

Clock System

INSTRUMENTATION/DRIVER INFO

3. Clock System

A: WIRING DIAGRAM

1. CLOCK

<Ref. to WI-175, WIRING DIAGRAM, Clock System.>

B: INSPECTION

1. SYMPTOM CHART

Symptom	Repair order	Reference
No display is shown.	(1) Power supply (2) Clock body	<Ref. to IDI-13, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Clock System.>
Illumination does not illuminate.	(1) Illumination power supply (2) Clock body	<Ref. to IDI-13, CHECK ILLUMINATION CIRCUIT, INSPECTION, Clock System.>
Brightness does not change even when bright switch is pressed.	(1) Bright switch (2) Clock body	<Ref. to IDI-13, CHECK BRIGHT CIRCUIT, INSPECTION, Clock System.>
"Acc" or "ign" is displayed.	ACC or ignition power supply	<Ref. to IDI-14, CHECK ACC OR IGNITION POWER SUPPLY, INSPECTION, Clock System.>
"Err" is displayed in all items.	(1) Communication circuit between combination meter and clock (2) Clock body	<Ref. to IDI-14, CHECK COMMUNICATION CIRCUIT, INSPECTION, Clock System.>
"Err" is displayed when a specified item is selected.	Communication circuit between combination meter and each control module	<Ref. to IDI-11, COMMUNICATION ERROR DISPLAY, INSPECTION, Combination Meter System.>

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Step	Check	Yes	No
1 CHECK CLOCK POWER SUPPLY. 1) Disconnect the clock harness connector. 2) Measure the voltage between clock harness connector and chassis ground. Connector & terminal (i59) No. 10 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 2.	Check the harness for open or short between fuse and clock.
2 CHECK CLOCK GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between clock harness connector and chassis ground. Connector & terminal (i59) No. 6 — Chassis ground:	Is the resistance less than 10 Ω ?	Replace the clock body.	Repair the wiring harness.

3. CHECK ILLUMINATION CIRCUIT

Step	Check	Yes	No
1 CHECK ILLUMINATION CIRCUIT POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the clock harness connector. 3) Turn the ignition switch and lighting switch to ON. 4) Measure the voltage between clock harness connector and chassis ground. Connector & terminal (i59) No. 1 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the clock body.	Check the harness for open or short between fuse and clock.

4. CHECK BRIGHT CIRCUIT

Step	Check	Yes	No
1 CHECK BRIGHT CIRCUIT POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the clock harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between clock harness connector and chassis ground. Connector & terminal (i59) No. 2 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the clock body.	Go to step 2.
2 CHECK HARNESS BETWEEN CLOCK AND BODY INTEGRATED UNIT. 1) Turn the ignition switch to OFF. 2) Disconnect harness connector of body integrated unit. 3) Measure the resistance between clock harness connector and body integrated unit harness connector. Connector & terminal (i59) No. 2 — (i84) No. 30:	Is the resistance less than 10 Ω ?	Replace the body integrated unit.	Repair the wiring harness.

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5. CHECK ACC OR IGNITION POWER SUPPLY

Step	Check	Yes	No
1 CHECK ACC POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the clock harness connector. 3) Turn the ignition switch to ACC. 4) Measure the voltage between clock harness connector and chassis ground. Connector & terminal <i>(i59) No. 9 (+) — Chassis ground (-):</i>	Is the voltage more than 10 V?	Go to step 2.	Check the open circuit in harness between fuse and clock.
2 CHECK THE IGNITION POWER SUPPLY. 1) Turn the ignition switch to ON. 2) Measure the voltage between clock harness connector and chassis ground. Connector & terminal <i>(i59) No. 8 (+) — Chassis ground (-):</i>	Is the voltage more than 10 V?	Replace the clock body.	Check the open circuit in harness between fuse and clock.

6. CHECK COMMUNICATION CIRCUIT

Step	Check	Yes	No
1 CHECK THE HARNESS BETWEEN CLOCK AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the harness of clock and combination meter. 3) Measure the resistance between harness connectors of clock and combination meter. Connector & terminal <i>(i59) No. 5 — (i10) No. 18:</i>	Is the resistance less than 10 Ω ?	Go to step 2.	Repair the wiring harness.
2 CHECK COMMUNICATION ERROR DISPLAY. 1) Connect all the disconnected connectors. 2) Turn the ignition switch to ON. 3) Check that the error code is displayed in odo/trip meter.	Is the error code "Er xx" displayed in odo/trip meter?	Check the communication circuit. <Ref. to IDI-11, COMMUNICATION ERROR DISPLAY, INSPECTION, Combination Meter System.>	Replace the clock body.