

Connection diagram

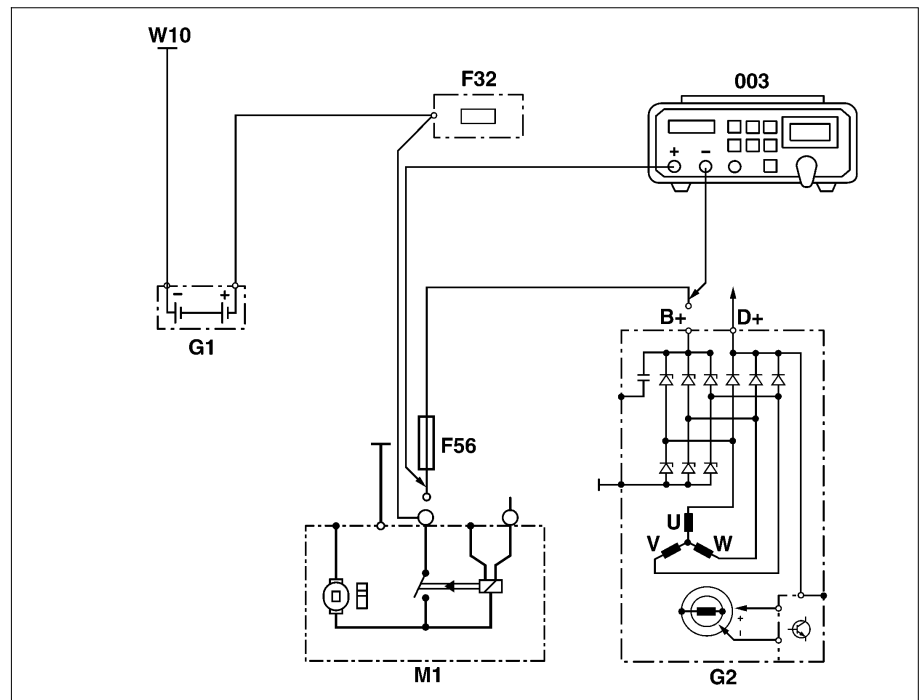
003 Multimeter

F56 Starter, alternator fuse (in wiring harness)











G1 Battery

G2 Alternator

M1 Starter



P15.40-2261-06

	Remove/install		
1 	<p>Risk of explosion caused by escaping oxyhydrogen gas. Risk of injury caused by caustic burns to eyes, skin and mucous membranes from battery electrolyte (contains diluted sulfuric acid) or metal spatter due to short circuit. Risk of burn injuries caused by short circuit. Risk of poisoning caused by swallowing battery electrolyte (contains diluted sulfuric acid) or absorption of lead over the skin or orifices</p> <p>Disconnect ground line at the battery (G1)</p> <p>Notes on battery</p>	<p>No fire, sparks, open flames or smoking. Wear acid-resistant gloves and clothing and safety glasses with side guards. Do not place any conductive objects on the battery and avoid any short circuit from battery positive to ground. Only fill liquid battery electrolyte (diluted sulfuric acid) into suitable and appropriately marked containers.</p> <p> Insulate ground line clamp as a protection against unintentional contact of dismantled ground line with ground point of battery.</p> <p>Model 211.0 Model 211.2 Model 219</p>	<p>AS54.10-Z-0001-01A</p> <p>AH54.10-P-0001-01A AR54.10-P-0003T AR54.10-P-0003TA AR54.10-P-0003TX</p>
2	Remove engine compartment paneling	Model 211 Model 219	AR61.20-P-1105T AR61.20-P-1105TX
3	Dismount nut of connection circuit 30 at starter (M1)	 Engine 156  Engines 272, 273	*BA15.30-P-1001-01O *BA15.30-P-1001-01J
4	Unscrew nut for connection B+ on alternator (G2)	 Engine 156  Engines 272, 273	*BA15.40-P-1002-01P *BA15.40-P-1002-01F
	Check		
5	Connect multimeter (003) according to connection schematic	 Multimeter	*WH58.30-Z-1001-09A
6	Check starter and alternator fuse (in wiring harness) (F56)	 The starter and alternator fuse (in wiring harness) (F56) is integrated in the wiring harness.  If resistance >1Ω, then the wiring harness is defective and must be replaced.	
7	Install in the reverse order		

 Starter

Number	Designation	Engine 272, 273

BA15.30-P-1001-01J	Nut for connection of circuit 30	Nm	15

Nm Starter

Number	Designation		Engine 156
BA15.30-P-1001-01O	Nut for connection of circuit 30	Nm	15

Nm Alternator

Number	Designation		Engine 272	Engine 273
BA15.40-P-1002-01F	Nut of circuit B+ to generator	Nm	15	15

Nm Alternator

Number	Designation		Engine 156
BA15.40-P-1002-01P	Nut of circuit B+ to generator	Nm	18

Commercially available tools

Number	Designation
WH58.30-Z-1001-09A	Multimeter