



INSTRUCTION BULLETIN

No. 340379
Machine: 6100IC
Published: 2-01/01
System: ENGINE

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 384454

SYNOPSIS / PROBLEM:

This kit contains the parts needed to replace the vacuum box on the model 6100IC sweeper. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 2 hours)

PREPARATION:

(Refer to FIG. 1 thru 9)

1. **FOR LPG MACHINES ONLY.** Start the machine and turn the LPG tank valve to the off position.
2. Allow the machine to run until it uses all of the remaining LPG gas in the fuel line.
3. Disconnect the LPG hose from the LPG tank
4. Remove the LPG tank from the tank mounting bracket.
5. Remove and set aside the LPG tank mounting bracket from the top of the vacuum box.

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

6. **FOR GASOLINE POWERED MACHINES.** Close the fuel shut off valve under the fuel tank.
7. Remove and set aside the fuel tank and mounting bracket from the top of the vacuum box.
8. Disconnect battery cables from machine.



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

INSTALLATION:

(Refer to FIG. 1 thru 9)

1. Remove and set aside both side shrouds.
2. Remove and set aside the fan sheave guard from the right side of the machine.
3. Loosen the vacuum fan assembly, and remove the fan drive belt from the sheave.

4. Remove and set aside the vacuum fan assembly from the right side of the machine.
5. Remove and set aside the insulation and heat shield panel from the left hand side of the machine. (Refer to FIG. 6)
6. Disconnect the tailpipe support angle from the left side of the machine.
7. Loosen the hydraulic tank straps and carefully push the hydraulic tank towards the front of the machine. (Refer to FIG. 2)
8. Loosen the rear wall mounting bolts on the right hand side of the machine.
9. Disconnect the wire harness from the damper assembly, and remove the harness from the vacuum box assembly.
10. Disconnect and remove the old vacuum fan box group from the machine.
11. Place a small amount of RTV sealant around the vacuum fan opening on the right hand side of the new vacuum box. (Refer to FIG. 4)
12. Mount the new vacuum box in the machine with one of the right front mounting bolts turned around to use as a guide bolt for installation. (Refer to FIG. 1 and 5)
13. Wrench tighten the new vacuum box mounting hardware after the new vacuum box is installed.
14. Locate the new rubber grommet to be installed in the new vacuum box.
15. Make one incision in the grommet and place the grommet in the hole in the front of the vacuum box. (Refer to FIG. 1 and 3)
16. Run the wire harnesses through the grommet, and RTV both sides of the grommet to seal around the wire harnesses properly. (Refer to FIG. 8 and 9)
17. Wire the harnesses to the new vacuum box.

NOTE: When wiring the thermal switch, the wiring connects to the bottom terminals.

18. Move the hydraulic tank back into place and secure with hydraulic straps. (Refer to FIG. 2)
19. Mount the tailpipe support angle back on the left side of the machine.
20. Replace the heat shield panel and insulation on the left hand side of the machine.
21. Loosely mount the vacuum fan assembly back on the right hand side of the machine.
22. Place the fan drive belt back on the fan sheave. Pull the vacuum fan assembly back to tighten the vacuum fan belt. While the belt is tight, tighten the vacuum fan assembly mounting hardware to secure the vacuum belt.
23. Mount the sheave guard back over the fan sheave.
24. Replace the shrouds on both sides of the machine.
25. Replace the fuel tank mounting bracket.
26. Mount the fuel tank and reconnect fuel lines to the fuel tank.
27. Start the machine, and check vacuum box for proper operation.

IB 340379 (2-01)

Loosen hydraulic fluid reservoir straps.

