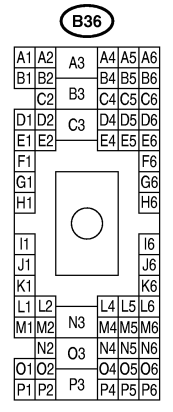
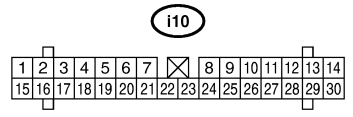
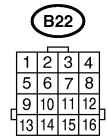
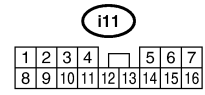
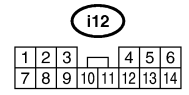
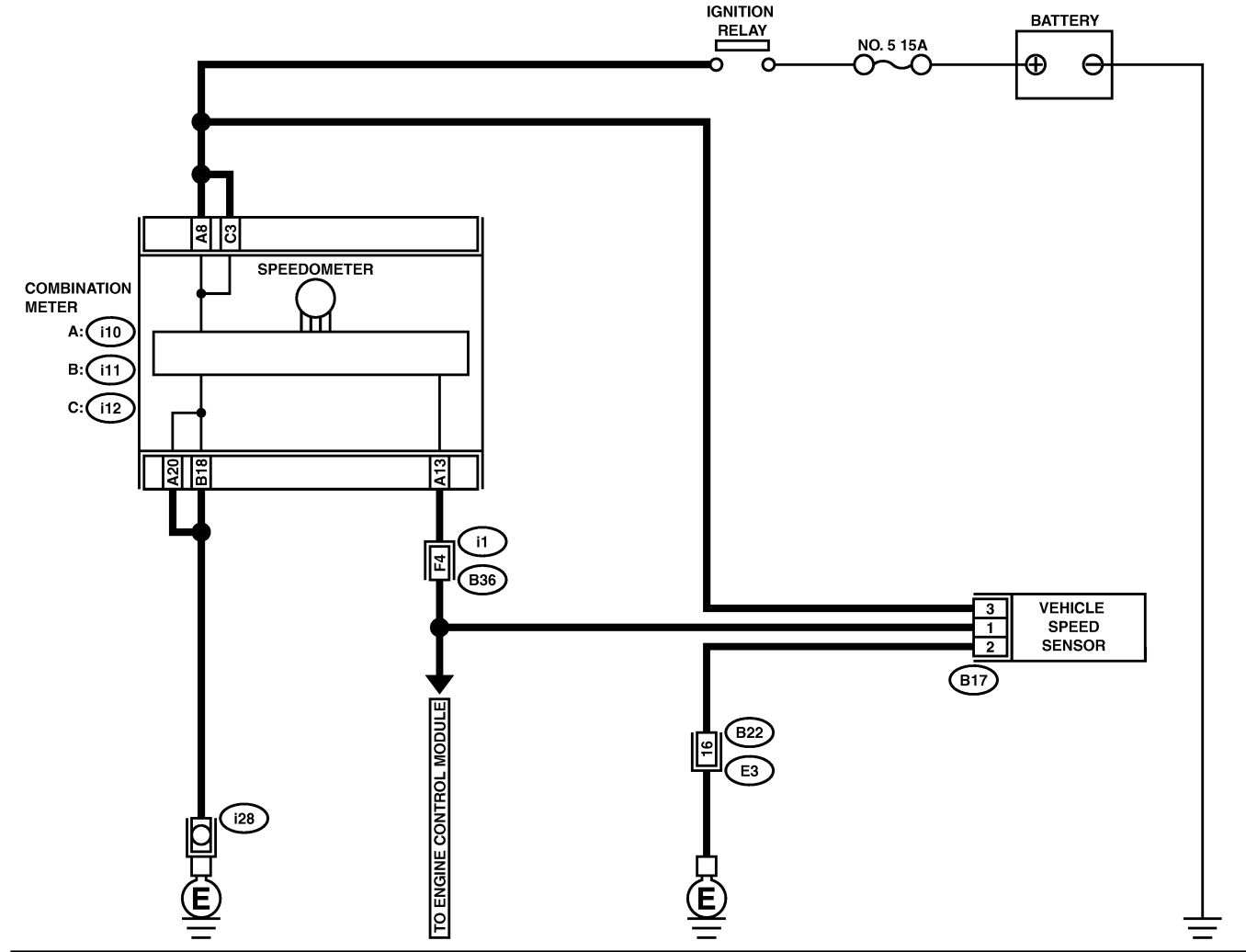


SPEEDOMETER SYSTEM

Manual Transmission and Differential

2. Speedometer System S503220

A: SCHEMATIC S503220A21



B3M1979

SPEEDOMETER SYSTEM

Manual Transmission and Differential

B: INSPECTION S503220A10

No.	Step	Check	Yes	No
1	CHECK HARNESS CONNECTOR BETWEEN BATTERY AND VEHICLE SPEED SENSOR. 1) Disconnect connector from vehicle speed sensor. 2) Turn ignition switch to ON (engine OFF). 3) Measure voltage between vehicle speed sensor and chassis ground. Connector & terminal (B17) No. 3 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 2.	Repair harness connector between battery and vehicle speed sensor.
2	CHECK HARNESS CONNECTOR BETWEEN VEHICLE SPEED SENSOR AND ENGINE GROUND. 1) Turn ignition switch to OFF. 2) Measure resistance between vehicle speed sensor and engine ground. Connector & terminal (B17) No. 2 — Engine ground:	Is the resistance less than 10 Ω?	Go to step 3.	Repair harness connector between vehicle speed sensor and engine ground.
3	CHECK HARNESS CONNECTOR BETWEEN COMBINATION METER AND VEHICLE SPEED SENSOR. 1) Disconnect connector combination meter. 2) Measure resistance between combination meter and vehicle speed sensor. Connector & terminal (B17) No. 1 — (i10) No. 13:	Is the resistance less than 10 Ω?	Go to step 4.	Repair harness connector between combination meter and vehicle speed sensor.
4	CHECK HARNESS CONNECTOR BETWEEN COMBINATION METER AND VEHICLE SPEED SENSOR. Measure resistance between vehicle speed sensor and chassis ground. Connector & terminal (B17) No. 1 — Chassis ground:	Is the resistance less than 1 MΩ ?	Go to step 5.	Repair harness connector between combination meter and vehicle speed sensor.
5	CHECK VEHICLE SPEED SENSOR. 1) Connect connector to vehicle speed sensor and combination meter. 2) Set the vehicle on flee roller, or lift-up the vehicle and support with safety stands. WARNING: Be careful not to be caught up by the running wheels. 3) Set oscilloscope to vehicle speed sensor terminal. Positive probe; (B17) No. 1 Earth lead; (B17) No. 2 4) Drive the vehicle at speed greater than 20 km /h (12 MPH). 5) Measure signal voltage indicated on oscilloscope.	Is the voltage more than 5 V?	Go to step 6.	Replace the vehicle speed sensor.
6	CHECK COMBINATION METER. Inspect combination meter. <Ref. to IDI-10 INSPECTION, Combination Meter System.>	Is the combination meter normal?	Go to step 7.	Repair or replace the combination meter.
7	CHECK POOR CONTACT.	Is there poor contact in speedometer system circuit?	Repair poor contact.	Repair harness and connector.