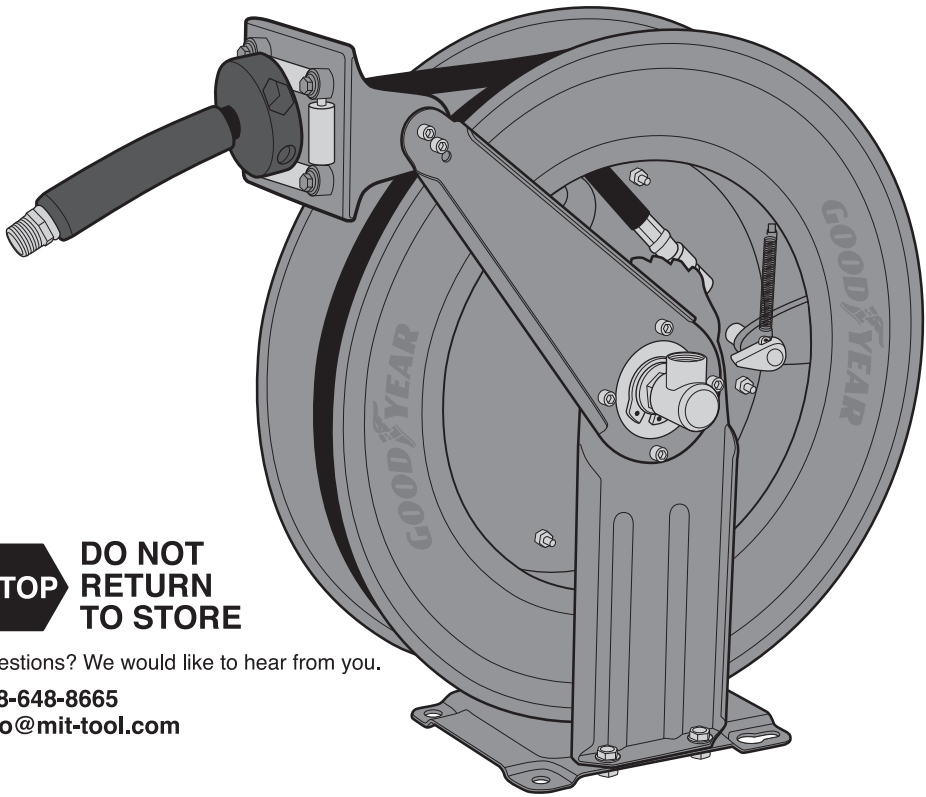
Model #'s
46731, 46741

GOODYEAR®

AUTO RETRACTING AIR HOSE REEL

OPERATOR'S MANUAL

STORE THIS MANUAL IN A SAFE
PLACE FOR FUTURE REFERENCE



STOP **DO NOT RETURN TO STORE**

Questions? We would like to hear from you.

888-648-8665
info@mit-tool.com

WARNING: BEFORE USE, READ AND UNDERSTAND OPERATOR'S MANUAL. Wear impact-resistant protective eyewear in work area at all times. This reel must only be mounted to a load bearing structural object such as a stud, rafter or floor which can support the combined weight of reel and hose and can withstand pulling forces on hose when in use. Air hose is designed for use on regulated air compressor systems delivering less than 250psi. DO NOT EXCEED 250PSI. Be sure to restrain hose as it rewinds - do not allow hose to rewind at full speed. Never exceed air pressure rating for any air tool. Read and follow all air tools owner's manuals and instructions. Certain air tools, such as paint spray guns, sanders, grinders, and sandblasting equipment, present specific dangers and hazards. Consult applicable material safety data sheet for precautions and possible respirator recommendation.

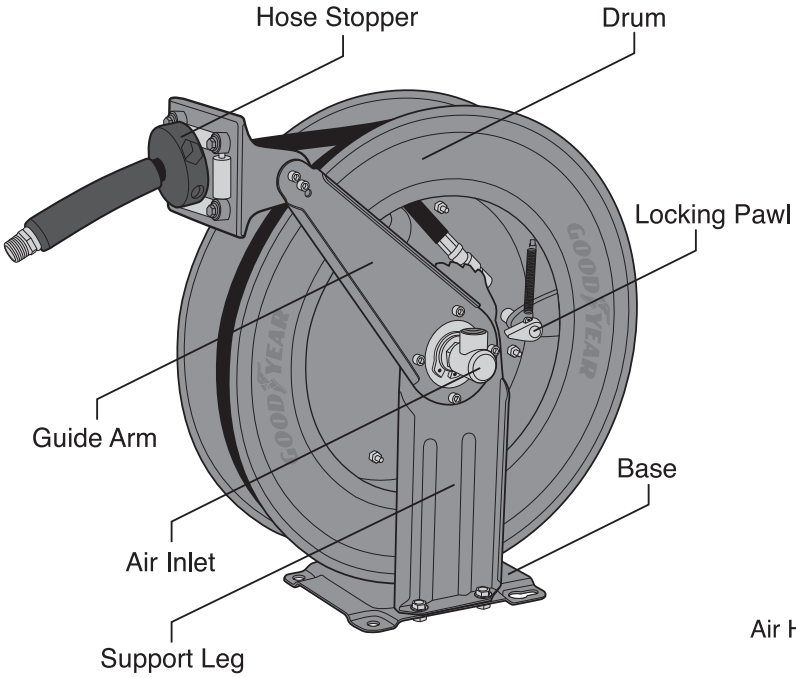
This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands thoroughly after handling.

