

# Tech Bulletin

## Hose / Cord Replacement and Required Wraps

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### Series RT

#### Replacing the Hose

To remove the hose - Pull out the hose leaving 2 to 3 feet on the spool. Engage the latch pawl. Remove the U-bolt nuts and washers on the inside of the spool. Remove the U-bolt. Un-thread the hose at the connection to the swivel tube. Use a wrench on both fittings or the swivel may be damaged. Remove the hose.

To install the hose - Route the hose through the guide arm rollers and opening of the spool. Apply thread tape or sealant to hose threads. Screw hose fitting into threaded fitting on swivel. Tighten connection with a wrench on both fittings. Install the U-bolt. Install hose bumper on working end of hose if required. Disengage latch pawl and allow hose to retract.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
RT425-OLP	RT402-OLP	1/4"	6mm	25'	8m	15
RT435-OLP	RT403-OLP	1/4"	6mm	35'	11m	15
RT450-OLP	RT405-OLP	1/4"	6mm	50'	15m	22
RT465-OLP	RT406-OLP	1/4"	6mm	65'	20m	26
RT625-OLP	RT602-OLP	3/8"	10mm	25'	8m	15
RT635-OLP	RT603-OLP	3/8"	10mm	35'	11m	15
RT650-OLP	RT605-OLP	3/8"	10mm	50'	15m	20
RT825-OLP	RT802-OLP	1/2"	13mm	25'	8m	15
RT835-OLP	RT803-OLP	1/2"	13mm	35'	11m	15
RT850-OLP	RT805-OLP	1/2"	13mm	50'	15m	21
RT625-OMP	RT602-OMP	3/8"	10mm	25'	8m	15
RT635-OMP	RT603-OMP	3/8"	10mm	35'	11m	15
RT650-OMP	RT605-OMP	3/8"	10mm	50'	15m	15
RT825-OMP	RT802-OMP	1/2"	13mm	25'	8m	15
RT835-OMP	RT803-OMP	1/2"	13mm	35'	11m	15
RT425-OHP	RT402-OHP	1/4"	6mm	25'	8m	15
RT435-OHP	RT403-OHP	1/4"	6mm	35'	11m	15
RT625-OHP	RT602-OHP	3/8"	10mm	25'	8m	15
RT635-OHP	RT603-OHP	3/8"	10mm	35'	11m	15
RT650-OHP	RT605-OHP	3/8"	10mm	50'	15m	21

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**Series 4000 / 5000 / 5005****Replacing the Hose**

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off three turns and latch.
3. Insert hose through roller guide and hole in spool flange.
4. Connect hose fitting to swivel joint and secure hose with clamps.

<b>Reel w/hose</b>	<b>Reel w/o hose</b>	<b>Hose I.D.</b>		<b>Hose Length</b>		<b># Wraps</b>
4420 OLP	4400 OLP	1/4"	6mm	20'	6m	18
4425 OLP	4400 OLP	1/4"	6mm	25'	8m	18
4435 OLP	4400 OLP	1/4"	6mm	35'	11m	18
5450 OLP	5400 OLP	1/4"	6mm	50'	15m	21
4617 OLP	4600 OLP	3/8"	10mm	17'	5m	13
4625 OLP	4600 OLP	3/8"	10mm	25'	8m	13
5635 OLP	5600 OLP	3/8"	10mm	35'	11m	19
5650 OLP	5605 OLP	3/8"	10mm	50'	15m	21
A5825 OLP	A5800 OLP	1/2"	13mm	25'	8m	13
A5835 OLP	A5805 OLP	1/2"	13mm	35'	11m	21
A5850 OLP	A5806 OLP	1/2"	13mm	50'	15m	21
5435 OMP	5400 OMP	1/4"	6mm	35'	11m	13
5630 OMP	5600 OMP	3/8"	10mm	30'	9m	13
A5825 OMP	A5800 OMP	1/2"	13mm	25'	8m	13
A5835 OMP	A5805 OMP	1/2"	13mm	35'	11m	19
5430 OHP	5400 OHP	1/4"	6mm	30'	9m	13
5435 OHP	5405 OHP	1/4"	6mm	35'	11m	19
5625 OHP	5600 OHP	3/8"	10mm	25'	8m	19

## Series 7000

### Installing the Input Hose

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant to all threads.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing.

1. Connect supply line hose to main shaft input.

### Installing the Output Hose

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. Pipe thread sealant is not recommended.

