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## PREMIUM SERIES™ HOSE REELS

*Multi-Purpose Dispense*

### **Models: 2110-XXX**

See page 3 for Hose Reel Model  
Numbers and Technical Data



Thoroughly read and understand this manual before  
installing, operating or servicing this equipment.

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**OPERATION, INSTALLATION,  
MAINTENANCE AND REPAIR GUIDE**

# General Safety

Thoroughly read and understand this manual before installing, operating or servicing this equipment.



## ! IMPORTANT

Because this Hose Reel can be incorporated into a pressurized systems, the following safety precautions should be observed.

Check equipment regularly and repair or replace worn and damaged parts.

Never alter or modify any parts of this hose reel, doing so may cause damage to hose reel and/or personal injury.

Under no circumstances should the dispensing valve be aimed at any person at any time. Personal injury may result.

Release pressures built up in the system before any service or repair is begun. See the pressure relief procedure below.

Do not operate bare air/water or lube reels above 3000 psi (206.9 bar). Do not operate bare grease reel above 5000 psi (620.6 bar).

**NOTE:** If reel is equipped with hose, reel maximum pressure will be determined by the lowest working pressure rating of the hose, bare reel, or dispense valve.

Always read and follow the fluid manufacturer's recommendations regarding the use of protective eyewear, clothing and respirators.



## ! WARNING

Pressure Relief Procedure:

Follow this procedure before maintaining and/or repairing your Premium Hose Reel and/or any part of system.

- 1) Disconnect the air to the pump.
- 2) Point dispensing valve away from yourself and others.
- 3) Open dispensing valve until pressure is relieved.



## CAUTION

USE EXTREME CARE WHEN HANDLING THE POWER SPRING!

The spring is ALWAYS under great tension and could be propelled from the case with enough force to cause serious bodily injury.



## CAUTION

Be aware of possible fluid thermal expansion! A pressure relief valve should be properly installed in any system where this product is used. Should this product fail as a result of thermal expansion and no pressure relief valve was installed, the product warranty will be voided.



## WARNING

Be sure the mounting surface is strong enough to support the reels, the weight of the fluids and the stress caused by hard pulls on the service hoses. See page 3 for dry weights of the hose reel assemblies.



## WARNING

The *MAXIMUM WORKING PRESSURE* of a hose reel is determined by the lowest rated component in the assembly. The hose reel Technical Data chart on page 3 give the maximum working pressure of bare reels and reels assembled at the factory with hose. The maximum working pressure of a hose reel is indicated on the hose reel identification plate located near the base of the reel.

If adding a service hose and dispensing valve to a bare reel, *BE SURE* you know the maximum working pressure of *ALL* components!



## WARNING

**DANGER:** Not for use with fluids that have a flash point below 100°F (38°C). Examples: gasoline, alcohol. Sparking could result in an explosion which could result in death.

## Product Description

The *Heavy Duty Premium Series™* hose reel is designed for service where larger volumes of deliveries are required. The swivel is balanced with equalized pressure on both internal sides of the seals to eliminate undue unbalanced friction. The roller outlet is quickly adjusted to any of the three mounting positions (i.e. wall, ceiling, or table).

# Model Numbers

NOTE (1): Inlet hoses are included with Premium Series Open

Type of Service	Model No.	Hose Size	Maximum Working Pressure	Outlet Hose	Inlet Hose <sup>(1)</sup>	Bare Reel			
Low Pressure Air, Water (Outlet Fitting 1/4" nptm)	2110-013	30' x 3/8"	250 psi	8136-030	8141-002	2110-024			
	2110-014	40' x 3/8"	250 psi	8136-040	8141-002	2110-024			
	2110-015	50' x 3/8"	250 psi	8136-050	8141-002	2110-023			
	2110-016	60' x 3/8"	250 psi	8136-060	8141-002	2110-023			
	2110-017	30' x 1/2"	250 psi	8141-030	8141-002	2110-024			
	2110-018	40' x 1/2"	250 psi	8141-040	8141-002	2110-024			
	2110-019	50' x 1/2"	250 psi	8141-050	8141-002	2110-023			
	2110-020	60' x 1/2"	250 psi	8141-060	8141-002	2110-023			
Med. Pressure Oil, ATF (Outlet Fitting 1/2" nptm )	2110-009	30' x 1/2"	3000 psi	8241-030	8249-002	2110-024			
	2110-010	40' x 1/2"	3000 psi	8241-040	8249-002	2110-024			
	2110-011	50' x 1/2"	3000 psi	8241-050	8249-002	2110-022			
	2110-012	60' x 1/2"	3000 psi	8241-060	8249-002	2110-022			
High Pressure Grease (Outlet Fitting 1/4" nptm)	2110-001	30' x 1/4"	5000 psi	8321-030	8332-002	2110-025			
	2110-002	40' x 1/4"	5000 psi	8321-040	8332-002	2110-025			
	2110-003	50' x 1/4"	5000 psi	8321-050	8332-002	2110-021			
	2110-004	60' x 1/4"	5000 psi	8321-060	8332-002	2110-021			
	2110-005	30' x 3/8"	4000 psi	8331-030	8332-002	2110-025			
	2110-006	40' x 3/8"	4000 psi	8331-040	8332-002	2110-025			
	2110-007	50" x 3/8"	4000 psi	8331-050	8332-002	2110-021			
	2110-008	60' x 3/8"	4000 psi	8331-060	8332-002	2110-021			
Bare Reels	New Model	Hose Capacity Lgth. Dia		Bare Reel W.P. (psi)	Thread Size Inlet Outlet		Reel Dimensions L. W. H.		
	2110-021	60'	3/8"	8000 psi	1/4" (F)	1/4" (F)	19"	7.5"	23"
	2110-022	60'	1/2"	3000 psi	1/2" (F)	1/2" (F)	19"	7.5"	23"
	2110-023	60'	1/2"	3000 psi	1/2" (F)	1/2" (F)	19"	7.5"	23"
	2110-024	40'	1/2"	3000 psi	1/2" (F)	1/2" (F)	19"	7.5"	23"
	2110-025	40'	3/8"	8000 psi	1/4" (F)	1/4" (F)	19"	7.5"	23"
	2110-026	60'	1/2"	3000 psi	1/2" (F)	1/2" (F)	19"	7.5"	23"

