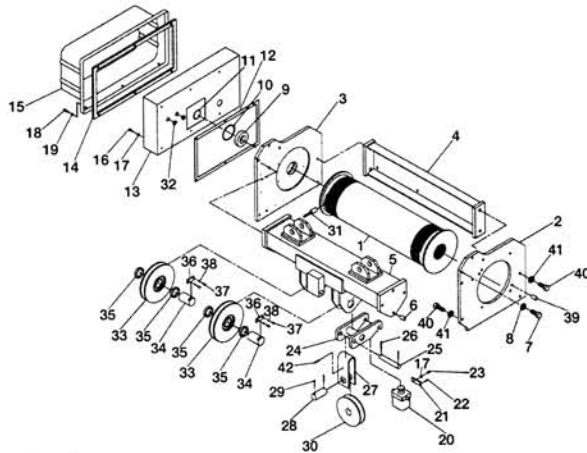
| ITEM NO. | DESCRIPTION                              | QTY. | 20 FT. LIFT<br>PART NO. | 31 FT. LIFT<br>PART NO. | 47 FT. LIFT<br>PART NO. | 76 FT. LIFT<br>PART NO. |
|----------|------------------------------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1        | Drum, Double Grooving                    | 1    | 70145-02                | 70145-03                | 70145-04                | 70145-05                |
| 2        | End Plate, Gear End                      | 1    | 70148                   | 70148                   | 70148                   | 70148                   |
| 3        | End Plate, Control End                   | 1    | 70149                   | 70149                   | 70149                   | 70149                   |
| 4        | Side Frame                               | 1    | 70172-02                | 70172-03                | 70172-04                | 70172-05                |
| 5        | Frame Unit                               | 1    | 70209-02                | 70209-03                | 70209-04                | 70209-05                |
| 6        | Dowel Pin                                | 4    | PA7457                  | PA7457                  | PA7457                  | PA7457                  |
| 7        | Hex Head Bolt                            | 4    | 35-12-44C               | 35-12-44C               | 35-12-44C               | 35-12-44C               |
| 8        | Lockwasher                               | 4    | 17-12C                  | 17-12C                  | 17-12C                  | 17-12C                  |
| 9        | Bearing                                  | 1    | PA7451                  | PA7451                  | PA7451                  | PA7451                  |
| 10       | Retaining Ring                           | 1    | PA7456                  | PA7456                  | PA7456                  | PA7456                  |
| 11       | Retaining Ring                           | 1    | PA7455                  | PA7455                  | PA7455                  | PA7455                  |
| 12       | Gasket                                   | 1    | 70139                   | 70139                   | 70139                   | 70139                   |
| 13       | Enclosure                                | 1    | 70138-01                | 70138-01                | 70138-01                | 70138-01                |
| 14       | Gasket                                   | 1    | 58531                   | 58531                   | 58531                   | 58531                   |
| 15       | Cover                                    | 1    | 52823                   | 52823                   | 52823                   | 52823                   |
| 16       | Hex Head Bolt                            | 6    | 35-4-6C                 | 35-4-6C                 | 35-4-6C                 | 35-4-6C                 |
| 17       | Lockwasher                               | 7    | 17-4C                   | 17-4C                   | 17-4C                   | 17-4C                   |
| 18       | Captive Screw                            | 6    | 58597                   | 58597                   | 58597                   | 58597                   |
| 19       | Retaining Ring                           | 6    | PA6634                  | PA6634                  | PA6634                  | PA6634                  |
| 20       | Overload Cut-off 5 Ton                   | 1    | 39170-04                | 39170-04                | 39170-04                | 39170-04                |
| 20       | Overload Cut-off 7 1/2 Ton               | 1    | 66291-04                | 66291-04                | 66291-04                | 66291-04                |
| 21       | Keeper Plate                             | 1    | 53219                   | 53219                   | 53219                   | 53219                   |
| 22       | Roll Pin                                 | 1    | PA4607                  | PA4607                  | PA4607                  | PA4607                  |
| 23       | Hex Head Bolt                            | 1    | 35-4-8C                 | 35-4-8C                 | 35-4-8C                 | 35-4-8C                 |
| 24       | Sheave Mounting Unit                     | 1    | 69753                   | 69753                   | 69753                   | 69753                   |
| 25       | Pin                                      | 1    | 69717                   | 69717                   | 69717                   | 69717                   |
| 26       | Cotter Pin                               | 2    | PA1364                  | PA1364                  | PA1364                  | PA1364                  |
| 27       | Sheave Hanger                            | 1    | 70059                   | 70059                   | 70059                   | 70059                   |
| 28       | Pin                                      | 1    | 69747                   | 69747                   | 69747                   | 69747                   |
| 29       | Cotter Pin                               | 2    | PA1771                  | PA1771                  | PA1771                  | PA1771                  |
| 30       | Polyamide Equalizing Sheave with Bearing | 1    | 70150                   | 70150                   | 70150                   | 70150                   |
| 30       | Steel Equalizing Sheave with Bearing     | 1    | 70199                   | 70199                   | 70199                   | 70199                   |
| 31       | Wire Rope Assembly (a)                   | 1 ▲  | 70147-02                | 70147-03                | 70147-04                | 70147-05                |
| 32       | Grommet                                  | 2    | PA7409                  | PA7409                  | PA7409                  | PA7409                  |
| 33       | Dowel Pin                                | 2    | PA7458                  | PA7458                  | PA7458                  | PA7458                  |
| 34       | Hex Head Bolt                            | 10   | 35-10-28C               | 35-10-28C               | 35-10-28C               | 35-10-28C               |
| 35       | Lockwasher                               | 10   | 17-10C                  | 17-10C                  | 17-10C                  | 17-10C                  |
| 36       | Hex Nut                                  | 4    | 22-12C                  | 22-12C                  | 22-12C                  | 22-12C                  |
| 37       | Pin                                      | 1    | PA5342                  | PA5342                  | PA5342                  | PA5342                  |

#### ▲ Recommended Spare Parts

**NOTE:** (a) Part numbers shown for Item 31, Wire Rope Assembly, are for standard hoists using 1/2 dia. 6x37 XIP wire rope. For special hoists using other size or type wire rope, refer to the wire rope part number listed in additional pages included with this manual; or contact Acco Chain & Lifting Products or the distributor of the hoist.

# PARTS LIST – PRODUCT SERIES 34

## SUSPENSION – 4PD REEVING



### 4PD SUSPENSION PARTS

| ITEM NO. | DESCRIPTION                              | QTY. | 20 FT. LIFT<br>PART NO. | 35 FT. LIFT<br>PART NO. | 54 FT. LIFT<br>PART NO. |
|----------|------------------------------------------|------|-------------------------|-------------------------|-------------------------|
| 1        | Drum, Double Grooving                    | 1    | 70145-04                | 70145-05                | 70145-06                |
| 2        | End Plate, Gear End                      | 1    | 70148                   | 70148                   | 70148                   |
| 3        | End Plate, Control End                   | 1    | 70149                   | 70149                   | 70149                   |
| 4        | Side Frame                               | 1    | 70172-04                | 70172-05                | 70172-06                |
| 5        | Frame Unit                               | 1    | 70194-04                | 70194-05                | 70194-06                |
| 6        | Dowel Pin                                | 4    | (b)                     | (b)                     | (b)                     |
| 7        | Hex Head Bolt                            | 4    | 35-12-32C               | 35-12-32C               | 35-12-32C               |
| 8        | Lockwasher                               | 4    | 17-12C                  | 17-12C                  | 17-12C                  |
| 9        | Bearing                                  | 1    | PA7451                  | PA7451                  | PA7451                  |
| 10       | Retaining Ring                           | 1    | PA7456                  | PA7456                  | PA7456                  |
| 11       | Retaining Ring                           | 1    | PA7455                  | PA7455                  | PA7455                  |
| 12       | Gasket                                   | 1    | 70139                   | 70139                   | 70139                   |
| 13       | Enclosure                                | 1    | 70138-01                | 70138-01                | 70138-01                |
| 14       | Gasket                                   | 1    | 58531                   | 58531                   | 58531                   |
| 15       | Cover                                    | 1    | 52823                   | 52823                   | 52823                   |
| 16       | Hex Head Bolt                            | 6    | 35-4-6C                 | 35-4-6C                 | 35-4-6C                 |
| 17       | Lockwasher                               | 7    | 17-4C                   | 17-4C                   | 17-4C                   |
| 18       | Captive Screw                            | 6    | 58597                   | 58597                   | 58597                   |
| 19       | Retaining Ring                           | 6    | PA6634                  | PA6634                  | PA6634                  |
| 20       | Overload Cut-off 10 Ton                  | 1    | 39170-04                | 39170-04                | 39170-04                |
| 20       | Overload Cut-off 15 Ton                  | 1    | 66291-04                | 66291-04                | 66291-04                |
| 21       | Keeper Plate                             | 1    | 53219                   | 53219                   | 53219                   |
| 22       | Roll Pin                                 | 1    | PA4607                  | PA4607                  | PA4607                  |
| 23       | Hex Head Bolt                            | 1    | 35-4-8C                 | 35-4-8C                 | 35-4-8C                 |
| 24       | Sheave Mounting Unit                     | 1    | 69959                   | 69959                   | 69959                   |
| 25       | Pin                                      | 1    | 69717                   | 69717                   | 69717                   |
| 26       | Cotter Pin                               | 2    | PA1364                  | PA1364                  | PA1364                  |
| 27       | Sheave Hanger                            | 1    | 70059                   | 70059                   | 70059                   |
| 28       | Pin                                      | 1    | 69747                   | 69747                   | 69747                   |
| 29       | Cotter Pin                               | 2    | PA1771                  | PA1771                  | PA1771                  |
| 30       | Polyamide Equalizing Sheave with Bearing | 1    | 70150                   | 70150                   | 70150                   |
| 30       | Steel Equalizing Sheave with Bearing     | 1    | 70199                   | 70199                   | 70199                   |
| 31       | Wire Rope Assembly (a)                   | 1▲   | 70147-14                | 70147-15                | 70147-16                |
| 32       | Grommet                                  | 2    | PA7409                  | PA7409                  | PA7409                  |
| 33       | Polyamide Running Sheave with Bearing    | 2    | 69567                   | 69567                   | 69568                   |
| 33       | Steel Running Sheave with Bearing        | 2    | 69568                   | 69568                   | 69567                   |
| 34       | Axle                                     | 2    | 69686-02                | 69686-02                | 69686-02                |
| 35       | Spacer                                   | 4    | 69569-02                | 69569-02                | 69569-02                |
| 36       | Keeper Plate                             | 2    | 50733                   | 50733                   | 50733                   |
| 37       | Screw                                    | 4    | 1-01-8                  | 1-01-8                  | 1-01-8                  |
| 38       | Lockwasher                               | 4    | 17-010C                 | 17-010C                 | 17-010C                 |
| 39       | Dowel Pin                                | 2    | PA7458                  | PA7458                  | PA7458                  |
| 40       | Hex Head Bolt                            | 10   | 35-10-28C               | 35-10-28C               | 35-10-28C               |
| 41       | Lockwasher                               | 10   | 17-10C                  | 17-10C                  | 17-10C                  |
| 42       | Pin                                      | 1    | PA5342                  | PA5342                  | PA5342                  |

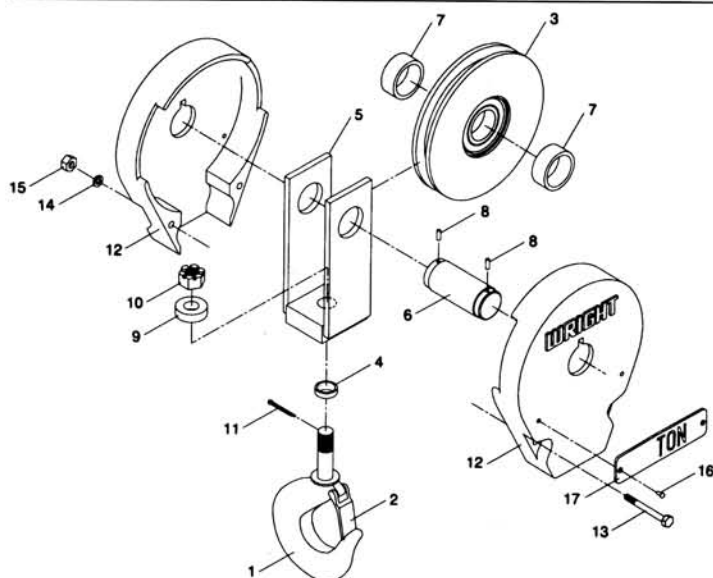
#### ▲ Recommended Spare Parts

**NOTES:** (a) Part numbers shown for Item 31, Wire Rope Assembly, are for standard hoists using 1/2 dia. 6x37 XIP wire rope. For special hoists using other size or type wire rope, refer to the wire rope part number listed in additional pages included with this manual; or contact Acco Chain & Lifting Products or the distributor of the hoist.

(b) PA7487 except for winch. For winch, use PA7457.

## PARTS LIST – PRODUCT SERIES 34

### LOAD BLOCK – 2PS REEVING 5/8" ROPE DIAMETER



Load Block Assembly 69552-01 - Steel Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69552-02 - Bullard Swivel Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69552-03 - Bronze Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69552-04 - Steel Spring Latch Type Hook, Steel Sheave  
 Load Block Assembly 69552-05 - Bullard Swivel Latch Type Hook, Steel Sheave  
 Load Block Assembly 69552-06 - Bronze Spring Latch Type Hook, Steel Sheave

#### LOAD BLOCK PARTS

| ITEM NO. | DESCRIPTION                        | QTY | STEEL SPRING LATCH TYPE HOOK | BULLARD SWIVEL LATCH TYPE HOOK | BRONZE SPRING LATCH TYPE HOOK |
|----------|------------------------------------|-----|------------------------------|--------------------------------|-------------------------------|
| 1        | Hook without hole in tip           | 1   | 58012 (a)                    | 58013                          | 58014 (a)                     |
| 1        | Hook with hole in tip              | 1   | 70893 (a)                    | N/A                            | 70901 (a)                     |
| 2        | Latch for hook without hole in tip | 1   | PA5327 (a)                   | N/A                            | PA5329 (a)                    |
| 2        | Latch for hook with hole in tip    | 1   | PA7583 (a)                   | N/A                            | PA7585 (a)                    |
| 3        | Polyamide Sheave with Bearing      | 1   | 69573                        | 69573                          | 69573                         |
| 3        | Steel Sheave with Bearing          | 1   | 69574                        | 69574                          | 69574                         |
| 4        | Spacer                             | 0   | N/A                          | N/A                            | N/A                           |
| 5        | Frame                              | 1   | 69571                        | 69571                          | 69571                         |
| 6        | Axle                               | 1   | 69572                        | 69572                          | 69572                         |
| 7        | Spacer                             | 2   | 69575                        | 69575                          | 69575                         |
| 8        | Roll Pin                           | 2   | PA4607                       | PA4607                         | PA4607                        |
| 9        | Thrust Bearing                     | 1   | PA5832                       | PA5832                         | PA5832                        |
| 10       | Slotted Hex Nut                    | 1   | 26-24                        | 26-24                          | 26-24                         |
| 11       | Cotter Pin                         | 1   | PA1932                       | PA1932                         | PA1932                        |
| 12       | Cover                              | 2   | 58008                        | 58008                          | 58008                         |
| 13       | Hex Head Bolt                      | 2   | 35-8-52                      | 35-8-52                        | 35-8-52                       |
| 14       | Lockwasher                         | 2   | 17-8C                        | 17-8C                          | 17-8C                         |
| 15       | Hex Nut                            | 2   | 22-8                         | 22-8                           | 22-8                          |
| 16       | Drive Screw                        | 4   | PA893                        | PA893                          | PA893                         |
| 17       | Capacity Plate                     | 2   | (b)                          | (b)                            | (b)                           |

No Recommended Spare Parts

#### NOTES:

(a) Current style Spring Latch Hooks are being phased out by Acco's supplier. The new style Spring Latch Hooks have a hole in the tip of the hook. This hole allows the addition of a cotter pin to prevent the latch from opening. Cotter pin is not supplied by Acco. New style hooks are interchangeable with old style hooks, but new style hooks have a thicker cross section. Latches are not interchangeable between the two style hooks. As soon as stock of current style hook is depleted, current style hook will no longer be available. Latches for current style hooks will continue to be available. When ordering, identify whether or not hook has a hole in the tip and select part numbers accordingly from the above chart.