1. Manually turn sheave until spring is tight, back off 3 turns, then latch.
2. Route output hose through guide arm bracket u-bolts, then through cutout in spool.
3. Connect output hose to swivel.
4. Tighten u-bolts.
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper.

### Adjustments

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

Reel w/hose	Reel w/o hose	Hose I.D.	Hose Length	# Wraps
7650 OLP	7600 OLP	3/8" 10mm	50' 15m	19
7670 OLP	7600 OLP	3/8" 10mm	70' 22m	23
7850 OLP	7800 OLP	1/2" 13mm	50' 15m	18
7850 OLP121	7800 OLP	1/2" 13mm	50' 15m	18
7925 OLP	7900 OLP	3/4" 19mm	25' 8m	14
F7925 OLP	F7900 OLP	3/4" 19mm	25' 8m	14
7650 OMP	7600 OMP	3/8" 10mm	50' 15m	16
7850 OMP	7800 OMP	1/2" 13mm	50' 15m	16
7450 OHP	7400 OHP	1/4" 6mm	50' 15m	16
7650 OHP	7600 OHP	3/8" 10mm	50' 15m	16

## Series DP5000 / DP7000

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant. Do not overtighten connection. Recommended torque not to exceed 70 ft. lb.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing. The use of rigid plumbing may void warranty.

### Installing the Input Hose

1. Apply thread sealant and connect input hose to main shaft input.
2. Tighten securely, ensuring a sealed connection has been made.

### Installing the Output Hose

1. Manually turn sheave until spring is tight, back off 2 turns, then latch.
2. Route output hose through roller bracket, U-bolts, then through cut out in spool.
3. Connect output hose to swivel output.
4. Place U-bolt over hose and through the slotted holes below the hose opening. Add washers and lock nuts, tighten securely.
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper assembly.

### Adjustments

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by manually adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Manually add wraps to increase tension. Remove wraps to decrease tension.

**Caution:** When adding wraps of hose, add just enough wraps to achieve the desired tension without exceeding the winding mechanism's spring capacity. Properly tensioned reels allow all hose to be freely removed from the spool until the point of U-bolt contact. Damage to the winding mechanism will result if spring is over-tensioned.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
DP5435 OLP	DP5400 OLP	1/4"	6mm	35'	11m	15
DP5450 OLP	DP5400 OLP	1/4"	6mm	50'	15m	21
DP7450 OLP	DP7400 OLP	1/4"	6mm	50'	15m	21
DP5635 OLP	DP5600 OLP	3/8"	10mm	35'	11m	19
DP5650 OLP	DP5605 OLP	3/8"	10mm	50'	15m	21
DP7650 OLP	DP7600 OLP	3/8"	10mm	50'	15m	21
DP5835 OLP	DP5800 OLP	1/2"	13mm	35'	11m	21
DP7850 OLP	DP7800 OLP	1/2"	13mm	50'	15m	21
DP7650 OMP	DP7600 OMP	3/8"	10mm	50'	15m	21
DP5835 OMP	DP5800 OMP	1/2"	13mm	35'	11m	21
DP7850 OMP	DP7800 OMP	1/2"	13mm	50'	15m	21
DP7450 OHP	DP7400 OHP	1/4"	6mm	50'	15m	21
DP5635 OHP	DP5600 OHP	3/8"	10mm	35'	11m	19
DP7650 OHP	DP7600 OHP	3/8"	10mm	50'	15m	21

## Series 8000

### Replacing the Hose

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off two turns and latch.
3. Insert hose through roller guide.
4. Connect hose fitting to female outlet ell.

### Adjustments

To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time until desired tension obtained.

Reel w/hose	Reel w/o hose	Hose I.D.	Hose Length	# Wraps
D8650 OLP	D8600 OLP	3/8" 10mm	50' 15m	19
D8670 OLP	D8600 OLP	3/8" 10mm	70' 22m	22
D8850 OLP	D8800 OLP	1/2" 13mm	50' 15m	18
E8850 OLP	E8800 OLP	1/2" 13mm	50' 15m	18
D8650 OMP	D8600 OMP	3/8" 10mm	50' 15m	16
D8840 OMP	D8800 OMP	1/2" 13mm	40' 13m	16
D8850 OMP	D8800 OMP	1/2" 13mm	50' 15m	16
E8850 OMP	E8800 OMP	1/2" 13mm	50' 15m	16
D8450 OHP	D8400 OHP	1/4" 6mm	50' 15m	16
D8650 OHP	D8600 OHP	3/8" 10mm	50' 15m	16
E8650 OHP	E8600 OHP	3/8" 10mm	50' 15m	16

## Series 80000

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant. Do not overtighten connection. Recommended torque not to exceed 70 ft. lb.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing. The use of rigid plumbing may void warranty.