## Technical Data

### Maximum Fluid Working Pressure:

Low Pressure Reels (bare)..... 3000 psi

Medium Pressure Reels (bare)..... 3000 psi

High Pressure Reels (bare)..... 8000 psi

### Wetted Parts:

General Lube..... Steel (plated), Buna-N, Bronze

Brake Fluid (Model 2110-026) .....Steel (plated),

..... EPDM Seals, Bronze

### Hose Working Pressure Ratings:

Air/Water Hose ..... 5/16" – 300 psi

3/8" – 300 psi

1/2" – 250 psi

Med. Pressure ..... 3/8" – 3000 psi

1/2" – 3000 psi

High Pressure..... 1/4" – 5000 psi

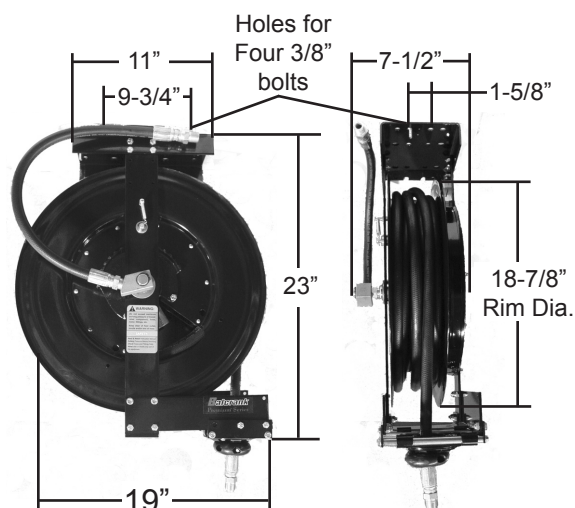
3/8" – 4000 psi

### Shipping Weight Bare Reels:

Std. Frame (35 ft hose or less)..... 63 lbs.

Lrg. Frame (40 ft & above) ..... 74 lbs.

## Dimensions



# Installation

## Tank/Wall Mounting:

The hose reel has been shipped for a ceiling mount application unless specified differently. The outlet arm will need to be adjusted for tank/wall mounting. If a bare reel has been ordered see installation of hose instructions and power spring adjustment on following pages.

1. Select the mounting location. Be sure the mounting structure is secure and will not tip when reel is in operation.
2. Locate the mounting holes for drilling.
3. Adjust the outlet arm position. Before removing the roller outlet assembly and the top tie bracket, the power spring tension should be released and the uprights should be secured to prevent accidental separation. Once the outlet arm is positioned correctly retighten bolts 80 to 90 inch pounds. (Refer to illustrations on page 5 for further details on changing the outlet arm position).
4. Fasten the base using bolts of a sufficient strength to prevent the reel from "shearing bolts" during operation when hose is pulled.
5. Connect supply line to the inlet of hose reel. (Low & Med. Pressure... inlet 1/2" NPTF & High Pressure ... inlet 1/4" NPTF).



## NOTE

*Do not hard pipe inlet/swivel to any existing structure/system. Flexible connection hose must be used to maintain swivel performance.*

6. Install the hose stop and dispensing valve. Position the hose stop so the hose extends far enough for all operators to reach it.



## WARNING

Be sure the mounting surface is strong enough to support the reels, the weight of the fluids and the stress caused by hard pulls on the service hoses. See page 3 for dry weights of the hose reel assemblies.

