



INSTRUCTION BULLETIN

No. 9012955
Machine: T17 / M17
Published: 07-2016
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 9020228 (T17 machines NA serial numbers 000000-010999 / EU serial numbers 0000-0330) / 9015002 (T17 machines NA serial numbers 011000- / EU serial numbers 0400-) (M17 All machines)**

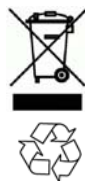
SYNOPSIS:

This kit contains the parts needed to replace the scrub circuit board on T17 scrubbers / M17 sweeper-scrubbers.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 1 hour)



PROTECT THE ENVIRONMENT

Please dispose of packaging materials, used machine components such as batteries and fluids in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.

PREPARATION:

1. Park the machine on a clean level surface, turn off the machine, set the parking brake, and remove the key.

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

2. Disconnect the battery cable from the machine.

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

3. Open the right shroud to access the electrical box assembly.

INSTALLATION:

1. Remove both SEMS M6 hex screws securing the electrical enclosure cover to the electrical enclosure. Set the SEMS M6 hex screws aside. (Fig. 1)

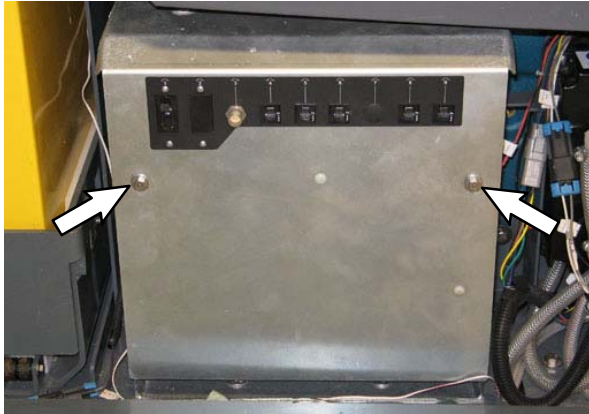


FIG. 1

NOTE: To avoid damaging electronic components, the static ground strap (3) must be worn at all times while handling / installing the new side scrub brush circuit board (1) onto the machine. Attach the other end of the static ground strap to the machine chassis.

2. Carefully remove the electrical enclosure cover from the electrical enclosure and position the electrical enclosure cover out of the way. **Do Not** break or damage wires / wire connections when removing the electrical enclosure cover from the electrical enclosure. (Fig. 1 / Fig. 2)

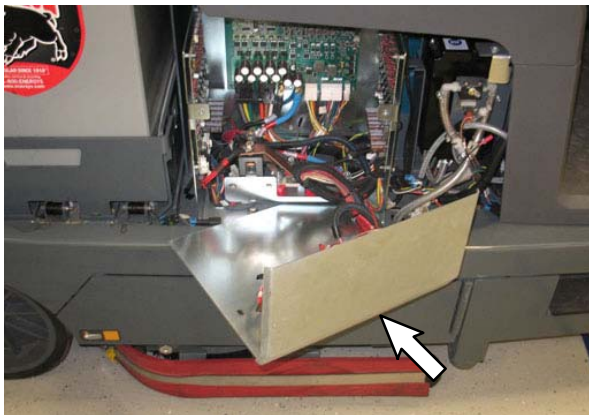


FIG. 2

3. Disconnect all main wire harness connectors from the existing scrub circuit board. Discard all P2 / GND and P1 / B+ mounting hardware. (Fig. 3)

4. Remove both M4 pan screws and nylon washers securing the scrub circuit board to the electrical enclosure. Set the M4 pan screws and nylon washers aside. (Fig. 3)
5. Remove the scrub circuit board from the four plastic stand-offs in the electrical enclosure. Discard the scrub circuit board. (Fig. 3)
6. Remove the four plastic stand-offs from the electrical enclosure. Discard the plastic stand-offs. (Fig. 3)
7. Install four new plastic stand-offs (3) where the four removed plastic stand-offs were previously located. (Fig. 3)
8. Ensure the B+ and ground standoffs are tight on the new scrub circuit board (1). (Fig. 3)
9. Place the scrub circuit board (1) onto the plastic stand-offs (3) and use the two M4 pan screws and nylon washers to secure the scrub circuit board to the electrical enclosure. (Fig. 3).
10. Reconnect the main wire harness connectors to the scrub circuit board (1). (Fig. 3)
11. Use an M6 hex nut (8), two flat washers (6) and a lock washer (7) to connect the P2 / GND cable to the scrub circuit board (1). Hold the circuit board stand-off with an open ended wrench while tightening the M6 hex nut. Torque the M6 hex nut to 36 in lbs (4.0 Nm). **Do Not** over tighten hardware. (Fig. 3)
12. Use an M5 hex nut (5), two flat washers (6) and a lock washer (4) to connect the P1 / B+ cable to the scrub circuit board (1). Hold the circuit board stand-off with an open ended wrench while tightening the M6 hex nut. Torque the M5 hex nut to 30 in lbs (3.4 Nm). **Do Not** over tighten hardware. (Fig. 3)
13. Reinstall the electrical enclosure cover onto the electrical enclosure. (Fig. 1)
14. Reconnect the battery cable to the machine.
15. Close the right shroud.
16. Start and test the machine. Operate all machine functions to ensure all modes / systems are functional.