### Installing the Input Hose

1. Apply thread sealant and connect input hose to main shaft input.
2. For standard shaft and swivel reels, connect customer supplied inlet hose to swivel.

### Installing the Output Hose

1. Manually turn sheave until spring is tight, back off 3 turns, then latch.
2. Route output hose through roller bracket, U-bolts, then through cut out in spool.
3. Connect output hose to gooseneck.
4. Verify U-bolt position conforms with guide arm position using label inside spool. Then tighten nuts on U-bolt.
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper assembly.

### Adjustments

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by manually adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Manually add wraps to increase tension. Remove wraps to decrease tension.

**Caution:** When adding wraps of hose, add just enough wraps to achieve the desired tension without exceeding the winding mechanism's spring capacity. Properly tensioned reels allow all hose to be freely removed from the spool until the point of U-bolt contact. Damage to the winding mechanism will result if spring is over-tensioned.

Reel w/hose	Reel w/o hose	Hose I.D.	Hose Length	# Wraps
81100 OLP	81000 OLP	3/8" 10mm	100' 31m	23
82075 OLP	82000 OLP	1/2" 13mm	75' 23m	19
82100 OLP	82000 OLP	1/2" 13mm	100' 31m	23
83050 OLP	83000 OLP	3/4" 19mm	50' 15m	17
F83050 OLP	F83000 OLP	3/4" 19mm	50' 15m	17
D83075 OLP	D83000 OLP	3/4" 19mm	75' 23m	19
D84050 OLP	D84000 OLP	1" 25mm	50' 15m	19
82075 OMP	82000 OMP	1/2" 13mm	75' 23m	19
83050 OMP	83000 OMP	3/4" 19mm	50' 15m	17
81075 OHP	81000 OHP	3/8" 10mm	75' 23m	23
81100 OHP	81000 OHP	3/8" 10mm	100' 31m	23

## Series 9000

### Replacing the Hose

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off three turns and latch.
3. Insert hose through roller guide.
4. Connect hose fitting to female outlet ell.

### Adjustments

To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time until desired tension obtained.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
D9275 OLPBW	D9200 OLPBW	1/2"	13mm	75'	23m	23
D9299 OLPBW	D9200 OLPBW	1/2"	13mm	100'	31m	21
D9350 OLPBW	D9300 OLPBW	3/4"	19mm	50'	15m	21
D9375 OLPBW	D9300 OLPBW	3/4"	19mm	75'	23m	21
D9399 OLPBW	D9305 OLPBW	3/4"	19mm	100'	31m	23
D9450 OLPBW	D9400 OLPBW	1"	25mm	50'	15m	21
Not Available	FF9500 OLPBW	1 1/4"	32mm	50'	15m	21
Not Available	FF9600 OLPBW	1 1/2"	38mm	50'	15m	21
D9275 OMP	D9200 OMPBW	1/2"	13mm	75'	23m	21
D9350 OMP	D9300 OMPBW	3/4"	19mm	50'	15m	21
D9175 OHP	D9100 OHPBW	3/8"	10mm	75'	23m	21

## Series TH5000

### Replacing the Hose

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off three turns and latch.
3. Insert hose through roller guide and hole in spool flange.
4. Connect hose fitting to swivel joint and secure hose with clamps.

**Adjustments:** To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time until desired tension is obtained.

## Series TH7000

### Installing the Input Hose

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant to all threads.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing.

1. Connect supply line hose to main shaft input and return line to swivel output.

### Installing the Output Hose

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. Pipe thread sealant is not recommended on twin hydraulic reels.

1. Manually turn sheave until spring is tight, back off 3 turns, then latch.
2. Route output hose through guide arm bracket, U-bolts, then through cutout in spool.
3. Connect output hose to swivel.
4. Tighten U-bolts.
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper.

### Adjustments

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

## Series TH80000

### Installing the Input Hose

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Do not overtighten connection. Recommended torque not to exceed 70 ft. lb.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing.

1. Apply thread sealant as directed and connect swivels to main shaft inputs on opposite sides of the reel.
2. Connect customer supplied supply line hose to swivel input. Note that the supply line and return line hoses can be switched as long as caution is taken when installing output hoses; paying attention to hook-up locations on goosenecks.
3. Thread sealant is not recommended on swivel union fittings.



