



Steerable Sulky
Proline Mid Size Mowers
Model No. 30123-10001 & Up

Operator's Manual

Contents

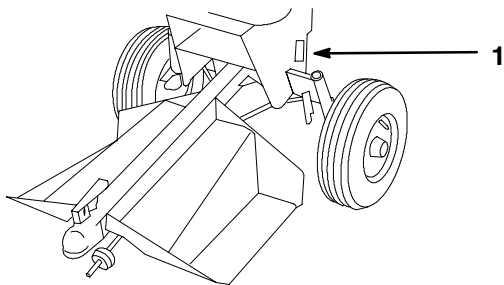
	Page
Introduction	2
Safety	2
Safety and Instruction Decals	3
Set Up Instructions	3
Install Wheels	3
Install Seat Assembly	4
Mount Hitch Bracket	4
Mounting and Removing Sulky	4
Maintenance	5
Recommended Maintenance Schedule	5
Lubrication	5
Adjusting Wheel Toe-In	6
Adjusting Steering Clearance	6
Adjusting Hitch Guide Channels	6

Introduction

Thank you for purchasing a Toro product.

All of us at Toro want you to be completely satisfied with your new product, so feel free to contact your local Authorized Service Dealer for help with service, genuine Toro parts, or other information you may require.

Whenever you contact your Authorized Service Dealer or the factory, always know the model and serial numbers of your product. These numbers will help the Service Dealer or Service Representative provide exact information about your specific product. You will find the model and serial number decal located in a unique place on the product as shown below.



1. Model and Serial Number Decal

For your convenience, write the product model and serial numbers in the space below.

Model No: _____

Serial No. _____

Read this manual carefully to learn how to operate and maintain your product correctly. Reading this manual will help you and others avoid personal injury and damage to the product. Although Toro designs, produces and markets safe, state-of-the-art products, you are responsible for using the product properly and safely. You are also responsible for training persons who you allow to use the product about safe operation.

The Toro warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. DANGER, WARNING and CAUTION are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

DANGER signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

WARNING signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Two other words are also used to highlight information. “Important” calls attention to special mechanical information and “Note” emphasizes general information worthy of special attention.

The left and right side of the machine is determined by standing behind the handle in the normal operator’s position.

Safety

General Operation

- Do not modify sulky or use it on non-approved machines.
- Make sure that sulky is properly attached to machine and is in good working order prior to use.
- Only one rider per sulky. Never carry passengers.
- Do not allow use by untrained operators.
- Use appropriate personal safety and protective equipment such as boots, gloves, safety glasses and hearing protection.
- Practice operation of machine without attachment until familiar with the controls.
- Practice operation of the machine with sulky attached on large open, level terrain with no obstacles present before use. The sulky will affect the machine operation, especially on slopes, when turning, and when stopping.
- Do not ride sulky over curbs, rocks, roots or other obstructions.
- Do not use sulky when mowing on hilly terrain or if sharp turns are required.
- Avoid turning on slopes. If you must turn, turn slowly and gradually downhill, if possible.
- Slow down before making turns and use extra caution on rough terrain and on slopes.
- Look behind and down before backing up to be sure of a clear path. Use extra care when operating in reverse.
- Use extra care when loading and unloading the machine, with sulky attached, onto a trailer or truck.
- Engage traction control slowly to prevent front of mower from rising off ground
- To ensure proper handling and safety characteristics, a Front Weight Kit, must be mounted on the front of cutting units less than 62" in width. Order kit from your Authorized Service dealer.
- Use caution when operating on rough or undulating terrain or when going through ditches, as upper handle pivots downward as front of mower rises.
- When riding on sulky do not rest feet on traction unit. Keep feet on footrest and knees clear of handle.

DO NOT

- Do not mow across hillsides or slopes exceeding 5°.
- Do not mow down hillsides or slopes exceeding 15°.
- Do not mow up hillsides or slopes exceeding 10°.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly turn over if a wheel goes over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.

