Symptom	Possible cause	Action
Charge warning lamp does not come on	 Bulb/Circuit fault Generator fault CAN circuit fault ECM fault 	Check the warning lamp function with the ignition on and the engine off. Replace bulbs or repair the circuit(s) as necessary. Check for DTCs indicating a generator, CAN or ECM fault.
Charge warning lamp stays on/battery discharges	 Accessory drive belt broken Generator pulley slipping on shaft Generator fault Battery cable fault CAN circuit fault ECM fault 	Check the battery and generator cables. Refer to the electrical guides. Check for DTCs indicating a generator fault. Check the accessory drive belt condition and tension (see visual inspection chart). Check that the pulley does not rotate independently of the generator. Check for DTCs indicating a CAN or ECM fault.
Charge warning lamp intermittent	 Accessory drive belt slipping Battery cable fault Generator wiring fault Generator fault CAN circuit fault 	Check the accessory drive belt condition and tension (see visual inspection chart). Check the battery and generator cables. Refer to the electrical guides. Check for DTCs indicating a generator or CAN circuit fault. Note that the use of a power pack or boost charger may bring the warning lamp on until disconnected.
Battery discharges without the charge warning lamp staying on	 Battery fault Battery quiescent drain Intermittent generator fault 	Check the battery condition, check for battery quiescent drain. Check for DTCs indicating a generator fault. It is possible for the altcom circuit to short circuit to ground without setting a DTC. If no other reason for discharge can be found, check this circuit. Refer to the electrical guides.
Noise (mechanical)	 Accessory drive belt slipping Generator fault 	Check the accessory drive belt condition and tension (see visual inspection chart). Disconnect the accessory drive belt and check that the generator rotates freely.

RRS - Charging System - Symptom Chart