### Installing the Output Hose

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism.

**Caution:** Do not overtighten connection. Recommended torque not to exceed 70 ft. lb.

1. Manually turn sheave until spring is tight, back off 3 turns, then latch.
2. Route output hoses through roller bracket, U-bolts, then through cutout in spool.
3. Connect output hose to gooseneck paying special attention to which gooseneck should be used depending on application.
4. Verify U-bolt position conforms with guide arm position using label inside spool. Then tighten nuts on U-bolt.
5. Charge hoses. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper assembly.

### Adjustments

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension on reel by manually adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Manually add wraps to increase tension. Remove wraps to decrease tension.

**Caution:** When adding wraps of hose, add just enough wraps to achieve the desired tension without exceeding the winding mechanism's spring capacity. Properly tensioned reels allow all hose to be freely removed from the spool until the point of U-bolt contact. Damage to the winding mechanism will result if spring is over-tensioned.

Reel w/hose	Reel w/o hose	Hose I.D.	Hose Length	# Wraps
TH5425 OMP	TH5400 OMP	1/4" 6mm	25' 8m	13
TH7445 OMP	TH7400 OMP	1/4" 6mm	45' 15m	16
THA7630 OMP	THA7600 OMP	3/8" 10mm	30' 9m	16
TH86050 OMP	TH86000 OMP	3/8" 10mm	50' 15m	23
TH88050 OMP	TH88000 OMP	1/2" 13mm	50' 15m	23

**Series F7000 / FF9000 / FE9000 / FD9000 / F80000 / FD80000****Replacing the Hose**

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off three turns and latch.
3. Insert hose through roller guide.
4. Connect hose fitting to female outlet ell.

**Adjustments**

To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time until desired tension obtained.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
F7925 OLP	F7900 OLP	3/4"	19mm	25'	8m	14
F83050 OLP	F83000 OLP	3/4"	19mm	50'	15m	17
FD83075 OLP	FD83000 OLP	3/4"	19mm	75'	23m	19
FD84050 OLP	FD84000 OLP	1"	25mm	50'	15m	19
FE9350 OLPBW	FE9300 OLPBW	3/4"	19mm	50'	15m	21
FE9450 OLPBW	FE9400 OLPBW	1"	25mm	50'	15m	21
FD9350 OLPBW	FD9300 OLPBW	3/4"	19mm	50'	15m	21
FD9450 OLPBW	FD9400 OLPBW	1"	25mm	50'	15m	21
Not Available	FF9500 OLPBW	1 1/4"	32mm	50'	15m	18
Not Available	FF9600 OLPBW	1 1/2"	38mm	50'	15m	18

**Series 4000 / 5000 Pre-Rinse and Potable Water****Replacing the Hose**

1. Wind spool flange clockwise -- facing swivel -- until spring is tight.
2. Back off three turns and latch.
3. Insert hose through roller guide and hole in spool flange.
4. Connect hose fitting to swivel joint and secure hose with clamps.

**Adjustments**

To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time until desired tension obtained.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
4625 OLPSW5	Not Available	3/8"	10mm	25'	8m	13
5635 OLPSW5	Not Available	3/8"	10mm	35'	11m	19
5635 ELPSW5	Not Available	3/8"	10mm	35'	11m	19
5635 OLSSW5	Not Available	3/8"	10mm	35'	11m	19
5635 ELSSW5	Not Available	3/8"	10mm	35'	11m	19
A5835 OLBSW23	Not Available	1/2"	13mm	35'	11m	13

## Series PW7000

### Installing the Input Hose

**Warning:** Ensure that supply line pressure does not exceed maximum working pressure rating of reel. Apply pipe thread sealant to all threads.

**Caution:** Use flexible hose connection at input. Do not use rigid plumbing.

1. Connect supply line hose to main shaft input.

### Installing the Output Hose

**Warning:** Use extreme caution; reel under tension. Avoid releasing latch mechanism.

1. Manually turn sheave until spring is tight, back off 3 turns, then latch.
2. Route output hose through guide arm bracket, U-bolts, then through cutout in spool.
3. Connect output hose to swivel.
4. Tighten U-bolts.
5. Charge hose. Momentarily open control valve to purge hose of gases. When fluid appears at control valve, close valve. With hose fully charged, release latch and wind output hose onto reel.
6. Install hose bumper.