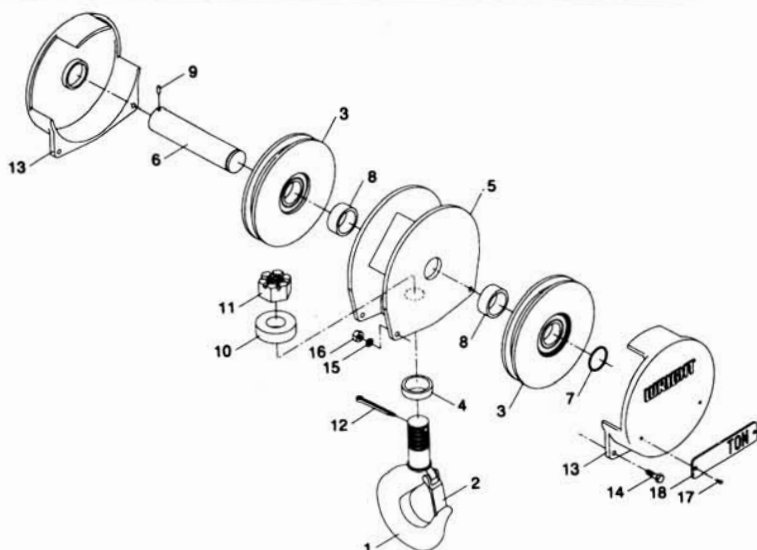
(b) Capacity Plate part numbers:

5 Ton - 69683-050      5 tonne - 69683-1050  
 7½ Ton - 69683-075      7½ tonne - 69683-1075



## PARTS LIST – PRODUCT SERIES 34

### LOAD BLOCK – 4PS REEVING 5/8" ROPE DIAMETER



Load Block Assembly 69556-01 - Steel Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69556-02 - Bullard Swivel Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69556-03 - Steel Spring Latch Type Hook, Steel Sheave  
 Load Block Assembly 69556-04 - Bullard Swivel Latch Type Hook, Steel Sheave

#### LOAD BLOCK PARTS

| ITEM NO. | DESCRIPTION                        | QTY | STEEL SPRING LATCH TYPE HOOK | BULLARD SWIVEL LATCH TYPE HOOK |
|----------|------------------------------------|-----|------------------------------|--------------------------------|
| 1        | Hook without hole in tip           | 1   | 43518 (a)                    | 59824                          |
| 1        | Hook with hole in tip              | 1   | 70943 (a)                    | N/A                            |
| 2        | Latch for hook without hole in tip | 1   | PA5327 (a)                   | N/A                            |
| 2        | Latch for hook with hole in tip    | 1   | PA7584 (a)                   | N/A                            |
| 3        | Polyamide Sheave with Bearing      | 2   | 69573                        | 69573                          |
| 3        | Steel Sheave with Bearing          | 2   | 69574                        | 69574                          |
| 4        | Spacer                             | 0   | N/A                          | N/A                            |
| 5        | Frame                              | 1   | 69597                        | 69597                          |
| 6        | Axle                               | 1   | 69598                        | 69598                          |
| 7        | Retaining Ring                     | 1   | PA7190                       | PA7190                         |
| 8        | Spacer                             | 2   | 69575                        | 69575                          |
| 9        | Roll Pin                           | 1   | PA4607                       | PA4607                         |
| 10       | Thrust Bearing                     | 1   | PA2138                       | PA2138                         |
| 11       | Slotted Hex Nut                    | 1   | 26-28                        | 26-28                          |
| 12       | Cotter Pin                         | 1   | PA2551                       | PA2551                         |
| 13       | Cover                              | 2   | 69600                        | 69600                          |
| 14       | Hex Head Bolt                      | 4   | 35-8-32                      | 35-8-32                        |
| 15       | Lockwasher                         | 4   | 17-8C                        | 17-8C                          |
| 16       | Hex Nut                            | 4   | 22-8                         | 22-8                           |
| 17       | Drive Screw                        | 4   | PA893                        | PA893                          |
| 18       | Capacity Plate                     | 2   | (b)                          | (b)                            |

No Recommended Spare Parts

#### NOTES:

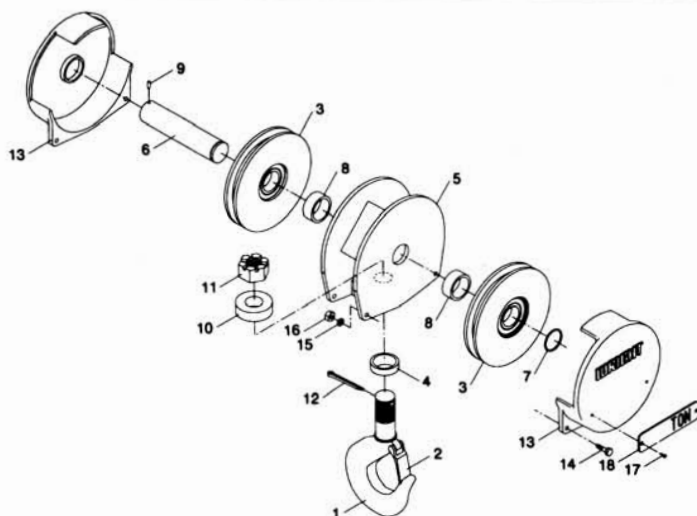
(a) Current style Spring Latch Hooks are being phased out by Acco's supplier. The new style Spring Latch Hooks have a hole in the tip of the hook. This hole allows the addition of a cotter pin to prevent the latch from opening. Cotter pin is not supplied by Acco. New style hooks are interchangeable with old style hooks, but new style hooks have a thicker cross section. Latches are not interchangeable between the two style hooks. As soon as stock of current style hook is depleted, current style hook will no longer be available. Latches for current style hooks will continue to be available. When ordering, identify whether or not hook has a hole in the tip and select part numbers accordingly from the above chart.

(b) Capacity Plate part numbers:

10 Ton - 69683-100      10 tonne - 69683-1100  
 15 Ton - 69683-150      15 tonne - 69683-1150



## PARTS LIST – PRODUCT SERIES 34



### LOAD BLOCK – 2PD REEVING 1/2" ROPE DIAMETER

Load Block Assembly 69555-01 - Steel Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69555-02 - Bullard Swivel Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69555-03 - Bronze Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69555-04 - Steel Spring Latch Type Hook, Steel Sheave  
 Load Block Assembly 69555-05 - Bullard Swivel Latch Type Hook, Steel Sheave  
 Load Block Assembly 69555-06 - Bronze Spring Latch Type Hook, Steel Sheave

#### LOAD BLOCK PARTS

| ITEM NO. | DESCRIPTION                        | QTY | STEEL SPRING LATCH TYPE HOOK | BULLARD SWIVEL LATCH TYPE HOOK | BRONZE SPRING LATCH TYPE HOOK |
|----------|------------------------------------|-----|------------------------------|--------------------------------|-------------------------------|
| 1        | Hook without hole in tip           | 1   | 58012 (a)                    | 58013                          | 58014 (a)                     |
| 1        | Hook with hole in tip              | 1   | 70893 (a)                    | N/A                            | 70901 (a)                     |
| 2        | Latch for hook without hole in tip | 1   | PA5327 (a)                   | N/A                            | PA5329 (a)                    |
| 2        | Latch for hook with hole in tip    | 1   | PA7583 (a)                   | N/A                            | PA7585 (a)                    |
| 3        | Polyamide Sheave with Bearing      | 2   | 69567                        | 69567                          | 69567                         |
| 3        | Steel Sheave with Bearing          | 2   | 69568                        | 69568                          | 69568                         |
| 4        | Spacer                             | 0   | N/A                          | N/A                            | N/A                           |
| 5        | Frame                              | 1   | 69591                        | 69591                          | 69591                         |
| 6        | Axle                               | 1   | 69592                        | 69592                          | 69592                         |
| 7        | Retaining Ring                     | 1   | PA6941                       | PA6941                         | PA6941                        |
| 8        | Spacer                             | 2   | 69569                        | 69569                          | 69569                         |
| 9        | Roll Pin                           | 1   | PA4607                       | PA4607                         | PA4607                        |
| 10       | Thrust Bearing                     | 1   | PA5832                       | PA5832                         | PA5832                        |
| 11       | Slotted Hex Nut                    | 1   | 26-24                        | 26-24                          | 26-24                         |
| 12       | Cotter Pin                         | 1   | PA1932                       | PA1932                         | PA1932                        |
| 13       | Cover                              | 2   | 69594                        | 69594                          | 69594                         |
| 14       | Hex Head Bolt                      | 4   | 35-6-32                      | 35-6-32                        | 35-6-32                       |
| 15       | Lockwasher                         | 4   | 17-6C                        | 17-6C                          | 17-6C                         |
| 16       | Hex Nut                            | 4   | 22-6                         | 22-6                           | 22-6                          |
| 17       | Drive Screw                        | 4   | PA893                        | PA893                          | PA893                         |
| 18       | Capacity Plate                     | 2   | (b)                          | (b)                            | (b)                           |

No Recommended Spare Parts

#### NOTES:

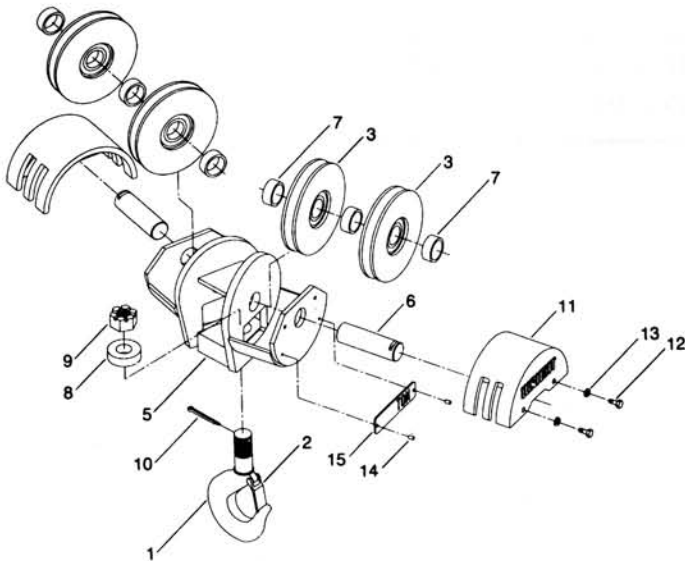
(a) Current style Spring Latch Hooks are being phased out by Acco's supplier. The new style Spring Latch Hooks have a hole in the tip of the hook. This hole allows the addition of a cotter pin to prevent the latch from opening. Cotter pin is not supplied by Acco. New style hooks are interchangeable with old style hooks, but new style hooks have a thicker cross section. Latches are not interchangeable between the two style hooks. As soon as stock of current style hook is depleted, current style hook will no longer be available. Latches for current style hooks will continue to be available. When ordering, identify whether or not hook has a hole in the tip and select part numbers accordingly from the above chart.

(b) Capacity Plate part numbers:

5 Ton - 69683-050      5 tonne - 69683-1050  
 7½ Ton - 69683-075      7½ tonne - 69683-1075

## PARTS LIST – PRODUCT SERIES 34

### LOAD BLOCK – 4PD REEVING 1/2" ROPE DIAMETER



Load Block Assembly 69559-01 - Steel Spring Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69559-03 - Bullard Swivel Latch Type Hook, Polyamide Sheave  
 Load Block Assembly 69559-02 - Steel Spring Latch Type Hook, Steel Sheave  
 Load Block Assembly 69559-04 - Bullard Swivel Latch Type Hook, Steel Sheave

#### LOAD BLOCK PARTS

| ITEM NO. | DESCRIPTION                        | QTY | STEEL SPRING LATCH TYPE HOOK | BULLARD SWIVEL LATCH TYPE HOOK |
|----------|------------------------------------|-----|------------------------------|--------------------------------|
| 1        | Hook without hole in tip           | 1   | 43577 (a)                    | 71074                          |
| 1        | Hook with hole in tip              | 1   | 70944 (a)                    | N/A                            |
| 2        | Latch for hook without hole in tip | 1   | PA5329 (a)                   | N/A                            |
| 2        | Latch for hook with hole in tip    | 1   | PA7585 (a)                   | N/A                            |
| 3        | Polyamide Sheave with Bearing      | 4   | 69567                        | 69567                          |
| 3        | Steel Sheave with Bearing          | 4   | 69568                        | 69568                          |
| 4        | Spacer                             | 0   | N/A                          | N/A                            |
| 5        | Frame                              | 1   | 69677                        | 69677                          |
| 6        | Axle                               | 2   | 69686                        | 69686                          |
| 7        | Spacer                             | 4   | 69569-04                     | 69569-04                       |
| 8        | Thrust Bearing                     | 1   | PA1248                       | PA1248                         |
| 9        | Slotted Hex Nut                    | 1   | 26-32                        | 26-32                          |
| 10       | Cotter Pin                         | 1   | PA3796                       | PA3796                         |
| 11       | Cover                              | 2   | 69673                        | 69673                          |
| 12       | Hex Head Bolt                      | 4   | 35-6-12C                     | 35-6-12C                       |
| 13       | Lockwasher                         | 4   | 17-6C                        | 17-6C                          |
| 14       | Drive Screw                        | 4   | PA893                        | PA893                          |
| 15       | Capacity Plate                     | 2   | (b)                          | (b)                            |
| 16       | Spacer                             | 2   | 69569-03                     | 69569-03                       |

No Recommended Spare Parts

#### NOTES:

(a) Current style Spring Latch Hooks are being phased out by Acco's supplier. The new style Spring Latch Hooks have a hole in the tip of the hook. This hole allows the addition of a cotter pin to prevent the latch from opening. Cotter pin is not supplied by Acco. New style hooks are interchangeable with old style hooks, but new style hooks have a thicker cross section. Latches are not interchangeable between the two style hooks. As soon as stock of current style hook is depleted, current style hook will no longer be available. Latches for current style hooks will continue to be available. When ordering, identify whether or not hook has a hole in the tip and select part numbers accordingly from the above chart.

(b) Capacity Plate part numbers:

|                    |                       |
|--------------------|-----------------------|
| 10 Ton - 69683-100 | 10 tonne - 69683-1100 |
| 15 Ton - 69683-150 | 15 tonne - 69683-1150 |

# PARTS LIST – PRODUCT SERIES 34

## GRAVITY LIMIT SWITCH

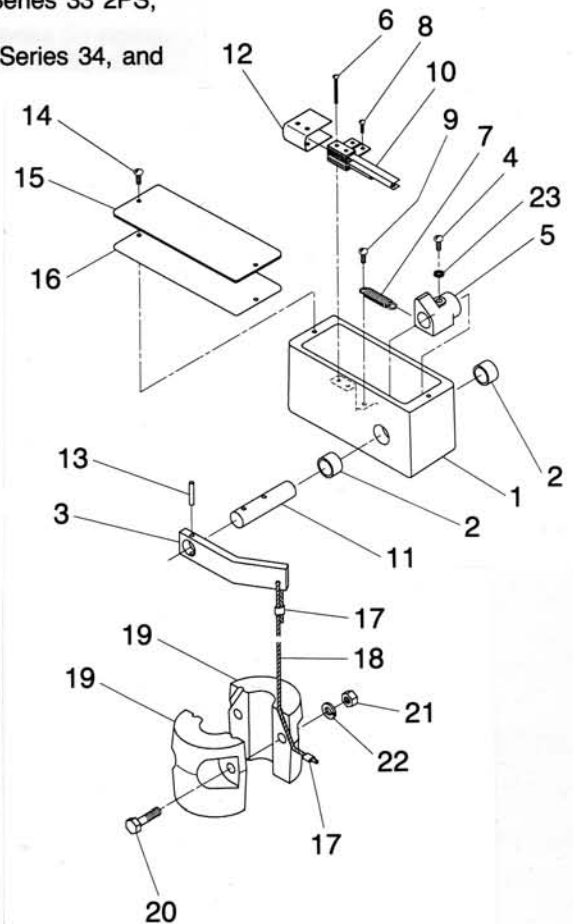
Gravity Limit Switch Assembly 70265-01 — Used on Series 32 and Series 33 2PS, 2PD, and 4PD hoists.

Gravity Limit Switch Assembly 70265-02 — Used on Series 33 4PS, Series 34, and Series 35 hoists.

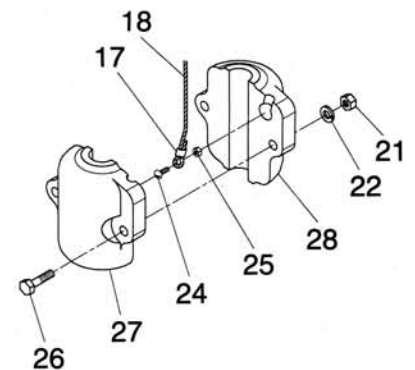
### GRAVITY LIMIT SWITCH PARTS

| ITEM NO. | PART NO. | DESCRIPTION            | QTY.<br>70265-01 | QTY.<br>70265-02 |
|----------|----------|------------------------|------------------|------------------|
| 1        | 70262    | Enclosure              | 1                | 1                |
| 2        | PA3598   | Bushing                | (a)              | (a)              |
| 3        | 69793    | Arm                    | 1                | 1                |
| 4        | 3-08-8C  | Screw                  | 1                | 1                |
| 5        | 70264    | Cam                    | 1                | 1                |
| 6        | 3-05-14C | Screw                  | 2                | 2                |
| 7        | PA7400   | Spring                 | 1                | 1                |
| 8        | 3-05-2C  | Screw                  | 3                | 3                |
| 9        | 3-010-6C | Screw                  | 1                | 1                |
| 10       | 61717    | Switch Unit            | 1                | 1                |
| 11       | 70263    | Shaft                  | 1                | 1                |
| 12       | 64104    | Insulator              | 1                | 1                |
| 13       | PA3810   | Spring Pin             | 1                | 1                |
| 14       | PA5155   | Self-tapping Screw     | 2                | 2                |
| 15       | 69804    | Cover                  | 1                | 1                |
| 16       | 69805    | Gasket                 | 1                | 1                |
| 17       | PA2242   | Oval Cable Sleeve      | 2                | 2                |
| 18       | PA3113   | Wire Rope              | A.R.             | A.R.             |
| 19       | 69827    | Weight Half            | 2                | 0                |
| 20       | 35-4-16C | Bolt                   | 2                | 0                |
| 21       | 22-4C    | Hex Nut                | 2                | 2                |
| 22       | 17-4C    | Lockwasher             | 2                | 2                |
| 23       | 19-08C   | Lockwasher, Int. Tooth | 1                | 1                |
| 24       | 3-010-6C | Screw                  | 0                | 1                |
| 25       | 30-01C   | Hex Nut                | 0                | 1                |
| 26       | 35-4-24C | Bolt                   | 0                | 2                |
| 27       | A2007L1  | Weight Half, Left      | 0                | 1                |
| 28       | A2007R1  | Weight Half, Right     | 0                | 1                |

No Recommended Spare Parts



**ASSEMBLY-01**



**ASSEMBLY-02**

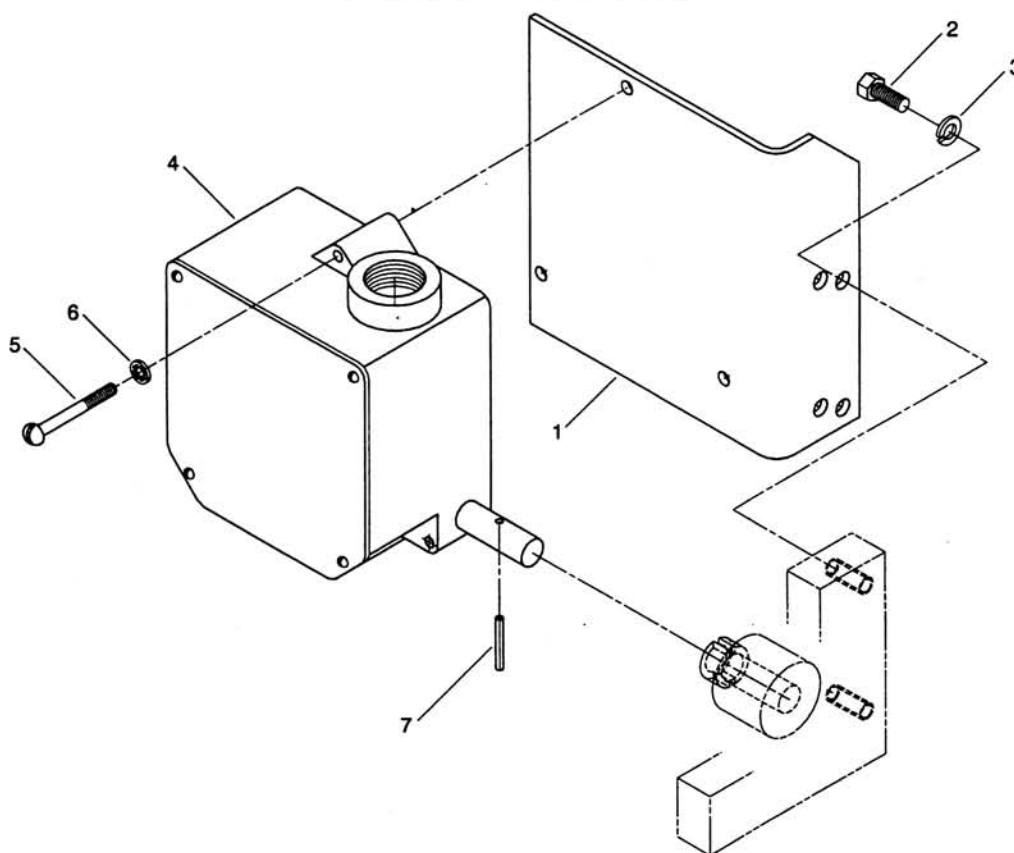
### NOTES:

(a) Included with Item 1.