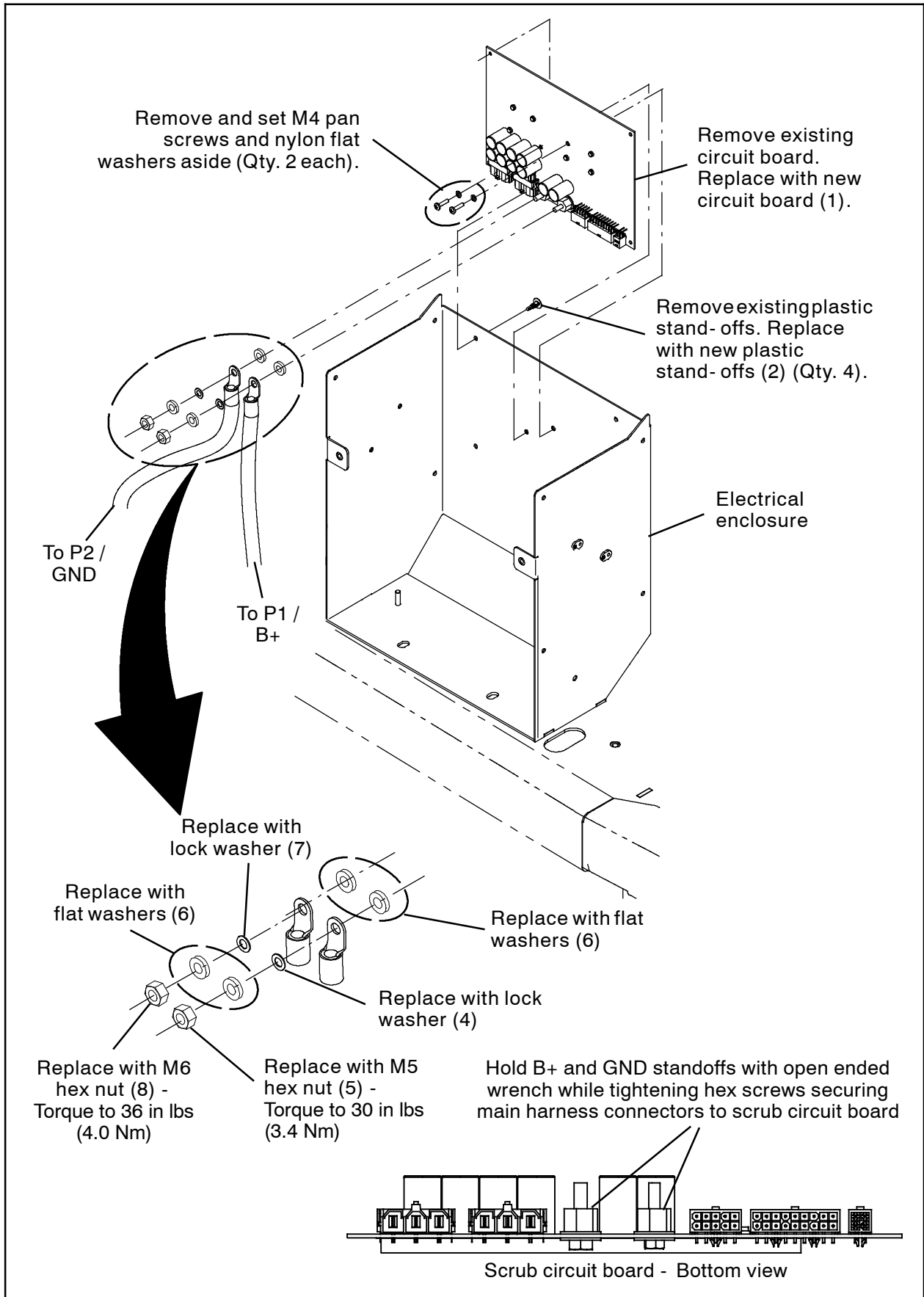


FIG. 3

**Bill Of Materials For Circuit Board Kit, Scrub, Afmkt [T17] - 9020228 /
Circuit Board Kit, Scrub, Afmkt [T17/M17] - 9015002**

Ref.	Tennant Part No.	Description	Qty.
1	1206967	Circuit Board Assy, Scrub Module [T17] (Kit 9020228 Only)	1
1	1225443	Circuit Board Assy [Scrub, Mustang, M17] (Kit 9015002 Only)	1
2	1210399	Stand- Off, Circuit Board [0.25"]	4
3	27964	Strap, Ground, Static, Disposable	1
4	07514	Washer, Lock, Int, 10, SS	1
5	1202864	Nut, Hex, Std, M5 X 0.80, Brs	1
6	1061918	Washer, Flat, 0.25B 0.47D .06, Brs	4
7	07515	Washer, Lock, Int, 0.25, SS	1
8	1061910	Nut, Hex, Std, M6 X 1.00, Brs	1

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