## Ceiling Mounting:

The power spring tension will need to be adjusted for the ceiling height of the building. If a bare reel has been ordered see installation of hose instructions and power spring adjustment on the following pages.

1. Select the mounting location. If the ceiling is very high, suspend a suitable support structure for the reels, so the hoses will be long enough to reach service area.

2. Locate the mounting holes for drilling, using measurements on previous page. If mounting directly to I-Beam use mounting kit 2230-013 (no drilling required).
3. Fasten the base using bolts of a sufficient strength to prevent the reel from "shearing bolts" during operation when hose is pulled.
4. Connect supply line to the inlet of hose reel. (Low & Med. Pressure... inlet 1/2" NPTF & High Pressure ... inlet 1/4" NPTF).
5. Install the hose stop and dispensing valve. Position the hose stop so the hose extends far enough for all operators to reach it.

## Installing a Service Hose on a Bare Reel:



## WARNING

The **MAXIMUM WORKING PRESSURE** of a hose reel is determined by the lowest rated component in the assembly. The maximum working pressure of a hose reel is indicated on the hose reel identification plate located near the base of the reel.

If adding a service hose and dispensing valve to a bare reel, **BE SURE** you know the maximum working pressure of **ALL** components!

1. Locate or measure the length and size of your hose in the charts below. Note how many times you must turn the spool of the reel to properly adjust spring tension.

High Pressure Hose Description	No. of Turns	Low/Med. Pressure Hose Description	No. of Turns
1/4" I.D. x 30 ft.	11	5/16" I.D. x 30 ft.	11
1/4" I.D. x 40 ft.	13	5/16" I.D. x 40 ft.	13
1/4" I.D. x 50 ft.	15	5/16" I.D. x 50 ft.	15
1/4" I.D. x 60 ft.	17	3/8" I.D. x 30 ft.	12
3/8" I.D. x 30 ft.	12	3/8" I.D. x 40 ft.	14
3/8" I.D. x 40 ft.	14	3/8" I.D. x 50 ft.	16
3/8" I.D. x 50 ft.	16	3/8" I.D. x 60 ft.	18
3/8" I.D. x 60 ft.	18	1/2" I.D. x 30 ft.	12
		1/2" I.D. x 40 ft.	15
		1/2" I.D. x 50 ft.	17
		1/2" I.D. x 60 ft.	19

2. Place a piece of tape on the side of the spool to help when counting the number of turns made.
3. Wearing **heavy leather gloves**, firmly grab the outside edge of the spool with both hands. Wind the reel to the proper number of turns, rotating it in a clockwise direction, stopping only at the latching locations, stop the reel where the hose swivel is accessible and where the stop pawl is securely latched.

**! WARNING:** *Wear Heavy Leather Gloves* when replacing service hose and/or replacing power spring to protect your hands from injury.

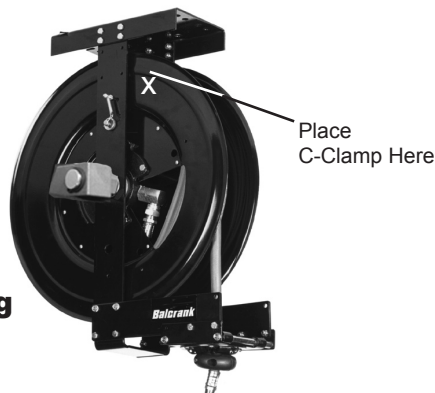
4. Before installing the hose, secure spool from accidental rotation by placing a clamp on the spool. See figure 1 for proper placement of clamp. This will keep the spool from rotating while installing the hose.
5. Uncoil the hose and attach bumper stop. Attach the hose to the reel then remove clamp carefully.
6. Firmly grasp the hose and pull it to release the stop pawl. Then slowly retract the hose.

**NOTE:** Check the power spring tension. The hose must pull out fully and retract fully. To adjust, add or remove ONE loop from the spool, extend the hose, and latch it. Do this as many times as necessary until the power spring has the desired tension.

7. Position the bumper stop so the hose extends far enough for all operators to reach it.

**! CAUTION:** *Do Not* put so many loops onto the reel that the power spring winds tightly before the hose is fully extended. A power spring that has been wound too tight stops rotating before the hose is fully extended. This condition will wear the hose and power spring prematurely. To decrease tension, remove one to two loops of hose from the reel.

**! WARNING:** *Never* allow the reel to spin freely. Doing so will cause the hose to spin out of control, which could cause serious bodily injury.



**Figure 1**  
**Clamping**  
**Spool**

## Installation

### Increasing Power Spring Tension:

1. Pull the hose out fully and engage the stop pawl.
2. Be sure the system pressure has been relieved. **Follow the pressure relieve procedures below.**
3. Remove the bumper stop and dispensing valves.
4. Pull the hose back through the roller outlet and wrap one loop of hose around the spool.
5. Pull the hose back through the roller outlet assembly and check the spring tension; the hose must pull out fully and retract fully. Continue to wrap more loops, one at a time until the power spring has the desired tension.



