

OPERATION

CHARGING BATTERIES

ATTENTION: To prolong the life of the batteries only recharge the batteries if the machine was used for a total of 30 minutes or more. Do not leave batteries discharged for lengthy periods.

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.

FOR SAFETY: When servicing batteries, wear protective gloves and eye protection when handling batteries and battery cables. Avoid contact with battery acid.

BATTERY CHARGER SPECIFICATIONS

- CHARGER TYPE:
 - FOR SEALED (Gel) BATTERIES
 - FOR WET (Lead acid) BATTERIES
- OUTPUT VOLTAGE - 24 VOLTS
- OUTPUT CURRENT - 20 AMPS
- AUTOMATIC SHUTOFF CIRCUIT
- FOR DEEP CYCLE BATTERY CHARGING

ON-BOARD BATTERY CHARGER SETTINGS

If your machine is equipped with the on-board charger, the charger settings must be set for your battery type before charging. Failure to properly set will result in battery damage.

To determine your battery type, see battery label. Contact your battery supplier if not specified.

To verify the setting of the charger, connect the charger cord into an electrical receptacle. The charger will display a sequence of codes. One of the codes will either read "GEL" or "Acid" (Figure 42).

GEL = Set for sealed/maintenance free batteries
Acid = Set for wet/lead acid batteries



FIG. 42

To change the setting, unplug the charger, peel up the corner of the display label and set the switches accordingly (Fig. 43). The charger cord must be unplugged when resetting.



FIG. 43

USING THE ON-BOARD BATTERY CHARGER

IMPORTANT: Before charging, make sure that the charger setting is properly set for your battery type (See ON-BOARD CHARGER SETTINGS).

1. Transport the machine to a well-ventilated area.
2. Park the machine on a flat, dry surface. Turn the key off and set the parking brake, if equipped.
3. If charging wet (lead acid) batteries check the fluid level before charging (See BATTERY MAINTENANCE).
4. Open the battery compartment and attach the red handle battery connector harness to the battery charger connector as shown (Figure 44).

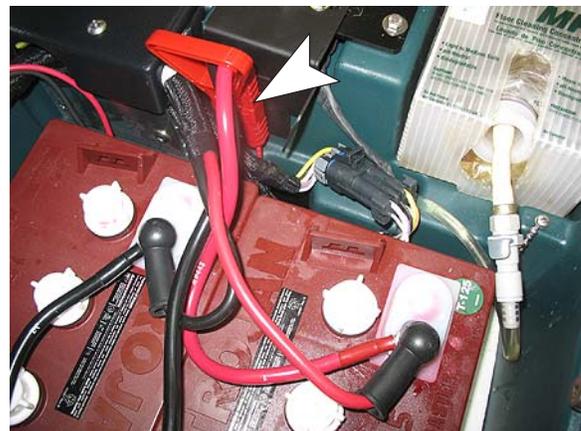


FIG. 44

- Unwrap the battery charger's AC power cord from storage hooks located on the underside of the recovery tank (Figure 45).



FIG. 45

- Connect the charger's AC power supply cord into a properly grounded receptacle (Figure 46).

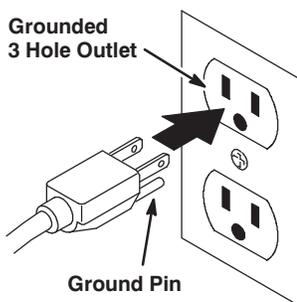


FIG. 46

- Using the support stand, prop up the recovery tank to allow for proper ventilation when charging batteries (Figure 47). As a safety feature, if the recovery tank is completely lowered, the red handle battery harness connector will disengage stopping the charge cycle.



FIG. 47

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Hood Open When Charging.

NOTE: The machine will not operate when charging.

- At start up, the charger will display a sequence of codes (Figure 48).

Three-digits + the following code:

A = Charging current

U = Battery voltage

h = Charging time

C = Charging ampere-hours [Ah]

E = Energy used [Kwh]

"GEL" or "Acd" = Battery type the charger is currently set for. Before charging make sure your battery type matches the display: GEL=Sealed, Acd=Wet (lead acid). To change setting, see ON-BOARD CHARGER SETTINGS.

Press the arrow button to review the codes.



FIG. 48

- When the charging cycle begins, the indicator lights will progress from red, yellow to green. When the green indicator light comes on, the charging cycle is done.

If the charger detects a problem, the charger will display an error code (See ON-BOARD BATTERY CHARGER ERROR CODES).

- When the charge cycle is complete, unplug the AC cord and return cord to storage hooks then disconnect the red handle battery connector (Figure 49).

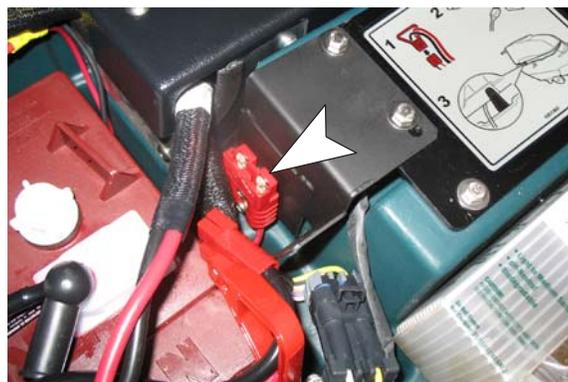


FIG. 49