(b) Gravity limit switch attached to hoist frame with two (2) Round Head Screws, Part No. 3-010-16C, and two (2) Locknuts, Part No. PA2423.

## PARTS LIST – PRODUCT SERIES 34

### GEARED LIMIT SWITCH



### GEARED LIMIT SWITCH PARTS

| ITEM NO. | PART NO.  | DESCRIPTION                                                  | QTY. |
|----------|-----------|--------------------------------------------------------------|------|
| 1        | 69965     | Mounting Plate                                               | 1    |
| 2        | 35-4-8C   | Hex Head Bolt                                                | 2    |
| 3        | 17-4C     | Lockwasher                                                   | 2    |
| 4 (a)    | 61649-07  | Geared Limit Switch 2 Circuit - 40:1 Ratio - 38 Max. Turns   | 1    |
|          | 61649-05  | Geared Limit Switch 4 Circuit - 40:1 Ratio - 38 Max. Turns   | 1    |
|          | 61649-08  | Geared Limit Switch 2 Circuit - 80:1 Ratio - 75 Max. Turns   | 1    |
|          | 61649-06  | Geared Limit Switch 4 Circuit - 80:1 Ratio - 75 Max. Turns   | 1    |
|          | 61649-01  | Geared Limit Switch 2 Circuit - 111:1 Ratio - 104 Max. Turns | 1    |
|          | 61649-03  | Geared Limit Switch 4 Circuit - 111:1 Ratio - 104 Max. Turns | 1    |
|          | 61649-10  | Geared Limit Switch 2 Circuit - 222:1 Ratio - 208 Max. Turns | 1    |
|          | 61649-12  | Geared Limit Switch 4 Circuit - 222:1 Ratio - 208 Max. Turns | 1    |
| 5        | 3-010-24C | Round Head Screw                                             | 3    |
| 6        | 19-010C   | Lockwasher                                                   | 3    |
| 7        | PA3810    | Drive Pin                                                    | 1    |

No Recommended Spare Parts

#### NOTE:

- (a) For Geared Limit Switch selection, the maximum possible number of input shaft turns must be greater than the total number of grooves on a single reeved drum or the total number of grooves per side on a double reeved drum. With standard grooving, the following drum numbers are the maximum length drums on which the indicated switch ratios can be used.

40:1 Ratio can be used up to 2PS and 4PS Drum Number 2 or 2PD and 4PD Drum Number 4.

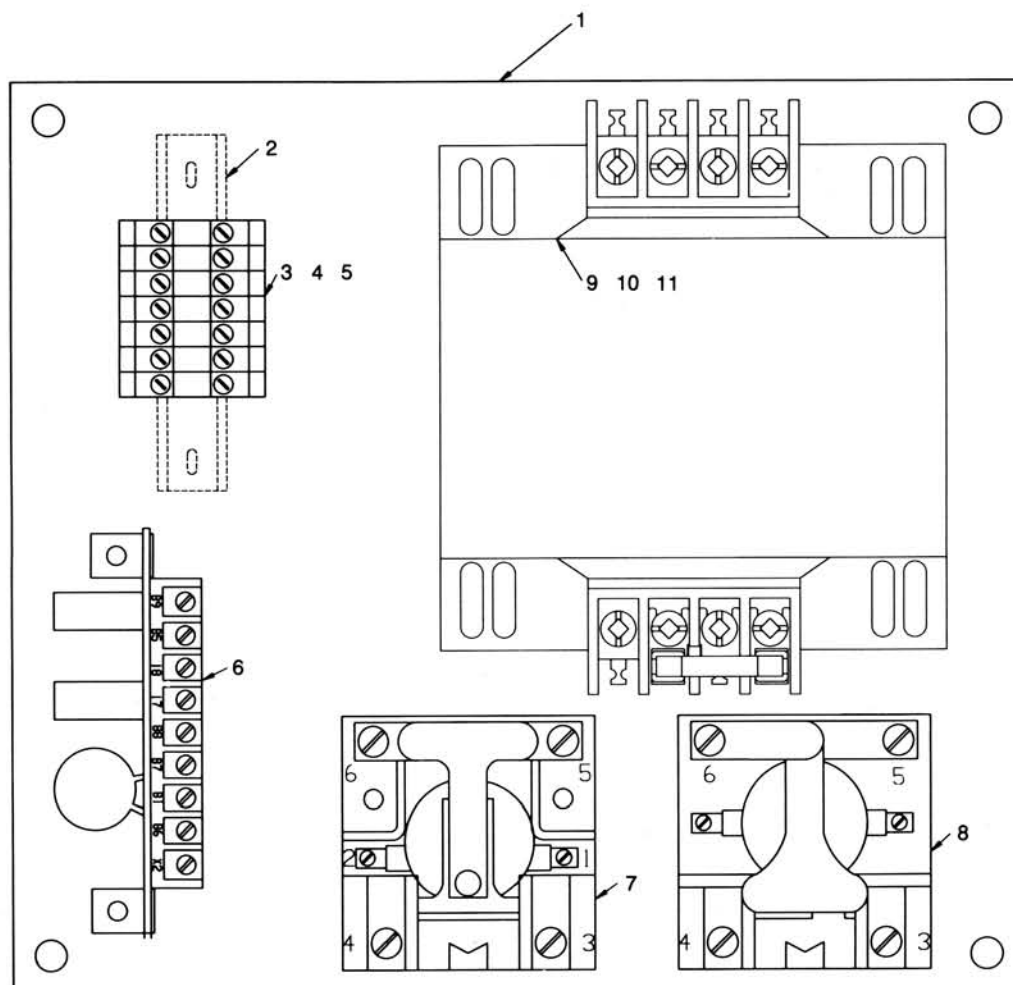
80:1 Ratio can be used up to 2PS and 4PS Drum Number 4 or 2PD and 4PD Drum Number 5.

111:1 Ratio can be used up to 2PS and 4PS Drum Number 5 or 2PD and 4PD Drum Number 6.

222:1 Ratio can be used up to 2PS and 4PS Drum Number 6.

# PARTS LIST – PRODUCT SERIES 34

## HOIST RECTIFIED D.C. BRAKE CONTROL



### REPLACEMENT PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION                               |
|----------|-------------|-------------------------------------------|
| 1        | 86828       | Panel, Drilled                            |
| 2        | 86714-12    | Din Rail, Pre-cut, 3-1/2" L.              |
| 3        | 86710-05    | Terminal, End Anchor                      |
| 4        | 86710-07    | Terminal, End Barrier                     |
| 5        | 86710-01    | Terminal, Control                         |
| 6▲       | 86712       | Brake Circuit Control Board               |
| 7▲       | PA6496      | Relay, Brake Ctrl. (BC) for 115V. Control |
|          | PA6373      | Relay, Brake Ctrl. (BC) for 24V. Control  |

▲ Recommended Spare Parts

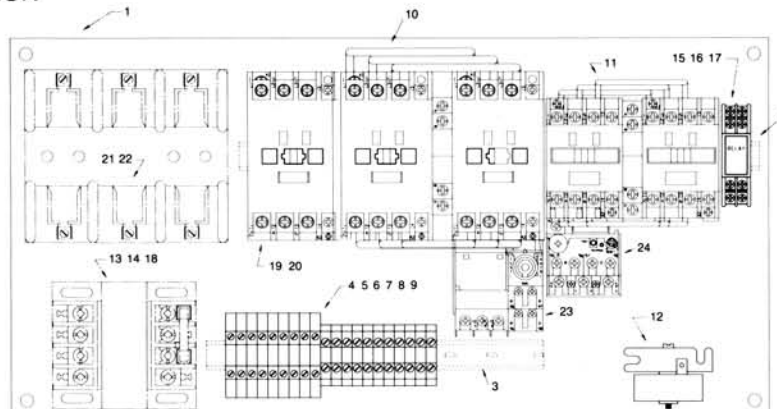
| ITEM NO. | PART NUMBER | DESCRIPTION                         |
|----------|-------------|-------------------------------------|
| 8▲       | PA6254      | Relay, Brake (BR) for 115V. Control |
|          | PA6255      | Relay, Brake (BR) for 24V. Control  |
| 9        | 52429-80    | Transformer Fuse Holder             |
| 10▲      | PA6334      | Transformer Fuse (350VA)            |
|          | PA6335      | Transformer Fuse (500VA)            |
| 11       | 52429-09    | Transformer, 350VA, 200-115         |
|          | 52429-21    | Transformer, 350VA, 230/460-115     |
|          | 52429-44    | Transformer, 350VA, 575-115         |
|          | 52429-10    | Transformer, 500VA, 200-115         |
|          | 52429-22    | Transformer, 500VA, 230/460-115     |
|          | 52429-45    | Transformer, 500VA, 575-115         |



# PARTS LIST – PRODUCT SERIES 34

## BASIC CONTROL COMPONENTS

SINGLE OR TWO SPEED HOIST, LUG MTD., PLAIN OR GEARED TROLLEY OR SINGLE SPEED HOIST SINGLE SPEED TROLLEY COMBINATION



### REPLACEMENT PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION                                                                                                                     |
|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1        | 86822       | Panel, Drilled                                                                                                                  |
| 2        | 86714-06    | DIN Rail, Pre-cut, 12"                                                                                                          |
| 3        | 86714-02    | DIN Rail, Pre-cut, 8"                                                                                                           |
| 4        | 86710-04    | Terminal, Grounding                                                                                                             |
| 5        | 86710-05    | Terminal, End Anchor                                                                                                            |
| 6        | 86710-06    | Terminal, End Barrier, Power                                                                                                    |
| 7        | 86710-07    | Terminal, End Barrier, Control                                                                                                  |
| 8        | 86710-01    | Terminal, Control                                                                                                               |
| 9        | 86710-02    | Terminal, Power                                                                                                                 |
| 10▲      | 86729-01    | Contactor, Reversing, (or Two Speed) 115 V (Hoist) Size C, For Two Speed Contactor remove load side jumper wires (black wires)  |
|          | 86729-02    | Contactor, Reversing, (or Two Speed) 24 V (Hoist) Size C, For Two Speed Contactor remove load side jumper wires (black wires)   |
|          | 86730-01    | Contactor, Reversing (or Two Speed) 115 V (Hoist) Size D, For Two Speed Contactor remove load side jumper wires (black wires)   |
|          | 86730-02    | Contactor, Reversing (or Two Speed) 24 V (Hoist) Size D, For Two Speed Contactor remove load side jumper wires (black wires)    |
| 11▲      | 86727-01    | Contactor, Reversing (or Two Speed) 115 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires) |
|          | 86727-02    | Contactor, Reversing (or Two Speed) 115 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires) |
| 12       | PA7103      | Time Capsule, 115 V (Two Speed Only)                                                                                            |
|          | PA7104      | Time Capsule, 24 V (Two Speed Only)                                                                                             |

| ITEM NO.  | PART NUMBER | DESCRIPTION                                                                                     |
|-----------|-------------|-------------------------------------------------------------------------------------------------|
| 13        | 52429-80    | Transformer Fuse Clip (24 V controls only)                                                      |
| 14▲       | PA7330      | Transformer Fuse (24 V controls only) 50 VA                                                     |
|           | PA6334      | Transformer Fuse (24 V controls only) 75 VA                                                     |
| 15▲       | PA7382      | Relay, Control, 115 V (Two Speed Only)                                                          |
|           | PA7383      | Relay, Control, 24 V (Two Speed Only)                                                           |
| 16        | PA7384      | Relay, Socket                                                                                   |
| 17        | PA7385      | Relay, Retainer Clip                                                                            |
| 18        | 52429-XX    | Transformer (24 V controls only) -52 for 200 V; -26 for 230/460 V; -64 for 575 V Supply (50 VA) |
|           | 52429-XX    | Transformer (24 V controls only) -53 for 200 V; -27 for 230/460 V; -65 for 575 V Supply (75 VA) |
| 19        | 86733-01    | Mainline Contactor, 115 V Size C (Optional)                                                     |
|           | 86733-02    | Mainline Contactor, 24 V Size C (Optional)                                                      |
|           | 86734-01    | Mainline Contactor, 115 V Size D (Optional)                                                     |
|           | 86734-02    | Mainline Contactor, 24 V Size D (Optional)                                                      |
| 20        | 86737-10    | Contact Block, Aux. (used with Mainline Contactor)                                              |
| 21        | PA7341      | Fuse Block, Mtr. Ckt. 30A. (Optional)                                                           |
|           | PA7342      | Fuse Block, Mtr. Ckt. 60A. (Optional)                                                           |
| 22▲       | 86709-XX    | Fuse, Mtr. Ckt. (Optional) see note below                                                       |
| 23        | 86736-XX    | Overload Relay, Hoist (Optional) see note below                                                 |
| 24        | 86736-XX    | Overload Relay, Trolley (Optional) see note below                                               |
| Not Shown | 69505-02    | Danger Label, Electrical                                                                        |

▲ Recommended Spare Parts

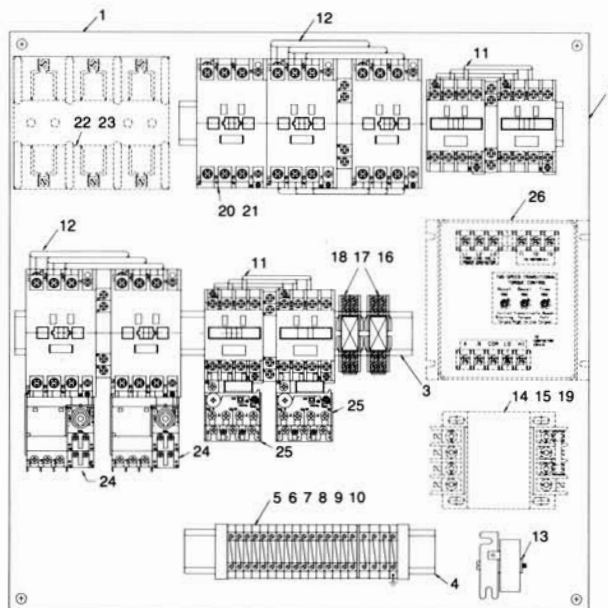
#### NOTE:

When ordering Motor Circuit Fuses or Overload Relays, provide as much information about the hoist as possible. Hoist serial number, motor H.P's., full load currents, supply voltage, etc.