## Series PW80000

### Install/Replace the Hose

**Caution:** Exercise extreme caution when adding or removing spring tension. Ensure reel base is fastened down prior to adjusting tension. Do not move spool while tightening hose or latch will disengage. Do not let go of the hose until latch mechanism is engaged.

1. To achieve proper tension, wind spool flange required number of turns. Do not over-tighten.
2. Engage hose latching mechanism.
3. Insert hose through roller guide.
4. Connect hose fitting to female outlet. Install hose bumper stop at desired position.

### Spring Tension Adjustments

To adjust spring tension, add or remove wraps of hose from the spool, one wrap at a time, until desired tension is obtained (refer to cautionary statements above). Hose latching mechanism can be removed for constant tension applications.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
PW7650 OHP	PW7600 OHP	3/8"	10mm	50'	15m	16
Not Available	PW81000 OHP	3/8"	10mm	100'	31m	23

## Series 4000 Power and Light Cord Reels

### Installing the Input Electrical Cable

**Warning:** Use only 12/3 or 16/3 cable for input wiring. Ensure that application does not exceed electrical rating of reel.

1. Feed input cable through elbow and main shaft. Make sure that input cable extends 6" from collector.
2. Screw elbow into reel.
3. Connect input wires and collector ring wires together using wire nuts.
4. Assemble cover to reel.

### Installing the Output Electrical Cable

**Warning:** Select output cable in accordance with power requirement of apparatus to be supplied. Ensure that application does not exceed electrical rating of reel. Use extreme caution, reel under tension. Avoid releasing latch mechanism.

1. Manually turn sheave until spring is tight, back off 2 turns, and latch.
2. Remove access cover.
3. Remove 6" of output cable outer jacket and add fork terminals to ends.
4. Route cable through strain relief, then through cut out in spool.
5. Pull enough cable through for roughly 1/2 an inner wrap.
6. Connect output wires to terminal block.
7. Connect ground wire to grounding stud.
8. Using Ohmmeter check for ground faults.
9. Replace cover.
10. Release latch and wind cable onto reel.
11. Install cable bumper.

## Adjustments

### Spring Tension

If necessary, adjust spring tension on reel by adding or removing wraps of electrical cord from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

**Warning:** When adding wraps of electrical cord, be careful not to exceed the winding mechanism's spring capacity. Add just enough wraps of cord to achieve the desired tension. Damage to the winding mechanism will result if spring is over-tensioned. Always be aware of spring tension on reel. Exercise extreme caution.

## Series 5000 Power and Light Cord Reels

### Installing the Input Electrical Cable: 35 Amp Models

**Warning:** Use only 10/3 cable for input wiring. Ensure that application does not exceed electrical rating of reel.

1. Feed input cable through elbow and main shaft.
2. Screw elbow into reel.
3. Connect input wires and collector ring wires together using wire nuts.
4. Assemble cover to reel.

### Installing the Output Electrical Cable: 35 AMP Models

#### Wire Color Code:

Black = Hot / White = Neutral / Green = Ground

**Warning:** Select output cable in accordance with power requirement of apparatus to be supplied. Ensure that application does not exceed electrical rating of reel. Use extreme caution, reel under tension. Avoid releasing latch mechanism.

1. Manually turn sheave until spring is tight, back off 2 turns, and latch.
2. Remove access cover.
3. Remove 6" of output electrical cable outer jacket.
4. Route cable through guide arm and U-clamp then through cut-out in spool.
5. Tighten U-clamp.
6. Using wire nuts, connect output electrical cable wires to collector assembly brush wires.
7. Connect ground wire of output electrical cable to ground lug located on inner side of spool.
8. Using ohmmeter, check for ground faults.
9. Replace access cover. Release latch and wind output electrical cable onto reel.
10. Install cable bumper.

### **Adjustments / Spring Tension**

If necessary, adjust spring tension on reel by adding or removing wraps of electrical cord from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

**Caution:** When adding wraps of electrical cord, be careful not to exceed the winding mechanism's spring capacity. Add just enough wraps of cord to achieve the desired tension. Damage to the winding mechanism will result if spring is over-tightened. Always be aware of spring tension on reel. Exercise extreme caution.

## **Series 7000 Power and Light Cord Reels**

### **Installing the Output Electrical Cable**

**Warning:** Select output cable in accordance with power requirement of apparatus to be supplied. Ensure that application does not exceed electrical rating of reel. Use extreme caution; reel under tension. Avoid releasing latch mechanism.