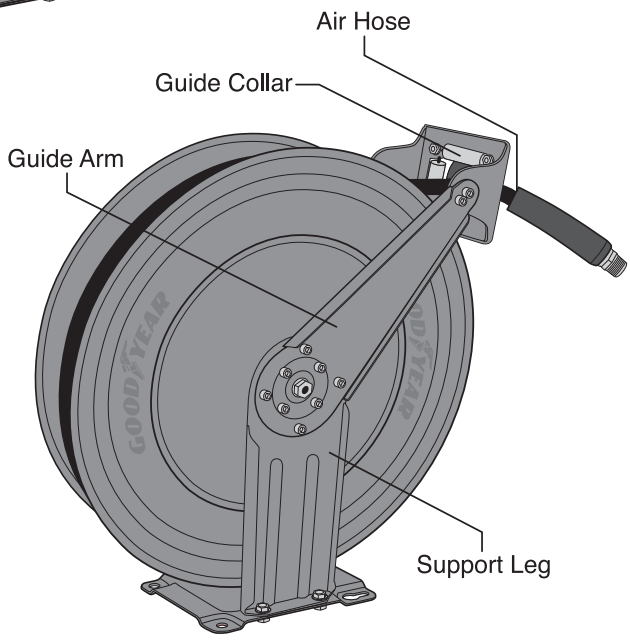
Model # 46731

• Air Hose Size:	3/8" x 50'
• Reel Air Inlet (F):	1/4" NPT
• Air Hose Outlet (M):	1/4" NPT
• Max Working Pressure:	250 PSI
• Maximum Air Flow:	25 CFM

Model # 46741

• Air Hose Size:	1/2" x 50'
• Reel Air Inlet (F):	1/2" NPT
• Air Hose Outlet (M):	1/2" NPT
• Max Working Pressure:	250 PSI
• Maximum Air Flow:	35 CFM





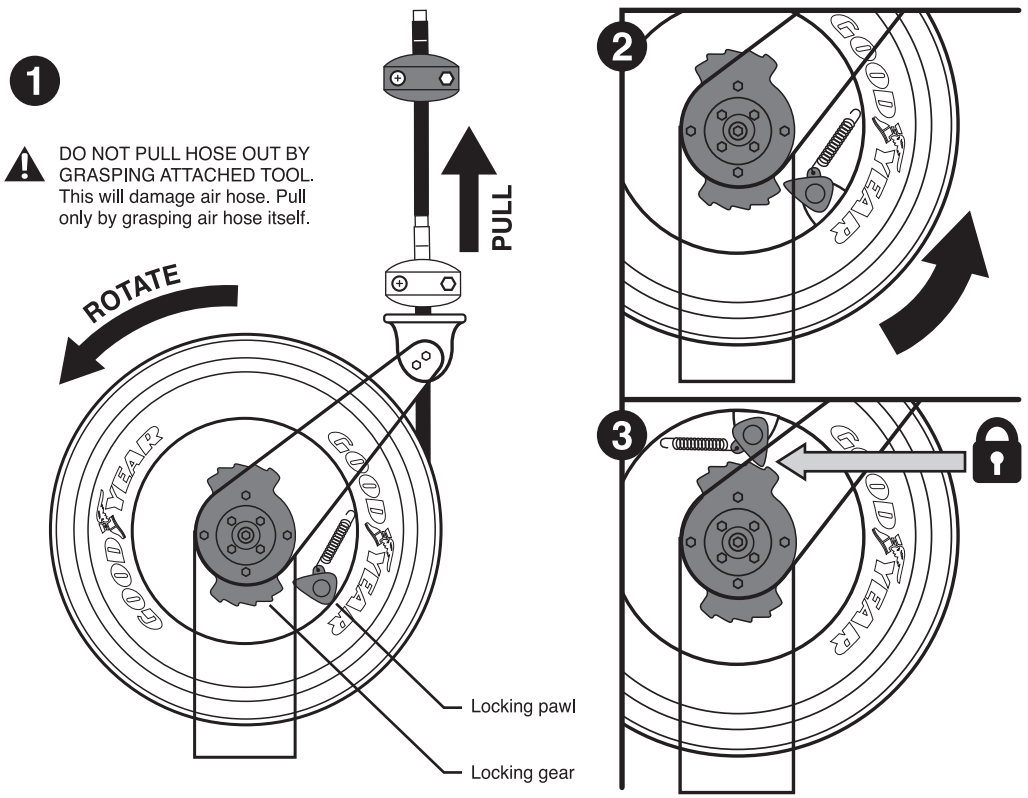
For complete parts diagram, see page 6-7, centerfold of book

OPERATING AIR HOSE REEL

BEFORE MOUNTING AIR HOSE REEL, please take a few minutes to understand how the reel works. Practice operating the hose reel a few times, pulling hose out and retracting it back onto reel. This will familiarize you with basic functions and can help you understand where best to mount the air hose reel.

This air hose reel automatically retracts air hose using an internal spring motor. When hose is pulled from reel, it is pulled against the tension of the spring motor. The more hose is pulled out, the greater the tension built up in spring motor. NEVER LET GO OF HOSE WHILE PULLING FROM REEL. Letting go will allow hose to rewind at uncontrolled speed, possibly damaging the internal spring or guide collar.

1. Grasp air hose and pull slowly from reel. As hose is pulled from reel, the entire reel drum rotates. To prevent extra wear on air hose, periodically check to be sure guide rollers inside collar are rolling smoothly.
2. As reel drum rotates, the locking gear and pawl make a short series of six clicking sounds each 1/2 revolution. In one revolution, there are a total of twelve locking positions.
3. **TO LOCK REEL IN POSITION,** slow down pulling motion as desired length of hose is reached. While slowly pulling, listen for each short series of clicking sounds. As the reel is clicking, stop pulling hose and decrease tension. Reel should lock in position.
   TO RETRACT HOSE ONTO REEL, slowly pull hose out until the first series of clicks stops. This means the locking pawl has cleared the locking gear. DO NOT LET GO OF HOSE! Slowly allow hose to rewind onto reel until hose stopper rests against guide collar.

