

INSTRUCTION BULLETIN

No. 9014081 Machine: T16

Published: 12-2015

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 9014078 / 9014079

SYNOPSIS:

This kit contains the parts needed to install the telemetry system on T16 scrubbers equipped with the rollout battery option.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 2 hours)

The IRIS (telemetry module) must be activated to complete this installation. The module will not function until it is activated. Call for assistance (North America - Technical Support / Australia - CCC) activating the module after all telemetry components have been installed. Have machine serial number and IRIS module SIM number (located on back of IRIS control box assembly) ready when calling for activation.



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.



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

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

- Evaluate the condition of batteries, cables, and terminal connections. Batteries / cables / terminal connections must all be in safe working condition.
- Disconnect the battery cable from the machine.



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

- Disconnect the main wire harness from the operator seat switch and remove the operator seat and operator seat prop rod from the machine. Set the operator seat and operator seat prop rod aside.
- Remove the seat shroud from the machine.
 Set the seat shroud and hardware aside.
 (Fig. 1)

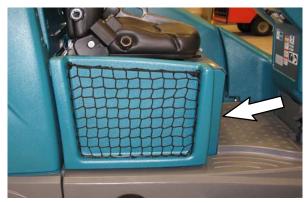


FIG. 1

INSTALLATION:

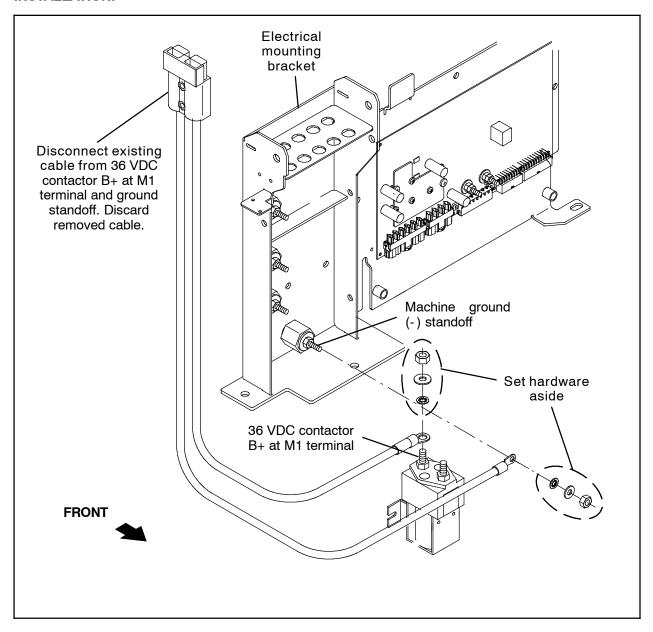


FIG. 2

Remove the cable connected to the 36 VDC contactor B+ at M1 and the ground standoff from the machine. Set hardware removed from 36 VDC contactor B+ at M1and the machine ground (-) standoff aside. Discard the removed cable. (Fig. 2)

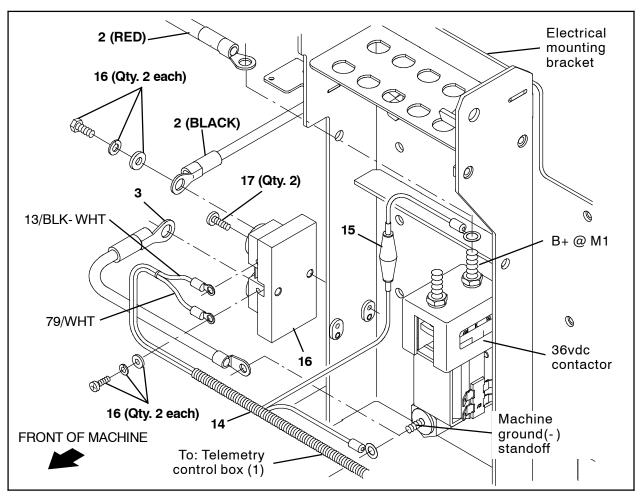


FIG. 3

- 2. Use two M4 pan screws (17) to install the shunt (16) onto the electrical mounting bracket. (Fig. 3)
- 3. Connect the black cable (3) to the shunt (16). (Fig. 3)
- 4. Connect the black cable (3) to the 36vdc contactor / machine ground (-). (Fig. 3)
- 5. Remove the fuse from the telemetry harness (14). (Fig. 4)



FIG. 4

- 6. Connect the battery cable assembly (2) black cable to the shunt (16) (Fig. 3)
- 7. Connect the telemetry harness (14) 13/BLK-WHT wire to the side of the shunt (16) with the black cable (2). (Fig. 3 / Fig. 5)
- 8. Connect the telemetry harness (14) 79/WHT wire to the side of the shunt (16) with the black cable (3). (Fig. 3 / Fig. 5)
- Connect the telemetry harness (14) and the battery cable assembly (2) red cable to the 36 VDC contactor B+ at M1 terminal. (Fig. 3 / Fig. 5)

