

No. 340594

Machine: 6100E, 7100 and EZ Rider

Published: 06-2004

Rev. 01

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation instructions for kit number 391462

DESCRIPTION:

This kit contains the parts needed to replace the front drive wheel on the model 6100E sweepers, 7100 scrubbers and EZ Rider™ scrubbers.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Floor jack or chain hoist

(Estimated time to complete: 2-3 hours)

PREPARATION:

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

1. Disconnect battery cables from machine.

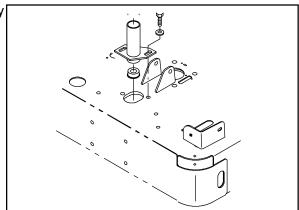


WARNING: Always disconnect battery cables before working on electrical components.

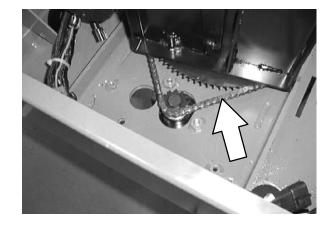
INSTALLATION:

(Refer to FIG. 1, 2 and 3)

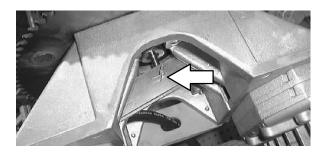
1. Loosen both hex screws securing bearing assembly housing 83112 to the machine frame.



- 2. Slide the bearing assembly toward the rear of the machine to loosen the steering chain tension.
- 3. Remove the steering chain from the small sprocket.



- 4. Disconnect the propel harness from the main harness. Remove the wire clamp and extension spring from the propel harness.
- 5. Disconnect upper brake link 81685 from the brake lift arm. Set clevis pin and cotter pin aside.



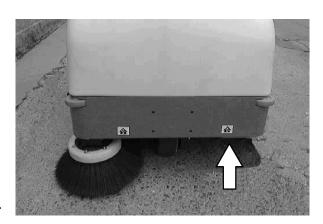
 Block the rear tires on the machine. Remove and set aside the four button screws securing the front wheel assembly to the machine. Place a floor jack under one of the front machine jacking points.

Slowly raise the machine, until the front wheel assembly can clear the machine.

Remove the front wheel assembly with the steering chain.

FOR SAFETY: Jack up machine at designated locations only. Block machine up with jack stands.

FOR SAFETY: Use hoist or jack that will support the weight of the machine.



7. Install new brake link arms (11) and bracket (12) through adaptor plate 390848.

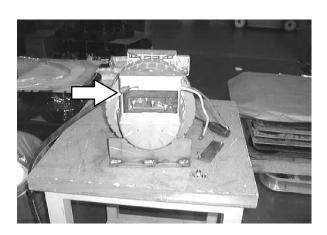




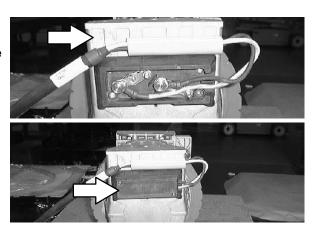
8. Place **wheel assembly (1)** on a clean, level surface, and remove the electrical box cover.

There are three wire harnesses included with this kit. Determine which harness is best for use with the machine, by matching up the end opposite the two ring connectors, with the main harness connector.

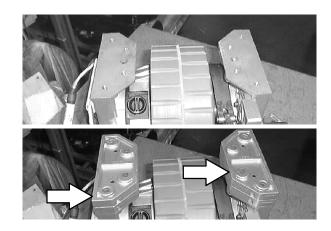
Clean the surface above the electrical box with alchohol. Mount new **motor harness (17)** to the side of **wheel assembly (1)** with **4 inch vinyl duct 391300**.



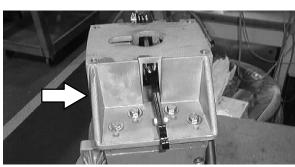
Connect motor harness (17) to the drive motor.
 Check the brass studs, to make sure they are tight. Connect the wires as shown, and replace the cover.

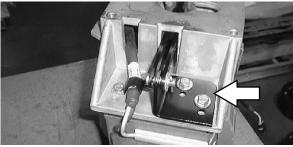


10. Check that the wheel spacers are installed on the top of wheel assembly (1).



11. Mount adaptor plate 390848 with caster bearing and sprocket to wheel assembly (1) with 8 hex screws 222504, clamp 67767 and 7 washers 01685.