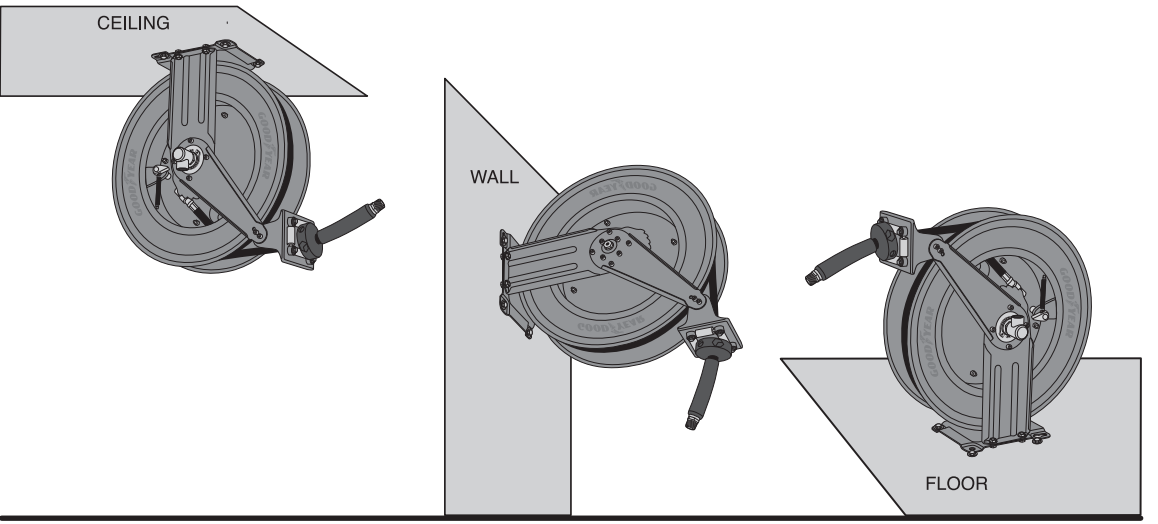


MOUNTING HOSE REEL

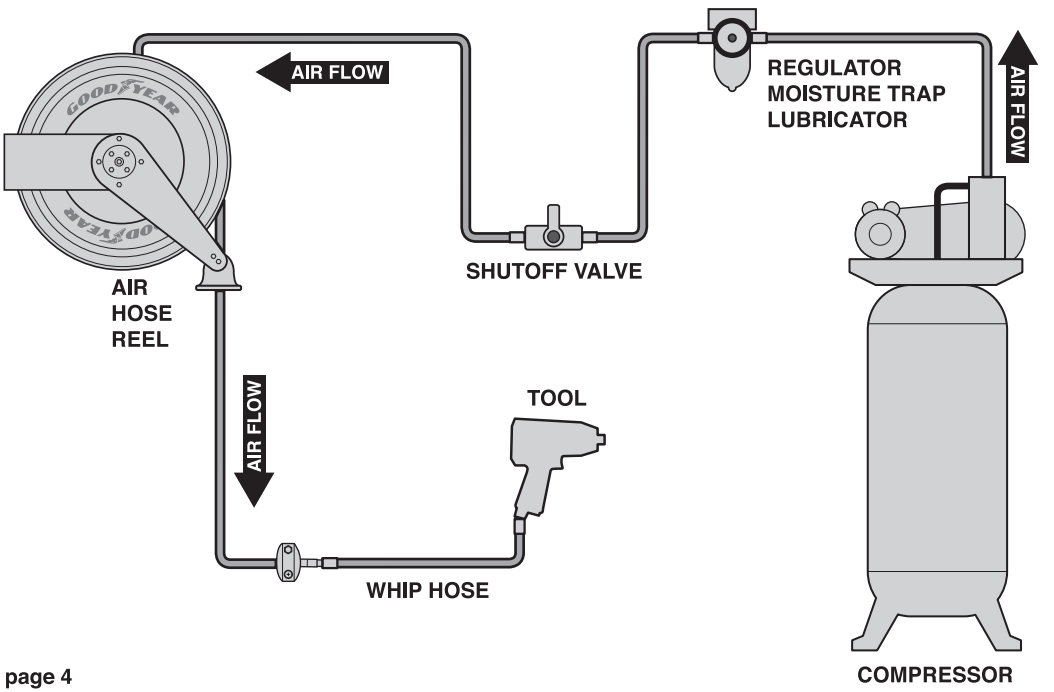
Choosing a Location

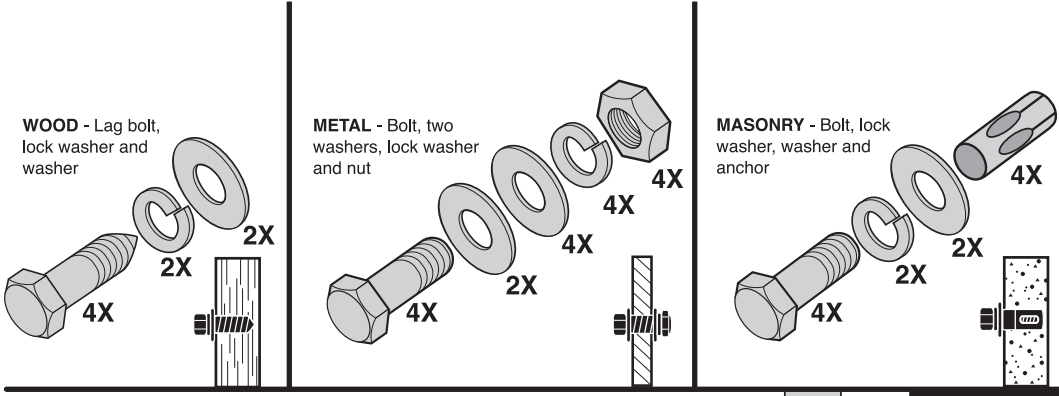
DO NOT MOUNT HOSE REEL OUTDOORS OR ON VEHICLE. This hose reel is not designed to resist constant exposure to weather or continuous vibration. Mount under cover in an area not directly exposed to weather.

Reel can be mounted on the floor, ceiling, or wall, wherever it is convenient. **When choosing a location, remember that you can only mount reel to a load-bearing structural member capable of supporting combined weight of reel, hose, and forces caused by pulling or manuevering hose.** Mounting reel near air compressor may be desirable since you can connect the two with a shorter, less expensive length of hose. Also, air compressor controls will be conveniently nearby.



