FIELD INSTALLATION OF AT SERIES ETHERNET GATEWAY MODULE (EJ5226-##)

BACKGROUND

The AT Series Ethernet Gateway Module (EJ5226-##) is a standard product accessory, compatible with AT10.1 Group I, AT10.1 Group II, and AT30 Series microprocessor-controlled float battery chargers. This document (JD5030-00) is a service procedure for **FIELD INSTALLATION** of the Ethernet Gateway "kit" into an existing charger. This option requires the AT Series Communications Module (EJ5037-##) to be previously-installed in the charger.

RECEIVING / SETUP

1. The AT Series Communications Module is not compatible with older AT Series battery chargers. Please confirm the revision of the AT Series Main Control PC Board (A1) is **EN5002-00 - Rev. 6** or higher. If not, please order a NEW pc board (p/n EJ1243-11) from your sales representative.

2. Verify you have received ALL the required and correct parts in your field retrofit kit.

Item	Part No.	Description
A)	EJ5226-##	AT Series Ethernet Gateway Module
B)	n/a	two new door hinge screws (longer)
C)	n/a	nylon wire ties for securing harness
D)	n/a	communications wiring harness (wires #239, #240, #241)
E)	n/a	power wiring harness (wires #242, #243, #244)

REFERENCE IMAGE

FIELD INSTALLATION OF AT SERIES
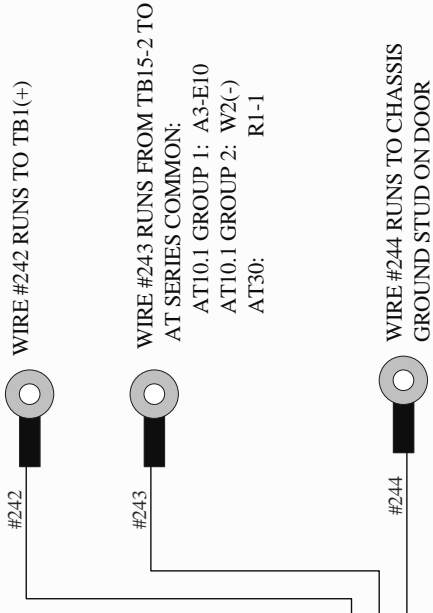# ETHERNET GATEWAY MODULE (EJ5226-##)

PROCEDURE

WARNING: *DISCONNECT ALL AC AND DC POWER SOURCES FROM THE BATTERY CHARGER BEFORE PROCEEDING. ONLY QUALIFIED SERVICE TECHNICIANS SHOULD PERFORM THIS PROCEDURE. FOLLOW THE SITE AND YOUR EMPLOYER'S STANDARD SAFETY PROCEDURES.*

WARNING: *OPENING CIRCUIT BREAKERS DOES NOT REMOVE ALL DANGEROUS VOLTAGES FROM INSIDE THE CHARGER. AFTER AC AND DC POWER ARE REMOVED, VERIFY THAT DC FILTER CAPACITORS (C1 AND/OR C2) ARE DISCHARGED BEFORE PROCEEDING.*
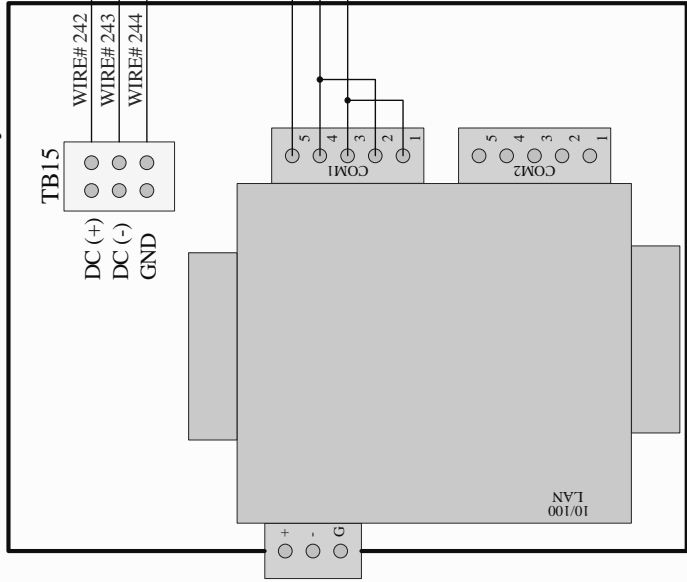
NOTE: *GROUND YOURSELF WITH A WRIST STRAP. STATIC ELECTRICITY MAY CAUSE DAMAGE TO PRINTED CIRCUIT BOARDS.*

