

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 9015049**

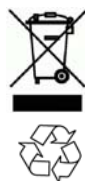
SYNOPSIS:

This kit contains the parts needed to replace the power steering motor on M17 sweeper- scrubbers and T17 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. Drive the machine for a short distance and straighten the steering wheel. The steering wheel must be positioned straight when the power steering motor is replaced / calibrated. (Fig. 1)



FIG. 1

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 cables from machine before working on electrical components.

3. Remove the access panel from the machine. Set the access panel and all hardware aside. (Fig. 2)



FIG. 2

INSTALLATION:

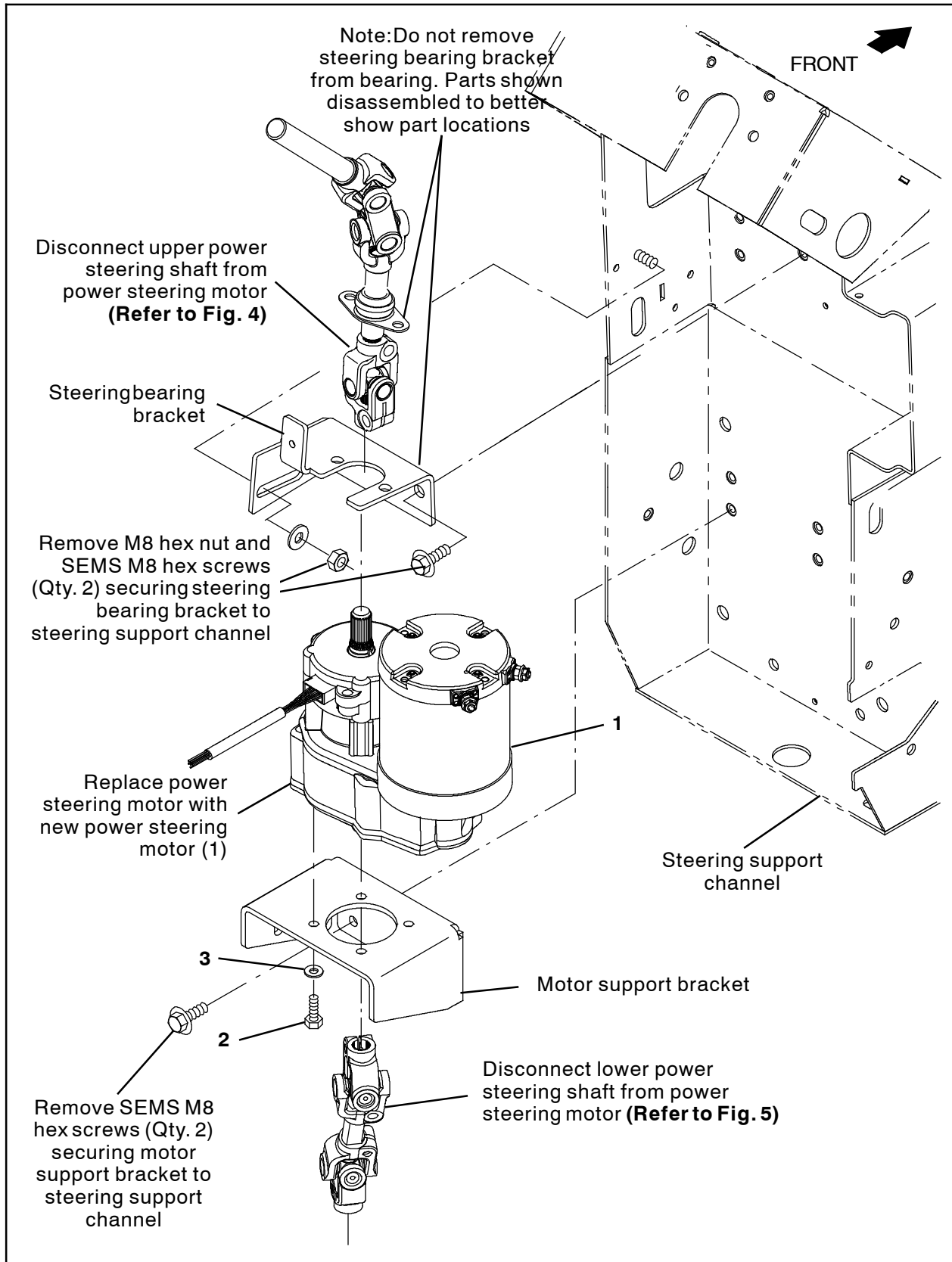


FIG. 3

1. Disconnect all power steering wire harness connections from the power steering motor. (Fig. 3 / Fig. 8)
2. Remove the SEMS M8 hex screws securing the motor support bracket to the steering support channel. Set removed hardware aside. (Fig. 3)
3. Remove the SEMS M8 hex screws and M8 hex nut securing the steering bearing bracket to the steering support channel. Set removed hardware aside. (Fig. 3)
4. Loosen hardware securing the upper power steering shaft to the power steering motor and disconnect the upper power steering shaft from the power steering motor. (Fig. 3 / Fig. 4)