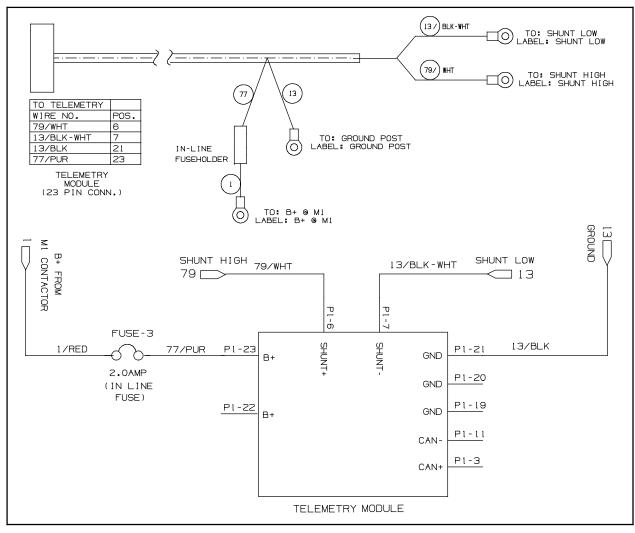


FIG. 5

10. Route the telemetry cable (3) along the front of the seat shroud. (Fig. 6)

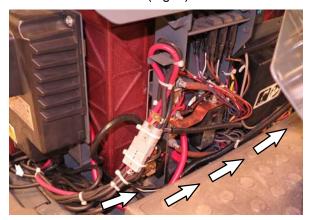


FIG. 6

 Remove the additional SIM label from the back of the control box (1) and set label aside in a safe place. The number on the SIM label will be needed for activating the machine. (Fig. 7)



FIG. 7

12. Use three M6 hex screws (12), three flat washers (22), and the control box guard (4) to install the control box (1) into the controller bracket (7) and guard cover (9). (Fig. 8)



FIG. 8

13. Install the cable tie mount (24) onto the telemetry assembly assembled in the previous step. (Fig. 9)

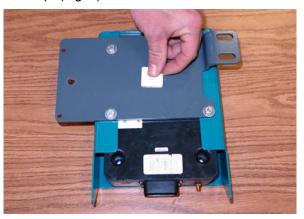


FIG. 9

14. Route the telemetry antenna (10) cable through the hole in the telemetry assembly. (Fig. 10)

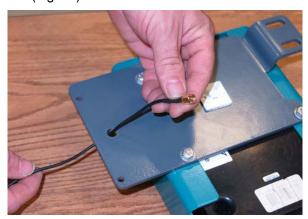


FIG. 10

15. Use two M5 hex screws (13), two flat washers (5), two M5 hex nuts (6), and two cable clamps (11) to install the telemetry antenna (10) onto the telemetry assembly. (Fig. 11)



FIG. 11

16. Connect the telemetry antenna (10) cable to the control box (1). (Fig. 12)

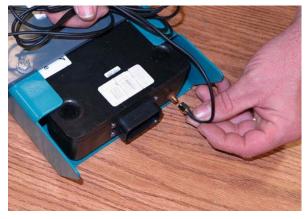


FIG. 12

17. Neatly bundle the telemetry antenna (10) cable and use a cable tie (23) to secure the telemetry antenna cable to the telemetry assembly. (Fig. 13)

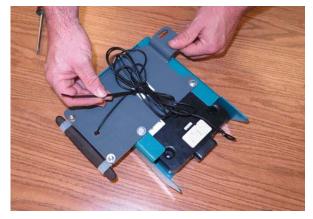


FIG. 13

- 18. Route the telemetry harness (14) around the left side of the batteries, up through the p-clamp' behind the operator seat prop rod bracket, and to the control box (1).
- 19. Use hardware securing the recovery tank cover to the machine to install the telemetry assembly onto the machine. (Fig. 14)



FIG. 14

20. Connect the telemetry harness (14) to the control box (1). (Fig. 15)



FIG. 15

21. Clean the electrical panel where the telemetry label (20) is supposed to be located and install the telemetry label and SIM label removed from the control box (1) onto the electrical panel. (Fig. 16)



FIG. 16

- 22. Reinstall the seat shroud onto the machine.
- 23. Reinstall the operator seat and operator seat prop rod onto the machine and reconnect the main wire harness to the seat switch.
- 24. Reconnect the battery cable to the machine.
- 25. Reinstall the fuse into the telemetry harness (14).
- 26. Start and test the machine.
- 27. North America Customer Locations:
 Activate the IRIS (telemetry module): Call
 Technical Support (between hours of 7:00 am
 and 5:00 pm CST) for assistance to activate
 the module. The IRIS telemetry system must
 be activated to complete this install. Have
 machine serial number and control box (1)
 SIM number ready when calling for activation.
- 28. Australia Customer Locations: Activate the IRIS (telemetry module): Call CCC (between hours of 8:00 am and 5:00 pm AEST) and ask to be routed to the IRIS expert for assistance to activate the module. The IRIS telemetry system must be activated to complete this install. Have machine serial number and control box (1) SIM number ready when calling for activation.

