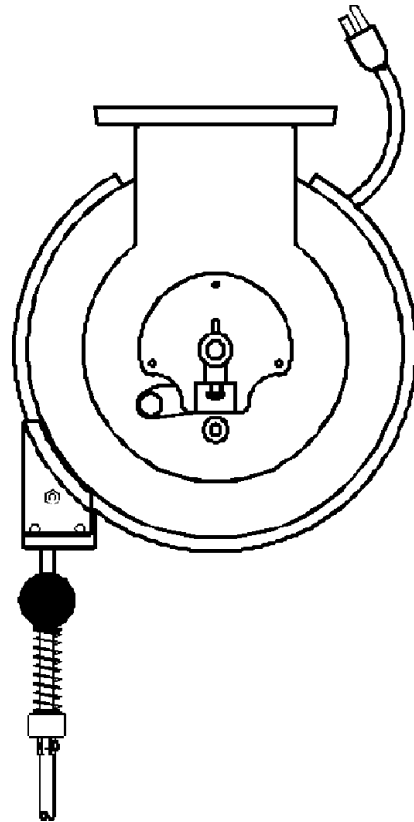


Cord Reels

MS, ES, & EL



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Seller agrees to repair or exchange the goods sold hereunder necessitated by reason of defective workmanship and material discovered and reported to Seller within one year after shipment of such goods to Buyer.

Except where the nature of the defect is such that it is appropriate, in Seller's judgment, to effect repairs on site, Seller's obligation hereunder to remedy defects shall be limited to repairing or replacing (at Seller's option) FOB point of original shipment by Seller, any part returned to Seller at the risk and cost of Buyer. Defective parts replaced by Seller shall become the property of Seller.

Seller shall only be obligated to make such repair or replacement if the goods have been used by Buyer only in service recommended by Seller and altered only as authorized by Seller. Seller is not responsible for defects which arise from improper installation, neglect, or improper use or from normal wear and tear.

Additionally, Seller's obligation shall be limited by the manufacturer's warranty (and is not further warranted by Seller) for all parts procured from others according to published data, specifications or performance information not designed by or for Seller.

Seller further agrees to replace or at Seller's option to provide a refund of the sales price of any goods that do not conform to applicable specifications or which differ from that agreed to be supplied which non-conformity is discovered and forthwith reported to Seller within thirty (30) days after shipment to the Buyer. Seller's obligation to replace or refund the purchase price for non-conforming goods shall arise once Buyer returns such goods FOB point of original shipment by Seller at the risk and cost of Buyer. Goods replaced by Seller shall become the property of Seller.

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Seller makes no warranty (and assumes no liability) as to function of equipment or operation of systems built to Buyer's design or of the ability of any goods to interface, operate or function with any portions of Buyer's system not provided by Seller.

Seller's liability on any claim, whether in contract, tort (including negligence), or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any products or services shall in no case exceed the price paid for the product or services or any part thereof which give rise to the claim. In no event shall Seller be liable for consequential, special, incidental or other damages, nor shall Seller be liable in respect of personal injury or damage to property not the subject matter hereof unless attributable to gross misconduct of Seller, which shall mean an act or omission by Seller demonstrating reckless disregard of the foreseeable consequences thereof.

Seller is not responsible for incorrect choice of models or where products are used in excess of their rated and recommended capacities and design functions or under abnormal conditions. Seller assumes no liability for loss of time, damage or injuries to property or persons resulting from the use of Seller's products. Buyer shall hold Seller harmless from all liability, claims, suits and expenses in connection with loss or damage resulting from operation of products or utilization of services, respectively, of Seller and shall defend any suit or action which might arise there from in Buyer's name - provided that Seller shall have the right to elect to defend any such suit or action for the account of Buyer. The foregoing shall be the exclusive remedies of the Buyer and all persons and entitles claiming through the Buyer.

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RECORD

The catalog number of the reel and the serial number of the reel are required when ordering replacement parts or discussing the reel with the factory. Please record this information now in the spaces provided below.

