

| Action No. | Description of action. | Teacher use only | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------|---------------------|-------------------|--|------|--|--|---|----|--|--|--------------------------------|-------|--|--|---|------|--|--|--|
| 1 | Identify the make and model of the engine or vehicle. Make: _____ Model: _____ | ✓=acceptable X=unacceptable Not assessable. | | | | | | | | | | | | | | | | | | | | |
| 2 | Industry standard voltage drops Per connection 0.1 volt Positive side of circuit 0.5 volt Across the solenoid 1.0 volt Earth side of circuit 0.2 volt | | | | | | | | | | | | | | | | | | | | | |
| 3 | VOLTAGE DROP TESTING Measure and record the voltage drops in the table below <table border="1" data-bbox="283 1025 1122 1816"> <thead> <tr> <th data-bbox="283 1025 514 1144">Specified test point</th> <th data-bbox="514 1025 722 1144">Maximum allowable voltage drop</th> <th data-bbox="722 1025 931 1144">Actual voltage drop</th> <th data-bbox="931 1025 1122 1144">Acceptable Y or N</th> </tr> </thead> <tbody> <tr> <td data-bbox="283 1144 514 1330">Battery positive terminal to solenoid B + terminal</td> <td data-bbox="514 1144 722 1330">0.5v</td> <td data-bbox="722 1144 931 1330"></td> <td data-bbox="931 1144 1122 1330"></td> </tr> <tr> <td data-bbox="283 1330 514 1480">Across the solenoid B + and MOTOR terminals</td> <td data-bbox="514 1330 722 1480">1v</td> <td data-bbox="722 1330 931 1480"></td> <td data-bbox="931 1330 1122 1480"></td> </tr> <tr> <td data-bbox="283 1480 514 1630">Solenoid M and starter housing</td> <td data-bbox="514 1480 722 1630">9.6v.</td> <td data-bbox="722 1480 931 1630"></td> <td data-bbox="931 1480 1122 1630"></td> </tr> <tr> <td data-bbox="283 1630 514 1816">Starter housing and battery negative terminal</td> <td data-bbox="514 1630 722 1816">0.2v</td> <td data-bbox="722 1630 931 1816"></td> <td data-bbox="931 1630 1122 1816"></td> </tr> </tbody> </table> <p data-bbox="283 1845 1122 2002">VOLTAGE DROPS ARE MEASURED WHEN CRANKING WITH A FULLY CHARGED BATTERY</p> | Specified test point | Maximum allowable voltage drop | Actual voltage drop | Acceptable Y or N | Battery positive terminal to solenoid B + terminal | 0.5v | | | Across the solenoid B + and MOTOR terminals | 1v | | | Solenoid M and starter housing | 9.6v. | | | Starter housing and battery negative terminal | 0.2v | | | Correct allowable voltage drop recorded Actual voltage drop within 0.1 volts Correct determination on condition recorded |
| Specified test point | Maximum allowable voltage drop | Actual voltage drop | Acceptable Y or N | | | | | | | | | | | | | | | | | | | |
| Battery positive terminal to solenoid B + terminal | 0.5v | | | | | | | | | | | | | | | | | | | | | |
| Across the solenoid B + and MOTOR terminals | 1v | | | | | | | | | | | | | | | | | | | | | |
| Solenoid M and starter housing | 9.6v. | | | | | | | | | | | | | | | | | | | | | |
| Starter housing and battery negative terminal | 0.2v | | | | | | | | | | | | | | | | | | | | | |