Typical Compressed Air System

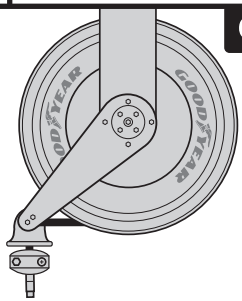




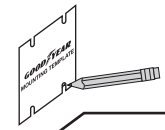
CEILING

CAUTION: CEILING MOUNTING REQUIRES TWO PEOPLE. DO NOT ATTEMPT TO MOUNT HOSE REEL TO CEILING BY YOURSELF. USING A LADDER CAN BE DANGEROUS AND IS NOT RECOMMENDED.

1. Use included mounting template to mark hole locations. Tape securely in position before marking. Remove template when finished.
2. Drill holes for bolts. Keep drill steady and in line with hole to prevent wobbling and enlarging of hole.
3. Pre-install one pair of hardware and tighten leaving just enough space to fit base.
4. Hang hose reel by sliding keyhole slots of base onto pre-installed hardware. DO NOT LET GO OF HOSE REEL!
5. While continuing to support reel, install second pair of hardware. Tighten all hardware until snug. Do not overtighten.

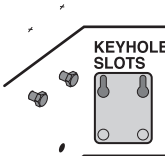


WALL

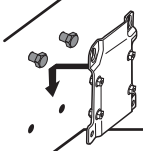


1. Use included mounting template to mark hole locations. Use a level to position template. Tape securely in position before marking. Remove template when finished.

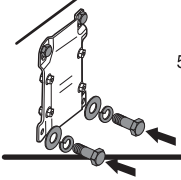
2. Drill holes for bolts. Keep drill steady and in line with hole to prevent wobbling and enlarging of hole.



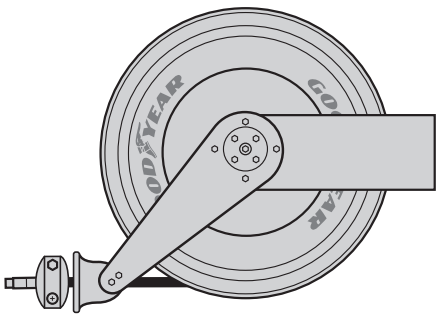
3. Pre-install upper pair of hardware and tighten down leaving just enough space to snugly fit keyhole slots in base.



4. Hang hose reel by sliding keyhole slots in base onto pre-installed hardware. Carefully let go of hose reel, making sure its weight is being supported. Hose reel should support itself in this position long enough to install remaining hardware.



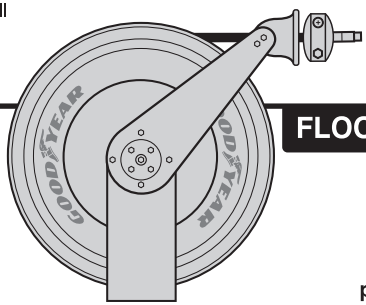
5. Immediately install second set of hardware. Tighten all hardware until snug. Do not overtighten.



ATTENTION - Mounting bolts can loosen with heavy use or over time. Check condition of mounting bolts every 6 months.

