GROUP 5 ELECTRICAL SYSTEM

Trouble	Probable cause	Remedy
Starter will not engage	Battery discharged	Check and charge battery. Replace if required.
	· Loose or disconnected wiring	· Check and repair.
	· Defective solenoid	· Check and replace, if required.
	Defective starter	· Check and replace, if required.
Starter motor engages, but engine dose not turn over		· Replace.
Pinion engages, but	Defective starter	· Check and replace, if required.
starter motor does not turn over	Defective solenoid	Check and replace, if required.
Starter motor rotates at full speed before pinion engages		· Replace.
Starter does not disengage after engine starts	, ,	Check and replace, if required.
	Defective solenoid	. Check and replace, if required.
Battery low in charge or	Drive belt slipping	. Adjust.
discharged	· Defective battery	Check and replace, if required.
	· Faulty wiring or connections	. Check and repair.
	· Defective regulator	· Check and replace, if required.
	Dirty alternator slip rings or brushes	Check and repair.
Alternator overcharging	Defective battery	Check and replace, if required.
and battery overheats	· Defective voltage regulator	· Check and replace, if required.
	· Defective alternator	Check and replace, if required.
Low or no output from	Drive belt slipping	· Adjust.
alternator	· Faulty wiring or connections	· Check and repair.
	· Defective voltage regulator	· Check and replace, if required.
	· Defective rectifier	Check and replace, if required.
Charge indicator lamp	Faulty wiring or connections	· Check and repair.
dims	· Dirty slip rings or brushes	· Check and repair.

Trouble	Probable cause	Remedy
Charge indicator goes out, but becomes brighter with increased speed	, ,	Check and repair. Check and replace, if required.
Charge indicator lamp ON with engine running	Drive belt slippingDefective alternator	Adjust. Perform alternator voltage output test. Perform alternator current output test. Perform alternator B circuit voltage test. Perform alternator L circuit continuity test. Perform alternator I circuit continuity test.
Charge indicator lamp is OFF when starter switch is ON, but engine is not running	Defective indication lamp Defective wiring	Check and replace, if required. Check wiring continuity between lamp and lignition switch. Check wiring continuity between lamp and alternator L terminal.