## PARTS LIST – PRODUCT SERIES 34

### BASIC CONTROL COMPONENTS

SINGLE OR TWO SPEED HOIST AND TROLLEY CONTROL WITH ACM & SIZE "C" HOIST CONTACTOR



### REPLACEMENT PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION                                                                                                                    |
|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1        | 86824       | Panel, Drilled                                                                                                                 |
| 2        | 86714-11    | DIN Rail, Pre-cut, 13" L.                                                                                                      |
| 3        | 86714-10    | DIN Rail, Pre-cut, 12.5" L.                                                                                                    |
| 4        | 86714-02    | DIN Rail, Pre-cut, 8" L.                                                                                                       |
| 5        | 86710-04    | Terminal, Grounding                                                                                                            |
| 6        | 86710-05    | Terminal, End Anchor                                                                                                           |
| 7        | 86710-06    | Terminal, End Barrier, Power                                                                                                   |
| 8        | 86710-07    | Terminal, End Barrier, Control                                                                                                 |
| 9        | 86710-01    | Terminal, Control                                                                                                              |
| 10       | 86710-02    | Terminal, Power                                                                                                                |
| 11 ▲     | 86727-01    | Contact, Reversing, (or Two Speed) 115 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires) |
|          | 86727-02    | Contact, Reversing, (or Two Speed) 24 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires)  |
| 12 ▲     | 86729-01    | Contact, Reversing, (or Two Speed) 115 V (Hoist) Size C, For Two Speed Contactor remove load side jumper wires (black wires)   |
|          | 86729-02    | Contact, Reversing, (or Two Speed) 24 V (Hoist) Size C, For Two Speed Contactor remove load side jumper wires (black wires)    |
| 13       | PA7103      | Time Capsule, 115 V (Two Speed Only)                                                                                           |
|          | PA7104      | Time Capsule, 24 V (Two Speed Only)                                                                                            |
| 14       | 52429-80    | Transformer Fuse Clip (24 V Models Only)                                                                                       |
| 15 ▲     | PA7330      | Transformer Fuse (24 V Models Only)                                                                                            |

### ▲ Recommended Spare Parts

### NOTE:

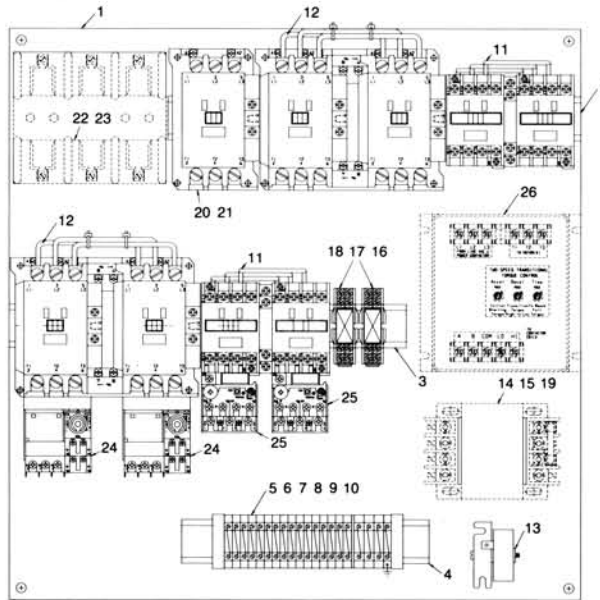
When ordering Motor Circuit Fuses or Overload Relays, provide as much information about the hoist as possible. Hoist serial number, motor H.P.'s., full load currents, supply voltage, etc. ACM's listed are for 115 V control only. For 24 V control, order by description.

| ITEM NO.  | PART NUMBER | DESCRIPTION                                                                                     |
|-----------|-------------|-------------------------------------------------------------------------------------------------|
| 16        | PA7382      | Relay, Control, 115 V (Two Speed Only)                                                          |
|           | PA7383      | Relay, Control, 24 V (Two Speed Only)                                                           |
| 17        | PA7384      | Relay, Socket (Two Speed Only)                                                                  |
| 18        | PA7385      | Relay, Hold Down Clip                                                                           |
| 19        | 52429-XX    | Transformer (24 V controls only) -52 for 200 V; -26 for 230/460 V; -64 for 575 V Supply (50 VA) |
| 20        | 86733-01    | Mainline Contactor, 115 V Size C (optional)                                                     |
|           | 86733-02    | Mainline Contactor, 24 V Size C (optional)                                                      |
| 21        | 86737-10    | Contact Block, Aux. (used with Mainline Contactor)                                              |
| 22        | PA7341      | Fuse Block, Motor Ckt. 30A. (Optional)                                                          |
|           | PA7342      | Fuse Block, Motor Ckt. 60A. (Optional)                                                          |
| 23 ▲      | 86709-XX    | Fuse, Motor Circuit (Optional) see note below                                                   |
| 24        | 86736-XX    | Overload Relay, Hoist (Optional) see note below                                                 |
| 25        | 86736-XX    | Overload Relay, Trolley (Optional) see note below                                               |
| 26        | 86715-017   | ACM, S.S., 1 H.P. Max. 200-230 V, 2 H.P. Max 460 V                                              |
|           | 86715-019   | ACM, S.S., 2.5 H.P. Max. 200-230 V, 5 H.P. Max 460 V                                            |
|           | 86715-018   | ACM, 2S., 1 H.P. Max. 200-230 V, 2 H.P. Max 460 V                                               |
|           | 86715-020   | ACM, 2S., 2.5 H.P. Max. 200-230 V, 5 H.P. Max 460 V                                             |
|           | 86715-002   | ACM, S.S., 2 H.P. Max. 575 V                                                                    |
|           | 86715-004   | ACM, S.S., 5 H.P. Max. 575 V                                                                    |
|           | 86715-006   | ACM, 2S., 2 H.P. Max. 575 V                                                                     |
|           | 86715-008   | ACM, 2S., 5 H.P. Max. 575 V                                                                     |
| Not Shown | 69505-02    | Danger Label, Electrical                                                                        |

# PARTS LIST – PRODUCT SERIES 34

## BASIC CONTROL COMPONENTS

SINGLE OR TWO SPEED HOIST AND TROLLEY CONTROL WITH SIZE "D" HOIST CONTACTOR



### REPLACEMENT PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION                                                                                                                      |
|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1        | 86824       | Panel, Drilled                                                                                                                   |
| 2        | 86714-11    | DIN Rail, Pre-cut, 13" L.                                                                                                        |
| 3        | 86714-10    | DIN Rail, Pre-cut, 12.5" L.                                                                                                      |
| 4        | 86714-02    | DIN Rail, Pre-cut, 8" L.                                                                                                         |
| 5        | 86710-04    | Terminal, Grounding                                                                                                              |
| 6        | 86710-05    | Terminal, End Anchor                                                                                                             |
| 7        | 86710-06    | Terminal, End Barrier, Power                                                                                                     |
| 8        | 86710-07    | Terminal, End Barrier, Control                                                                                                   |
| 9        | 86710-01    | Terminal, Control                                                                                                                |
| 10       | 86710-02    | Terminal, Power                                                                                                                  |
| 11 ▲     | 86727-01    | Contactor, Reversing, (or Two Speed) 115 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires) |
|          | 86727-02    | Contactor, Reversing, (or Two Speed) 24 V (Trolley) Size B, For Two Speed Contactor remove load side jumper wires (black wires)  |
| 12 ▲     | 86730-01    | Contactor, Reversing, (or Two Speed) 115 V (Hoist) Size D, For Two Speed Contactor remove load side jumper wires (black wires)   |
|          | 86730-02    | Contactor, Reversing, (or Two Speed) 24 V (Hoist) Size D, For Two Speed Contactor remove load side jumper wires (black wires)    |
| 13       | PA7103      | Time Capsule, 115 V (Two Speed Only)                                                                                             |
|          | PA7104      | Time Capsule, 24 V (Two Speed Only)                                                                                              |
| 14       | 52429-80    | Transformer Fuse Clip (24 V Models Only)                                                                                         |
| 15 ▲     | PA6335      | Transformer Fuse (24 V Models Only)                                                                                              |

| ITEM NO.  | PART NUMBER | DESCRIPTION                                                                                      |
|-----------|-------------|--------------------------------------------------------------------------------------------------|
| 16        | PA7382      | Relay, Control, 115 V (Two Speed Only)                                                           |
|           | PA7383      | Relay, Control, 24 V (Two Speed Only)                                                            |
| 17        | PA7384      | Relay, Socket (Two Speed Only)                                                                   |
| 18        | PA7385      | Relay, Hold Down Clip                                                                            |
| 19        | 52429-XX    | Transformer (24 V controls only) -54 for 200 V; -28 for 230/460 V; -66 for 575 V Supply (100 VA) |
| 20        | 86734-01    | Mainline Contactor, 115 V Size D (optional)                                                      |
|           | 86734-02    | Mainline Contactor, 24 V Size D (optional)                                                       |
| 21        | 86737-10    | Contact Block, Aux. (used with Mainline Contactor)                                               |
| 22        | PA7341      | Fuse Block, Motor Ckt. 30A. (Optional)                                                           |
|           | PA7342      | Fuse Block, Motor Ckt. 60A. (Optional)                                                           |
| 23 ▲      | 86709-XX    | Fuse, Motor Circuit (Optional) see note below                                                    |
| 24        | 86736-XX    | Overload Relay, Hoist (Optional) see note below                                                  |
| 25        | 86736-XX    | Overload Relay, Trolley (Optional) see note below                                                |
| 26        | 86715-017   | ACM, S.S., 1 H.P. Max. 200-230 V, 2 H.P. Max 460 V                                               |
|           | 86715-019   | ACM, S.S., 2.5 H.P. Max. 200-230 V, 5 H.P. Max 460 V                                             |
|           | 86715-018   | ACM, 2S., 1 H.P. Max. 200-230 V, 2 H.P. Max 460 V                                                |
|           | 86715-020   | ACM, 2S., 2.5 H.P. Max. 200-230 V, 5 H.P. Max 460 V                                              |
|           | 86715-002   | ACM, S.S., 2 H.P. Max. 575 V                                                                     |
|           | 86715-004   | ACM, S.S., 5 H.P. Max. 575 V                                                                     |
|           | 86715-006   | ACM, 2S., 2 H.P. Max. 575 V                                                                      |
|           | 86715-008   | ACM, 2S., 5 H.P. Max. 575 V                                                                      |
| Not Shown | 69505-02    | Danger Label, Electrical                                                                         |

▲ Recommended Spare Parts

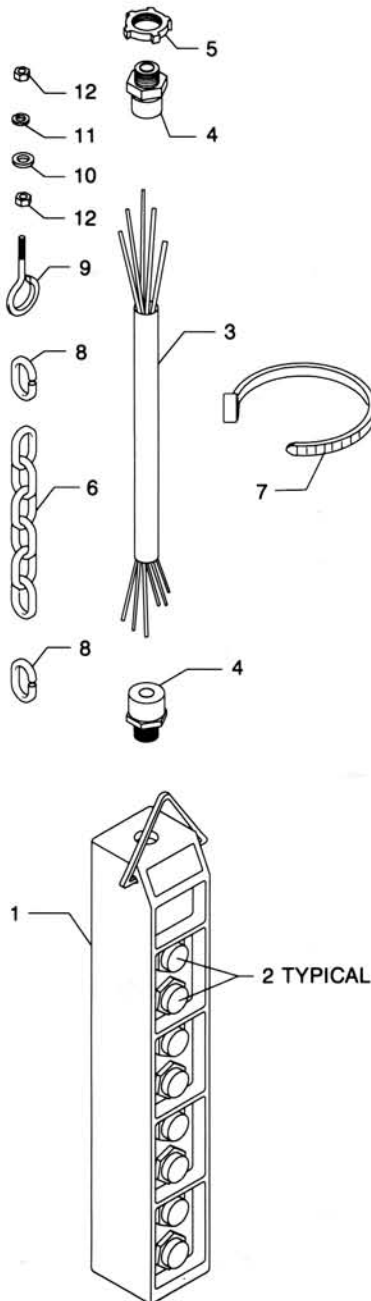
### NOTE:

When ordering Motor Circuit Fuses or Overload Relays, provide as much information about the hoist as possible. Hoist serial number, motor H.P.'s, full load currents, supply voltage, etc. ACM's listed are for 115 V control only, for 24 V order by description.



## PENDANT CONTROL STATION

### PENDANT CONTROL STATION PARTS LIST



**PUSHBUTTON STATION**



**WARNING LABEL  
63178-01  
Replace Label  
If Lost or Illegible**

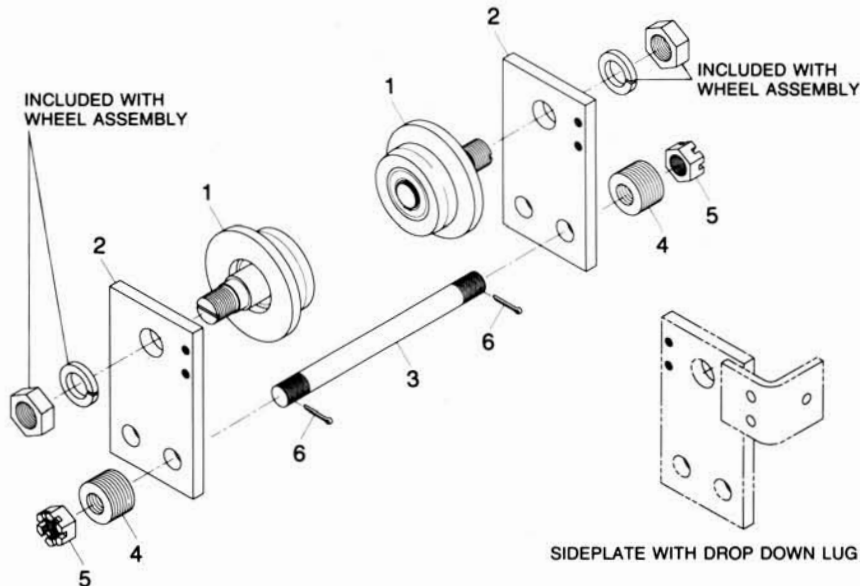
| ITEM NO. | PART NUMBER | DESCRIPTION                            |
|----------|-------------|----------------------------------------|
| 1        | 86716-01    | 2-Button Enclosure                     |
|          | 86716-02    | 4-Button Enclosure                     |
|          | 86716-03    | 6-Button Enclosure                     |
|          | 86716-04    | 8-Button Enclosure                     |
|          | 86716-05    | 10-Button Enclosure                    |
| 2        | 86716-06    | Single Speed Button Assy.              |
|          | 86716-07    | Two Speed Button Assy.                 |
|          | 86716-08    | Three Speed Button Assy.               |
|          | 86716-09    | Five Speed Button Assy.                |
|          | 86716-10    | On Button (Green)                      |
|          | 86716-11    | Off Button (Red)                       |
|          | 86716-12    | Pilot Light (Red)                      |
|          | 86716-13    | Two Position Maint. Selector Switch    |
|          | 86716-14    | Three Position Maint. Selector Switch  |
|          | 86716-15    | Push - Pull Operator (Maint.)          |
|          | 86716-16    | Red Mushroom Head Operator (Momentary) |
|          | 86716-17    | Two Position Keylock Selector (Maint.) |
|          | 86716-18    | 2-Button Maint. Operator (Interlocked) |
|          | 86716-19    | Contact Block (1 N.O. & 1 N.C.)        |
|          | 86716-20    | Closing Button (For Unused Holes)      |
|          | 86716-21    | P.B. Operator (Black, 1 N.O. & 1 N.C.) |
| 3        | 62046       | Cable, 16 AWG., 4 Cond.                |
|          | PA2513      | Cable, 16 AWG. 8 Cond.                 |
|          | PA2514      | Cable, 16 AWG., 14 Cond.               |
|          | PA6706      | Cable, 16 AWG., 24 Cond.               |
| 4        | PA2427      | Cable Grip, 4 Cond. Cable              |
|          | PA6652      | Cable Grip, 8 Cond. Cable              |
|          | PA2517      | Cable Grip, 14 Cond. Cable             |
|          | PA6705      | Cable Grip, 24 Cond. Cable             |
| 5        | PA1827      | Locknut for PA2427 & PA6652            |
|          | PA2036      | Locknut for PA2517                     |
|          | PA1828      | Locknut for PA6705                     |
| 6        | PA2034      | Strain Relief Chain                    |
| 7        | PA6750      | Self Locking Tie                       |
| 8        | PA2035      | Chain Repair Link                      |
| 9        | PA5037      | Eye Bolt                               |
| 10       | 15-4-2C     | Washer                                 |
| 11       | 17-4C       | Lockwasher                             |
| 12       | 22-4C       | Nut                                    |
| 13       | 63178-01    | Warning Label                          |

**NOTE:** When ordering pushbutton control cable or strain relief chain, specify length in feet. When specifying length of control cable, allow sufficient length to make connections inside of pushbutton station and control enclosure.



## PARTS LIST – PRODUCT SERIES 34

### 2-WHEEL PLAIN TROLLEY ASSEMBLY 6 IN. DIAMETER WHEEL – NON-SWIVELING – TWO MOUNTING STUDS



### TROLLEY PARTS – 6" DIAMETER WHEELS

| TROLLEY ASSEMBLY | BEAM FLANGE WIDTH (Inches) | DROP DOWN LUGS | WHEEL ASSEMBLY    |          | SIDEPLATE     | SIDEPLATE     | STUD          | WASHER   |         | NUT           | COTTER PIN    |
|------------------|----------------------------|----------------|-------------------|----------|---------------|---------------|---------------|----------|---------|---------------|---------------|
|                  |                            |                | 2 PER TROLLEY     |          | 1 PER TROLLEY | 1 PER TROLLEY | 2 PER TROLLEY |          |         | 4 PER TROLLEY | 4 PER TROLLEY |
|                  |                            |                | MATL.             | ITEM 1   | ITEM 2        | ITEM 2        | ITEM 3        | QTY/TRLY | ITEM 4  | ITEM 5        | ITEM 6        |
| 69988-01         | 4-1/2 to 5                 | No             | Steel Dual Tread  | 69974-01 | 69986-01      | 69986-01      | 69766-04      | 36       | A210-03 | 26-20         | PA1355        |
| 69988-02         | 5-1/8 to 8                 |                |                   |          |               |               | 69766-05      | 76       |         |               |               |
| 69988-03         | 8-1/8 to 10-1/2            |                |                   |          | 69987-01      | 69987-01      | 69766-06      | 40       |         |               |               |
| 69988-17         | 10-5/8 to 12-1/2           |                |                   |          | 69987-04      | 69987-04      | 69766-07      |          |         |               |               |
| 69988-18         | 12-5/8 to 14               |                |                   |          | 69987-07      | 69987-07      | 69766-08      |          |         |               |               |
| 69988-04         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69974-02 | 69986-01      | 69986-01      | 69766-04      | 36       |         |               |               |
| 69988-05         | 5-1/8 to 8                 |                |                   |          |               |               | 69766-05      | 76       |         |               |               |
| 69988-06         | 8-1/8 to 10-1/2            |                |                   |          | 69987-01      | 69987-01      | 69766-06      | 40       |         |               |               |
| 69988-19         | 10-5/8 to 12-1/2           |                |                   |          | 69987-04      | 69987-04      | 69766-07      |          |         |               |               |
| 69988-20         | 12-5/8 to 14               |                |                   |          | 69987-07      | 69987-07      | 69766-08      |          |         |               |               |
| 69988-07         | 4-1/2 to 5                 | Yes            | Steel Dual Tread  | 69974-01 | 69986-02      | 69986-03      | 69766-04      | 36       |         |               |               |
| 69988-08         | 5-1/8 to 8                 |                |                   |          |               |               | 69766-05      | 76       |         |               |               |
| 69988-09         | 8-1/8 to 10-1/2            |                |                   |          | 69987-02      | 69987-03      | 69766-06      | 40       |         |               |               |
| 69988-21         | 10-5/8 to 12-1/2           |                |                   |          | 69987-05      | 69987-06      | 69766-07      |          |         |               |               |
| 69988-22         | 12-5/8 to 14               |                |                   |          | 69987-08      | 69987-09      | 69766-08      |          |         |               |               |
| 69988-10         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69974-02 | 69986-02      | 69986-03      | 69766-04      | 36       |         |               |               |
| 69988-11         | 5-1/8 to 8                 |                |                   |          |               |               | 69766-05      | 76       |         |               |               |
| 69988-12         | 8-1/8 to 10-1/2            |                |                   |          | 69987-02      | 69987-03      | 69766-06      | 40       |         |               |               |
| 69988-23         | 10-5/8 to 12-1/2           |                |                   |          | 69987-05      | 69987-06      | 69766-07      |          |         |               |               |
| 69988-24         | 12-5/8 to 14               |                |                   |          | 69987-08      | 69987-09      | 69766-08      |          |         |               |               |
| 69988-13         | 3-1/4 to 5 (a)             | No             | Steel Flat        | 69976-01 | 69986-01      | 69986-01      | 69766-04      | 36       |         |               |               |
| 69988-14         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69976-02 |               |               |               |          |         |               |               |
| 69988-15         | 3-1/4 to 5 (a)             | Yes            | Steel Flat        | 69976-01 | 69986-02      | 69986-03      |               |          |         |               |               |
| 69988-16         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69976-02 |               |               |               |          |         |               |               |