CATALOG NO. OF REEL _____

SERIAL NO. _____

DATE INSTALLED _____

1.0 Safety

1.1 Grounding

- 1.1.1 This equipment should be grounded in accordance with National Electric Codes and local codes and ordinances.
- 1.1.2 All models have the green grounding wire grounded to the frame of the reel.
- 1.1.3 Always disconnect the reel from electrical power before servicing it.
- 1.1.4 Do not use this cord reel with electrical loads greater than the rated current and voltage shown on the label.

1.2 Installation

- 1.2.1 A safety cable should be attached to all ceiling or wall mounted reels to prevent the reel from falling should mounting bolt failure occur.

1.3 Operation

- 1.3.1 Do not engage the ratchet abruptly. Abrupt engagement induces excessive shock loads in the ratchet pawl.
- 1.3.2 Do not allow cord to retract without restraining the retraction speed. Walk the cord back to the reel.
- 1.3.3 Do not exceed the unwind capacity. A minimum of 2 wraps of cord should remain on the drum at all times to prevent direct pull against the drum clamp and lead terminals.
- 1.3.4 If the ratchet locks up due to over-extension, relieve the cable of all tension, grasp the spool and rotate it in the direction of payout an additional 1/4 turn (until you hear the next click). This will release the ratchet.
- 1.3.5 Reposition the cable guide 3" in either direction to prevent the reoccurrence of lock-up.

1.4 Maintenance

- 1.4.1 All springs and bearings are lubricated for life at the factory. No additional lubrication is required.
- 1.4.2 Be sure all spring tension has been released before starting any disassembly procedure

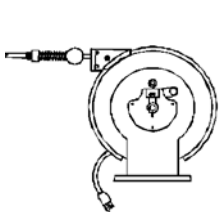
2.0 Installation

2.1 Mounting

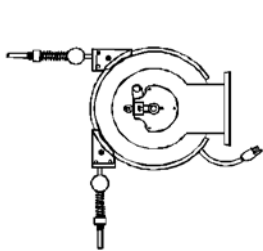
- 2.1.1 Reel must be mounted in a position which allows the main shaft to be horizontal. Reel should be mounted with the centerline of the drum in line with the cord run.

2.2 Cord Guide

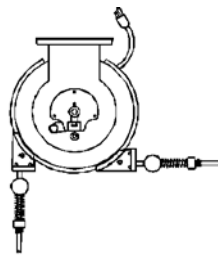
- 2.2.1 The cord guide can be set in multiple positions along a 300 degree arc around the cord drum. The guide must be placed so the cord pays off the reel in a straight line without bends.



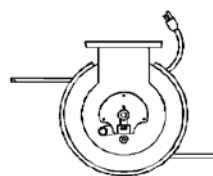
Floor or Bench Mount



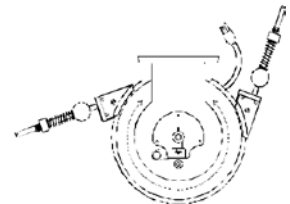
Wall Mount



Ceiling Mount



Two Way Payout
Guide Removed



3000 Range

3.0 Operation

3.1 Spring Tension

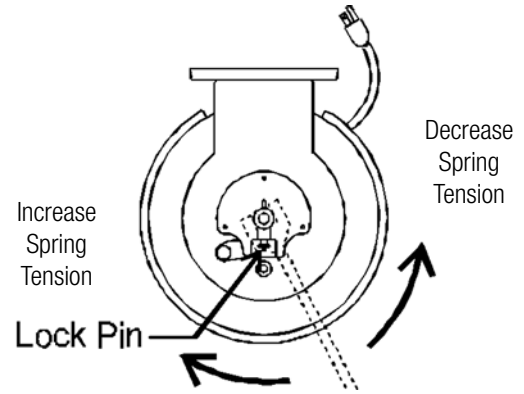
3.1.1 Increase tension: affix wrench to main shaft, disengage lock pin, and turn shaft clockwise.