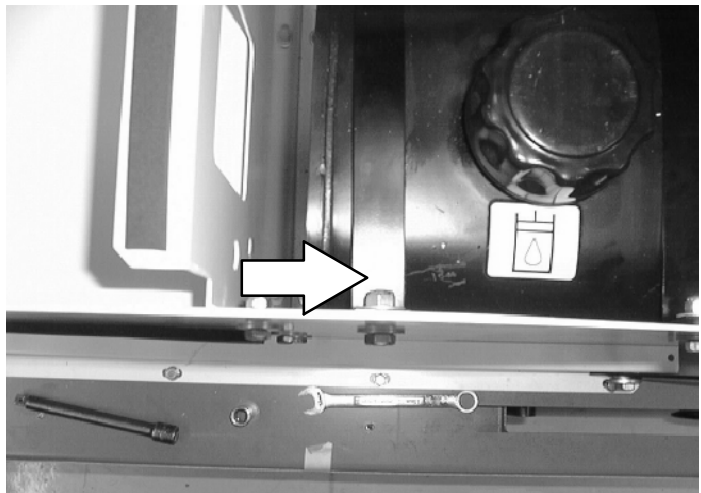


FIG. 2

Cut grommet before installing in new vacuum box.

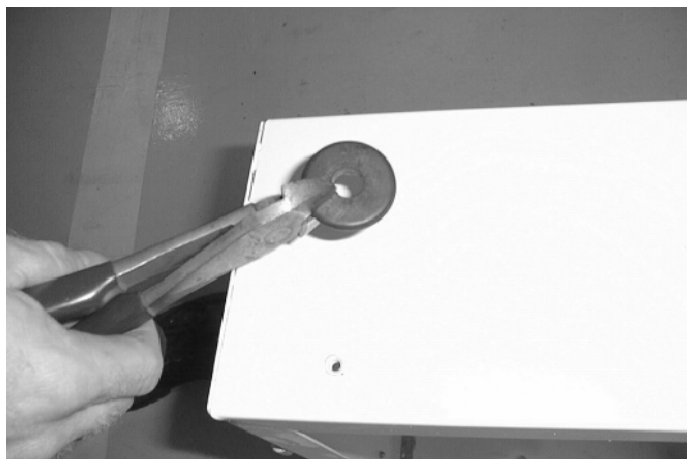


FIG. 3

Apply RTV sealant around damper opening on right hand side of machine



FIG. 4

Help guide the new vacuum box into place with a reversed mounting bolt

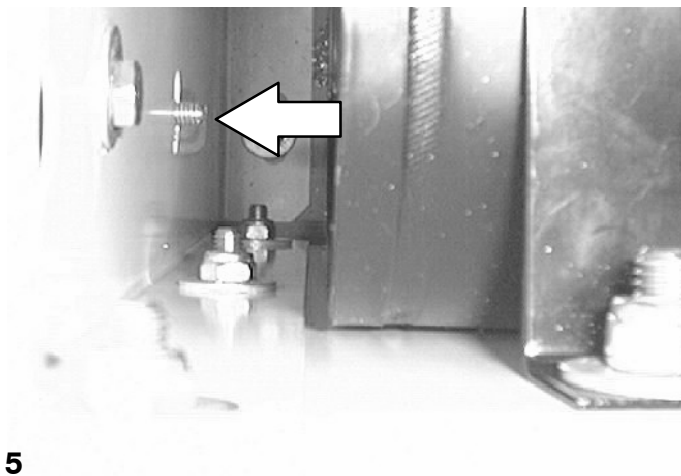


FIG. 5

Replace insulation and heat shield on left hand side of machine



FIG. 6

Seal vacuum box to vacuum opening with RTV sealant on side of vacuum box

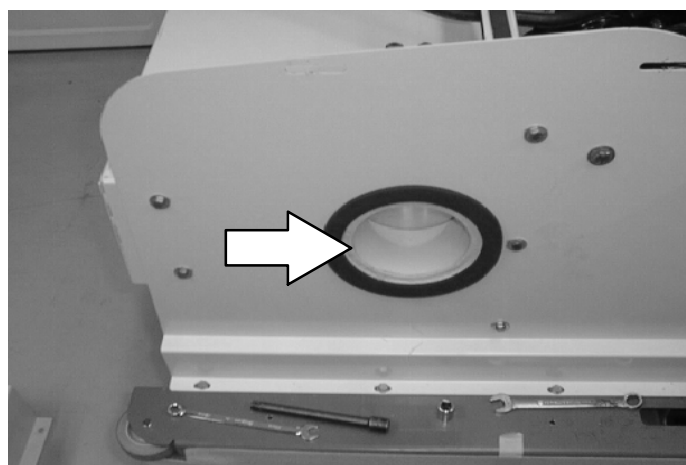


FIG. 7

**RTV both sides of the rubber grommet
after installing wire harnesses**

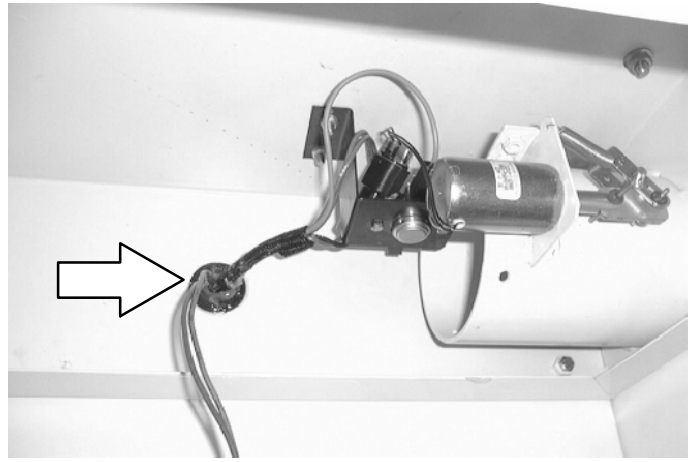


FIG. 8

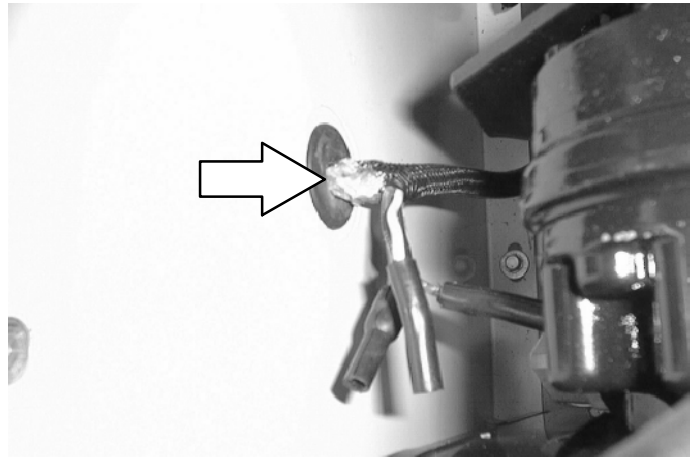


FIG. 9

BILL OF MATERIALS FOR VACUUM BOX KIT 384454

Ref.	TENNANT Part No.	Description	Qty.
1	81683	Box Wldt, Vacuum, Gas/LPG	1
2	32571	Sealant, RTV	1
3	384403	Rod Wldt, Damper	1
