mini tune

AUTOMOTIVE DIAGNOSTIC EQUIPMENT

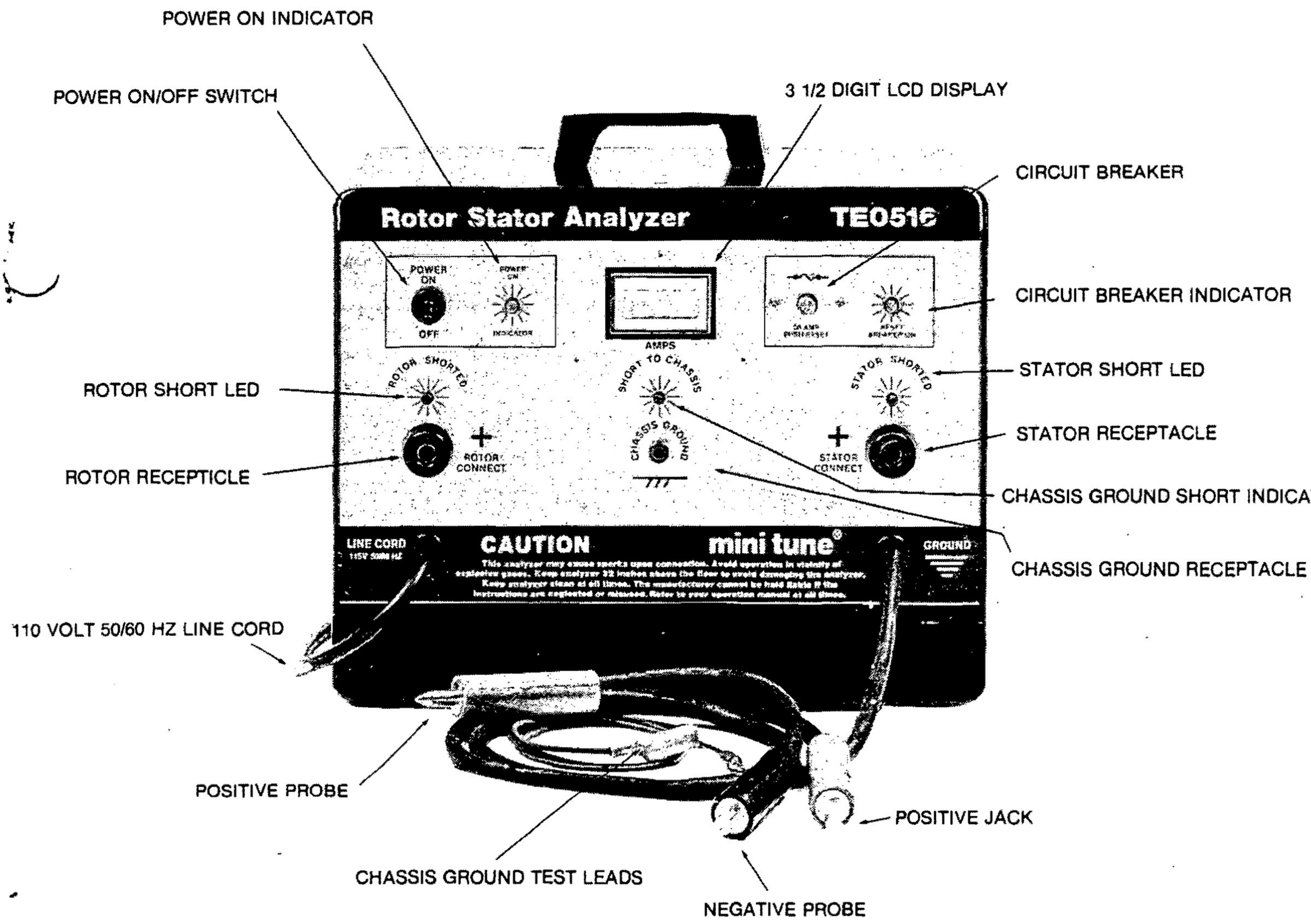
ROTOR STATOR ANALYZER

MODEL TE 516

Operation Instructions

#PE 516

TE 516 COMPONENT DESCRIPTION



STATOR TESTING PROCEDURE

STEP 1. TURN THE POWER ON/OFF SWITCH TO THE ON POSITION. (THE POWER ON INDICATOR SHOULD BE THE ONLY LIGHT ON AT THIS POINT.)

STEP 2. REMOVE TEST CABLES FROM THE STORAGE AREA AND INSERT THE RED CABLE JACK INTO THE STATOR RECEPTACLE. (BE SURE THAT THE RED AND BLACK PROBES DO NOT SHORT TO ONE ANOTHER.)