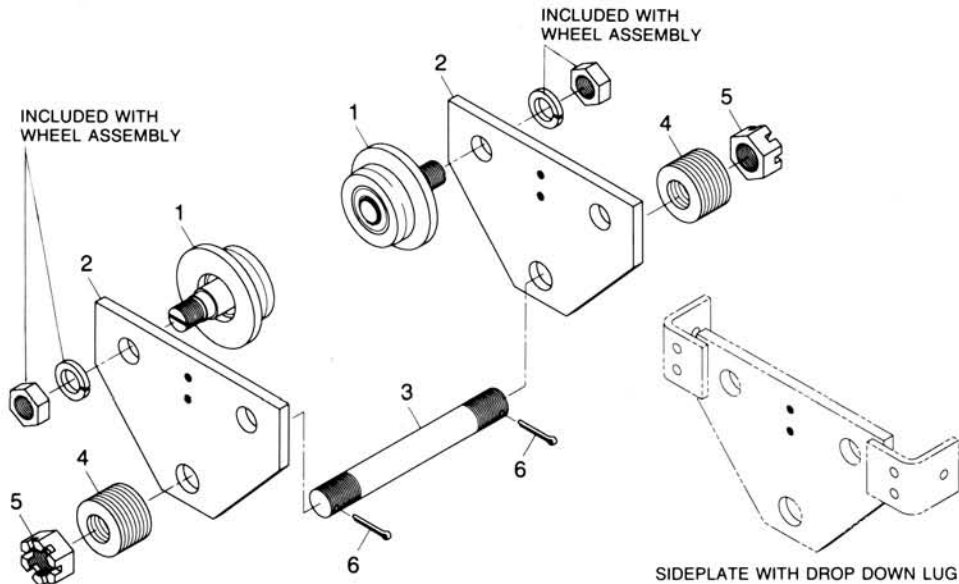
No Recommended Spare Parts

**NOTE:** (a) For operation on patented monorail track.



# PARTS LIST – PRODUCT SERIES 34

## 4-WHEEL PLAIN TROLLEY ASSEMBLY 6 IN. DIAMETER WHEEL – NON-SWIVELING – ONE MOUNTING STUD



### TROLLEY PARTS – 6" DIAMETER WHEELS

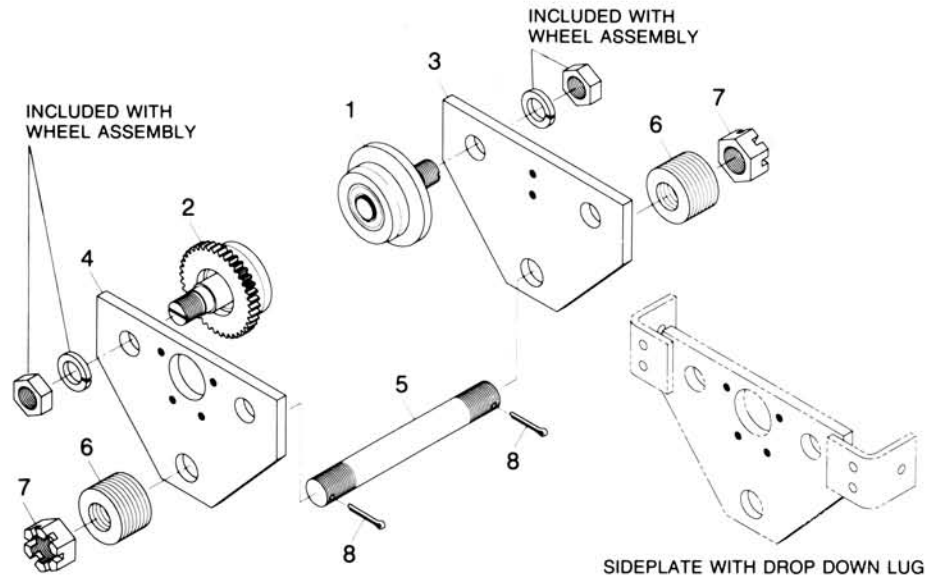
| TROLLEY ASSEMBLY | BEAM FLANGE WIDTH (Inches) | DROP DOWN LUGS | WHEEL ASSEMBLY    |          | SIDEPLATE     | STUD          | WASHER   |        | NUT           | COTTER PIN    |
|------------------|----------------------------|----------------|-------------------|----------|---------------|---------------|----------|--------|---------------|---------------|
|                  |                            |                | 4 PER TROLLEY     |          | 2 PER TROLLEY | 1 PER TROLLEY |          |        | 2 PER TROLLEY | 2 PER TROLLEY |
|                  |                            |                | MATL.             | ITEM 1   | ITEM 2        | ITEM 3        | QTY/TRLY | ITEM 4 | ITEM 5        | ITEM 6        |
| 69993-01         | 4-1/2 to 5                 | No             | Steel Dual Tread  | 69974-01 | 69979-01      | 69768-04      | 16       | PA5167 | 26-32         | PA3796        |
| 69993-02         | 5-1/8 to 8                 |                |                   |          | 69980-01      | 69768-05      | 18       |        |               |               |
| 69993-03         | 8-1/8 to 10-1/2            |                |                   |          | 69981-01      | 69768-06      | 20       |        |               |               |
| 69993-17         | 10-5/8 to 12-1/2           |                |                   |          | 69981-03      | 69768-07      |          |        |               |               |
| 69993-18         | 12-5/8 to 14               |                |                   |          | 69981-05      | 69768-08      |          |        |               |               |
| 69993-04         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69974-02 | 69979-01      | 69768-04      | 16       |        |               |               |
| 69993-05         | 5-1/8 to 8                 |                |                   |          | 69980-01      | 69768-05      | 18       |        |               |               |
| 69993-06         | 8-1/8 to 10-1/2            |                |                   |          | 69981-01      | 69768-06      | 20       |        |               |               |
| 69993-19         | 10-5/8 to 12-1/2           |                |                   |          | 69981-03      | 69768-07      |          |        |               |               |
| 69993-20         | 12-5/8 to 14               |                |                   |          | 69981-05      | 69768-08      |          |        |               |               |
| 69993-07         | 4-1/2 to 5                 | Yes            | Steel Dual Tread  | 69974-01 | 69979-02      | 69768-04      | 16       |        |               |               |
| 69993-08         | 5-1/8 to 8                 |                |                   |          | 69980-02      | 69768-05      | 18       |        |               |               |
| 69993-09         | 8-1/8 to 10-1/2            |                |                   |          | 69981-02      | 69768-06      | 20       |        |               |               |
| 69993-21         | 10-5/8 to 12-1/2           |                |                   |          | 69981-04      | 69768-07      |          |        |               |               |
| 69993-22         | 12-5/8 to 14               |                |                   |          | 69981-06      | 69768-08      |          |        |               |               |
| 69993-10         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69974-02 | 69979-02      | 69768-04      | 16       |        |               |               |
| 69993-11         | 5-1/8 to 8                 |                |                   |          | 69980-02      | 69768-05      | 18       |        |               |               |
| 69993-12         | 8-1/8 to 10-1/2            |                |                   |          | 69981-02      | 69768-06      | 20       |        |               |               |
| 69993-23         | 10-5/8 to 12-1/2           |                |                   |          | 69981-04      | 69768-07      |          |        |               |               |
| 69993-24         | 12-5/8 to 14               |                |                   |          | 69981-06      | 69768-08      |          |        |               |               |
| 69993-13         | 3-1/4 to 5 (a)             | No             | Steel Flat        | 69976-01 | 69979-01      | 69768-04      | 16       |        |               |               |
| 69993-14         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69976-02 |               |               |          |        |               |               |
| 69993-15         | 3-1/4 to 5 (a)             | Yes            | Steel Flat        | 69976-01 | 69979-02      |               |          |        |               |               |
| 69993-16         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69976-02 |               |               |          |        |               |               |

No Recommended Spare Parts

**NOTE:** (a) For operation on patented monorail track.

## PARTS LIST – PRODUCT SERIES 34

### 4-WHEEL GEARED TROLLEY ASSEMBLY 6 IN. DIAMETER WHEEL – NON-SWIVELING – ONE MOUNTING STUD



### TROLLEY PARTS – 6" DIAMETER WHEELS

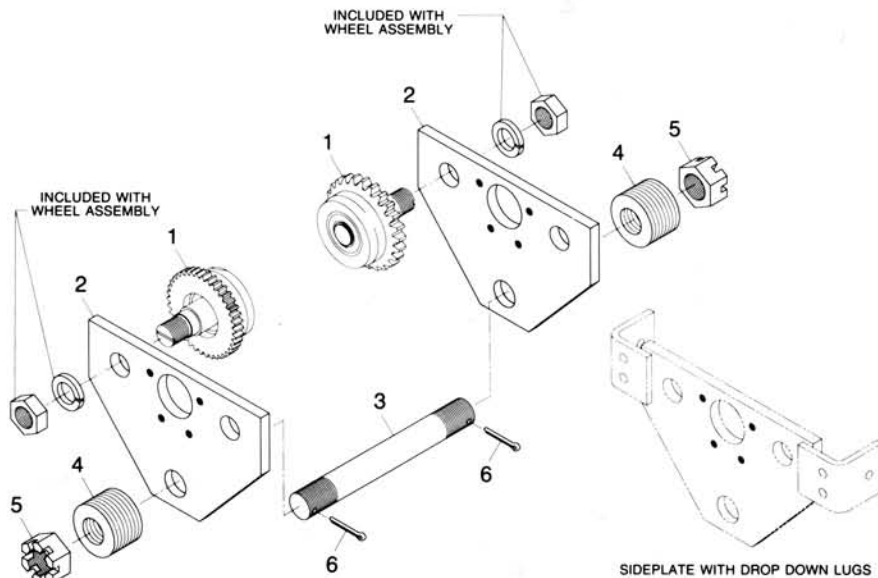
| TROLLEY ASSEMBLY | BEAM FLANGE WIDTH (Inches) | DROP DOWN LUGS | WHEEL ASSEMBLY     |              |               | SIDEPLATE     | SIDEPLATE     | STUD          | WASHER    |        | NUT           | COTTER PIN    |
|------------------|----------------------------|----------------|--------------------|--------------|---------------|---------------|---------------|---------------|-----------|--------|---------------|---------------|
|                  |                            |                | 2 EACH PER TROLLEY |              |               | 1 PER TROLLEY | 1 PER TROLLEY | 1 PER TROLLEY |           |        | 2 PER TROLLEY | 2 PER TROLLEY |
|                  |                            |                | MATL.              | PLAIN ITEM 1 | GEARED ITEM 2 | ITEM 3        | ITEM 4        | ITEM 5        | QTY/ TRLY | ITEM 6 | ITEM 7        | ITEM 8        |
| 69994-01         | 4-1/2 to 5                 | No             | Steel Dual Tread   | 69974-01     | 69975-01      | 69979-01      | 69982-01      | 69768-04      | 16        | PA5167 | 26-32         | PA3796        |
| 69994-02         | 5-1/8 to 8                 |                |                    |              |               | 69980-01      | 69983-01      | 69768-05      | 18        |        |               |               |
| 69994-03         | 8-1/8 to 10-1/2            |                |                    |              |               | 69981-01      | 69984-01      | 69768-06      | 20        |        |               |               |
| 69994-17         | 10-5/8 to 12-1/2           |                |                    |              |               | 69981-03      | 69984-03      | 69768-07      |           |        |               |               |
| 69994-18         | 12-5/8 to 14               |                |                    |              |               | 69981-05      | 69984-05      | 69768-08      |           |        |               |               |
| 69994-04         | 4-1/2 to 5                 |                | Bronze Dual Tread  | 69974-02     | 69975-02      | 69979-01      | 69982-01      | 69768-04      | 16        |        |               |               |
| 69994-05         | 5-1/8 to 8                 |                |                    |              |               | 69980-01      | 69983-01      | 69768-05      | 18        |        |               |               |
| 69994-06         | 8-1/8 to 10-1/2            |                |                    |              |               | 69981-01      | 69984-01      | 69768-06      | 20        |        |               |               |
| 69994-19         | 10-5/8 to 12-1/2           |                |                    |              |               | 69981-03      | 69984-03      | 69768-07      |           |        |               |               |
| 69994-20         | 12-5/8 to 14               |                |                    |              |               | 69981-05      | 69984-05      | 69768-08      |           |        |               |               |
| 69994-07         | 4-1/2 to 5                 | Yes            | Steel Dual Tread   | 69974-01     | 69975-01      | 69979-02      | 69982-02      | 69768-04      | 16        |        |               |               |
| 69994-08         | 5-1/8 to 8                 |                |                    |              |               | 69980-02      | 69983-02      | 69768-05      | 18        |        |               |               |
| 69994-09         | 8-1/8 to 10-1/2            |                |                    |              |               | 69981-02      | 69984-02      | 69768-06      | 20        |        |               |               |
| 69994-21         | 10-5/8 to 12-1/2           |                |                    |              |               | 69981-04      | 69984-04      | 69768-07      |           |        |               |               |
| 69994-22         | 12-5/8 to 14               |                |                    |              |               | 69981-06      | 69984-06      | 69768-08      |           |        |               |               |
| 69994-10         | 4-1/2 to 5                 |                | Bronze Dual Tread  | 69974-02     | 69975-02      | 69979-02      | 69982-02      | 69768-04      | 16        |        |               |               |
| 69994-11         | 5-1/8 to 8                 |                |                    |              |               | 69980-02      | 69983-02      | 69768-05      | 18        |        |               |               |
| 69994-12         | 8-1/8 to 10-1/2            |                |                    |              |               | 69981-02      | 69984-02      | 69768-06      | 20        |        |               |               |
| 69994-23         | 10-5/8 to 12-1/2           |                |                    |              |               | 69981-04      | 69984-04      | 69768-07      |           |        |               |               |
| 69994-24         | 12-5/8 to 14               |                |                    |              |               | 69981-06      | 69984-06      | 69768-08      |           |        |               |               |
| 69994-13         | 3-1/4 to 5 (a)             | No             | Steel Flat         | 69976-01     | 69977-01      | 69979-01      | 69982-01      | 69768-04      | 16        |        |               |               |
| 69994-14         | 3-1/4 to 5 (a)             |                | Bronze Flat        | 69976-02     | 69977-02      |               |               |               |           |        |               |               |
| 69994-15         | 3-1/4 to 5 (a)             | Yes            | Steel Flat         | 69976-01     | 69977-01      | 69979-02      | 69982-02      |               |           |        |               |               |
| 69994-16         | 3-1/4 to 5 (a)             |                | Bronze Flat        | 69976-02     | 69977-02      |               |               |               |           |        |               |               |