NOTE: The IRIS (telemetry module) must be activated to complete this installation. The module will not function until it is activated. Call for assistance activating the module after all telemetry components have been installed.

Bill Of Materials For Telemetry Kit, w/ R/O, CI [T16, USA] - 9014078 / Telemetry Kit, w/ R/O, CI [T16, Intl] - 9014079

| | Tennant | | |
|------|--|--|---|
| Ref. | Part No. | Description | Qty. |
| 1 | 1069467 | Control Box,Telem [USA. 3G] | 1 |
| 1 | 1070541 | Control Box Assy, Telem [3G, Intl.] | 1 |
| 2 | 1070414 | Cable Assy, 2ga, Telem [T16 Rollout] | 1 |
| 3 | 1070358 | Cable, 2ga, Blk, Telem [T16] | 1 |
| 4 | 1216841 | Guard Wldt, Control Box | 1 |
| 5 | 01683 | Washer, Flat, 10, SS | 2 |
| 6 | 06549 | Nut, Hex, Lock, M5 X 0.80, NI | 2 |
| 7 | 1217240 | Bracket, Mtg, Controller [T16] | 1 |
| 8 | 1037346 | Screw, Hex, M8 X 1.25 X 25, 9.8, SEMS | 2 |
| 9 | 1217789 | Cover, Guard | 1 |
| 10 | 315724 | Antenna, Telem, 18.0 In [GPRS] | 1 |
| 11 | 140916 | Clamp, Cable, Nyl, 0.62d, Nat | 2 |
| 12 | 06943 | Screw, Hex, M6 X 1.00 X 20, 8.8 | 3 |
| 13 | 24199 | Screw, Hex, M5 X 0.80 X 16, SS | 2 |
| 14 | 1070108 | Harness, Ele, Telem [T16] | 1 |
| 15 | 9009990 | Fuse, 002a, 250vdc, Cartridge | 1 |
| 16 | 1070384 | Shunt, 050mv 250a | 1 |
| 17 | 06927 | Screw, Pan, Phl, M4 X 0.70 X 16, 4.8 | 2 |
| 18 | 32980 | Washer, Lock, Int, 10 | 2 |
| 19 | 32988 | Washer, Lock, Int, 0.38 | 2 |
| 20 | 1069580 | Label, Mach, Telem, [FCC, USA, 2G/3G] | 1 |
| 21 | 49266 | Tie, Cable, Nyl, 07.3l .19w 1.8 Max D | 3 |
| 22 | 32483 | Washer, Flat, 0.25, SAE | 3 |
| 23 | 130773 | Tie, Cable, Nyl, 11.0l .14w 3.0 Max D | 6 |
| 24 | 55248 | Mount, Cable Tie | 1 |
| | 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | Ref. Part No. 1 1069467 1 1070541 2 1070414 3 1070358 4 1216841 5 01683 6 06549 7 1217240 8 1037346 9 1217789 10 315724 11 140916 12 06943 13 24199 14 1070108 15 9009990 16 1070384 17 06927 18 32980 19 32988 20 1069580 21 49266 22 32483 23 130773 | Ref. Part No. Description 1 1069467 Control Box,Telem [USA. 3G] 1 1070541 Control Box Assy, Telem [3G, Intl.] 2 1070414 Cable Assy, 2ga, Telem [T16 Rollout] 3 1070358 Cable, 2ga, Blk, Telem [T16] 4 1216841 Guard Widt, Control Box 5 01683 Washer, Flat, 10, SS 6 06549 Nut, Hex, Lock, M5 X 0.80, NI 7 1217240 Bracket, Mtg, Controller [T16] 8 1037346 Screw, Hex, M8 X 1.25 X 25, 9.8, SEMS 9 1217789 Cover, Guard 10 315724 Antenna, Telem, 18.0 In [GPRS] 11 140916 Clamp, Cable, Nyl, 0.62d, Nat 12 06943 Screw, Hex, M6 X 1.00 X 20, 8.8 13 24199 Screw, Hex, M5 X 0.80 X 16, SS 14 1070108 Harness, Ele, Telem [T16] 15 9009990 Fuse, 002a, 250vdc, Cartridge 16 1070384 Shunt, 050mv 250a 17 06927 Screw, Pan, Phl, M4 X 0.70 X 16, 4.8 |

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