4	384114	Plate, Damper	1
5	09146	Screw, Pan, M03-0.5 X 12, 4.8	2
6	32975	Washer, Lock, Int, # 06	2
7	07807	Nut, Hex, STD, M03-0.5, SS	2
8	80921	Bushing, Snap in, 0.25B	2
9	384464	Solenoid, 12V DC, Damper	1
10	384496	Link, .12T 0.7W 1.6L	1
11	384410	Pin, Pivot	2
12	384411	Retainer, Shaft, .125 Dia	4
13	378769	Spring	1
14	81963	Bracket, MTG, Thermal Sensor	1
15	06942	Screw, Hex, M06-1.0 X 16, 8.8	2
16	32490	Washer, Flat, .25 Hard	2
17	08708	Nut, Hex, Lock, M06-1.0	2
18	367679	Switch, Thermostat	1
19	09206	Screw, Hex, M04-0.7 X 12, 8.8	2
20	19065	Washer, Flat, #08	2
21	02850	Nut, Hex, Lock, M04-0.7	2
22	81816	Bracket, Latch	2
23	06524	Rivet, Pop	4
24	83165	Bumper, Rubber	3
25	81697	Grommet, Rubber, 0.50ID	1
26	06942	Screw, Hex, M06-1.0 X 16, 8.8	1
27	83520	Label set	1
28	08317	Sealant	1
29	06942	Screw, Hex, M06-1.0 X 16, 8.8	7
30	32490	Washer, Flat, .25 Hard	7

TENNANT COMPANY
P. O. Box 1452
Minneapolis, MN 55440-1452