### **WARNING**

#### Pressure Relief Procedure:

Follow this procedure before maintaining and/or repairing your Premium Hose Reel and/or any part of system.

- 1) Disconnect the air to the pump.
- 2) Point dispensing valve away from yourself and others.
- 3) Open dispensing valve until pressure is relieved.

### Adjusting the Outlet Arm Position:



**CAUTION:** Before removal of the roller outlet assembly and the top tie bracket, the power spring tension should be removed and the uprights should be secured against accidental separation.

### Ceiling/Wall Mounting Position:

The hose reel is shipped ready to use. No assembly is required for basic operation. (See figure 2)

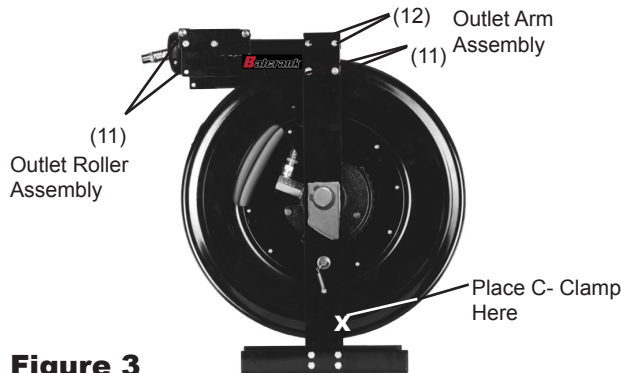


**Figure 2**  
**Ceiling/Wall Outlet**  
**Arm Position**



### Tank/Mobile Mounting Position:

1. Pull the hose out fully and engage the stop pawl. Place C-Clamp on spool to prevent possible bodily injury. (See figure 3)
2. Remove screws (11) from roller outlet assembly and remove screw (11 & 12) which hold the top tie bracket and outlet arm assembly to the uprights. Reverse the position of the roller outlet assembly as shown in figure 3 and replace screws. (See figure 3)



**Figure 3**  
**Tank/Mobile Outlet**  
**Arm Position**

## Maintenance

### Replacing Service Hose:

1. Be sure the pressure supply has been relieved when replacing the service hose. **Follow the pressure relieve procedures below.**
2. Fully extend the service hose. Stop the reel where the hose swivel union is accessible and where the stop pawl is securely latched.
3. Secure spool from accidental rotation by placing a C-Clamp onto the spool. See figure 4 for proper placement of C-Clamp. This will keep the spool from rotating while installing the new service hose.
4. Disconnect and remove service hose.
5. Uncoil the new hose and assemble the bumper stop, attach the new hose to the reel, and remove the C-Clamp carefully.
6. Firmly grasp the hose and pull it to release the stop pawl. Then slowly retract the hose.

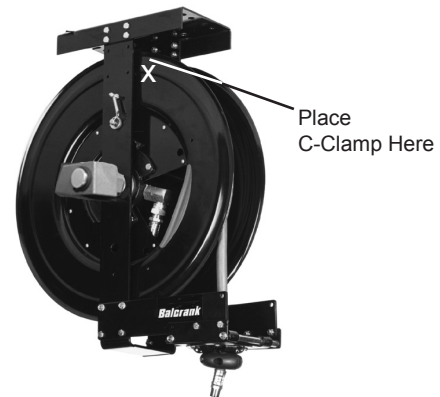


**WARNING:** Never allow the reel to spin freely. Doing so will cause the hose to spin out of control, which could cause serious injury.

**NOTE:** Check the power spring tension. The hose must pull out and retract fully. Wrap ONE more loop onto or off the spool, extend the hose, and latch it. Do this as many times as necessary until power spring has the desired tension.

### Replacing the Swivel:

1. Be sure the pressure supply has been relieved, when replacing the swivel. **Follow the pressure relieve procedures below.**
2. Disconnect the inlet hose.
3. Remove the old swivel assembly and replace it with the new assembly. **NOTE:** The new assembly may look different from the old assembly. The important item to be sure of is thread size and pressure style (ex: L.P., M.P. or H.P.) used on your reel. (Refer to part listing on page 11, for proper swivel repair or replacement kit.)



**Figure 4**  
**Clamping**  
**Spool**

**NOTE:** A spring wound too tightly stops rotating before the hose is fully extended. This condition will place excessive strain on the hose and power spring that could damage and/or shorten the life of the reel.



### WARNING

#### Pressure Relief Procedure:



Follow this procedure before maintaining and/or repairing your Premium Hose Reel and/or any part of system.

- 1) Disconnect the air to the pump.
- 2) Point dispensing valve away from yourself and others.
- 3) Open dispensing valve until pressure is relieved.