No Recommended Spare Parts

**NOTE:** (a) For operation on patented monorail track.

## PARTS LIST – PRODUCT SERIES 34

### 4-WHEEL GEARED TROLLEY ASSEMBLY DUAL DRIVE 6 IN. DIAMETER WHEEL – NON-SWIVELING – ONE MOUNTING STUD



### TROLLEY PARTS – 6" DIAMETER WHEELS

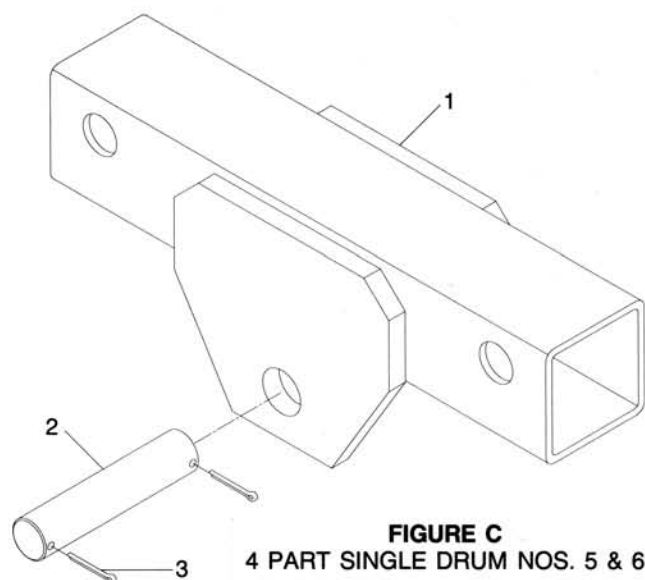
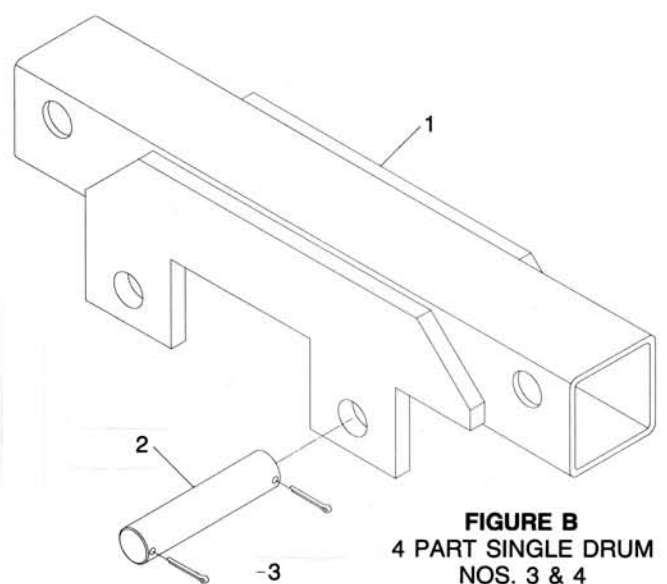
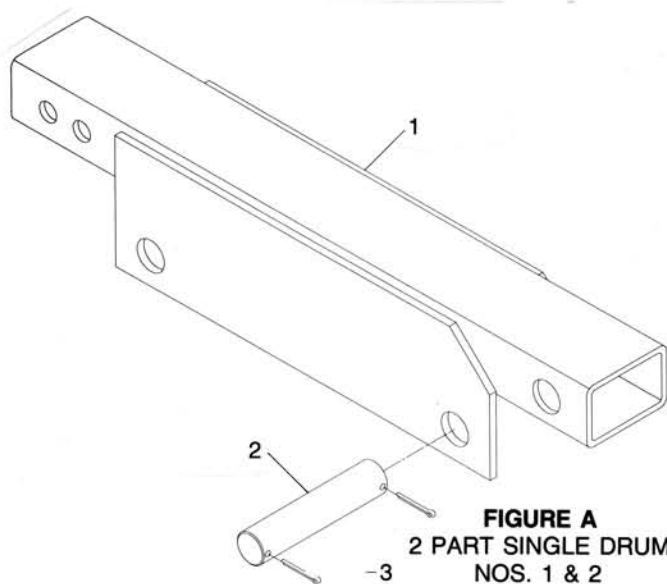
| TROLLEY ASSEMBLY | BEAM FLANGE WIDTH (Inches) | DROP DOWN LUGS | WHEEL ASSEMBLY    |          | SIDEPLATE     | STUD          | WASHER   |        | NUT           | COTTER PIN    |
|------------------|----------------------------|----------------|-------------------|----------|---------------|---------------|----------|--------|---------------|---------------|
|                  |                            |                | 4 PER TROLLEY     |          | 2 PER TROLLEY | 1 PER TROLLEY |          |        | 2 PER TROLLEY | 2 PER TROLLEY |
|                  |                            |                | MATL.             | ITEM 1   | ITEM 2        | ITEM 3        | QTY/TRLY | ITEM 4 | ITEM 5        | ITEM 6        |
| 69997-01         | 4-1/2 to 5                 | No             | Steel Dual Tread  | 69975-01 | 69982-01      | 69768-04      | 16       | PA5167 | 26-32         | PA3796        |
| 69997-02         | 5-1/8 to 8                 |                |                   |          | 69983-01      | 69768-05      | 18       |        |               |               |
| 69997-03         | 8-1/8 to 10-1/2            |                |                   |          | 69984-01      | 69768-06      | 20       |        |               |               |
| 69997-17         | 10-5/8 to 12-1/2           |                |                   |          | 69984-03      | 69768-07      |          |        |               |               |
| 69997-18         | 12-5/8 to 14               |                |                   |          | 69984-05      | 69768-08      |          |        |               |               |
| 69997-04         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69975-02 | 69982-01      | 69768-04      | 16       |        |               |               |
| 69997-05         | 5-1/8 to 8                 |                |                   |          | 69983-01      | 69768-05      | 18       |        |               |               |
| 69997-06         | 8-1/8 to 10-1/2            |                |                   |          | 69984-01      | 69768-06      | 20       |        |               |               |
| 69997-19         | 10-5/8 to 12-1/2           |                |                   |          | 69984-03      | 69768-07      |          |        |               |               |
| 69997-20         | 12-5/8 to 14               |                |                   |          | 69984-05      | 69768-08      |          |        |               |               |
| 69997-07         | 4-1/2 to 5                 | Yes            | Steel Dual Tread  | 69975-01 | 69982-02      | 69768-04      | 16       |        |               |               |
| 69997-08         | 5-1/8 to 8                 |                |                   |          | 69983-02      | 69768-05      | 18       |        |               |               |
| 69997-09         | 8-1/8 to 10-1/2            |                |                   |          | 69984-02      | 69768-06      | 20       |        |               |               |
| 69997-21         | 10-5/8 to 12-1/2           |                |                   |          | 69984-04      | 69768-07      |          |        |               |               |
| 69997-22         | 12-5/8 to 14               |                |                   |          | 69984-06      | 69768-08      |          |        |               |               |
| 69997-10         | 4-1/2 to 5                 |                | Bronze Dual Tread | 69975-02 | 69982-02      | 69768-04      | 16       |        |               |               |
| 69997-11         | 5-1/8 to 8                 |                |                   |          | 69983-02      | 69768-05      | 18       |        |               |               |
| 69997-12         | 8-1/8 to 10-1/2            |                |                   |          | 69984-02      | 69768-06      | 20       |        |               |               |
| 69997-23         | 10-5/8 to 12-1/2           |                |                   |          | 69984-04      | 69768-07      |          |        |               |               |
| 69997-24         | 12-5/8 to 14               |                |                   |          | 69984-06      | 69768-08      |          |        |               |               |
| 69997-13         | 3-1/4 to 5 (a)             | No             | Steel Flat        | 69977-01 | 69982-01      | 69768-04      | 16       |        |               |               |
| 69997-14         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69977-02 |               |               |          |        |               |               |
| 69997-15         | 3-1/4 to 5 (a)             | Yes            | Steel Flat        | 69977-01 | 69982-02      |               |          |        |               |               |
| 69997-16         | 3-1/4 to 5 (a)             |                | Bronze Flat       | 69977-02 |               |               |          |        |               |               |

No Recommended Spare Parts

**NOTE:** (a) For operation on patented monorail track.

## PARTS LIST – PRODUCT SERIES 34

### LOADBAR ASSEMBLY — FOR RIGID TROLLEYS



#### LOADBAR PARTS

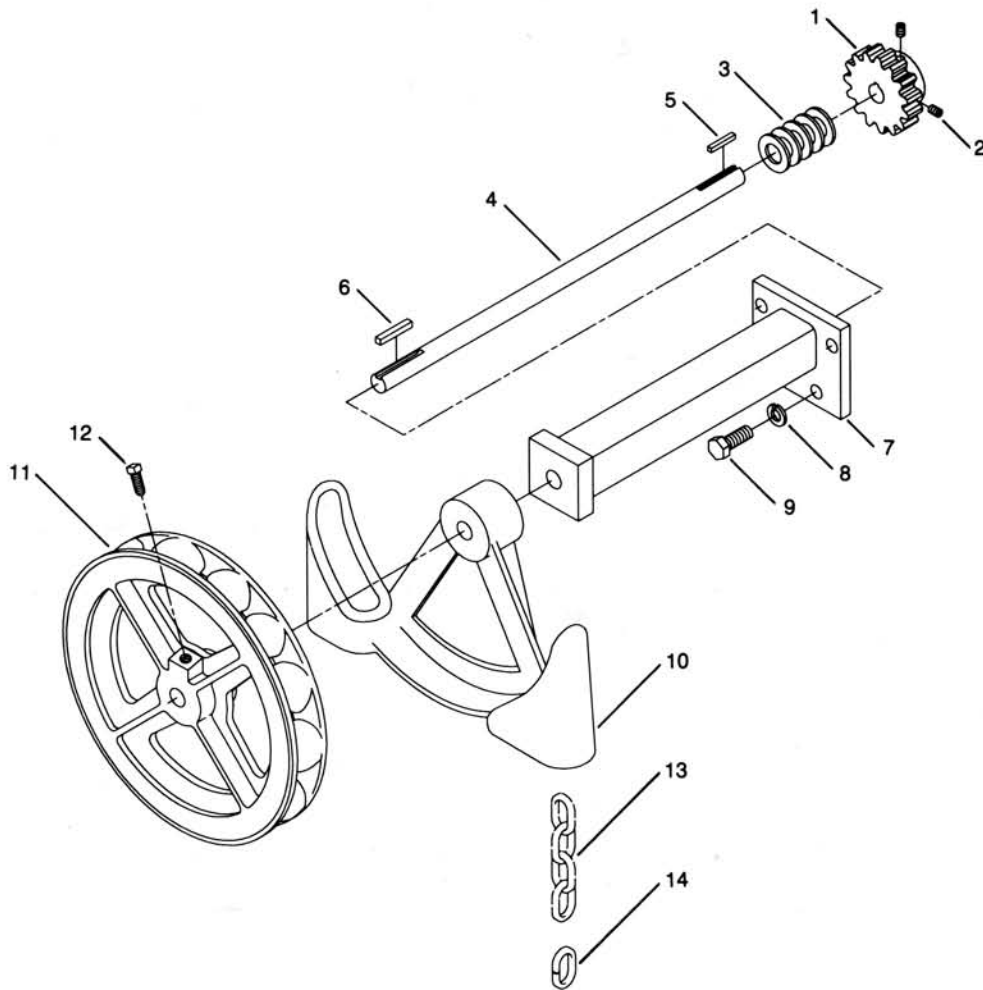
| ITEM NO. | PART NO. | DESCRIPTION               | QTY. |
|----------|----------|---------------------------|------|
| 1        | 70219-01 | Loadbar, 2PS, Drum No. 1  | 1    |
|          | 70219-02 | Loadbar, 2PS, Drum No. 2  |      |
|          | 70168-03 | Loadbar, 4PS, Drum No. 3  |      |
|          | 70168-04 | Loadbar, 4PS, Drum No. 4  |      |
|          | 70166    | Loadbar, 4PS, Drum No. 5  |      |
|          | 70166    | Loadbar, 4PS, Drum No. 6  |      |
| 2        | 70185    | Pin, 2PS, Drum Nos. 1 & 2 | 2    |
|          |          | Pin, 4PS, Drum Nos. 3 & 4 |      |
| 2        | 70164    | Pin, 4PS, Drum Nos. 5 & 6 | 1    |
| 3        | PA3796   | Cotter Pin                | (a)  |

No Recommended Spare Parts

#### NOTE:

(a) Quantity of 4 required when 2 pins are used, and quantity of 2 required when 1 pin is used.

## HAND-GEARED TROLLEY DRIVE



### HAND-GEARED TROLLEY DRIVE PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION           | QTY |
|----------|-------------|-----------------------|-----|
| 1        | 69788       | Pinion 15T            | 1   |
| 2        | 12-5-4      | Set Screw 5/16-18x1/4 | 2   |
| 3        | 15-12-1C    | Washer                | 5   |
| 4        | 69798-02    | Shaft                 | 1   |
| 5        | 52674       | Key 3/16 Sq. x 1-1/4  | 1   |
| 6        | PA6956      | Key 1/4 Sq. x 1-5/8   | 1   |
| 7        | 69803-02    | Bearing               | 1   |

| ITEM NO. | PART NUMBER | DESCRIPTION       | QTY |
|----------|-------------|-------------------|-----|
| 8        | 17-8C       | Lockwasher 1/2    | 4   |
| 9        | 35-8-20C    | Bolt 1/2-13x1-1/4 | 4   |
| 10       | B2143-1     | Handchain Guide   | 1   |
| 11       | B464-4      | Handwheel         | 1   |
| 12       | 14-6-16     | Set Screw         | 1   |
| 13       | (a)         | Handchain         | 1   |
| 14       | (a)         | Open Link         | 1   |

No Recommended Spare Parts

### NOTES:

- (a) When ordering handchain, order Part Number (see below) and specify length.
- (b) Federal Specification QQ-Z-325, Type I, Class 3.
- (c) Federal Specification QQ-Z-325, Type I, Class 2.

| TYPE OF TROLLEY | CHAIN MATERIAL                            | HANDCHAIN | OPEN LINK |
|-----------------|-------------------------------------------|-----------|-----------|
| Steel Wheels    | Steel, Zinc Electro Plated (Acco Std) (b) | 48158-1   | 60252-01  |
| Steel Wheels    | Steel, Zinc Electro Plated (c)            | 48158-11  | 60252-11  |
| Bronze Wheels   | Aluminum                                  | 48159-1   | PA3985    |

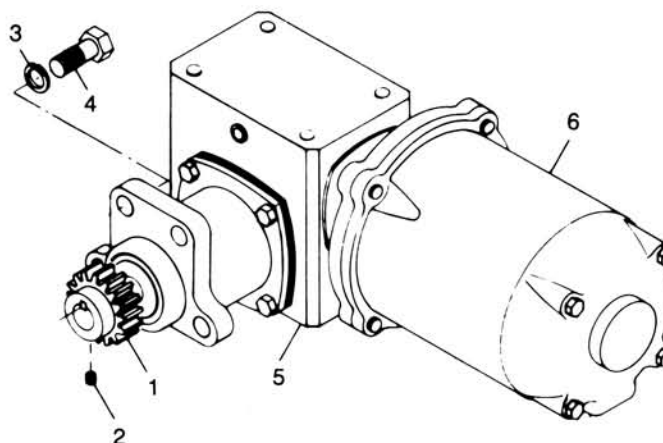
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For complete and accurate information, please refer to the 2014-2015 Yamaha Motor Company, Ltd. Additional contents of the 2014-2015 Yamaha Motor Company, Ltd.



## PARTS LIST – PRODUCT SERIES 34

### MOTORIZED TROLLEY DRIVE



#### MOTORIZED TROLLEY DRIVE PARTS

| ITEM NO.  | PART NO. | DESCRIPTION              | MONORAIL TROLLEY QUANTITY | TOP-RUNNING TROLLEY QUANTITY |
|-----------|----------|--------------------------|---------------------------|------------------------------|
| 1         | 69788    | Pinion (15 teeth)        | 1                         | 0                            |
|           | 62214    | Pinion (14 teeth)        | 0                         | 1                            |
| 2         | 12-5-4   | Set Screw                | 2                         | 0                            |
|           | 12-4-4C  | Set Screw                | 0                         | 2                            |
| 3         | 17-8C    | Lockwasher               | 4                         | 4                            |
| 4         | 35-8-20C | Hex Head Bolt            | 4                         | 4                            |
| 5         | (a)      | Right-Angle Gear Reducer | 1                         | 1                            |
| 6         | (b)      | Motor                    | 1                         | 1                            |
| Not Shown | 69807    | EP Moly D Grease         | (c)                       | (c)                          |

No Recommended Spare Parts

#### NOTES:

(a) Select right-angle gear reducer as specified from the following:

Part No. 71056-4X, 20:1 Reduction, 50 FPM Monorail Trolley or 32 FPM Top-Running Trolley, (standard).  
 Part No. 71056-2X, 10:1 Reduction, 100 FPM Monorail Trolley or 65 FPM Top-Running Trolley, (standard).  
 Part No. 71056-0X, 5:1 Reduction, 125 FPM Top-Running Trolley, (standard).  
 Part No. 71056-5X, 30:1 Reduction, 33 FPM Monorail Trolley, (non-standard).  
 Part No. 71056-3X, 15:1 Reduction, 65 FPM Monorail Trolley, (non-standard).  
 Part No. 71056-1X, 7.5:1 Reduction, 125 FPM Monorail Trolley, (non-standard).

X = Reducer Mounting Position Number 1, 2, 3 or 4. See Serial Record for position used. Complete the part number by inserting the position number in place of the 'X'.

