05MN5–01

# HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

The intelligent tester II can be used in steps 4, 5, 6 and 10.

| | |
|---|---|
| 1 | VEHICLE BROUGHT TO WORKSHOP |

NEXT

| | |
|---|---|
| 2 | CUSTOMER PROBLEM ANALYSIS (See page 05–91) |

NEXT

| | |
|---|---|
| 3 | INSPECT BATTERY VOLTAGE |

**Standard: 11 to 14 V**

If the voltage is below 11 V, recharge the battery before proceeding.

| | |
|---|---|
| 4 | CHECK MULTIPLEX COMMUNICATION SYSTEM (See Pub. No. RM1049E, page 05–3140) |

(a) Use the intelligent tester II to check if the Multiplex Communication System (MPX) is functioning normally.

**Result:**

| Result | Proceed to |
|---|---|
| MPX DTC is not output | A |
| MPX DTC is output | B |

B → Go to MULTIPLEX COMMUNICATION SYSTEM (See Pub. No. RM1049E, page 05–3140)

A

| | |
|---|---|
| 5 | CHECK CAN COMMUNICATION SYSTEM (See Pub. No. RM1049E, page 05–3306) |

(a) Use the intelligent tester II to check for normal function of CAN communication system.
   (1) Perform bus check (communication malfunction DTC).
   (2) Perform bus check (communication bus check).

**Result:**

| Result | Proceed to |
|---|---|
| DTC is not output | A |
| DTC is output | B |

B → Go to CAN COMMUNICATION SYSTEM (See Pub. No. RM1049E, page 05–3306)

A

| 6 | CHECK FOR DTC (See page 05–96) |
|---|---|

**Result:**

| Result | Proceed to |
|---|---|
| DTC is not output | A |
| DTC is output | B |
| DTCs are not output, and malfunction cannot be simulated or checked. | C |

B → Go to step 7

C → SYMPTOM SIMULATION (See page 05–92)

A

| 7 | PROBLEM SYMPTOMS TABLE (See page 05–92) |
|---|---|

**Result:**

| Result | Proceed to |
|---|---|
| Fault is not listed in problem symptos table | A |
| Fault is listed in problem symptos table | B |

B → Go to step 9

A

| 8 | OVERALL ANALYSIS AND TROUBLESHOOTING |
|---|---|

(a) Terminals of ECU (see page 05–93).
(b) Data List/Active Test (see page 05–98).

NEXT

| 9 | ADJUST, REPAIR OR REPLACE |
|---|---|

NEXT

| 10 | CONFIRMATION TEST |
|---|---|

NEXT

END