STEP 3. (OPTIONAL) INSERT THE GREEN BANANA JACK INTO THE CHASSIS GROUND RECEPTACLE.

STEP 4. THE DIGITAL DISPLAY SHOULD REACH APPROXIMATELY ZERO AMPS.

STEP 5. (OPTIONAL) CONNECT THE GREEN ALLIGATOR CLIP TO THE CORE OF THE STATOR.

STEP 6. HOLDING THE RED AND BLACK TEST PROBES, ONE IN EACH HAND, MEASURE THE STATOR CURRENT BY CONNECTING THE PROBE TO EACH SIDE OF THE STATOR WINDINGS. (MEASURE THE STATOR CURRENT THROUGH EACH TAP ON THE STATOR.)

STEP 7. OBSERVE THE AMMETER AS YOU MAKE EACH INDIVIDUAL MEASUREMENT OF THAT STATOR. STATOR CURRENTS VARY FROM 20 TO 150 AMPS.

STEP 8. OBSERVE THE LED DIRECTLY ABOVE THE STATOR RECEPTACLE. THIS LED WILL INDICATE IF ANY STATOR WINDING IS SHORTED.

STEP 9. OBSERVE THE LED LABELED "SHORT TO CHASSIS". IF THIS LED LIGHTS DURING ANY OF THE MEASUREMENTS, THAT INDICATES THAT THE STATOR WINDING IS SHORTED TO THE CORE OF THAT STATOR.

STEP 10. REMOVE THE PROBE FROM THE STATOR AND EITHER REPEAT THIS PROCESS, STEPS 4-10, ON MORE STATORS, OR TURN THE POWER ON/OFF SWITCH TO THE OFF POSITION.

STEP 11. REMOVE THE RED JACK FROM THE STATOR RECEPTACLE AND STORE IT UNDER THE ANALYZER.

STEP 12. REMOVE THE GREEN BANANA JACK FROM THE "SHORT TO CHASSIS" RECEPTACLE AND STORE IT UNDER THE ANALYZER.

ROTOR TESTING PROCEDURE

STEP 1. TURN THE POWER ON/OFF SWITCH TO THE ON POSITION. (THE POWER ON INDICATOR SHOULD BE THE ONLY LIGHT ON AT THIS POINT.)

STEP 2. REMOVE TEST CABLES FROM THE STORAGE AREA AND INSERT THE RED CABLE JACK INTO THE ROTOR RECEPTACLE. (BE SURE THAT THE RED AND BLACK PROBES DO NOT SHORT TO ONE ANOTHER.)

STEP 3. (OPTIONAL) INSERT THE GREEN BANANA JACK INTO THE CHASSIS GROUND RECEPTACLE.

STEP 4. THE DIGITAL DISPLAY SHOULD READ APPROXIMATELY ZERO AMPS.

STEP 5. (OPTIONAL) CONNECT THE GREEN ALLIGATOR CLIP TO THE CORE OF THE ROTOR.

STEP 6. HOLDING THE RED AND BLACK TEST PROBES, ONE IN EACH HAND, MEASURE THE ROTOR CURRENT BY TOUCHING ONE PROBE TO EACH BRUSH PAD.

STEP 7. OBSERVE THE AMMETER. THE READING ON THE METER IS ACCURATE TO PLUS OR MINUS .1 AMPS. (TYPICAL ROTOR CURRENTS RANGE FROM 2-6 AMPS.)

STEP 8. OBSERVE THE LED DIRECTLY ABOVE THE ROTOR RECEPTACLE. THIS LED WILL INDICATE IF THE ROTOR IS SHORTED.

STEP 9. OBSERVE THE LED LABELED "SHORT TO CHASSIS". IF THIS LED IS LIT, THEN THE ROTOR WINDINGS ARE SHORTING TO THE ROTOR CORE.

STEP 10. REMOVE THE PROBES FROM THE ROTOR'S BRUSH PADS AND EITHER REPEAT THIS PROCESS, STEPS 4-10, ON MORE ROTORS, OR TURN THE POWER ON/OFF SWITCH TO THE OFF POSITION.

STEP 11. REMOVE THE RED JACK FROM THE ROTOR RECEPTACLE AND STORE IT UNDER THE ANALYZER.

STEP 12. REMOVE THE GREEN BANANA JACK FROM THE "SHORT TO CHASSIS" RECEPTACLE AND STORE IT UNDER THE ANALYZER.