

Maintenance Tips FOR TORO HYDRAULIC HOSES

Like any maintenance program, routine maintenance plays a big part in reducing hose failures. Here are some tips to help keep your hydraulic system running in great condition:

- **Inspect hoses daily.** Look for signs of leakage, a wet machine or hose, oil stains, dust collecting on oily surfaces, or low levels in the reservoir.
- **Examine the reservoir fluid.** If the oil fluid has a milky appearance, it's saturated with air or water. This could lead to major hydraulic system issues if left unattended.
- **Replace hoses per maintenance schedule.** On most machines, Toro recommends replacing moving hoses every two years. To make it easy, Toro uses a single part number for ordering a Hose Replacement Kit that includes all the hoses for a particular model.
- **Replace O-rings on schedule.** O-rings need to be replaced every time a hose is changed to maintain a proper seal and prevent leaks.

OUR PROMISE TO YOU

To best protect your investment and maintain optimal performance of your turf equipment, count on Toro genuine parts. When it comes to reliability, Toro delivers replacement parts designed to the exact engineering specifications of our equipment. For peace of mind, insist on Toro genuine parts.

TORO PROVIDES:

- **Industry Leading Fill Rates** – Your local distributor, supported by Toro's parts network, offers the parts you need when you need them.
- **Part Availability** – Most local distributors deliver parts within 24 hours. Toro backs this promise with 48-hour delivery support.
- **Competitive Pricing** – Toro is comparable to will-fit providers.
- **Quality** – Genuine Toro service parts are the same parts used on the original equipment, ensuring maximum performance with less downtime.
- **Unparalleled Customer Service** – Count on dedicated support for your Toro parts needs.
- **Peace of Mind** – With genuine Toro parts, you get the right part with the correct specifications. There's no need to wonder if the part will work.

INSIST ON THE BEST. INSIST ON GENUINE TORO HYDRAULIC HOSES.

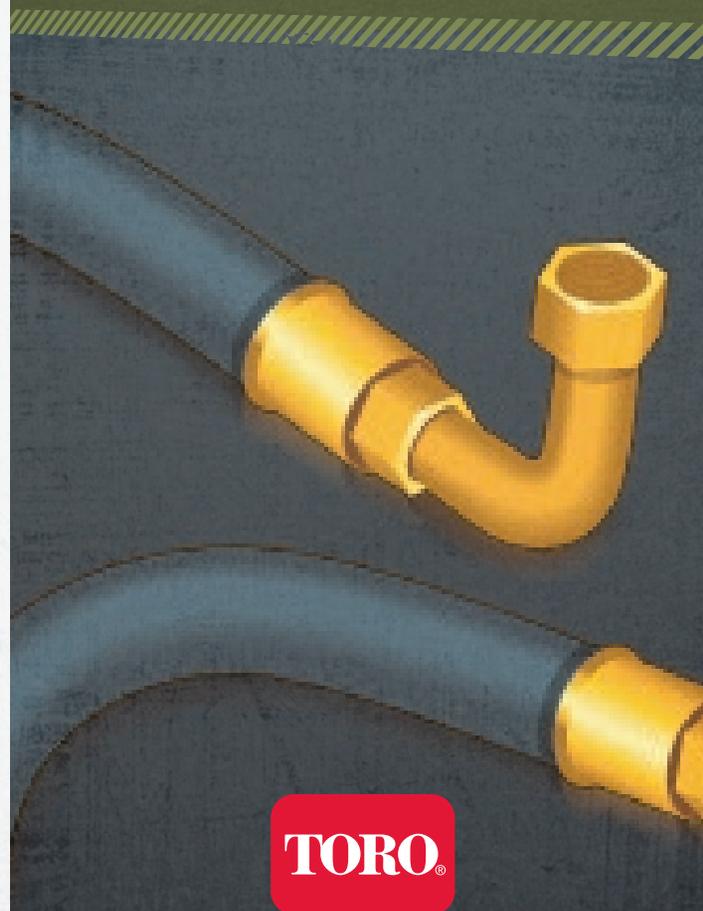
For more information, contact your local Toro distributor at 800-803-8676.

TLC™
Toro Loyalty Counts
PARTS REWARD PROGRAM

Earn points for your qualifying parts purchases good toward Toro merchandise or parts credit. Sign up today at www.toro.com/tlc.

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Printed in the U.S.A. Form No. 13-131-T

Hydraulic Hoses



TORO®

GENUINE TORO® PARTS

DON'T TAKE CHANCES WITH YOUR HYDRAULIC SYSTEM'S PERFORMANCE



Keep Your Fluid Working Right

Do you want to risk damaging the machine or leaking oil on the turf by saving some time? That's a lot of responsibility to accept.

When it comes to hydraulic system performance, make sure you have the right hydraulic hose. Don't take chances with self-made or will-fit versions — there's nothing more important than using genuine Toro parts. Each Toro hydraulic hose is designed by Toro engineers to fit a specific machine and application.

Toro hydraulic hoses provide:

- **Durability.** Unlike some replacement hoses, Toro hoses stand up to chemicals, moisture, heat, abrasion and ultraviolet light.
- **Specific applications.** Form always follows function precisely. Will-fitters will spec generic replacement hoses that do not meet specific Toro standards. And do-it-yourselfers may not know the specifications to make a hose that meets all the criteria for a specific application.

WHY TORO HYDRAULIC HOSES VS. DIY

Many groundskeepers see hoses as a low-tech item and simply make their own replacement hose when they have a failure. Nothing is more convenient than to measure off a piece of hose, cut it, crimp on the couplings and replace the old hose. However, as with any replacement part, there are several reasons why Toro engineers specify different hoses on different machines for different applications. Engineers have to consider:

- Length
- Pressure
- Temperature
- Crimping
- Couplings
- Diameter
- Surge Loads
- Bend Radius
- Material Strength
- Hose End
- Abrasion
- Flexibility
- Sound

Although some maintenance shops do a good job of duplicating specified hoses, most "homemade" hoses cost more time and money in the long run. For example, a 5/8" hose may be replaced with a 1/2" hose, figuring the diameters are close enough. Even that small difference can cause restricted oil flow or may not be able to handle the back pressure, which can result in a hose failure, seal failures on other components, or increased operating temperature.

Another big mistake you can make is using the wrong couplings when making your own hose assemblies. For example, an original 12" hose assembly equipped with a 1" coupling on either end will have 10" of flex with a given bend radius. Perhaps you only have 2" couplings in stock, so you use them on the ends of the hose. The problem: Now the hose assembly that was specified with 10" of flex only has 8" of flex with a different bend radius, which could result in a blown hose, noise or temperature issues.

LEAK-FREE SAE ADJUSTABLE PORT STUD



The port stud allows easier installation in the field and eliminates the potential for backup washer damage that can lead to leaks. Ours is designed with superior materials and advanced technology for optimum performance and reliability, offering:

- Positive stop for the locknut
- Easier, mistake-proof assembly
- Reduction of washer damage and leaks

INNOVATIVE O-RING TRAP-SEAL



Toro hydraulic adapters include a trap-seal for consistent positive retention in the groove. It also reduces the possibility of full or partial pop-out, which can occur with standard round O-rings. Key benefits:

- Improved seal retention
- Reduced risk of seal damage and leakage
- Adaptability for standard half-dovetail groove



Trap-Seal in Half-Dovetail Groove — Very secure retention; trap-seal is tucked under the groove lip.

Standard O-Ring in Half-Dovetail Groove — Limited seal retention; relies upon o-ring pinch.