Warning: Keep a SECURE hold on the wrench.

3.1.2 Decrease tension: affix wrench to main shaft, disengage lock pin, and turn shaft counterclockwise.

Warning: Keep a SECURE hold on the wrench.

3.1.3 After making adjustment, pull cord out to confirm enough spring revolutions remain for operation. Failure to perform this test may cause spring damage.

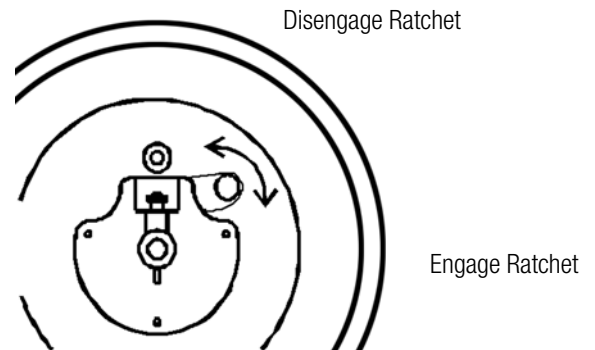


3.2 Ratchet

3.2.1 The ratchet lockout knob enables or disables the ratchet mechanism.

3.2.2 A counterclockwise turn of the ratchet lock-out knob will lock out the ratchet and provide constant tension on the cord.

3.2.3 A clockwise turn of the ratchet lock-out knob will engage the ratchet mechanism every one-half turn of the spool.



4.0 Maintenance

Note: Numbers in parenthesis, ie: (34432), refer to Replacement Part Kit Numbers.

4.1 Electrical Service Procedures

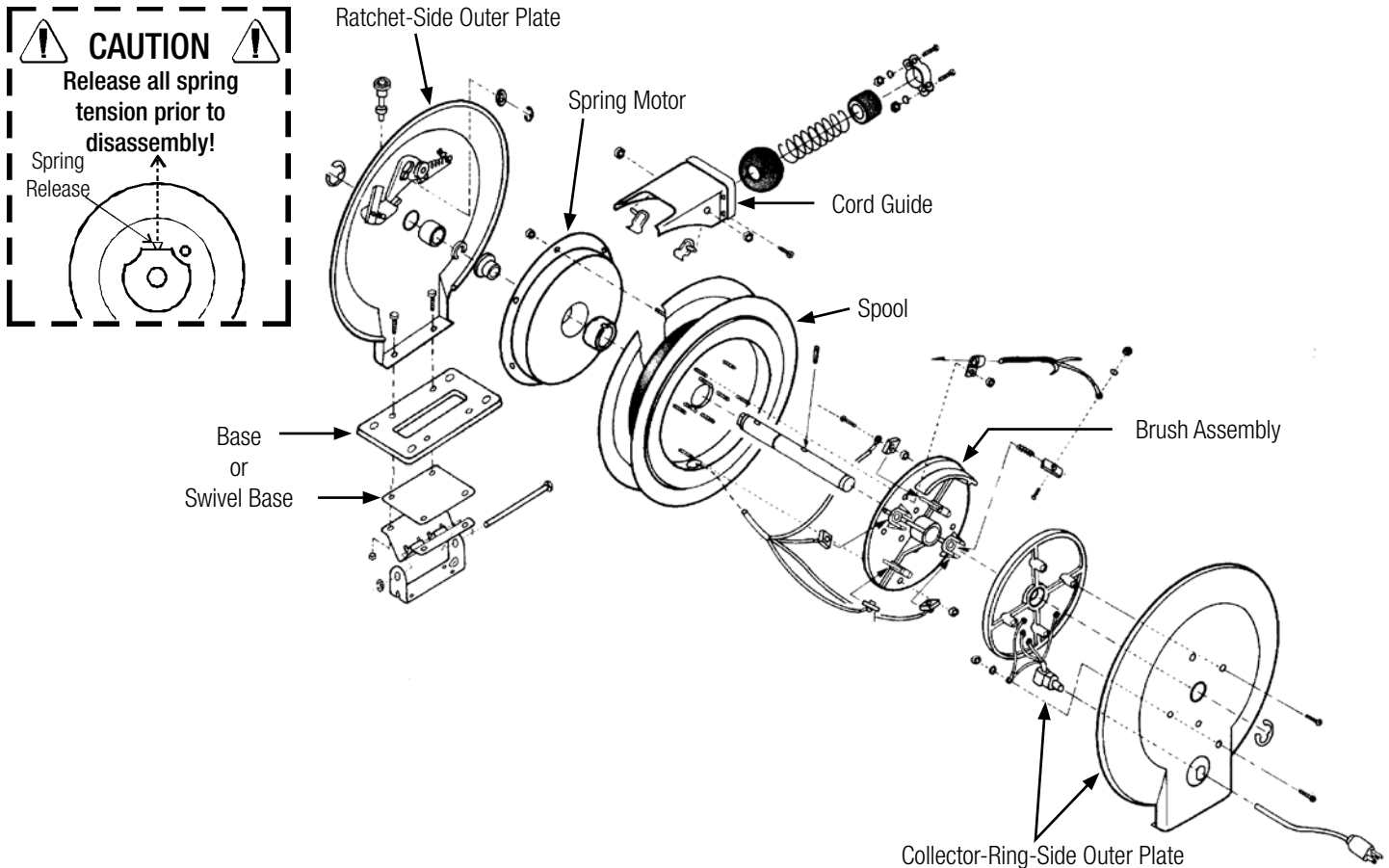
4.1.1 Remove the Cord Guide (34432) and snap ring on the Collector-Ring-Side Outer Plate (feeder cord side) (34401, 34402) .

