

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST B: CHARGING SYSTEM TEST — IAR GENERATOR (Continued)

| TEST STEP | RESULT | ACTION TO TAKE |
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| B11 LOAD TEST REPEAT — 'F' TERMINAL | | |
| <ul style="list-style-type: none"> Connect a jumper wire from generator rear housing to regulator 'F' terminal. Repeat load test measuring voltage at Battery Positive Voltage (B+) output terminal. Does voltage rise 0.5 volt or more? | Yes | REPLACE regulator. GO to B2. |
| | No | REPLACE generator assembly. GO to B2. |
| B12 OVER-VOLTAGE TEST | | |
| <ul style="list-style-type: none"> Turn ignition to RUN position (engine not running). Measure voltage at regulator 'A' terminal and starter solenoid. Is voltage difference 0.5 volt or less? | Yes | GO to B13. |
| | No | SERVICE A circuit wiring. GO to B2. |
| B13 REGULATOR GROUND CHECK | | |
| <ul style="list-style-type: none"> Check for loose regulator ground screws. Is ground OK? | Yes | GO to B14. |
| | No | SERVICE ground screws. GO to B2. |
| B14 ENGINE GROUND CHECK | | |
| <ul style="list-style-type: none"> Check for bad engine ground. Is ground OK? | Yes | GO to B15. |
| | No | SERVICE engine ground. GO to B2. |
| B15 GENERATOR GROUND CHECK | | |
| <ul style="list-style-type: none"> Check generator ground. Is ground OK? | Yes | GO to B16. |
| | No | SERVICE generator ground. GO to B2. |
| B16 REPEAT NO LOAD TEST | | |
| <ul style="list-style-type: none"> Start engine, run at 1500 rpm with no electrical load. Voltage should increase but not more than 3 volts. Does voltage increase more than 3 volts? | No | GO to B3. |
| | Yes | GO to B17. |
| B17 'A' AND 'F' VOLTAGE CHECKS | | |
| <ul style="list-style-type: none"> Turn ignition OFF. Measure voltage at regulator 'A' and 'F' terminals. Terminal voltages should be the same as battery voltage. Is there battery voltage at both terminals? | Yes | REPLACE regulator. GO to B2. |
| | No | REPLACE generator assembly. GO to B2. |

TJ3058E

REMOVAL AND INSTALLATION

WARNING: BATTERIES NORMALLY PRODUCE EXPLOSIVE GASES WHICH CAN CAUSE PERSONAL INJURY. THEREFORE, DO NOT ALLOW FLAMES, SPARKS OR LIGHTED SUBSTANCES TO COME NEAR THE BATTERY. WHEN CHARGING OR WORKING NEAR A BATTERY, ALWAYS SHIELD YOUR FACE AND PROTECT YOUR EYES. ALWAYS PROVIDE VENTILATION.

WHEN LIFTING A PLASTIC-CASED BATTERY, EXCESSIVE PRESSURE ON THE END WALLS COULD CAUSE ACID TO SPEW THROUGH THE VENT CAPS, RESULTING IN PERSONAL INJURY. LIFT WITH A BATTERY CARRIER OR WITH YOUR HANDS ON OPPOSITE CORNERS.

WARNING: KEEP BATTERIES OUT OF REACH OF CHILDREN. BATTERIES CONTAIN SULFURIC ACID. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. ALSO, SHIELD YOUR EYES WHEN WORKING NEAR THE BATTERY TO PROTECT AGAINST POSSIBLE SPLASHING OF THE ACID SOLUTION. IN CASE OF ACID CONTACT WITH THE SKIN, EYES OR CLOTHING, FLUSH IMMEDIATELY WITH WATER FOR A MINIMUM OF FIFTEEN MINUTES. IF ACID IS SWALLOWED, DRINK LARGE QUANTITIES OF MILK OR WATER, FOLLOWED BY MILK OF MAGNESIA, A BEATEN EGG, OR VEGETABLE OIL. CALL A PHYSICIAN IMMEDIATELY.