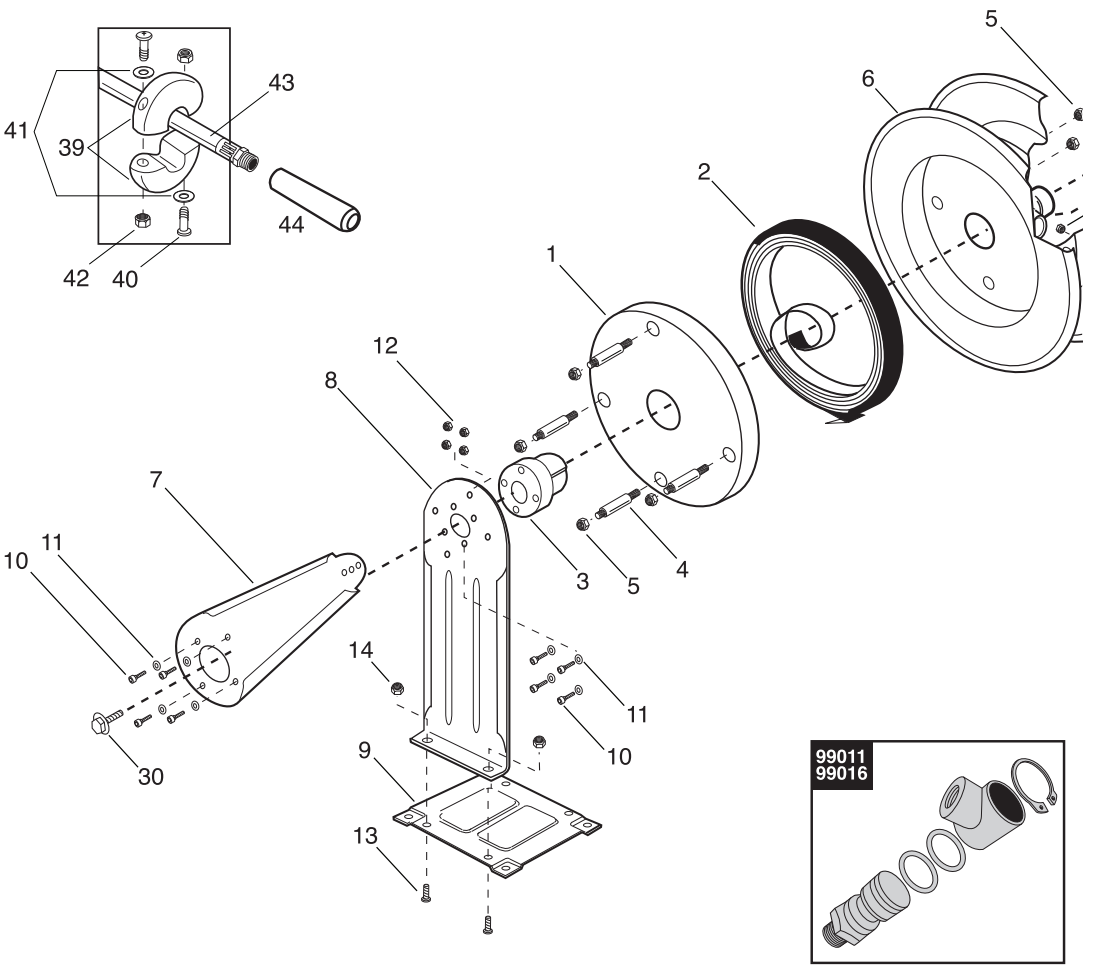
FLOOR

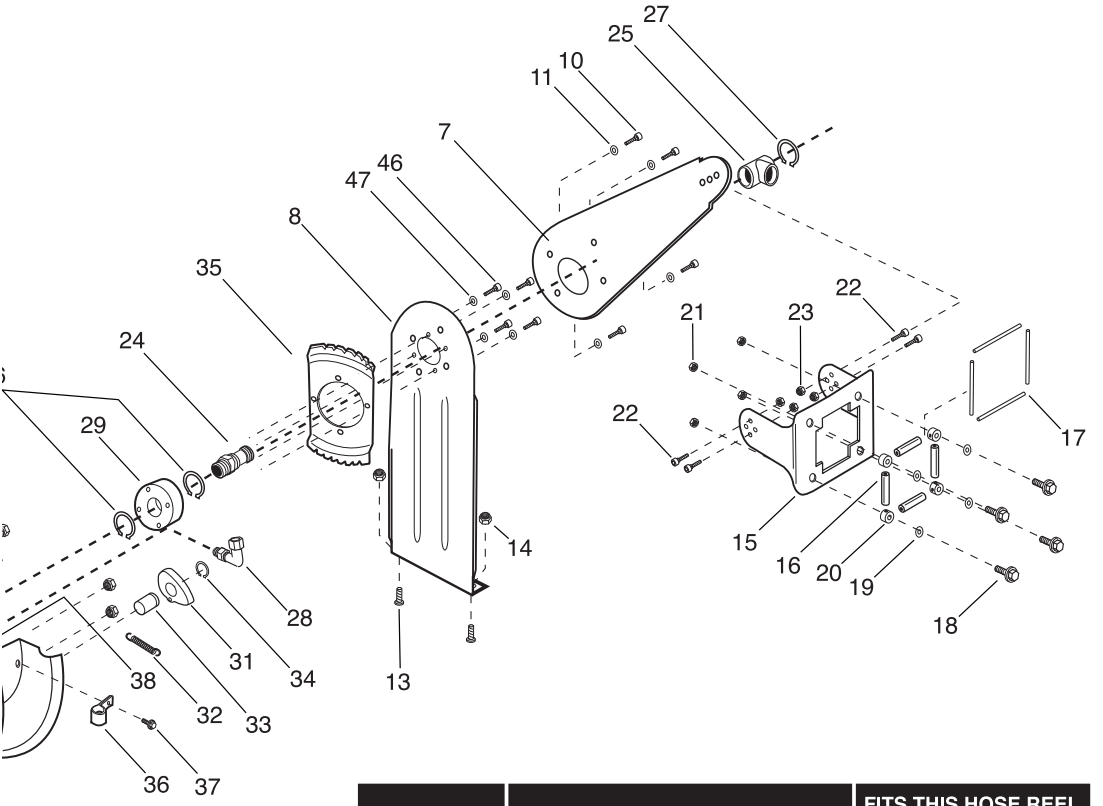
1. Use included mounting template to mark hole locations. Tape securely in position before marking. Remove template when finished.
2. Drill holes for bolts. Keep drill steady and in line with hole to prevent wobbling and enlarging of hole.
3. Set reel in position, aligning base with holes. Install all hardware, tightening until snug. Do not overtighten.



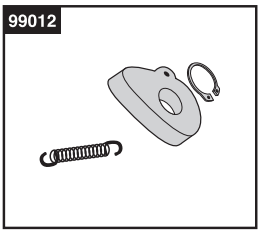
Parts List

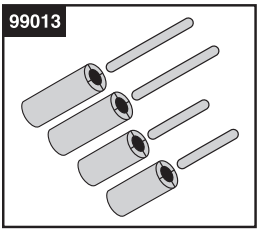
1. Main Spring Cover
2. Main Spring
3. Main Spring Hub
4. Spring Cover Bolt
5. Nut (8)
6. Drum
7. Guide Arms (2)
8. Support Legs (2)
9. Base
10. Bolt (16)
11. Washer (16)
12. Bolt (4)
13. Nut (4)
14. Guide Collar
15. Rollers (4)
16. Roller Pins (4)
17. Bolt (4)
18. Washer (4)
19. Rubber Bushing (4)
20. Nut (4)
21. Bolt (4)
22. Nut (4)
23. Air Inlet Axle
24. Air Inlet Valve
25. Retaining Ring (2)
26. Retaining Ring
27. Air Outlet (To Hose)
28. Main Axle Bearing
29. Bolt
30. Locking Pawl
31. Tension Spring
32. Locking Pawl Axle
33. Retaining Ring
34. Locking Gear
35. Hose Clamp
36. Bolt
37. Nut
38. Hose Stopper
39. Bolt (2)
40. Washer (2)
41. Nut (2)
42. Air Hose
43. Bend Restrictor

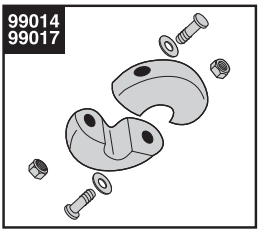


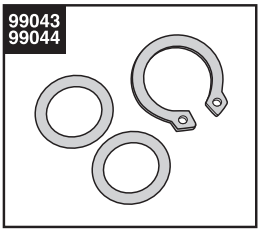


ASSEMBLY	DESCRIPTION	FITS THIS HOSE REEL	
		46731	46741
99011	3/8" Air Inlet Assembly	•	
99012	Locking Pawl Assembly	•	•
99013	Guide Rollers and Pins	•	•
99014	3/8" Hose Stopper Assembly	•	
99015	Main Spring	•	•
99016	1/2" Air Inlet Assembly		•
99017	1/2" Hose Stopper Assembly		•
99043	3/8" O-Ring Kit	•	
99044	1/2" O-Ring Kit		•