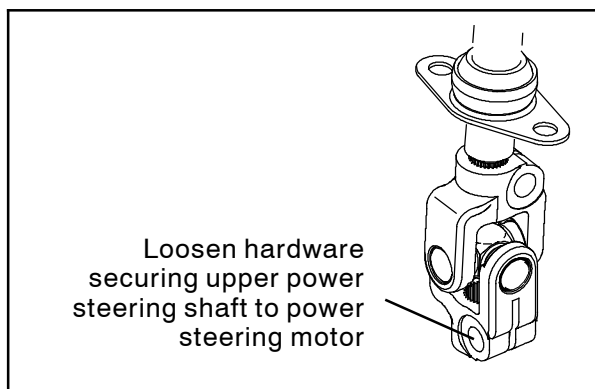


FIG. 4

5. Remove hardware securing lower power steering shaft to the power steering motor and disconnect the lower power steering shaft from the power steering motor. (Fig. 3 / Fig. 5)

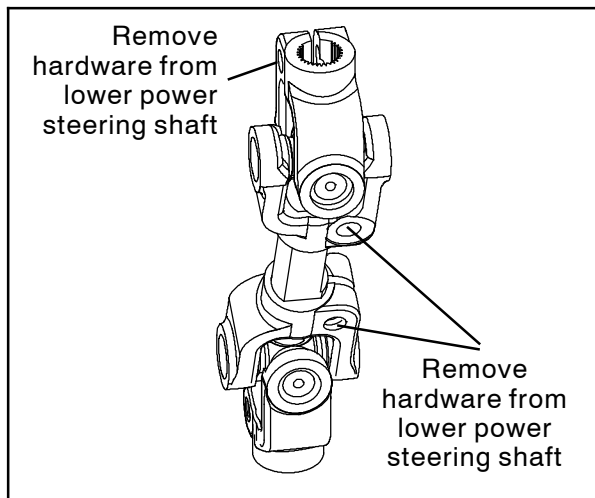


FIG. 5

6. Remove the power steering motor from the motor support bracket. Discard the power steering motor and the M6 hex screws (Qty. 4) and flat washers Qty. 4). (Fig. 3)
7. Connect the power steering wire harness to the power steering motor (1). (Fig. 3 / Fig. 8)
8. Use four M6 hex screws (2) and four flat washers (3) to install the new power steering motor (1) onto the motor support bracket. (Fig. 3)
9. Connect the upper power steering shaft to the power steering motor (1). (Fig. 3 / Fig. 4)
10. Connect the lower power steering shaft to the power steering motor (1). (Fig. 3 / Fig. 5)
11. Use the SEMS M8 hex screws to secure the motor support bracket to the steering support channel. (Fig. 3)
12. Use the SEMS M8 hex screws and M8 hex nut to reinstall the steering bearing bracket onto the steering support channel. (Fig. 3)
13. **Calibration:** Connect power steering wire harness YEL- 1 wire and YEL- 2 wire located near the controller to the switch (4). (Fig. 6 / Fig. 7 / Fig. 8)

