



INSTRUCTION BULLETIN

No. 340534
Machine: 6100, 6100IC
Published: 8-02
Rev. 01

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in your machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save you 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 374179 and 83433**

DESCRIPTION:

This kit contains the parts needed to install non-marking tires on the rear, or front and rear of the model 6100 and 6100IC sweepers.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Torque bar

(Estimated time to complete: 4 hours)

PREPARATION:

(Refer to FIG. 1, 2 and 3)

1. Drive machine to a level work surface.

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

2. Disconnect battery cables from machine.



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

REAR TIRE INSTALLATION:

(Refer to FIG. 1)

1. Remove the debris hopper from the rear of the machine.
2. Jack up the machine at the rear jack point. Place a jack stand under the machine frame.
3. Look at the rear, inside of the machine frame, and locate the large nyloc nut and washer holding the rear wheel axle to the machine. Remove the nyloc nut and washer.
(Refer to FIG. 1)
4. Support the rear wheel and remove the axle shaft.
5. Remove the rear tire assembly from the machine.
6. Remove the three hex screws and nuts holding the wheel hub to the tire assembly.
7. Remove the wheel hub assembly from the old tire assembly.

8. Position the rear hub assembly onto the new tire assembly (1). Place the three hex screws (2) through the hub and then through the wheel. Install the lock nuts (3). Center the hub on the wheel. Tighten the mounting hardware to 18–24 Nm (15–20 ft lb). (Refer to FIG. 1)
9. Install the tire and hub assembly into the machine with the hub positioned on the inside of the machine frame. (Refer to FIG. 1)
10. Hold the wheel in position and install the axle shaft from the outside of the machine frame. **Note the D shape of the frame mount hole and the D on the axle shaft.** Line the two up, and push the axle all the way into the mount hole. (Refer to FIG. 1)
11. Locate the end of the axle on the inside of the machine frame. Install the washer and nyloc nut on the end of the axle. Tighten to 37–48 Nm (26–34 ft lb). (Refer to FIG. 1)
12. Spin the tire assembly to make sure it turns freely.
13. Follow the same instructions to change the rear tire on the opposite side of the machine.
14. Remove the jack stands, and lower the machine to the floor.
15. Check the machine for proper operation.

FRONT TIRE INSTALLATION:

(Refer to FIG. 2 and 3)

1. Jack up the front of the machine at the front jack point. Install the jack stands under the machine frame.
2. Remove the two nuts holding the chain guard to the wheel support. Remove the chain guard. (Refer to FIG. 2 and 3)
3. Loosen the three nuts holding the hydraulic motor (Gas or LPG machines) or drive motor gearbox (Electric machines) to the wheel support. Let the hydraulic motor or drive motor gearbox drop down so the drive chain has some slack. (Refer to FIG. 2 and 3)
4. Turn the front tire until the drive chain master link is visible at the bottom of the drive sprocket. Remove the drive chain. **Retain the four small O-rings from behind the master link clip.**

NOTE: Try to keep the chain on the upper sprocket when removing the wheel.

5. Remove the large nut and washer from the wheel axle.
6. Support the front drive wheel. Remove the axle from the front wheel.
7. Let the front wheel drop down and out of the brake calliper. Remove the front drive wheel from the machine.
8. Remove the four screws holding the brake disc to the front hub assembly. **Retain the four steel sleeves. Pull the brake disc off the hub.**
9. Remove the three wheel nuts holding the tire to the front hub.
10. Remove the tire assembly from the hub.
11. Position the new front tire assembly (4) onto the front hub assembly. Reinstall the three wheel nuts (5) and tighten to 64–83 Nm (48–60 ft lb). (Refer to FIG. 2 and 3)
12. Reinstall the brake disc onto the front hub assembly.

NOTE: Place a small amount of grease in the ID of the brake disc. The hub of the brake disc is positioned toward the tire.

13. Reinstall the four hex screws and steel sleeves. Use red loctite (271) on the threads of the screws and tighten to 18–24 Nm (15–20 ft lb). Tighten these screws in a “criss-cross” pattern. **Make sure the disc floats on the hub.**
14. Position the front drive wheel assembly into the wheel housing. The brake disc is positioned on the left side of the wheel support.

NOTE: Use a screw driver to spread the brake pads apart to ease the installation of the assembly into the wheel support.