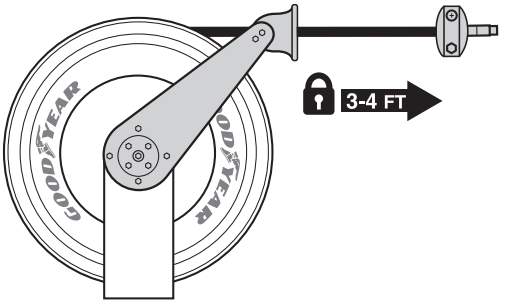




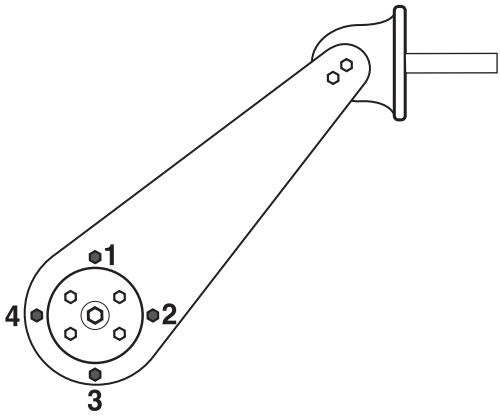
MAKING ADJUSTMENTS

Adjusting the Guide Arm

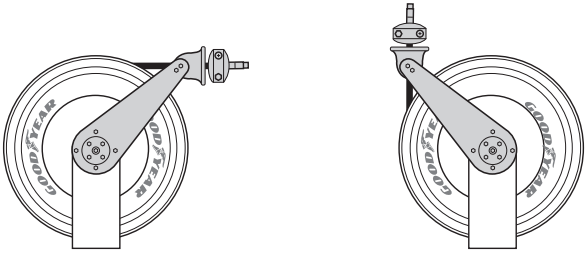
1. Pull out 3-4 feet of hose and allow reel to lock in position.



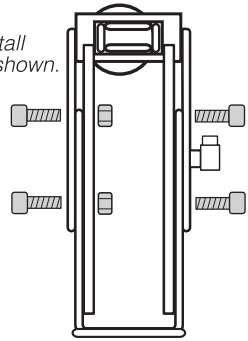
2. Remove the four bolts connecting guide arm to base.



3. Rotate guide arm to one of two positions. Replace four bolts and tighten.

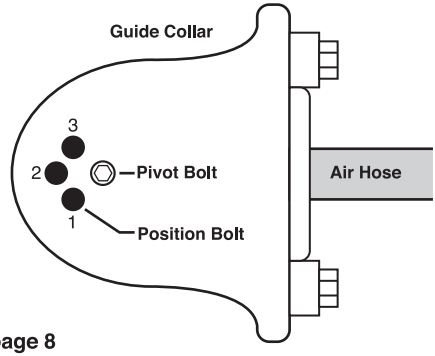


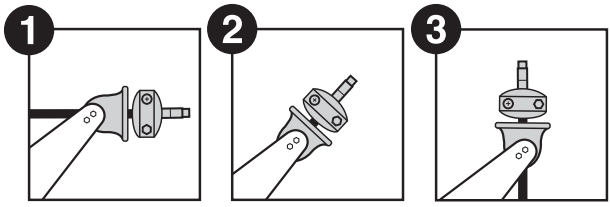
Note: Install bolts as shown.



Adjusting the Guide Collar

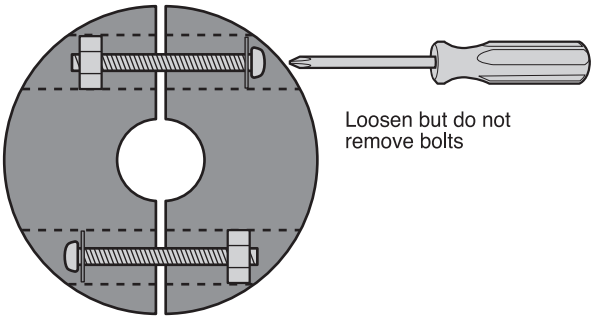
Remove position bolts and nuts. Leave pivot bolts in place. Adjust to one of three desired positions. Replace nuts and bolts and tighten.

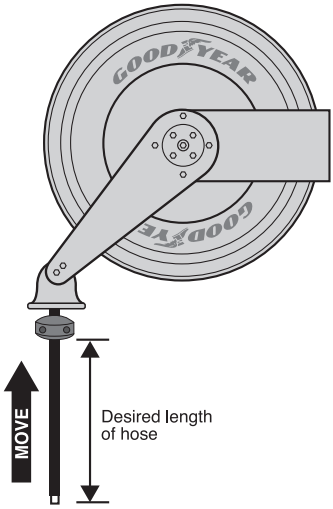




Adjusting Hose Stopper Position

The hose stopper determines the length of hose that remains outside of reel. To adjust stopper position, first pull hose out past the desired position of hose stopper. Lock reel in position. Loosen (but do not remove) both stopper bolts just enough so stopper can slide along hose. Move stopper to desired position. Tighten stopper bolts until hose stopper cannot slide. Do not overtighten bolts.





Adjusting Recoil Tension

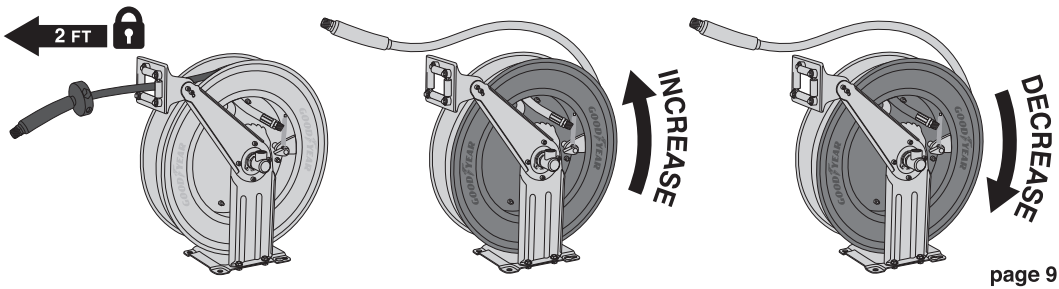
Hose reel is shipped with spring tension properly set. Be aware that spring tension is calibrated to retract entire length of air hose. If you are working with only part of the air hose length, recoil action may seem slower than expected. However, if you feel hose rewinds too quickly or too slowly, you can easily adjust the tension of the main recoil spring by simply turning the reel drum to a new "home" position.

