

GROUP 5 ELECTRICAL SYSTEM

Trouble	Probable cause	Remedy
Starter will not engage	<ul style="list-style-type: none"> · Battery discharged · Loose or disconnected wiring · Defective solenoid · Defective starter 	<ul style="list-style-type: none"> · Check and charge battery. Replace if required. · Check and repair. · Check and replace, if required. · Check and replace, if required.
Starter motor engages, but engine dose not turn over	<ul style="list-style-type: none"> · Defective overrunning clutch 	<ul style="list-style-type: none"> · Replace.
Pinion engages, but starter motor does not turn over	<ul style="list-style-type: none"> · Defective starter · Defective solenoid 	<ul style="list-style-type: none"> · Check and replace, if required. · Check and replace, if required.
Starter motor rotates at full speed before pinion engages	<ul style="list-style-type: none"> · Defective pinion spring 	<ul style="list-style-type: none"> · Replace.
Starter does not disengage after engine starts	<ul style="list-style-type: none"> · Faulty ignition switch · Defective solenoid 	<ul style="list-style-type: none"> · Check and replace, if required. · Check and replace, if required.
Battery low in charge or discharged	<ul style="list-style-type: none"> · Drive belt slipping · Defective battery · Faulty wiring or connections · Defective regulator · Dirty alternator slip rings or brushes 	<ul style="list-style-type: none"> · Adjust. · Check and replace, if required. · Check and repair. · Check and replace, if required. · Check and repair.
Alternator overcharging and battery overheats	<ul style="list-style-type: none"> · Defective battery · Defective voltage regulator · Defective alternator 	<ul style="list-style-type: none"> · Check and replace, if required. · Check and replace, if required. · Check and replace, if required.
Low or no output from alternator	<ul style="list-style-type: none"> · Drive belt slipping · Faulty wiring or connections · Defective voltage regulator · Defective rectifier 	<ul style="list-style-type: none"> · Adjust. · Check and repair. · Check and replace, if required. · Check and replace, if required.
Charge indicator lamp dims	<ul style="list-style-type: none"> · Faulty wiring or connections · Dirty slip rings or brushes 	<ul style="list-style-type: none"> · Check and repair. · Check and repair.

Trouble	Probable cause	Remedy
Charge indicator goes out, but becomes brighter with increased speed	<ul style="list-style-type: none"> · Faulty wiring or connections · Defective rectifier 	<ul style="list-style-type: none"> · Check and repair. · Check and replace, if required.
Charge indicator lamp ON with engine running	<ul style="list-style-type: none"> · Drive belt slipping · Defective alternator or regulator 	<ul style="list-style-type: none"> · Adjust. Perform alternator voltage output test. Perform alternator current output test. · Perform alternator B circuit voltage test. Perform alternator E circuit continuity test. Perform alternator F circuit continuity test. Perform regulator L circuit continuity test. Perform regulator F circuit continuity test. Perform regulator B circuit continuity test.
Charge indicator lamp is OFF when starter switch is ON, but engine is not running	<ul style="list-style-type: none"> · Defective indication lamp · Defective wiring 	<ul style="list-style-type: none"> · Check and replace, if required. · Check wiring continuity between lamp and ignition switch. Check wiring continuity between lamp and regulator L terminal. Check L circuit continuity between regulator L and E.