# Maintenance



## Replacing Power Spring:

1. Be sure the pressure supply has been relieved when. **Follow the pressure relieve procedures below.**


	 <b>WARNING</b>
Pressure Relief Procedure:	
Follow this procedure before maintaining and/or repairing your Premium Hose Reel and/or any part of system.	
<ol style="list-style-type: none"><li>1) Disconnect the air to the pump.</li><li>2) Point dispensing valve away from yourself and others.</li><li>3) Open dispensing valve until pressure is relieved.</li></ol>	

2. Disconnect inlet hose. Remove the reel to work bench and clamp reel base securely.
3. Remove hose stop and control dispensing valve, retract the hose and remove necessary wraps until *all power spring tension has been removed.*
4. Remove screws (11, 12 & 16) from base (40), hub (29) and top tie bar (19).
5. Unclamp the reel from the workbench and lay it on a flat work surface so the spring case (21) is facing up.
6. Twist the complete spring case assembly to the left or right and once the upright (15) is clear of the base (40) and the top tie bar (19) lift to remove the assembly.

**NOTE:** Be sure that both bolts (24) and safety cotter pins (20) are still in place on each side of the case before lifting. (See figure 7 for placement of cotter pins)

	 <b>CAUTION</b>
USE EXTREME CARE WHEN HANDLING THE POWER SPRING!	
The spring is ALWAYS under great tension and could be propelled from the case with enough force to cause serious bodily injury. To reduce the risk of serious bodily injury, use extreme caution when removing the top cover (23). Be sure the spring case is lying flat, and then carefully lift up the cover to expose the power spring.	

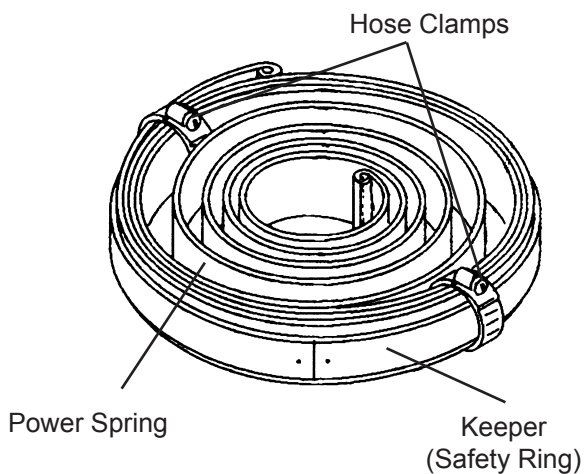
7. Be sure case is laying flat on the work surface, now remove bolts (24). Then using extreme caution, remove both safety cotter pins from sides of case and lift up on the spring case cover (23) to expose the power spring.
8. *Carefully Inspect the Power Spring.* If either end of the power spring is worn or damaged and will not engage the center plates (26) properly, replace the power spring.

	<b>WARNING:</b> If the power spring has become uncoiled inside the spring case, the “keeper” has failed. It is strongly advised that you replace the complete spring case assembly. The “keeper” is a metal band that is placed around the power spring to keep it from uncoiling when removed from the case. If you attempt to remove the power spring when this condition has occurred the spring will uncoil quickly and can cause serious bodily injury. (See figure 5)
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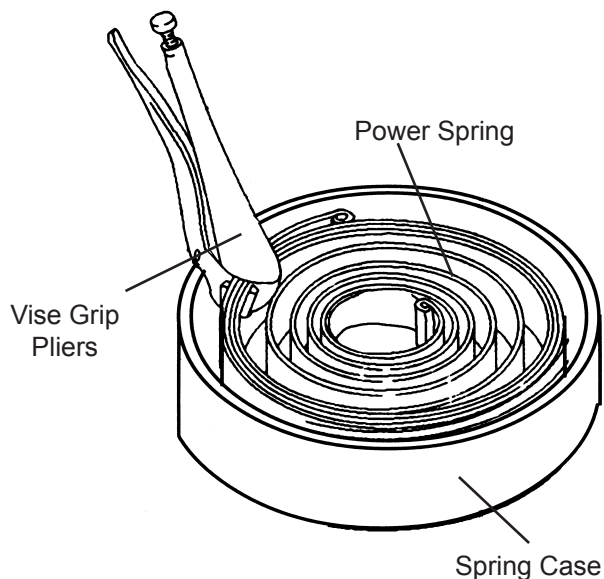
9. Apply a light coat of grease inside the spring case and cover.
10. Install the new power spring, making sure that it is laid into the spring case **counter-clockwise** and that the outside end loop is around spring case bolt (24) and spacer (55).
11. Replace spring case cover (23) and insert cotter pins (30) through sides of spring case and cover. Tighten case and cover to upright (15).