Safety and Instruction Decals



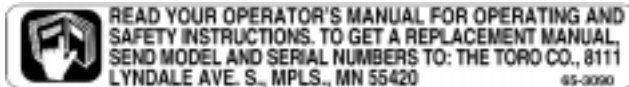
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



**ON HITCH BRACKET
(Part No. 82-7400)**



**ON HITCH BRACKET
(Part No. 82-7390)**



**ON MAIN FRAME BELOW
SEAT BASE
(Part No. 65-3090)**



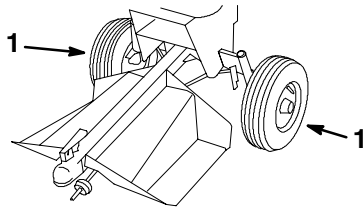
**ON CENTER CHANNEL
(Part No. 93-0248)**

Set Up Instructions

Install Wheels

1. Slide a wheel on to each axle and secure with a flat washer and cotter pin (Fig. 1). Install hub caps.

Note: Tires are over inflated at the factory for shipping. Check tire pressure and make sure they are inflated to 15-20 psi.



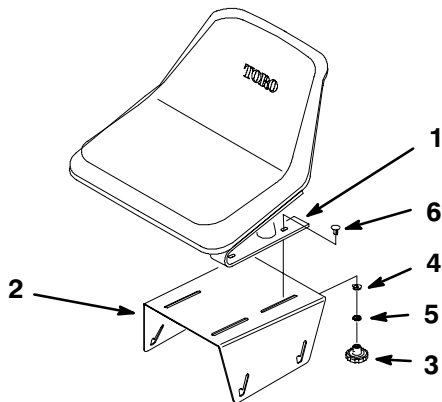
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Figure 1

1. Wheel

Install Seat Assembly

1. Loosely secure seat and seat spring to seat base with (4) carriage bolts, flat washers, external tooth lockwashers and knobs (Fig. 2). Washers must be positioned between seat base and knobs with the flat-washer on top of the external tooth lockwasher.



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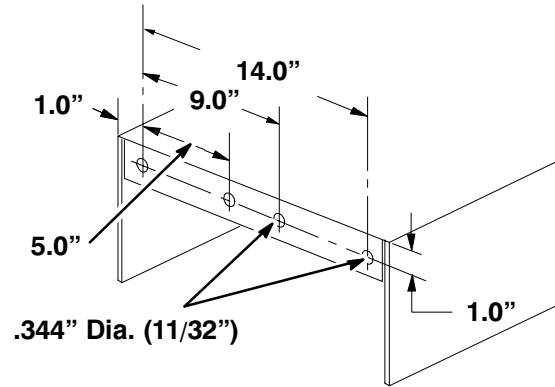
Figure 2

- | | |
|----------------|------------------------------|
| 1. Seat Spring | 5. External Tooth Lockwasher |
| 2. Seat Base | 6. Carriage Bolt |
| 3. Knob | |
| 4. Flat Washer | |

Mount Hitch Bracket

Note: On some traction units, the mounting holes in rear of frame required for hitch bracket installation are already drilled, proceed to step 2. If there are no holes drilled then proceed to step 1.

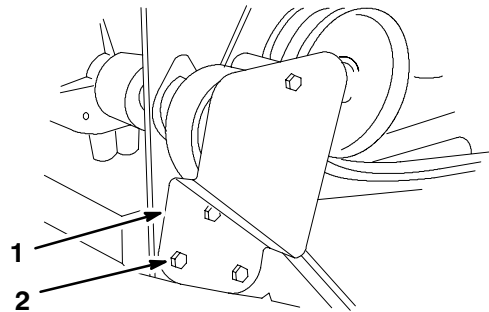
1. Using dimensions shown in figure 3, locate, mark and drill (4) .344 in. dia. holes in rear of mower frame.



m-4961

Figure 3

2. Remove the rear capscrew securing support bracket to each side of frame (Fig. 4) Discard capscrews and nuts.



m-4906

Figure 4

1. Support bracket
2. Bottom Cap Screw

3. Mount hitch bracket to rear of mower frame with (4) 5/16-18 x 7/8" capscrews and locknuts. Mount each side of hitch bracket and support brackets to frame with (2) 3/8-16 x 1 - 1/4" capscrews and locknuts. Position bracket as shown in figure 5.