4.1.2 Remove the Collector-Ring Outer Plate by removing the hex bolts and lock nuts on the Base (34400).

4.1.3 Disconnect the cord from the brushes by removing the screws, nuts, and washers.

4.1.4 If brushes are being replaced, substitute the new brushes, install the new Brush Assembly (34403), check the brushes for proper seating, and reassemble the reel.

4.1.5 If only the cord is being replaced, loosen the cord clamp, substitute the old with a new identical replacement cord, reconnect to the brushes, then reassemble reel.



4.2 Mechanical Service Procedures

4.2.1 Affix a wrench to the shaft and pull the tension adjustment lock pin to release tension from the spring.

Warning: Keep a **SECURE** hold on the wrench.

4.2.2 Remove the Cord Guide (34432) and snap ring on the Ratchet-Side Outer Plate (34430, 34431).

4.2.3 Remove the hex bolts and nuts which hold the Ratchet-Side Outer Plate to the Base.

4.2.4 Pull the Outer Plate and spacer off the shaft.

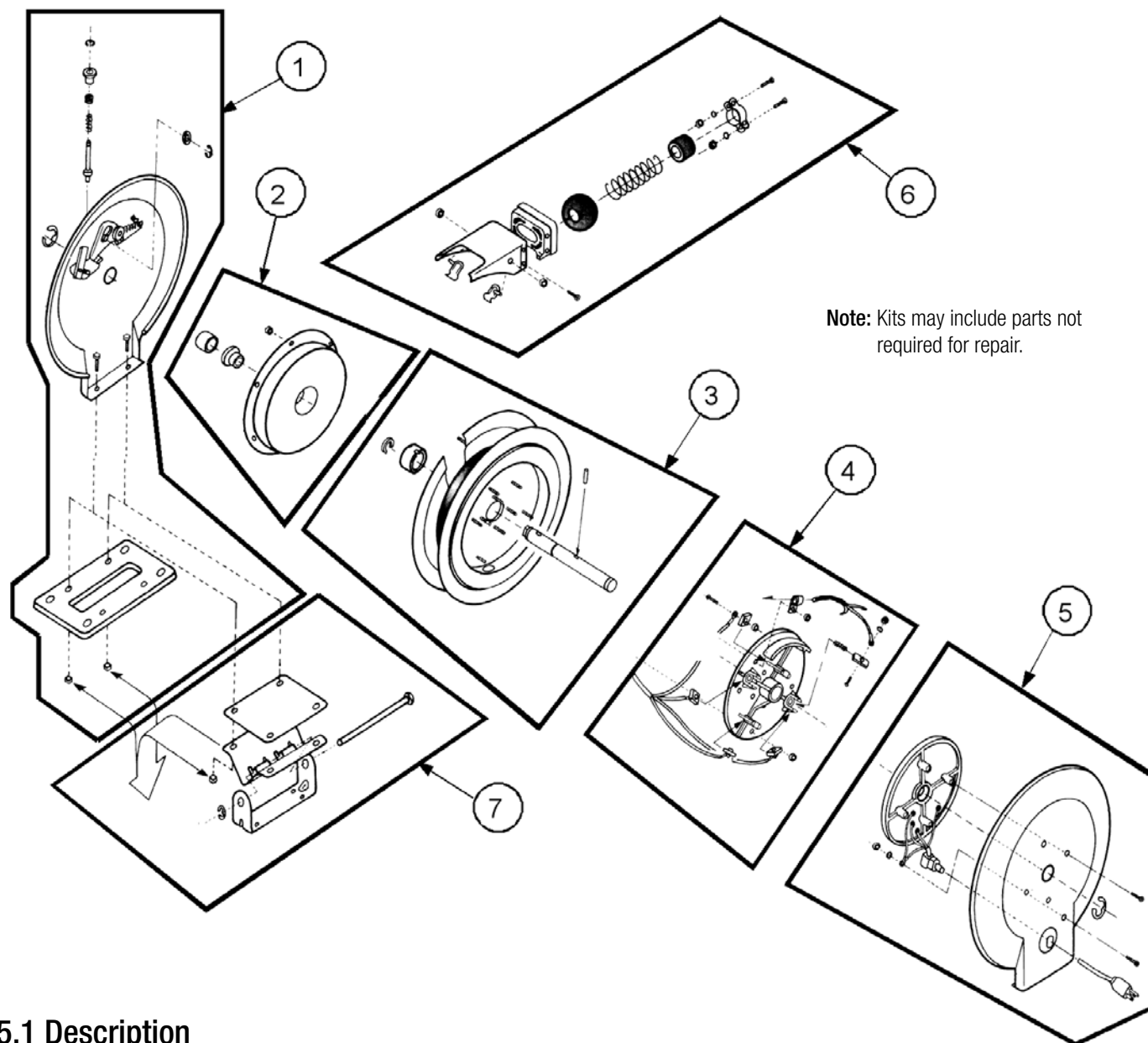
4.2.5 Remove the spool retainer snap ring.

4.2.6 Loosen and remove the hex nuts which hold the Spring Motor (34406) to the spool.

4.2.7 Remove the Spring Motor and replace it with a new one.

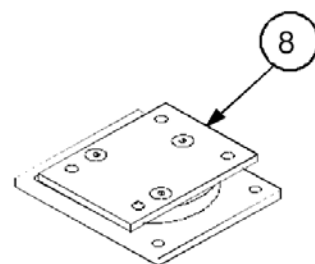
4.2.8 Replace the hex nuts and reassemble the reel.

5.0 Replacement Parts



5.1 Description

Item No.	Kit Description	Part Number		
		EL	ES	MS
1	Ratchet Side Assembly	34430	34431	34431
2	Spring Assembly	34406	34406	34406
3	Spool Assembly	34405	34404	34404
4	Brush Assembly	34403	34403	34403
5	Ring Side Assembly	34402	34401	34401
6	Cord Guide Assembly	34432	34432	34432
7	Swivel Base Assembly	34400	34400	34400
8	Pivot Base Assembly	PVB-E	PVB-E	N/A



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