## Replacing Power Spring continued

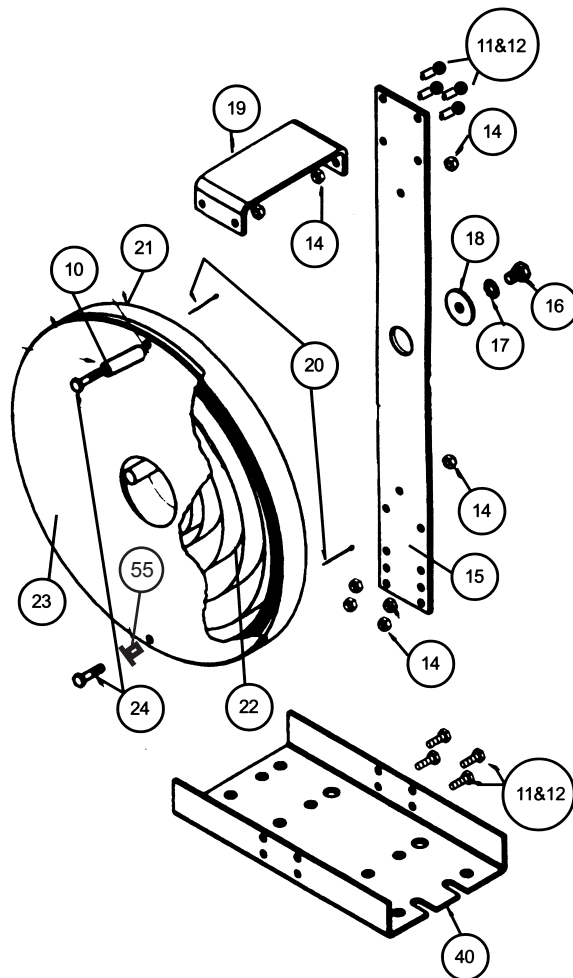
12. Twist the complete spring case assembly to the left or right, making sure that the power spring is centered and has engaged the spring center plates (26).
13. Align upright assembly (15) with base (40) and tip tie bar (19). Place bolts (11 & 12) back through the base and top tie bar and tighten to 100 - 110 inch pounds. Inspect complete reel for proper function and adjust power spring as needed by adding one to two loops of hose at a time to increase power spring tension.



**Figure 5**  
**Keeper & Safety Clamps**



**Figure 6**  
**Power Spring Removal**  
**Using Locking Pliers**



**Figure 7**  
**Power Spring & Case Pictorial**



# Maintenance

## Stop Pawl Replacement:

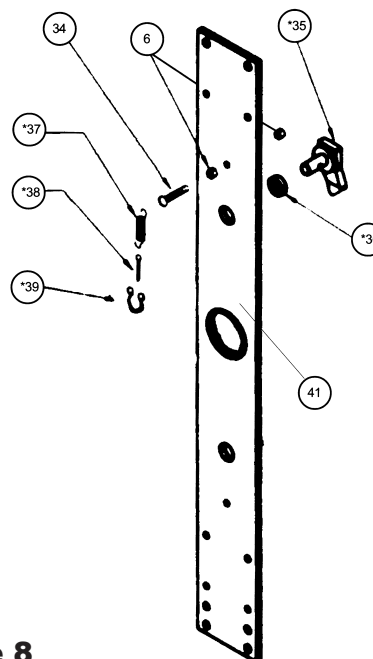
1. Allow the hose to retract as far as the hose stop to remove tension from the power spring and to be sure that the stop pawl is not engaged with the ratchet.
2. With the stop pawl assembly free to be moved by hand, remove the cotter pin (38), spring (37) and snap ring (39). Once this has been done the complete assembly can be removed.
3. Item (36) bronze bearing will need to be knocked out of the upright (41), using a punch and hammer.
4. With the stop pawl kit in hand replace the bronze bearing by pressing the new bearing into the upright (41).
5. Apply a light coat of grease to the stop pawl stud (35), reassemble by placing the stop pawl stud (35) back through the bronze bearing (36) and insert the snap ring (39) into the groove on the shaft of the stop pawl stud (35).
6. Replace the spring (37) and cotter pin (38) with the new ones provided in the kit.
7. Check the stop pawl assembly by hand for free movement. The stop pawl assembly should not stick or drag and it should return to its central position each time it is moved off center.

**NOTE:** If the assembly does not appear to be returning back to its neutral position, the spring tension may need to be increased. You can increase the spring tension by bending the cotter pin closer to the stop pawl shaft which will stretch the spring slightly.



**CAUTION:** Never alter or modify any parts of this reel. Doing so may cause damage to reel and/or personal injury. Always use genuine Balcrank replacement parts.