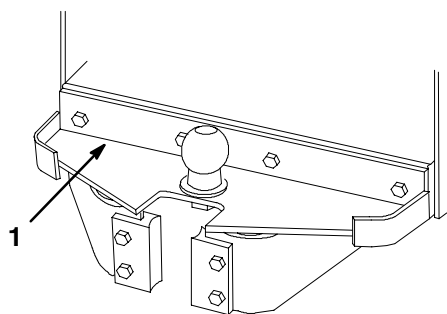


Figure 5

m-4904

1. Hitch Bracket

Mounting and Removing Sulky

1. Move sulky into mounting position behind traction unit.

Note: When attaching or detaching sulky from hitch bracket, move rear of sulky slightly to one side to attain more clearance for ball and steering rod.

2. Raise lever on sulky hitch coupler to unlocked position.

3. Position steering rod ball between channels on hitch bracket while lowering hitch coupler onto hitch ball.
4. Lower hitch coupler lever, locking coupler to ball. Insert cotter pin into holes thru coupler. Make sure steering rod ball is positioned tightly between channels, but not binding.
5. Adjust seat to desired operating position and tighten mounting knobs and locknuts.

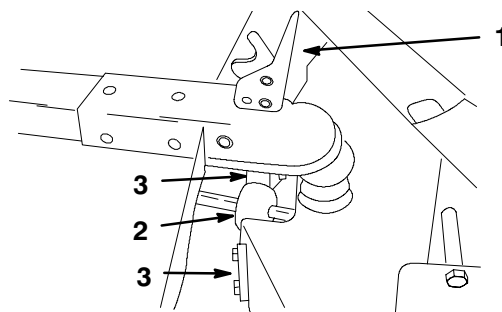


Figure 6

m-4959

1. Sulky Hitch Lever
2. Steering Rod Ball
3. Channels

Maintenance

Recommended Maintenance Schedule

Service Item	Service Operation	Each Use	25 Hours
Trailer Hitch Adjustment	Make sure coupler is tight on ball and still able to open and close hitch lever.	X	
Check Seat Bolts	Hand tighten knobs	X	
Torque Channel Bolts	Torque to 35 ft-lb.		X
Adjust Channel Width	Adjust channels so ball will not drop thru but can be pulled through by hand.		X
Grease Steering Spindles	Grease with lithium base grease.		X
Check tire pressure	Inflate to 15-20 psi.		X

Lubrication

There are (5) grease fittings on sulky that must be lubricated after every 25 hours of operation.
After every 25 hours of operation, check toe-in on sulky wheels.

The lubrication points are spindles (2) and wheels (2) (Fig. 7) and steering pivot (Fig. 8). Lubricate each fitting with 2-3 pumps of No. 2 Lithium Base Grease.

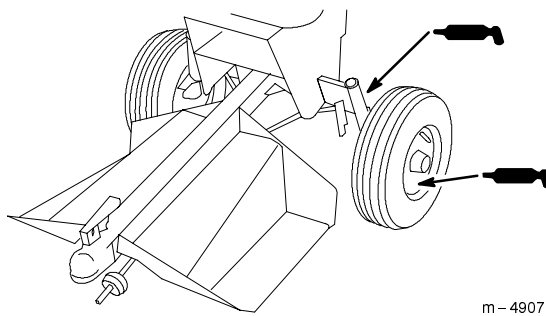


Figure 7

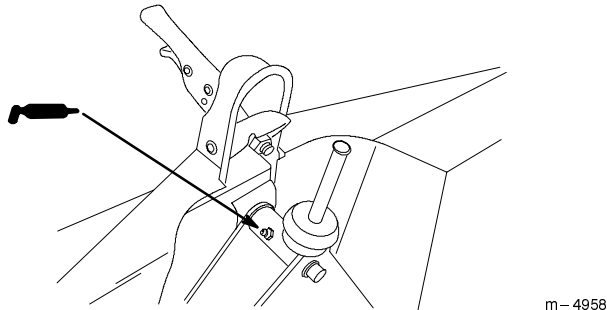


Figure 8

Adjusting Wheel Toe-In

After every 25 hours of operation, check toe-in on sulky wheels.