(b) Trolley motor brake is optional on motorized right-angle gear reducer trolley drive. Motors for monorail trolley drive without motor brake have one shaft extension. Motors for monorail trolley drive with motor brake have two shaft extensions. Motors for top-running trolley drive with or without motor brake have one shaft extension. Select motor as specified from the following:

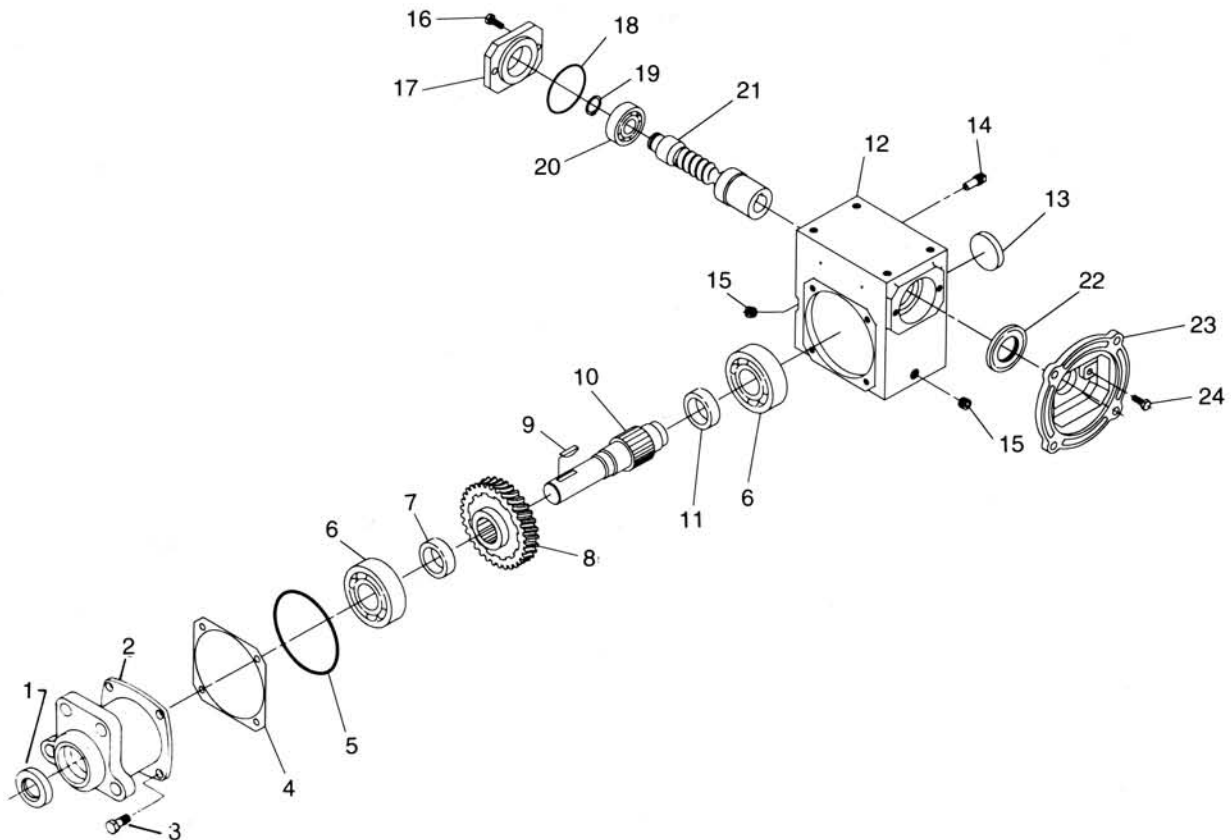
| PART NO.<br>MOTOR WITH<br>ONE SHAFT EXT. | PART NO.<br>MOTOR WITH<br>TWO SHAFT EXT. | VOLTAGE     | HP        | RPM      | SPEED  | FRAME |
|------------------------------------------|------------------------------------------|-------------|-----------|----------|--------|-------|
| 61010-01                                 | 65818-04                                 | 200         | 1/2       | 1800     | Single | 56C   |
| 61010-02                                 | 65818-05                                 | 208/230/460 |           |          |        |       |
| 61010-03                                 | 65818-06                                 | 575         |           |          |        |       |
| 61010-04                                 | 65818-10                                 | 200         | 1         |          |        |       |
| 61010-05                                 | 65818-11                                 | 208/230/460 |           |          |        |       |
| 61010-06                                 | 65818-12                                 | 575         | 1/2 / 1/6 | 1800/600 | Two    |       |
| 61012-01                                 | 65819-01                                 | 200         |           |          |        |       |
| 61012-02                                 | 65819-02                                 | 230         |           |          |        |       |
| 61012-03                                 | 65819-03                                 | 460         |           |          |        |       |
| 61012-04                                 | 65819-04                                 | 575         | 1 / 1/3   |          |        |       |
| 61012-05                                 | 65819-09                                 | 200         |           |          |        |       |
| 61012-06                                 | 65819-10                                 | 230         |           |          |        |       |
| 61012-07                                 | 65819-11                                 | 460         |           |          |        |       |
| 61012-08                                 | 65819-12                                 | 575         |           |          |        |       |

For other specified special motors, refer to additional information pages supplied with manual.

(c) Exposed gears and pinions on trolleys are shipped from the factory without lubricant. Lyondell® EP Moly D Grease, packaged in a 4-ounce squeeze bottle container, is furnished with all hoists that have trolleys specified. Refer to LUBRICATION section of Manual 69833: Installation, Operation, and Maintenance Manual for WRIGHT® WORK-RATED® Wire Rope Electric Hoists. Additional containers of Lyondell® EP Moly D Grease, packaged in a 4-ounce squeeze bottle, can be obtained by ordering Acco® part no. 69807.

## PARTS LIST – PRODUCT SERIES 34

### MOTORIZED TROLLEY RIGHT-ANGLE GEAR REDUCER



#### RIGHT-ANGLE GEAR REDUCER PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION          | QTY/ ASSY |
|----------|-------------|----------------------|-----------|
| 1        | V93216A     | Oil Seal             | 1 ▲       |
| 2        | V28631C     | Adapter              | 1         |
| 3        | V91012A     | Hex Head Cap Screw   | 4         |
| 4        | VZ17T       | Output Cover Shim    | AR        |
| 5        | V95769A     | O-Ring               | 1         |
| 6        | V40831      | Output Bearing, Cone | 2         |
|          | V40832      | Output Bearing, Cup  | 2         |
| 7        | VY17SG      | Gear Spacer          | 1         |
| 8        | VG17S05     | Worm Gear 5:1        | 1         |
|          | VG17S07     | Worm Gear 7.5:1      |           |
|          | VG17S10     | Worm Gear 10:1       |           |
|          | VG17S15     | Worm Gear 15:1       |           |
|          | VG17S20     | Worm Gear 20:1       |           |
|          | VG17S30     | Worm Gear 30:1       |           |
| 9        | V40267      | Woodruff Key         | 1         |
| 10       | VS17SGX01   | Output Shaft         | 1         |
| 11       | VY17SG      | Gear Spacer          | 1         |
| 12       | VH17SG      | Gear Housing         | 1         |

| ITEM NO. | PART NUMBER | DESCRIPTION             | QTY/ ASSY |
|----------|-------------|-------------------------|-----------|
| 13       | V93224A     | Expansion Plug          | 1         |
| 14       | V41752      | Vent Plug               | 1         |
| 15       | V40411      | Pipe Plug               | 4         |
| 16       | V91012A     | Hex Head Cap Screw      | 2         |
| 17       | VC13NB      | Input Cover             | 1         |
| 18       | V95771A     | O-Ring                  | 1         |
| 19       | V41050      | Retaining Ring          | 1         |
| 20       | V40257      | Input Bearing           | 1         |
| 21       | V36086B     | Quill Input Shaft 5:1   | 1         |
|          | V36530B     | Quill Input Shaft 7.5:1 |           |
|          | V36087B     | Quill Input Shaft 10:1  |           |
|          | V36088B     | Quill Input Shaft 15:1  |           |
|          | V36089B     | Quill Input Shaft 20:1  |           |
|          | V36091B     | Quill Input Shaft 30:1  |           |
|          |             |                         |           |
| 22       | V93212A     | Oil Seal                | 1 ▲       |
| 23       | VF13Q56     | Quill Motor Flange      | 1         |
| 24       | V91012A     | Hex Head Cap Screw      | 2         |

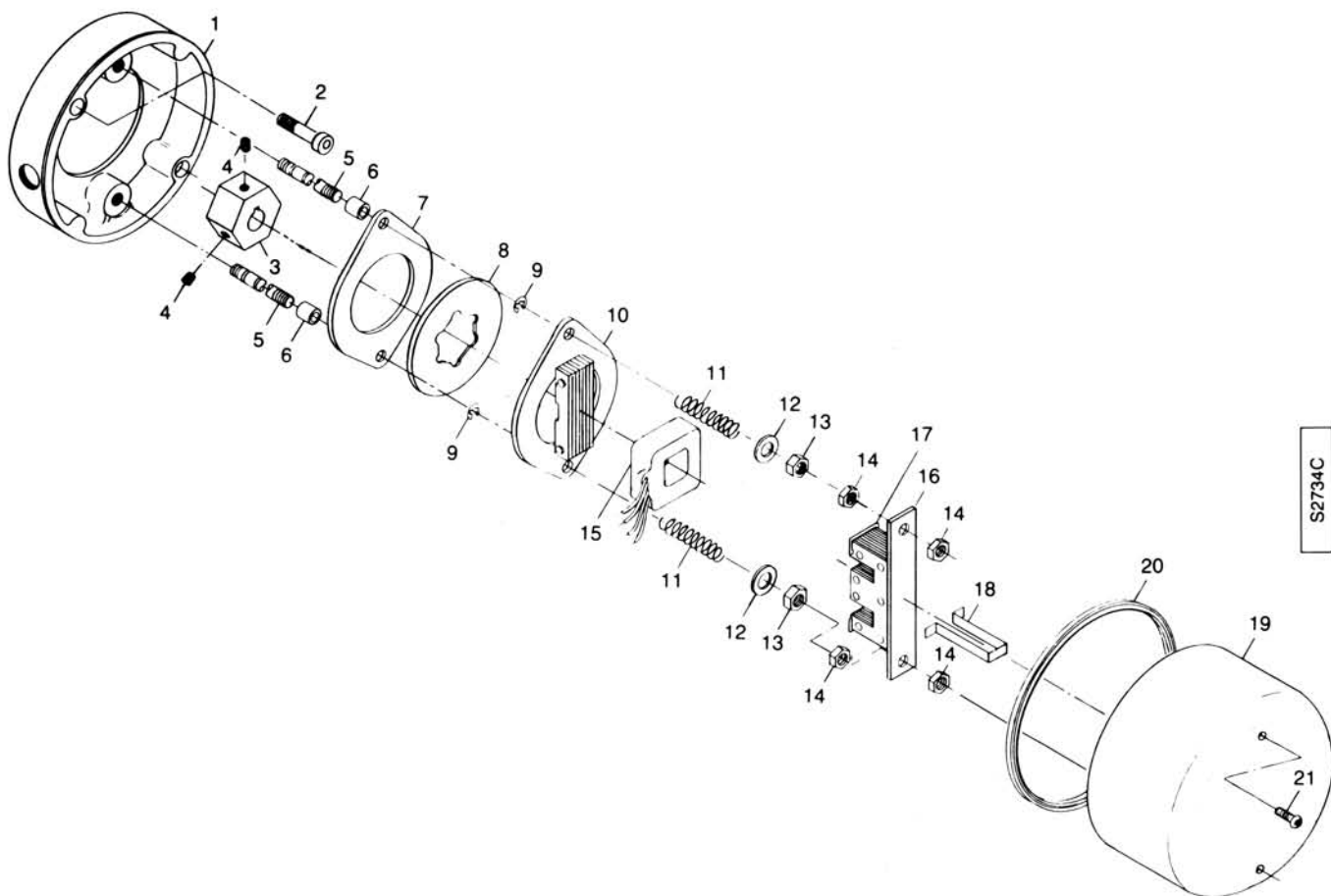
▲ Recommended Spare Parts

#### NOTE:

Approximate capacity of oil bath is 1 pint. Refer to Lubrication section of Manual 69834.

# PARTS LIST – PRODUCT SERIES 34

## TROLLEY MOTOR BRAKE ASSEMBLY



### TROLLEY MOTOR BRAKE PARTS

| ITEM NO. | PART NUMBER | DESCRIPTION             | QTY/ ASSY |
|----------|-------------|-------------------------|-----------|
| 1        | 65653       | Adapter                 | 1         |
| 2        | 1-6-24      | Bolt, 3/8-16 x 1-1/2 lg | 2         |
| 3        | 65654       | Hub                     | 1         |
| 4        | 12-4-6      | Set Screw               | 2         |
| 5        | 65655       | Stud                    | 2         |
| 6        | 61459       | Spacer                  | 2         |
| 7        | 39794       | Brake Plate             | 1         |
| 8▲       | 39649       | Brake Lining            | 1         |
| 9        | PA5623      | Retaining Ring          | 2         |
| 10       | 39781       | Pressure Unit           | 1         |
| 11       | PA5823      | Spring                  | 2         |
| 12       | 15-6-1      | Flat Washer             | 2         |

| ITEM NO. | PART NUMBER                   | DESCRIPTION                               | QTY/ ASSY |
|----------|-------------------------------|-------------------------------------------|-----------|
| 13       | PA2377                        | Locknut                                   | 2         |
| 14       | 24-6                          | Jam Nut, 3/8                              | 4         |
| 15▲      | 39783-2<br>39783-3<br>39783-6 | Coil<br>575 VAC<br>230/460 VAC<br>208 VAC | 1         |
| 16       | 39780                         | Magnet Unit                               | 1         |
| 17       | 39784                         | Shading Coil (a)                          | 2         |
| 18       | 39877                         | Coil Strap                                | 1         |
| 19       | 69161                         | Brake Cover                               | 1         |
| 20       | PA7110                        | Gasket                                    | 1.77 ft   |
| 21▲      | PA7323                        | Screw, LOC-WEL, #10-24 (b)                | 2         |

#### ▲ Recommended Spare Parts

- (a) Shading Coil is furnished with Magnet Unit, but also available as a spare.
- (b) Screw with self-locking feature must be utilized. Substitutes are not permissible.
- (c) Trolley motor brake assembly shown on this page is the optional brake used on motorized right-angle gear reducer monorail trolley drives. For the optional brake used on motorized right-angle gear reducer top-running trolley drives, refer to additional information pages supplied with manual.

# PARTS LIST – PRODUCT SERIES 34

## DECK MOUNTED FRAME

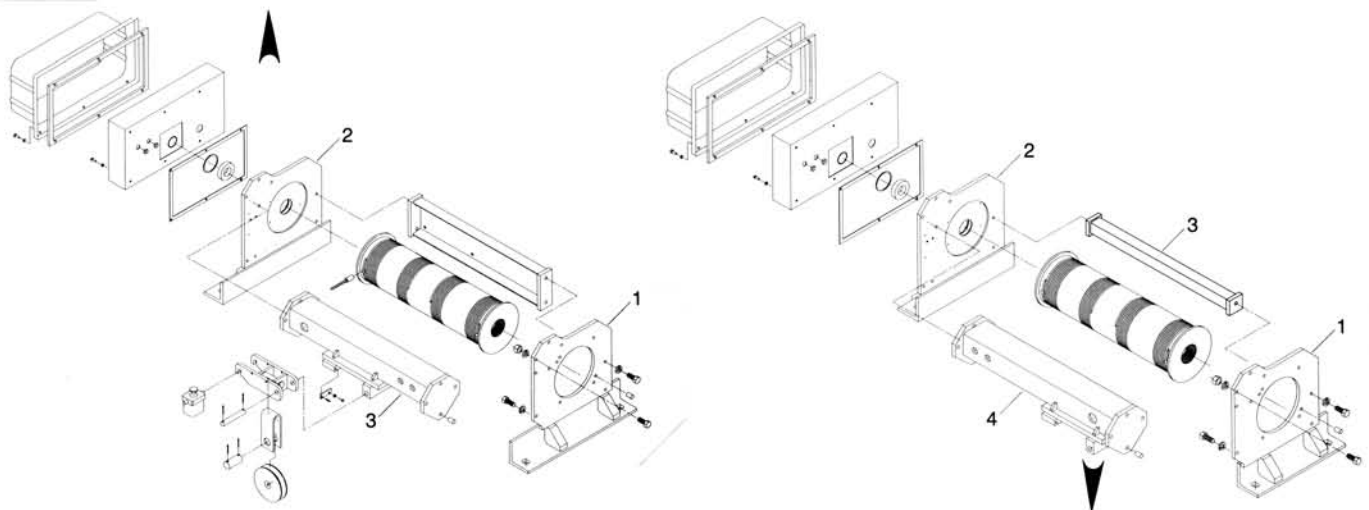
### DECK MOUNTED FRAME PARTS

| ITEM NO. | DESCRIPTION                         | QUANTITY | PART NO. |
|----------|-------------------------------------|----------|----------|
| 1        | End Plate, Deck Mounted Gear End    | 1        | 70224    |
| 2        | End Plate, Deck Mounted Control End | 1        | 70225    |
| 3        | Frame, 2-Part Single, Drum 1        | 1        | 70212-01 |
|          | Frame, 2-Part Single, Drum 2        |          | 70212-02 |
|          | Frame, 2-Part Single, Drum 3        |          | 70253-03 |
|          | Frame, 2-Part Single, Drum 4        |          | 70253-04 |
|          | Frame, 2-Part Single, Drum 5        |          | 70253-05 |
|          | Frame, 2-Part Single, Drum 6        |          | 70253-06 |
| 3        | Frame, 2-Part Double, Drum 2        | 1        | 70209-02 |
|          | Frame, 2-Part Double, Drum 3        |          | 70209-03 |
|          | Frame, 2-Part Double, Drum 4        |          | 70209-04 |
|          | Frame, 2-Part Double, Drum 5        |          | 70209-05 |
|          | Frame, 2-Part Double, Drum 6        |          | 70255-06 |
|          |                                     |          |          |
| 3        | Frame, 4-Part Single, Drum 3        | 1        | 70169-03 |
|          | Frame, 4-Part Single, Drum 4        |          | 70169-04 |
|          | Frame, 4-Part Single, Drum 5        |          | 70254-05 |
|          | Frame, 4-Part Single, Drum 6        |          | 70254-06 |
| 3        | Frame, 4-Part Double, Drum 4        | 1        | 70256-04 |
|          | Frame, 4-Part Double, Drum 5        |          | 70256-05 |
|          | Frame, 4-Part Double, Drum 6        |          | 70267-06 |

#### Note:

For part numbers of other parts shown, refer to page 9 for 2PS reeving, page 10 for 4PS reeving, page 11 for 2PD reeving, or page 12 for 4PD reeving.

