

## Using Booster Batteries

### NOTICE

*Always disconnect radiator fan controller and hydraulic fan controller before charging or jump starting batteries as damage can occur (see Figure 4-3-1 and Figure 4-3-2).*

### NOTICE

*Turn battery disconnect switch in OFF position before using booster batteries to prevent damage to electrical components (see page 2-8-3).*



### WARNING

**Batteries produce explosive gases. Keep sparks, flame and cigarettes away. Ventilate when charging or using in an enclosed space. Always shield your eyes when working with batteries.**

If the batteries on the machine are weak or discharged, use booster batteries to start the engine. Never try to start the engine by towing or pushing. Use the following procedures:

1. Make sure that the parking brake is applied and the battery disconnect switch is in the OFF position (see page 2-8-3).
2. To prevent damage to the alternator, use care not to reverse the battery connections. Immediate damage to the alternator can be caused by making an incorrect connection during the starting procedure.



### WARNING

**Batteries contain sulfuric acid which can cause severe burns. Avoid contact with skin, eyes or clothing.**

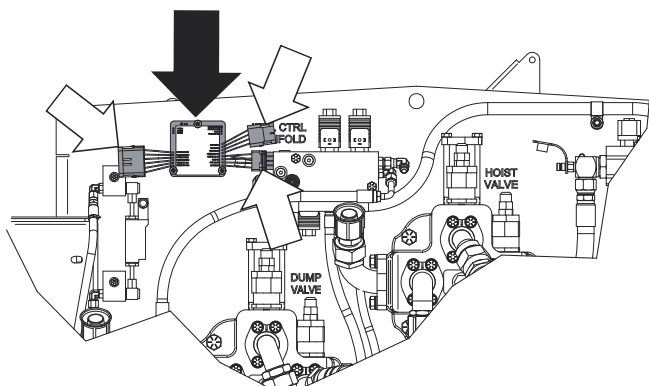
3. Connect one jumper cable to the (+) positive terminal of the booster battery. Connect the other end of the same cable to the (+) positive terminal on the machine's battery.

4. Connect the jumper cable to (-) negative terminal of the booster battery. Connect the other end of this cable to a good ground connection on the machine's frame, away from the battery. This procedure will prevent a spark near the battery that could cause an explosion.
5. Start the engine in the normal manner.
6. After engine has been started, disconnect the negative cable first, then remove the positive cable.

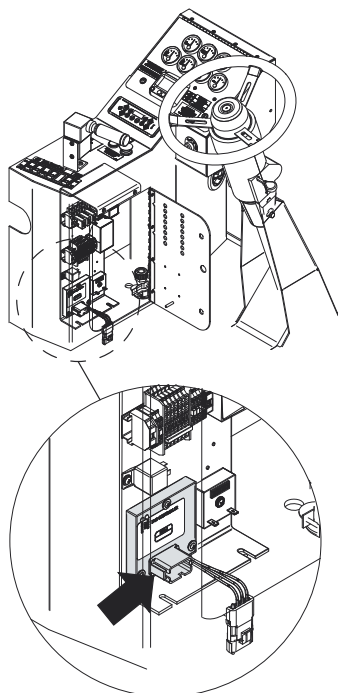


### WARNING

**When removing battery terminals, always disconnect the (-) negative cable first. When installing battery terminals, always connect the (-) negative cable last. This procedure can prevent a spark at the battery which could cause an explosion. Always make the last cable connection away from the battery, such as on the engine block. Use care to keep the cables clear of the fan or any other moving parts.**



*Figure 4-3-1 Hydraulic Fan Controller located on valve plate behind cab.*



*Figure 4-3-2 Radiator Fan Controller located in Control Console.*