1. Position traction unit so sulky is trailing in a straight line.
2. Measure the center-to-center distance (at approximately axle height) at the front and rear of sulky tires (Fig. 9). Front measurement should be 0-1/4" less than rear measurement. If it does not measure correctly proceed to step 3.

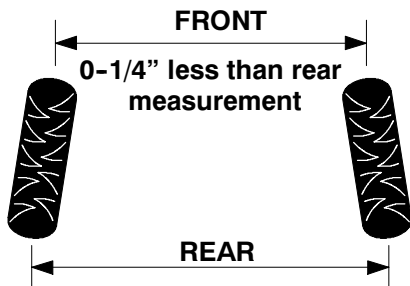


Figure 9

3. Loosen jam nuts on both rear tie rod ball joints.
4. Remove capscrews securing ball joints to wheel spindle levers.

5. Rotate ball joints in or out, as required, to attain desired toe-in. Adjust left and right tie-rods equally.
6. Reinstall ball joints to wheel spindle levers, recheck measurement and readjust as required. Tighten jam nuts when completed.

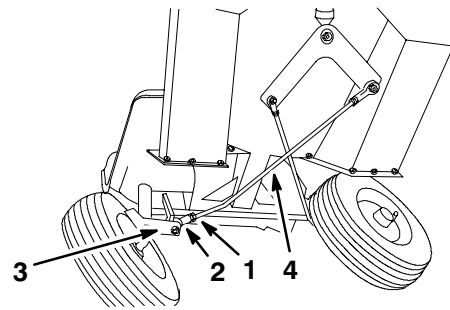


Figure 10

- | | |
|------------------------|------------------------|
| 1. Jam Nuts | 3. Wheel Spindle Lever |
| 2. Tie Rod Ball Joints | 4. Steering Rod |

Adjusting Steering Clearance

1. Turn sulky completely to the left and push in rear of left wheel to be sure forward stop is contacted.

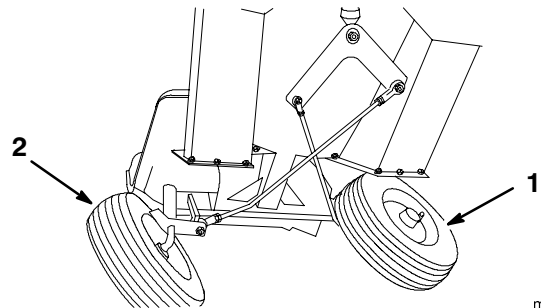


Figure 11

1. Left Wheel
2. Right Wheel

2. There should be approximately 1/2" clearance between front of tire and steering rod (Fig. 10). If clearance is insufficient, lengthen steering rods and recheck toe-in per instructions in Adjusting Toe-in.

Adjusting Hitch Guide Channels

Hitch guide channels are adjusted at the factory, but if an adjustment is required do to wear or replacement of components use the following procedure.

1. Leftside channel is fixed and cannot be adjusted, but maintain torque of mounting bolts to 35 ft-lb.

2. Loosen capscrews securing right side channel to hitch bracket. Adjust channel so steering ball will not drop thru but can be pulled through by hand. Tighten capscrews to 35 ft-lb.

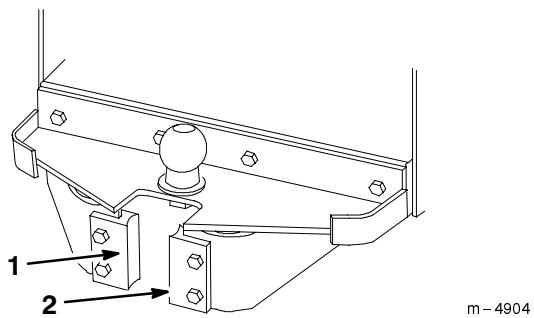


Figure 12

1. Left Channel

2. Right Channel