**NOTE:** Number with “\*” is a component of the stop pawl repair kit # 811128.

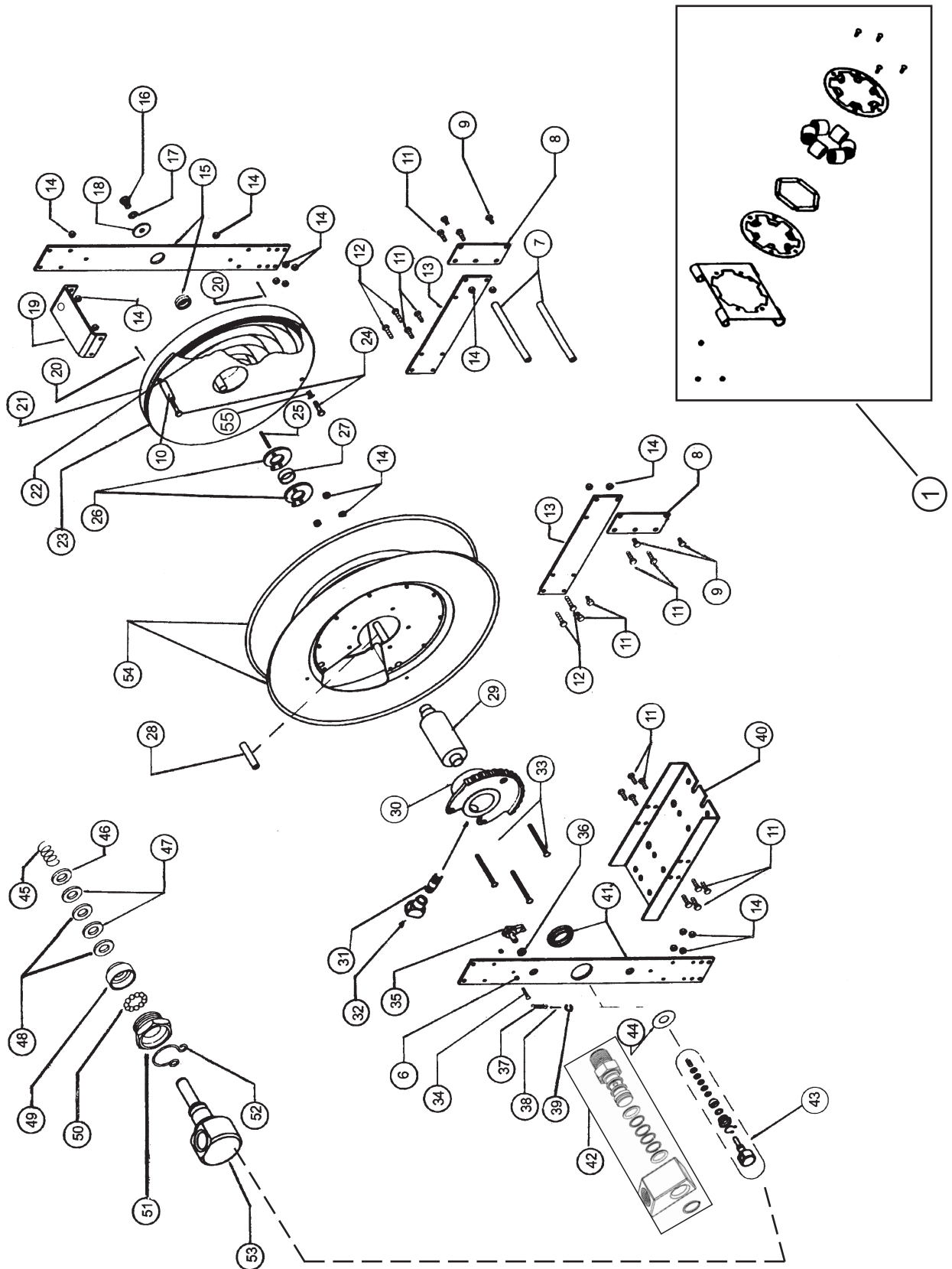


**Figure 8**  
**Stop Pawl Replacement**

# Troubleshooting Guide

Trouble	Probable Cause	Remedy
No spring tension	Power spring broken (item 22)	Replace power spring (see page 7)
Low or high tension on hose	Lost wraps or too many wraps of hose on reel	Add or take off wraps of hose by pulling hose on reel down just enough to allow stop pawl to engage ratchet. Now wraps can be added or taken off as needed.
Hose will not retract	Stop pawl lock-up	<b>CAUTION:</b> Wearing heavy leather gloves, firmly grab the outside edge of the spool with both hands. Release the tension on the stop pawl by hand for one or two revolutions.
Stop pawl will not engage	Spring broken or unhooked	Replace or repair (item 37)
Swivel leaking	Worn o-rings, block, or packing.	Replace swivel (item 42 or 43).

**Figure 9**  
**Parts Pictorial**



**CAUTION:** Never alter or modify any parts of this reel. Doing so may cause damage to reel and/or personal injury. Always use genuine Balcraak replacement parts.