1. Manually turn sheave until spring is tight. Back off three turns, then latch.
2. Remove access cover.
3. Remove 8" of output electrical cable outer jacket.
4. Loosen strain relief.
5. Route output electrical cable through U-clamps, cutout in spool, then through strain relief.
6. Tighten U-clamps and strain relief.
7. Using wire nuts, connect output electrical cable wires to collector assembly brush wires.
8. Connect ground wire of output electrical cable to ground lug located on inner side of spool.
9. Using ohmmeter, check for ground faults.
10. Install access cover.
11. Release latch and wind output electrical cable onto reel.
12. Install cable bumper.

<b>Reel w/cord</b>	<b>AWG</b>		<b>Cord Length</b>		<b># Wraps</b>
L 4035 163 3	16	1.33	35'	11m	19
L 4050 163 3	16	1.33	50'	15m	19
L 4545 123 3	12	3.32	45'	14m	19
L 5550 123 3	12	3.32	50'	15m	21
L 4545 123 3A	12	3.32	45'	14m	19
L 5550 123 3A	12	3.32	50'	15m	21
L 4545 123 3B	12	3.32	45'	14m	19
L 5550 123 3B	12	3.32	50'	15m	21
L 5750 103 4	10	5.37	50'	15m	21
L 4545 123 7A	12	3.32	45'	14m	19
L 4545 123 7	12	3.32	45'	14m	19
L 5550 123 7	12	3.32	50'	15m	21
L 4050 163 9	16	1.33	50'	15m	19
L 4545 123 9	12	3.32	45'	14m	19
L 4545 123 9G	12	3.32	45'	14m	19
L 4035 163 1	16	1.33	35'	11m	19
L 4050 163 1	16	1.33	50'	15m	19
L 4035 A 163 5	16	1.33	35'	11m	19
L 4050 A 163 5	16	1.33	50'	15m	19
L 5245 A 163 6X	16	1.33	45'	14m	21
L 4035 162 2	16	1.33	35'	11m	19
L 4050 162 2	16	1.33	50'	15m	19
L 4035 163 8	16	1.33	35'	11m	19
L 4050 163 8	16	1.33	50'	15m	19
L 4035 163 10	16	1.33	35'	11m	19
L 4050 163 10	16	1.33	50'	15m	19

<b>Reel w/out cord</b>	<b>AWG</b>		<b>Cord Length</b>		<b># Wraps</b>
L 4000	16	1.33	50'	15m	19
L 4100	16	1.33	40'	12m	19
L 4500	12	3.32	45'	14m	19
L 5000	10	5.37	35'	11m	19
L 5400	12	3.32	35'	11m	21
L 5500	12	3.32	50'	15m	21
L 5700	10	5.37	50'	15m	21
L 7000	6	13.3	35'	11m	16

## Series TW

### Installing the Output Hose

**Caution:** Use extreme caution; reel under tension, avoid releasing latch mechanism. Apply teflon tape to outlet connections.

1. Manually turn spool assembly until spring is tight, back off three turns, then latch.
2. Route output hoses through guide bracket.
3. Using a wrench, firmly hold on to output fittings on swivel (for 5000, 7000 and 8000 models), or fittings on shaft (for 30000 and 80000 models) while tightening the hose connector.

### Adjustments

**Caution:** Use extreme caution; reel under tension. Avoid releasing latch mechanism. If necessary, adjust spring tension of reel by adding or removing wraps of hose from spool, one wrap at a time, until desired tension is obtained. Add wraps to increase tension. Remove wraps to decrease tension.

**Caution:** When adding wraps of hose, be careful not to exceed the winding mechanisms spring capacity. Add just enough wraps of hose to achieve the desired tension. Damage to the winding mechanism will result if spring is over-tensioned.

Reel w/hose	Reel w/o hose	Hose I.D.		Hose Length		# Wraps
TW5425 OLP	TW5400 OLP	1/4"	6mm	25'	8m	17
STW3450 OLP	Not Available	1/4"	6mm	50'	15m	NA
TW7450 OLP	TW7400 OLP	1/4"	6mm	50'	15m	22
TW7460 OLP	TW7400 OLP	1/4"	6mm	60'	18m	22
TW5425 OLPT	TW5400 OLPT	1/4"	6mm	25'	8m	17
TW7450 OLPT	TW7400 OLPT	1/4"	6mm	50'	15m	22
TW7460 OLPT	TW7400 OLPT	1/4"	6mm	60'	18m	22
TW84100 OLPT	TW84000 OLPT	1/4"	6mm	100'	30m	23
TW86075 OLPT	TW86000 OLPT	3/8"	10mm	75'	23m	23