1. Shut down the AT Series battery charger per the *Operating and Service Instructions*.
2. Open the charger front panel (door) and remove any supplied Plexiglas safety shields.
3. Remove the lower hinge mounting screws from the backside of the front door that secure the bottom hinge to the charger's front door.
4. Use the supplied *longer* door hinge screws to mount the EJ5226-## kit to the front door assembly by inserting the screws through the mounting plate, then through the door, and then into the front door hinge.
5. Refer to the Ethernet Gateway connection diagram on **Sheet 3 of 3** of this document.
6. Remove the CU-AL compression lug from TB1(+) on the charger's I/O panel. Connect one end of wire # 242 from the power supply harness to the TB1(+) stud terminal, and remount the CU-AL compression lug.
7. Connect the free end of wire #242 to the DC(+) terminal of TB15 on the EJ5226-## kit.
8. Connect one end of wire #243 from the power supply harness to bus bar W2(-). This is same point that wire #195 is connected to from the AT Communications Module (EJ5037-##).
9. Connect the free end of wire #243 to the DC(-) terminal of TB15 on the EJ5226-## kit.
10. Connect one end of wire #244 to the chassis ground stud on the front door of the charger.
11. Connect the free end of wire #244 to the GND terminal of TB15 on the EJ5226 kit.
12. Install a jumper between terminals (1) and (3) on the COM1 connector of the EJ5226-## kit.
13. Connect one end of wire #239 to terminal (3) on the COM1 connector of the EJ5226-## kit.
14. Connect the free end of wire #239 to the (+) terminal of TB10 on the AT Comm pcb (A12).
15. Install a jumper between terminals (2) and (4) on the COM1 connector of the EJ5226-## kit.
16. Connect one end of wire #240 to terminal (4) on the COM1 connector of the EJ5226-## kit.
17. Connect the free end of wire #240 to the (-) terminal of TB10 on the AT Comm pcb (A12).
18. Connect one end of wire #241 to terminal (5) on the COM1 connector of the EJ5226-## kit.
19. Connect the free end of wire #241 to the (COM) terminal of TB10 on the AT Comm pcb (A12).
20. Plug the Ethernet connection into the RJ connector labeled **10/100 LAN** at the top-right of the EJ5226-## kit.
21. Check your work. Refer to the available connection diagrams.
22. Replace the Plexiglas safety shield and secure the charger's front panel door.
23. Restart the AT10.1 / AT30 battery charger per the unit's *Operating and Service Instructions*.
24. The EJ5226-## Ethernet Gateway will default to IP address 192.168.1.1.
25. Refer to the *Gateway Users Manual* for instructions on how to configure the Gateway.

EJ5037 - AT COMM Board

TB11

TB10
+ #239
- #240
C #241

EJ5226 - Ethernet Gateway Module

TB15
DC (+)   WIRE# 242
DC (-)   WIRE# 243
GND   WIRE# 244

COM1
5 4 3 2 1

COM2
5 4 3 2 1

10/100
LAN
+ - G

WIRE #242 RUNS TO TB1(+)

WIRE #243 RUNS FROM TB15-2 TO
AT SERIES COMMON:
AT10.1 GROUP 1: A3-E10
AT10.1 GROUP 2: W2(-)
AT30:   R1-1

WIRE #244 RUNS TO CHASSIS
GROUND STUD ON DOOR

#242

#243

#244

WIRE# 241
WIRE# 240
WIRE# 239

NOTE: PLUG ETHERNET CONNECTION INTO SIDE
SIDE GATEWAY (LABELED 10/100 LAN)