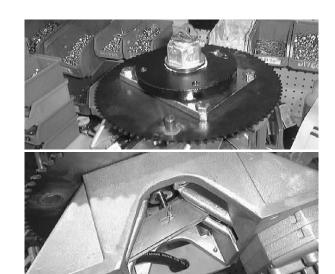




12. Route wire harness through **adaptor plate 390848** and secure with **clamp 67767** from step 11.



13.Install caster bearing and brake link 81685. Connect brake link 81685 to brake lift arms with clevis pin 36191 and cotter pin 08170.



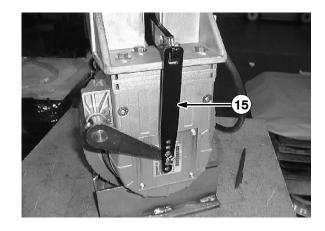
14. Mount strain relief flap (18) to adaptor plate 390848 with hex screws (19), washers (20) and fender washers (21).



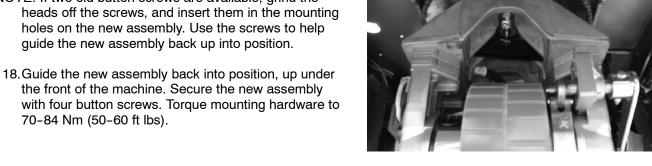
15.Install brake arm (2) with hex screw (3) and lock nut (4).



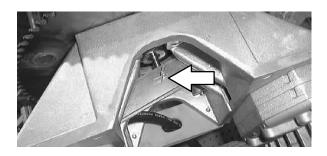
16. Install brake link (15) to brake brake arm (2) with cotter pin 39005. Mount the brake arm (2) in the third hole of the brake link (15) as shown.



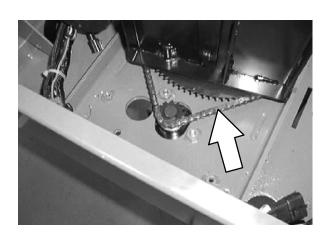
- 17. Guide the new assembly back into position, up under the front of the machine.
- NOTE: If two old button screws are available, grind the holes on the new assembly. Use the screws to help guide the new assembly back up into position.
 - the front of the machine. Secure the new assembly 70-84 Nm (50-60 ft lbs).



19. Connect the brake linkage 81685 to the new brake arm with set aside clevis pin and cotter pin.



- 20. Replace the steering chain over the small sprocket, remove slack and secure the steering assembly back in place with set aside hardware.
- 21. Connect front wheel assembly harness to main wiring harness. Secure any slack in the harness with cable clamp 26395-1 and extension spring 22298.
- 22. Lower the machine off the jack, and recheck the tension on all mounting hardware.
- 23. Reconnect battery cables to the machine. Start the machine and check front drive wheel assembly for proper operation.



BILL OF MATERIALS FOR 250 MM GEARBOX [6100E, EZ Rider] RPLMT KIT 391462

Ref.	TENNANT Part No.	Description	Qty.
1	374346	Gearbox, wheel, 250MM, 36 V, Band brk	1
2	1002522	Arm wldt, brake	1
3	33930	Screw, hex, M6 X 1.0 X 40, Ss	1
4	08712	Nut, hex, Lock, M6 X 1.0, NL, Ss	1
5	08170	Pin, cotter, 0.062 X 0.50	1
6	32483	Washer, flat, 0.25 SAE	1
7	1002536	Bracket, brake, pivot	1
8	86240	Pin, clevis, 0.38D X 1.13L	1
9	08182	Pin, cotter, 0.125 X 1.0	1
10	32492	Washer, flat, 0.38 Std	1
11	1002534	Arm, link, brake, RH	1
12	1002535	Arm, link, brake, LH	1
13	08716	Screw, hex, M6 X 1.0 X 20, Ss	1
14	08712	Nut, hex, lock, M6 X 1.0, NL, Ss	1
15	1002537	Link, brake	1
16	390771	Wire, assy, 10/2, 79.0L Fem Pin/Ring	1
17	374164	Wire assy, 12/2, 46.0L Blade Male/Ring	1
18	1001959	Flap, strain relief	1
19	222159	Screw, hex, M6 X 1.0 X 25, FMG	2
20	32490	Washer, flat, 0.25 Std	2
21	41178	Washer, flat, 0.25 Fender	2

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