**NOTE:** (\*\*) Component of “Stop Pawl Assembly” # 811128

(\*\*\*) Component of “High Pressure Swivel Assembly” # 809396

Hose Clips	
Hose Clip #	Applicable Hose
828150	9/16" O.D.
828151	11/16" O.D.
828152	3/4" O.D.

**NOTE:** High Pressure Swivel parts can be purchased separately, but it is recommended that the complete swivel be replaced.

Swivel Repair Kits		
Pressure Rating	Use Swivel #	For Serial #
3000 psi	827806	305999 & Below
3000 psi	827658	606000 & Above
8000 psi	809396	All H.P. Reels

**Note:**

\*Model #2110-026 has the same parts break down as 2110-022 except that item 42 must be order with EPDM o-ring 831733 (2).

Parts Listing for Premium Series (BARE) Reels				Parts Listing for Premium Series (BARE) Reels				2110-021	2110-022	2110-023	2110-024	2110-025
ITEM	PART	DESCRIPTION	QTY	ITEM	PART (1)	DESCRIPTION	QTY					
1	830571	Roller Outlet Assembly	1	30	808945	Low/Med. Pressure Ratchet	1		x	x	x	
6	814247	10-24 Hex Nut (**)	4		812114	High Pressure Ratchet	1	x				x
7	820002	Slide Rod	2	31		No Longer Used						
8	820166	End Support	2			No Longer Used						
9	819066	1/4-20 x 1/2" Hx. Hd. Bolt (*)	6	32	831935	Low/Med. Pressure Adapter	1		x	x	x	
10	824974	Spacer (prior to 1/04)	2		809058	High Pressure Outlet Adapter	1	x				x
	831730	Spacer (after 1/04)	1	33	821091	1/4-20 x 3-1/4" Rd. Hd. Bolt	3	x	x	x	x	x
11	805823	1/4-20 x 3/4" Hx. Hd. Bolt	14	34	808315	10-24 Rd. Hd. Screw (**)	1	x	x	x	x	x
12	820499	1/4-20 x 1" Hx. Hd. Bolt	4	35	809860	Stop Pawl & Stud (**)	1	x	x	x	x	x
13	808984	Roller Outlet Brace	2	36	826395	Stop Pawl Bearing (**)	1	x	x	x	x	x
14	813561	1/4-20 Elastic (Nyllok) Nut	21	37	807727	Spring-Stop Pawl (**)	1	x	x	x	x	x
15	810638	Right Hand Upright Assy.	1	38	805743	3/32 x 3/4" Cotter Pin (**)	1	x	x	x	x	x
16	805795	3/8-16 x 1/2" Hx. Hd. Bolt	1	39	826396	Snap Ring (**)	1	x	x	x	x	x
17	813738	3/8" Star Lock Washer	1	40	808965	Base Plate	1	x	x	x	x	x
18	806186	3/8" Flat Washer	1	41	810639	Left Hand Upright Assy.	1	x	x	x	x	x
19	808986	Top Tie Bar	1	42	831488	Low/Med. Pressure Swivel*	1		x	x		
20	808719	3/32 x 1-1/4" Cotter Pin	2	43	809396	High Pressure Swivel	1	x				x
21	824459	Spring Case	1	44	812116	H.P. Swivel Washer (***)	1	x				x
	826728	Power Spring	1	45	806775	H.P. Swivel Spring (***)	1	x				x
22	808966	Power Spring	1	46	806732	H.P. Washer Packing (***)	1	x				x
	813014	Power Spring	1	47	815759	H.P. Swivel Packing (***)	2	x				x
23	808958	Spring Case Cover	1	48	806734	H.P. Swivel Packing (***)	2	x				x
24	825720	1/4-20 Rd. Hd. Screw	2	49	806768	H.P. Swivel Sleeve (***)	1	x				x
25	808764	7/31 x 1-5/8" Roll Pin	2	50	806750	1/8" Steel Ball Bearing (***)	11	x				x
26	813779	Spring Center Plate	2	51	806773	H.P. Swivel Retainer Nut (***)	1	x				x
27	808967	Spacer-Spring Center Plate	1	52	807141	Ball Retainer Spring (***)	1	x				x
28	808961	Ratchet Support Spacer	3	53	807113	H.P. Swivel Stem (***)	1	x				x
29	828173	Low/Med. Pressure Hub	1	54	N/A	Spool Assembly	1	x	x	x	x	x
	812113	High Pressure Hub	1	55	831729	Spacer with Shoulder (after 1/04)	1	x	x	x	x	x

**For Warranty Information Visit:  
[www.balcrank.com](http://www.balcrank.com)**

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SERVICE BULLETIN SB2001  
Rev. K 7/11

**Revision Log:**

Rev. G - Changed swivel to 831488.  
Rev. H - Added Troubleshooting Table.  
Rev. I - Added item 55 and revised item 10.  
Added Model #2110-026.  
Rev. J - Changed item 31 & 32.  
Rev. K - Added note about inlet swivel connection to page 4.