15. Line up the wheel hub bearings with the mount holes on the wheel support.
16. Push the wheel axle , from the right hand side, into the wheel housing and wheel hub. Note the “D” shape of the wheel support mount hole and the “D” on the axle shaft. Line these two up and push the axle all the way into the mount hole. (Refer to FIG. 2 and 3)
17. Install the washer and nyloc nut onto the axle shaft. Tighten to 64–83 Nm (48–60 ft lb). (Refer to FIG. 2 and 3)
18. Spread the drive chain and install around the large sprocket on the front wheel assembly. Reinstall the master link. **Make sure the four small O-rings are in place behind the master link clip.**
19. Push the hydraulic motor (Gas or LPG machines) or drive motor gearbox (Electric machines) up until the drive chain is tight (+/- 1/8 inch at mid-point). Tighten nuts to 18–24 Nm (15–20 ft lb). (Refer to FIG. 2 and 3)
20. Remove the jack stands, and lower the machine to the floor. Operate the machine, and check for proper operation.

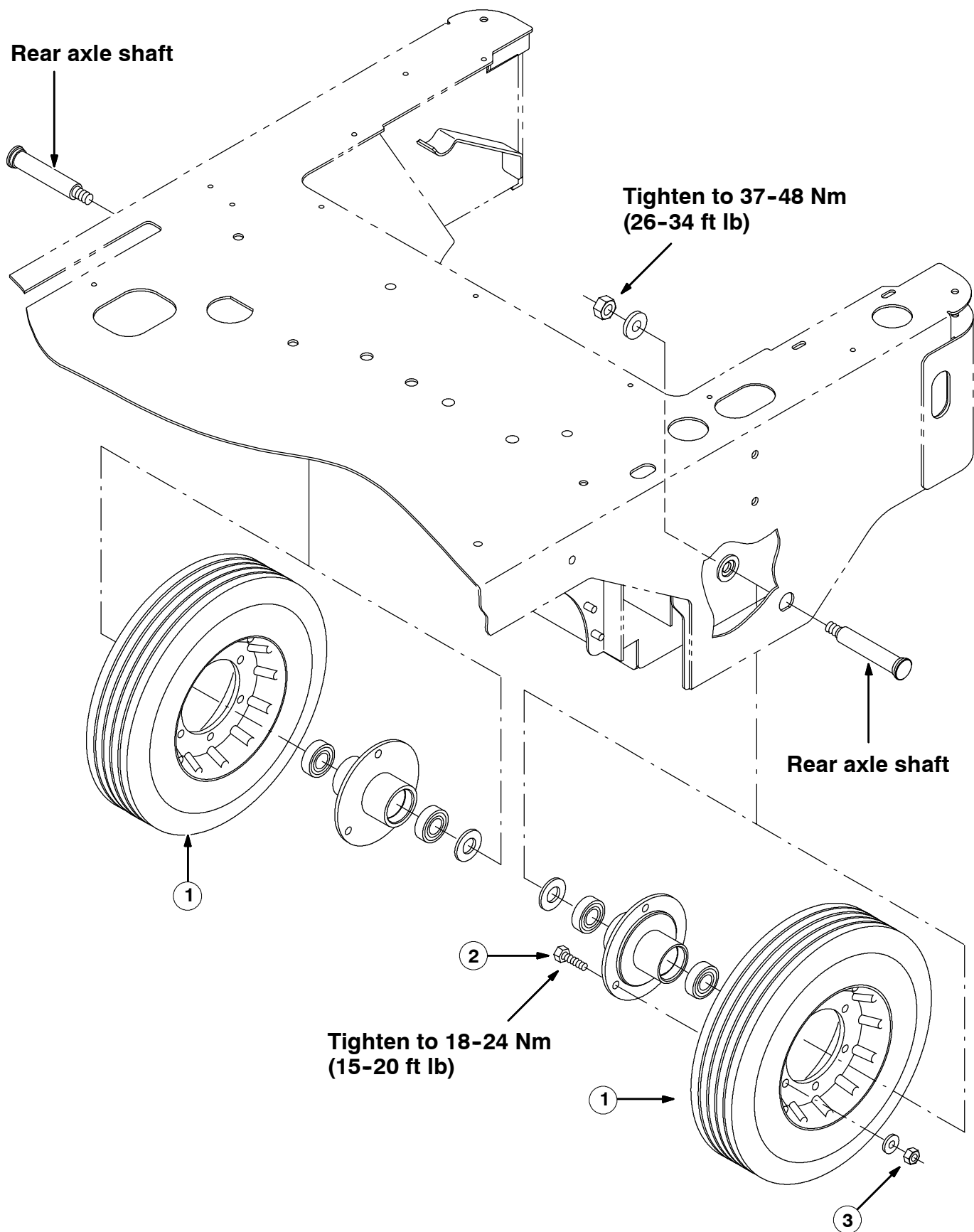


FIG. 1 - Rear Wheel Kit, Non-Marking

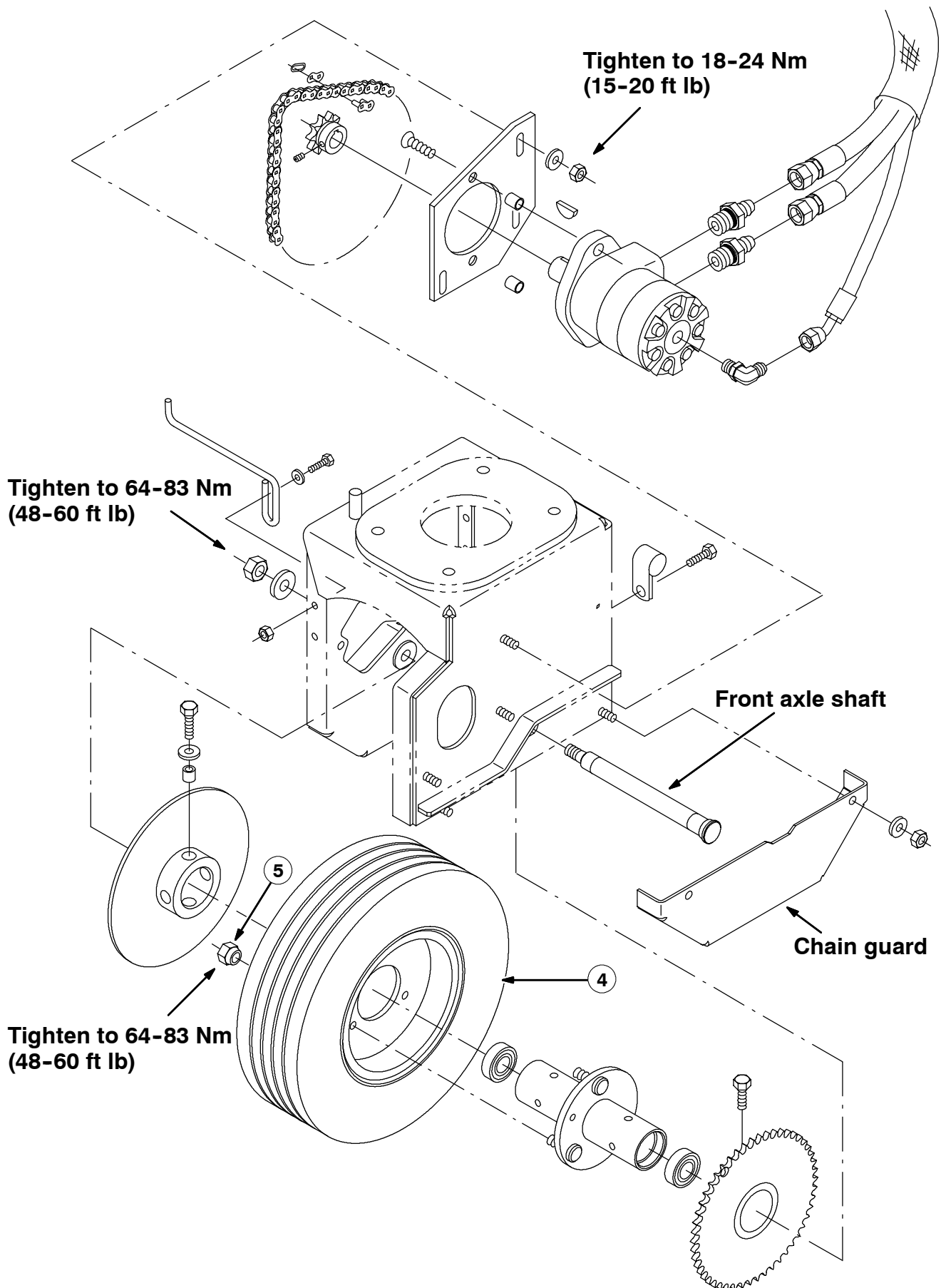


FIG. 2 - Front Drive Wheel Group, Gas and LPG machines

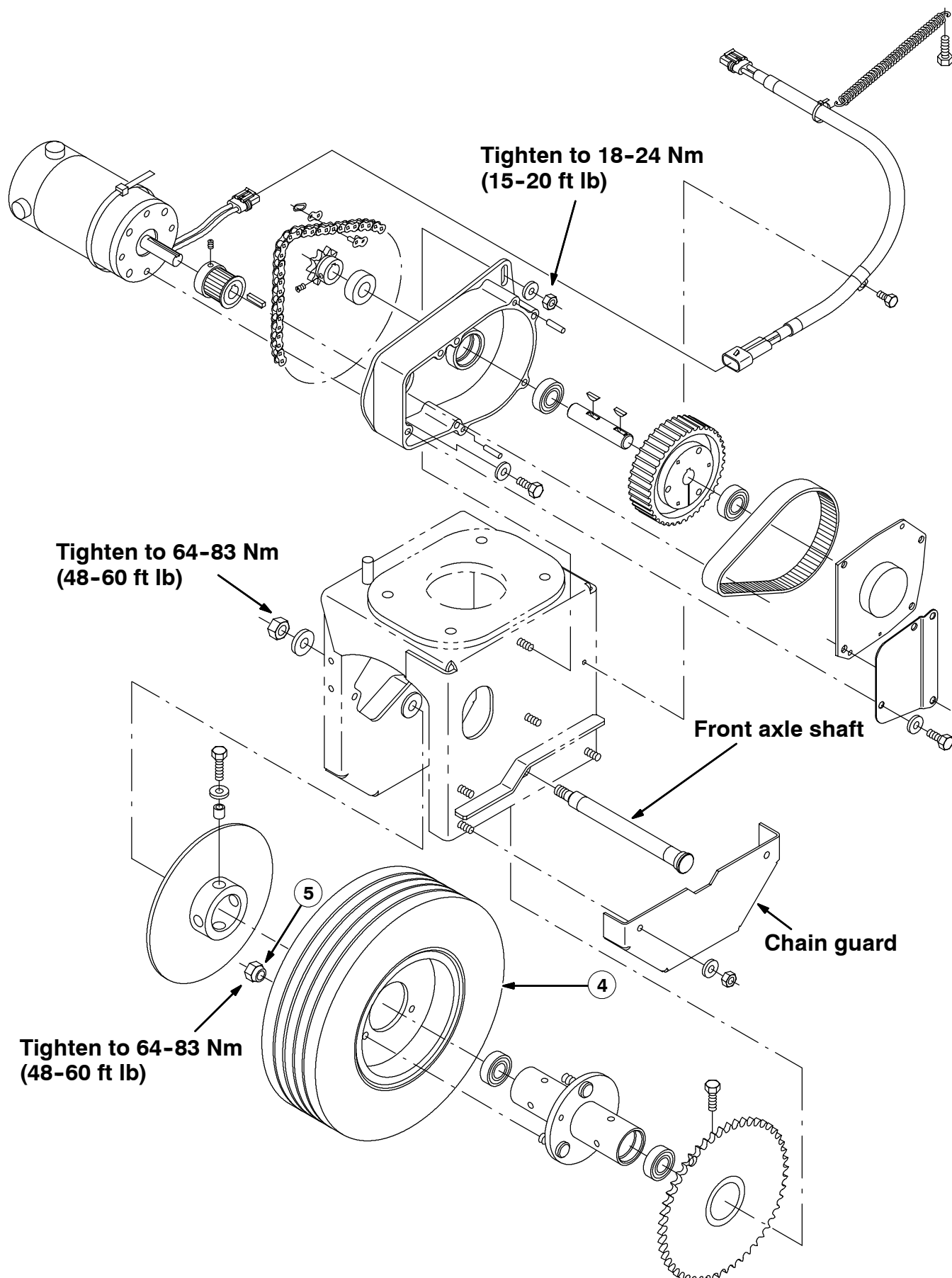


FIG. 3 - Front Drive Wheel Group, Electric machines

BILL OF MATERIALS FOR NON-MARKING REAR TIRE KIT 374179

Ref.	TENNANT Part No.	Description	Qty.
1	83423	Tire assy, solid, 12.0 X 3.0	2
2	39277	Screw, hex, M08 X 1.25 X 25, 8.8	6
3	08709	Nut, hex, lock, M08 X 1.25, NL	6

BILL OF MATERIALS FOR NON-MARKING FRONT/REAR TIRE KIT 83433

Ref.	TENNANT Part No.	Description	Qty.
1	83423	Tire assy, solid, 12.0 X 3.0	2
2	39277	Screw, hex, M08 X 1.25 X 25, 8.8	6
3	08709	Nut, hex, lock, M08 X 1.25, NL	6
4	369394	Tire assy, solid, 12.0 X 3.5	1
5	11109	Nut, wheel, 0.44-20 X 60 angle	3

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