No Recommended Spare Parts



## WINCH UNIT FRAME

### WINCH UNIT FRAME PARTS

| ITEM NO. | DESCRIPTION                  | QUANTITY | PART NO. |
|----------|------------------------------|----------|----------|
| 1        | End Plate, Winch Gear End    | 1        | 70226    |
| 2        | End Plate, Winch Control End | 1        | 70227    |
| 3        | Side Frame, Winch            | 1        | (a)      |
| 4        | Frame, Winch                 | 1        | (a)      |

No Recommended Spare Parts

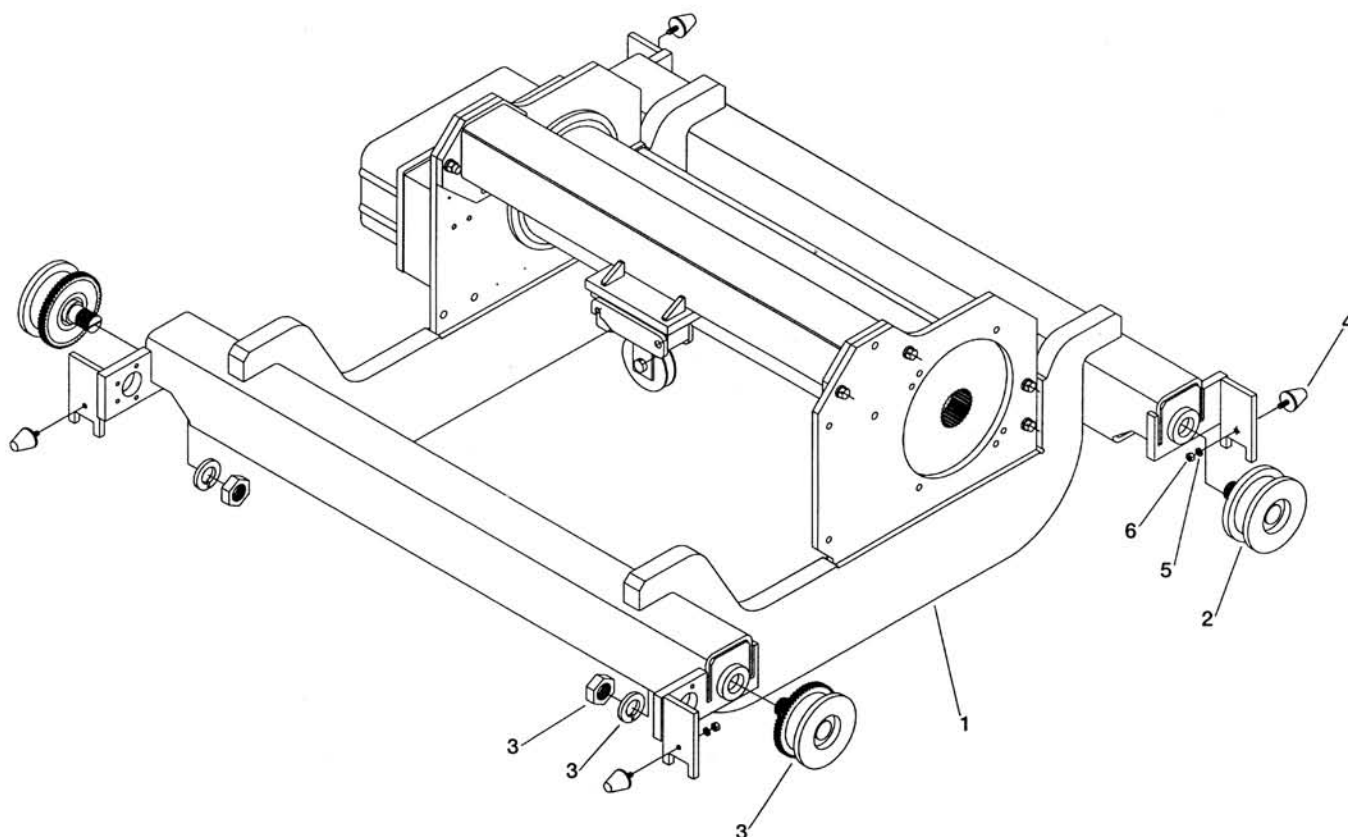
#### Note:

For part numbers of other parts shown, refer to page 9 for 2PS reeving, page 10 for 4PS reeving, page 11 for 2PD reeving, or page 12 for 4PD reeving.

(a) Winch side frame part number 70210-XX and winch frame part number 70260-XX are available in various lengths. Contact Acco Chain & Lifting Products or the distributor of the hoist with hoist product number and/or hoist serial number.

## PARTS LIST – PRODUCT SERIES 34

### TOP-RUNNING TROLLEY



#### TOP-RUNNING TROLLEY FRAME PARTS

| ITEM NO. | DESCRIPTION                                                            | QUANTITY | PART NO. |
|----------|------------------------------------------------------------------------|----------|----------|
| 1        | Trolley Frame, Trolley End Beams, End Plates, Gear End and Control End | 1        | (a)      |
| 2        | Plain Wheel Assembly                                                   | 2        | 70237-02 |
| 3        | Geared Wheel Assembly                                                  | 2        | 70237-01 |
| 4        | Bumper (Optional)                                                      | 4        | 65226    |
| 5        | Lockwasher (Optional)                                                  | 4        | 17-7     |
| 6        | Nut (Optional)                                                         | 4        | 22-7     |

No Recommended Spare Parts

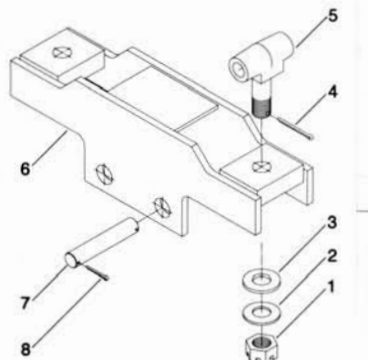
#### NOTES:

For part numbers of other suspension frame parts, refer to page 10 for 4PS reeving, page 11 for 2PD reeving, or page 12 for 4PD reeving.

(a) Trolley side frame, trolley end beams, and hoist end plates are a single welded unit. Contact Acco Chain & Lifting Products or the distributor of the hoist with hoist product number and/or hoist serial number; and wheel gage of trolley.

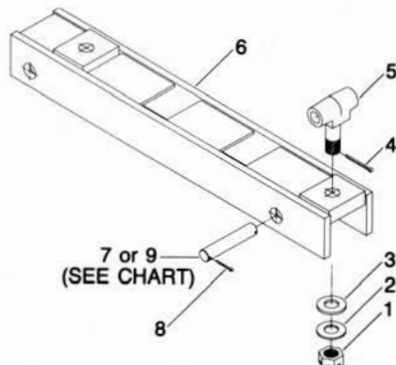
# PARTS LIST – PRODUCT SERIES 34

## LOADBAR ASSEMBLY – FOR SWIVELING TROLLEYS



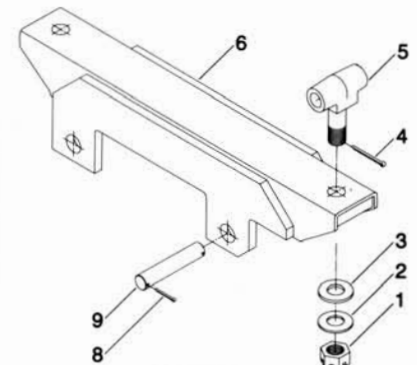
**FIGURE A**

2 PART SINGLE DRUM NO. 1



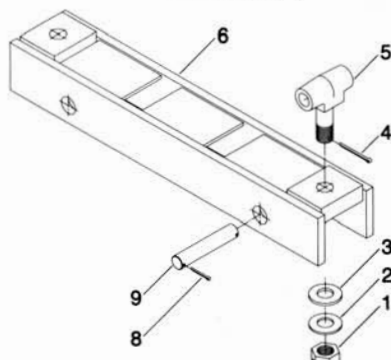
**FIGURE B**

2 PART SINGLE DRUM NOS. 2, 3, 4, 5, 6



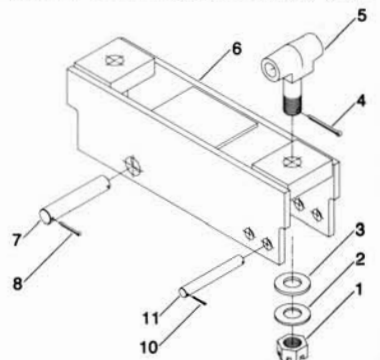
**FIGURE C**

4 PART SINGLE DRUM NOS. 3, 4



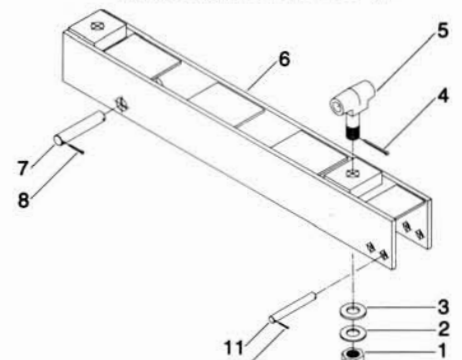
**FIGURE D**

4 PART DOUBLE DRUM NOS. 4, 5, 6



**FIGURE E**

2 PART DOUBLE DRUM NO. 2



**FIGURE F**

2 PART DOUBLE DRUM NOS. 3, 4, 5, 6

### LOADBAR PARTS

| REFER TO FIGURE |                 | A, B (DRUM 2) |     | B (DRUMS 3, 4, 5, 6),<br>C, D |     | E, F        |     |
|-----------------|-----------------|---------------|-----|-------------------------------|-----|-------------|-----|
| ITEM. NO.       | DESCRIPTION     | PART NUMBER   | QTY | PART NUMBER                   | QTY | PART NUMBER | QTY |
| 1               | Hex Slotted Nut | 26-28         | 2   | 26-28                         | 2   | 26-28       | 2   |
| 2               | Thrust Washer   | A4421         | 2   | A4421                         | 2   | A4421       | 2   |
| 3               | Thrust Bearing  | A4420         | 2   | A4420                         | 2   | A4420       | 2   |
| 4               | Cotter Pin      | PA1484        | 2   | PA1484                        | 2   | PA1484      | 2   |
| 5               | Suspension Stud | 63161         | 2   | 63161                         | 2   | 63161       | 2   |
| 6               | Loadbar         | (a) (b)       | 1   | (a) (b)                       | 1   | (a) (b)     | 1   |
| 7               | Pin             | 63029-05      | 2   | —                             | —   | 63029-05    | 1   |
| 8               | Cotter Pin      | PA1484        | 4   | PA1484                        | 4   | PA1484      | 2   |
| 9               | Pin             | —             | —   | 63029-01                      | 2   | —           | —   |
| 10              | Cotter Pin      | —             | —   | —                             | —   | PA1771      | 4   |
| 11              | Pin             | —             | —   | —                             | —   | 63295-03    | 2   |

No Recommended Spare Parts

### NOTES:

For trolley parts, refer to pages 26, 27, and 28.

(a) Loadbar part numbers for:

| FIGURE A | FIGURE B | FIGURE C | FIGURE D | FIGURE E | FIGURE F |
|----------|----------|----------|----------|----------|----------|
| 70272-01 | 70273-02 | 70282-03 | 70280-04 | 70288-02 | 70286-03 |
|          | 70267-03 | 70282-04 | 70280-05 |          | 70286-04 |
|          | 70267-04 |          | 70280-06 |          | 70286-05 |
|          | 70267-05 |          |          |          | 70286-06 |
|          | 70267-06 |          |          |          |          |

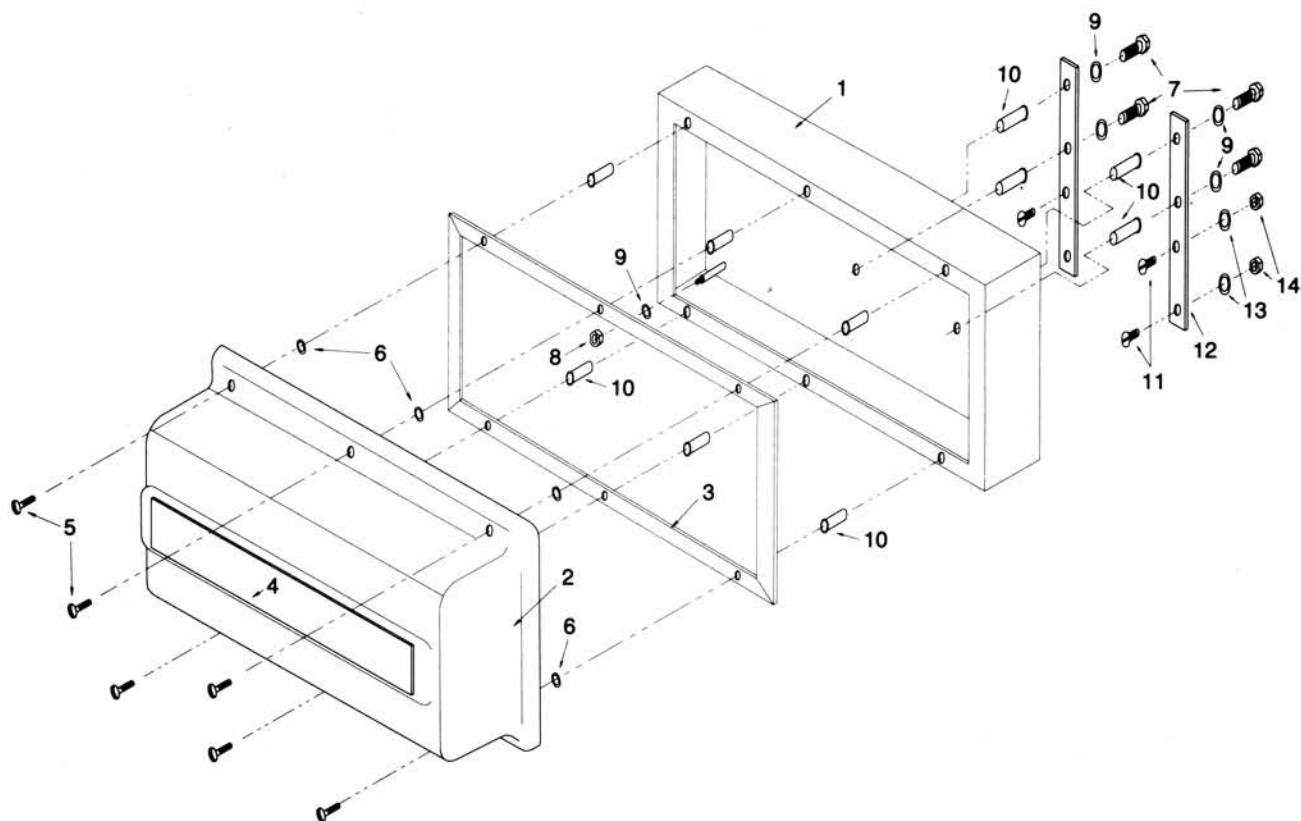
(b) Dash number (-03, -04, etc.) indicates corresponding hoist drum length.

**Example:** 70282-03 for Drum No. 3, 70282-04 for Drum No. 4, etc.



## PARTS LIST – PRODUCT SERIES 34

### OPTIONAL ELECTRICAL CONTROL ENCLOSURE



#### REPLACEMENT PARTS

| ITEM NO. | PART NO. | DESCRIPTION              | QUANTITY BY ENCLOSURE SIZE |           |           |
|----------|----------|--------------------------|----------------------------|-----------|-----------|
|          |          |                          | 11" x 21"                  | 15" x 21" | 21" x 21" |
| 1        | 69829-1  | Enclosure, 11 x 21       | 1                          | N/A       | N/A       |
|          | 69828-1  | Enclosure, 15 x 21       | N/A                        | 1         | N/A       |
|          | 69875-1  | Enclosure, 21 x 21       | N/A                        | N/A       | 1         |
| 2        | 52823    | Cover, 11 x 21           | 1                          | N/A       | N/A       |
|          | 52826    | Cover, 15 x 21           | N/A                        | 1         | N/A       |
|          | 54268    | Cover, 21 x 21           | N/A                        | N/A       | 1         |
| 3        | 58531    | Gasket, 11 x 21          | 1                          | N/A       | N/A       |
|          | 55204    | Gasket, 15 x 21          | N/A                        | 1         | N/A       |
|          | 55206    | Gasket, 21 x 21          | N/A                        | N/A       | 1         |
| 4        | 55224-2  | Label                    | 1                          | 1         | 1         |
| 5        | 58597    | Screw, Captive           | 6                          | 6         | 8         |
| 6        | PA6634   | Ring, Retaining          | 6                          | 6         | 8         |
| 7        | 35-4-12  | Hex Head Bolt            | 4                          | 4         | 4         |
| 8        | 22-4C    | Hex Nut                  | 4                          | 4         | 4         |
| 9        | 17-4C    | Lockwasher               | 8                          | 8         | 8         |
| 10       | PA7343   | Nut Insert, Closed End   | 10                         | 10        | 12        |
| 11       | 5-6-20   | Flathead Screw           | 4                          | 4         | 4         |
| 12       | 69808    | Enclosure Mounting Strap | 2                          | 2         | 2         |
| 13       | 17-6C    | Lockwasher               | 4                          | 4         | 4         |
| 14       | 22-6     | Hex Nut                  | 4                          | 4         | 4         |



## GENERAL CONDITIONS OF WARRANTY

**WARRANTIES:** The Seller warrants to the original Buyer thereof that the goods sold under this Agreement are free from defects in workmanship and materials for a period of two years from the date of shipment to the original using Buyer. No other express warranties are given and no affirmation of Seller or Seller's agents, by word or action, shall constitute a warranty. No warranty is made for components and accessories made by others when such items are warranted by their respective manufacturers.

Installation or operation of the equipment in any manner other than as recommended by Seller, shall void the warranty.

Any variations in details between the goods furnished herein and those covered in Buyer's specifications are due to standards of manufacture not to be construed as exceptions to the specifications.

### DISCLAIMER OF IMPLIED WARRANTIES:

- (a) SELLER MAKES NO WARRANTY OF MERCHANTABILITY IN RESPECT TO THE GOODS SOLD UNDER THIS AGREEMENT.
- (b) This sale is made WITHOUT ANY WARRANTY BY SELLER THAT THE GOODS ARE SUITABLE FOR ANY PARTICULAR PURPOSE.
- (c) Buyer hereby waives all other warranties, guarantees, obligations, liabilities, rights, and remedies arising by law or otherwise including any obligation or liability of the Seller arising from tort, and Buyer shall indemnify Seller from any liability, loss, damage, or claim arising from Buyer's tortious use of the goods sold hereby.

### REMEDIES:

- (a) Under no conditions shall any goods be returned to Seller without its prior written consent.
- (b) The Buyer's sole and exclusive remedy for breach of any warranty is limited to Seller furnishing, at its expense, duplicate or repaired parts F.O.B. Seller's plant with installation at Buyer's expense if discovery of a claimed defect occurs during the allowable warranty period, and if Seller's inspection determines a defect exists.
- (c) The quantity of material shown by invoice shall in all cases govern settlement for shortages, unless notice of shortage, appropriately documented, is given to the carrier and the Seller upon delivery by the Carrier.
- (d) Claims for errors, deficiencies or imperfections shall be deemed waived by the Buyer unless Seller is notified in writing of the basis of such claims within 10 days after discovery of claimed defect and such discovery occurs within the warranted period.
- (e) Neither Buyer nor User shall be entitled under this Agreement to recover from Seller any incidental or consequential damages of any nature including but not limited to the cost of any labor expended by others in connection with the goods sold hereby by reason of any alleged nonconformity or breach of warranty on the part of the Seller, nor costs of material or account thereof, nor any lost profits whether determinable or speculative.



## Acco Chain & Lifting Products Division

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