DO NOT SET TOO MUCH TENSION IN SPRING. Damage to spring could result.

1. Disconnect incoming air supply.
2. Pull out about two feet of hose and lock reel in position.
3. Remove hose stopper. Pull hose backward through guide collar.
4. While firmly gripping edge of reel drum, turn reel counterclockwise (as viewed from air inlet side) just enough to release locking pawl. DO NOT LET GO OF REEL DRUM, or it will spin uncontrolled until all spring tension is lost.

   To Increase Tension: Turn reel drum counterclockwise until desired tension has been added. Lock reel in nearest locking position.

   To Decrease Tension: Allow reel drum to slowly turn clockwise until extra tension has been released. Lock reel in nearest locking position.
5. Feed hose through hose guide. Re-attach hose stopper.
6. Connect incoming air supply.



ATTACHING INCOMING AIR

For maximum performance, air inlet valve is made of solid brass. Brass is a soft metal and extra care should be taken to avoid cross threading. For a tight, leak-free connection, follow all instructions carefully.

Option 1

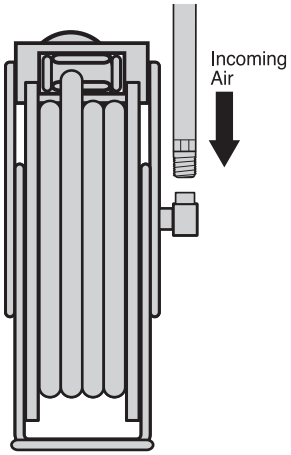
Wrap incoming air hose with thread sealing tape. Thread air hose end into air inlet valve, taking care not to cross thread. Tighten connection with wrench. Do not over-tighten.

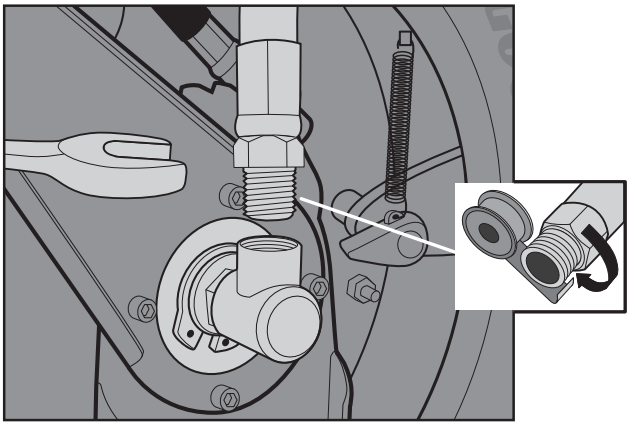
Option 2

Locate included swivel connector. Wrap threaded end with thread sealing tape. Thread into air inlet valve, taking care not to cross thread. Tighten connection with wrench. Do not over-tighten. Next, wrap end of incoming air hose with thread sealing tape. Thread air hose into swivel end of connector, by turning swivel collar. Tighten connection with wrench. Do not over-tighten.

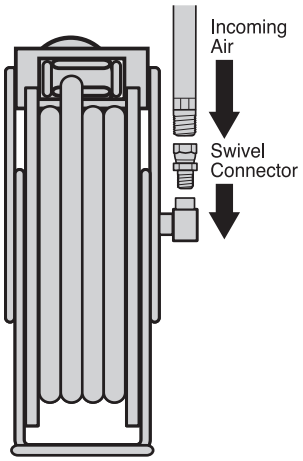
To ensure optimum performance and efficiency, check all connections for leaks. With air system pressurized, brush each connection with soapy water. Inspect closely. Air bubbles indicate leaking air. Tighten any leaking fittings.

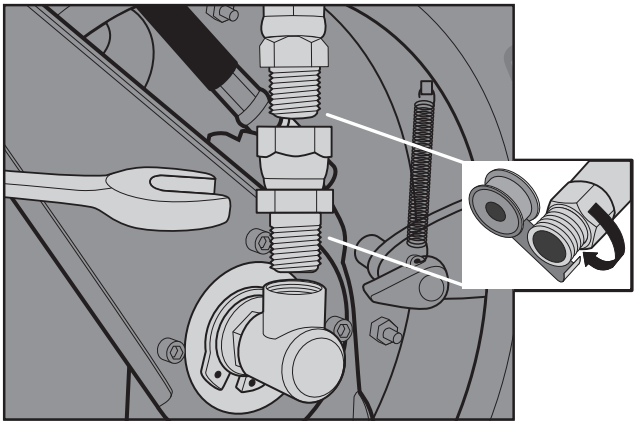
OPTION 1





OPTION 2



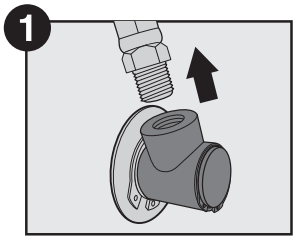


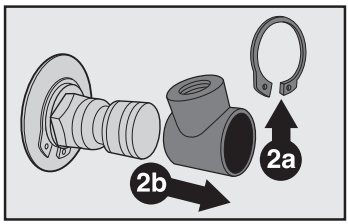
Replacing Air Inlet Valve O-rings

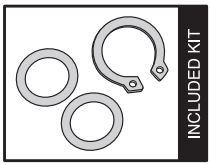
The O-ring seals inside the air inlet valve assembly wear over time. If leaking around air inlet valve is observed, O-rings should be replaced. An O-ring replacement kit is shipped with this hose reel. Store in a safe place for future use.