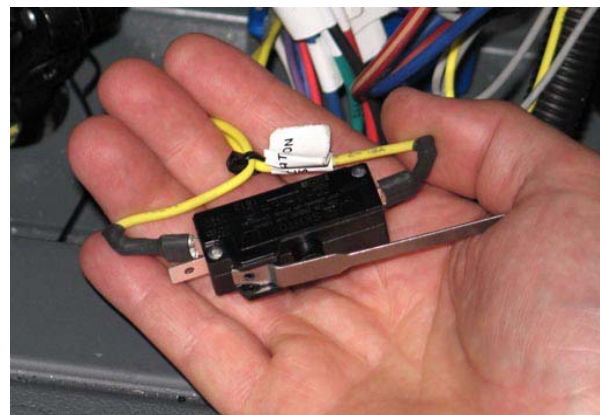


FIG. 6

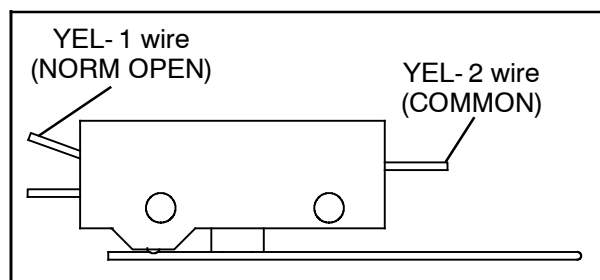


FIG. 7

14. Reconnect the battery cable to the machine.

15. **Calibration:** Turn the key to the ON position.
16. **Calibration:** Turn OFF all machine functions and options. All functions / options (spray nozzle, lights, etc...) must be OFF when the power steering motor (1) is calibrated. The power steering motor will not calibrate if functions / options are on.
17. **Calibration:** Quickly squeeze / activate the switch (4) lever four times within 3 seconds. The power steering controller LED will illuminate each time the snap switch lever is squeezed. The LED will remain illuminated for 2 seconds the fourth time the snap switch lever is squeezed to show the sequence is completed. (Fig. 9)

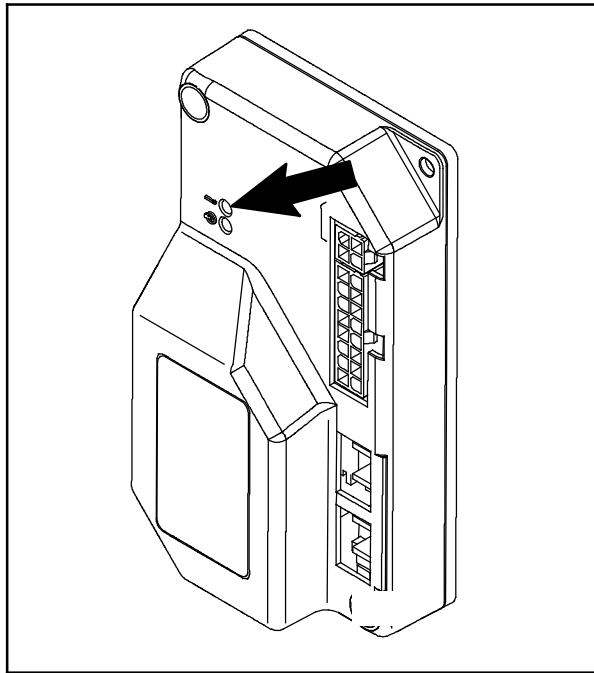


FIG. 9

18. Test the machine. Turn the steering wheel in the complete range of motion in both directions. The machine should steer smoothly and with the same amount of resistance in both directions. Recenter the steering wheel and repeat the Calibration Steps if the steering is not functioning smoothly with the same amount of resistance when turned in either direction. Do not turn on any machine functions / options when testing the machine.

NOTE: All functions and options must remain OFF until after the key is turned to the OFF position to complete calibration.

19. **Calibration:** Turn the key to the OFF position.
20. **Calibration:** Disconnect the power steering wire harness YEL- 1 wire and YEL- 2 wire from the snap switch (4). (Fig. 6 / Fig. 7 / Fig. 8)
21. Reinstall the access panel onto the machine.

Bill Of Materials For Motor Assy Kit, Steering, Afmkt [T17/M17] - 9015049

Ref.	Tennant Part No.	Description	Qty.
1	1217601	Motor Assy, Steering, Power, 36V	1
2	12274	Screw, Hex, M6 X 1.00 X 20, 8.8, NL	4
3	32483	Washer, Flat, 0.25, SAE	4
4	1008142	Switch, Snap, 25A SPDT	1

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