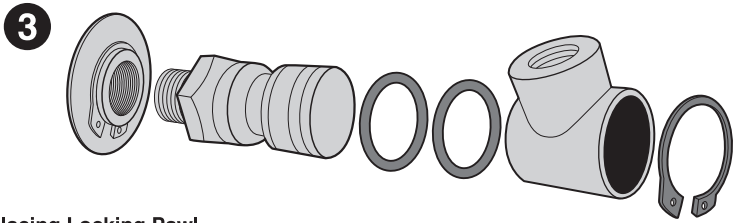
1. Disconnect incoming air supply.
2. Remove retaining ring and slide air inlet valve swivel connector off from air inlet axle.
3. Remove worn O-rings from air inlet axle and replace with new parts. Reverse above procedure to re-assemble.

For easy installation and best seal, thinly coat o-rings with petroleum jelly.







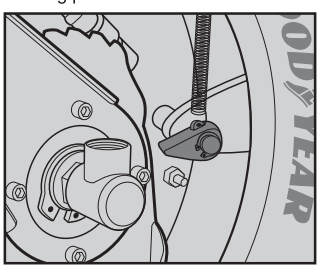


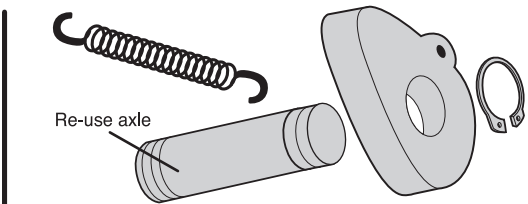
Replacing Locking Pawl

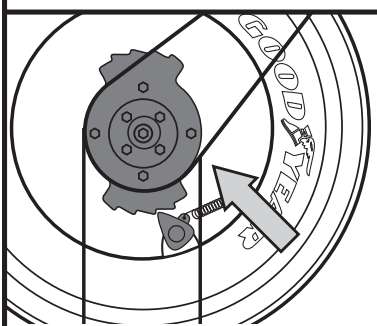
Sometimes with heavy use, the locking pawl can begin to wear causing poor engagement with locking gear teeth. This can result in slipping or difficulty locking. It is easy to replace and can be done while hose reel is mounted.

1. Reel should be in fully retracted position ("home"), with hose stopper resting against guide roller collar. Be sure locking pawl is not engaged with locking gear teeth, and that there is enough clearance between pawl and teeth to allow free and easy removal and installation of locking pawl.
2. Unhook return spring from anchor point. Remove retaining ring with snap ring pliers. Remove old locking pawl and spring from drum.
3. Attach new spring to locking pawl. Slide new locking pawl onto axle and secure with retaining ring. Hook return spring from pawl to anchor point.
4. Verify function of locking pawl by pulling hose out and locking reel in position.

Locking pawl





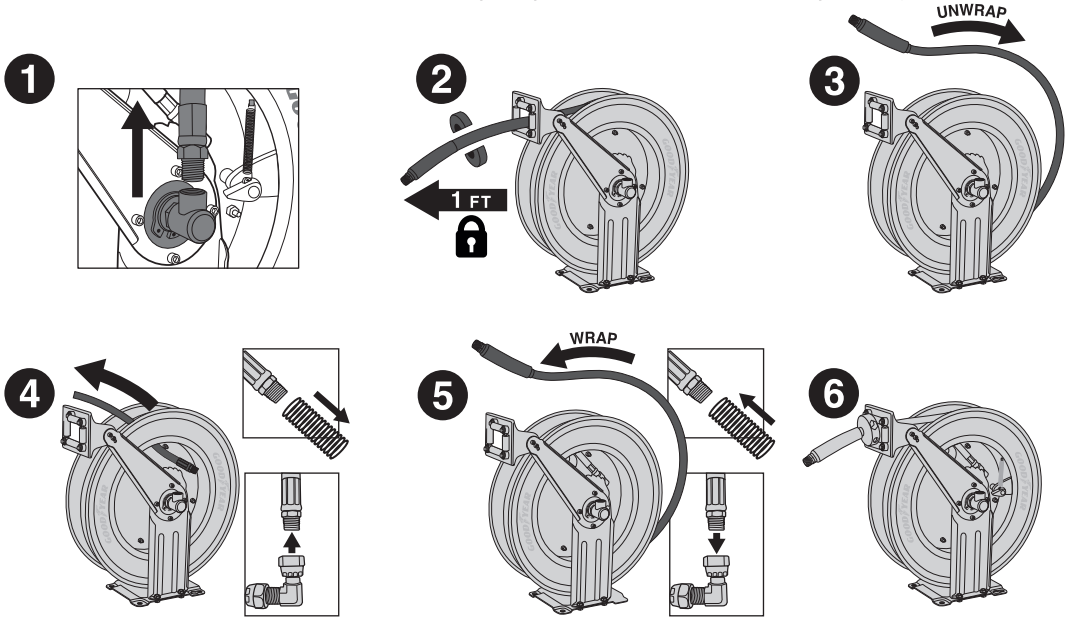


Install locking pawl pointed toward center of reel

Replacing Hose

If hose becomes damaged, it may be necessary to replace it. In most cases, air hose can be replaced while reel is still mounted. **Replace air hose with same diameter and length of original hose. Installing a longer or shorter hose will require Adjusting Recoil Tension (page 9).**

1. Disconnect incoming air supply.
2. Pull out about 1 foot of hose and lock reel in position. DO NOT UNLOCK HOSE REEL during this installation process. If reel becomes unlocked, it will spin at uncontrolled speed, possibly resulting in damage to internal spring. Remove hose stopper and rubber bend restrictor.
3. Pull hose backward through guide roller collar. Unwrap (counterclockwise, when viewed from air inlet side) until reel is empty.
4. Remove hose clamp. Save for re-installation. Disconnect hose end from air outlet. Pull hose end back through slot in reel drum. Remove spring guard from old hose.
5. Place spring guard on new hose. Feed hose end through slot in reel drum. Wrap end of new hose with thread sealing tape. Connect to air inlet assembly. Re-install hose clamp. Make sure spring guard is aligned correctly in slot to protect hose from sharp metal edges. Wrap hose around reel (clockwise) until 1 - 2 feet of hose remains.
6. Feed hose end through guide roller collar. Replace bend restrictor and re-attach hose stopper in desired position. Unlock hose reel and rewind until hose stopper rests against guide roller collar. Connect incoming air supply.



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