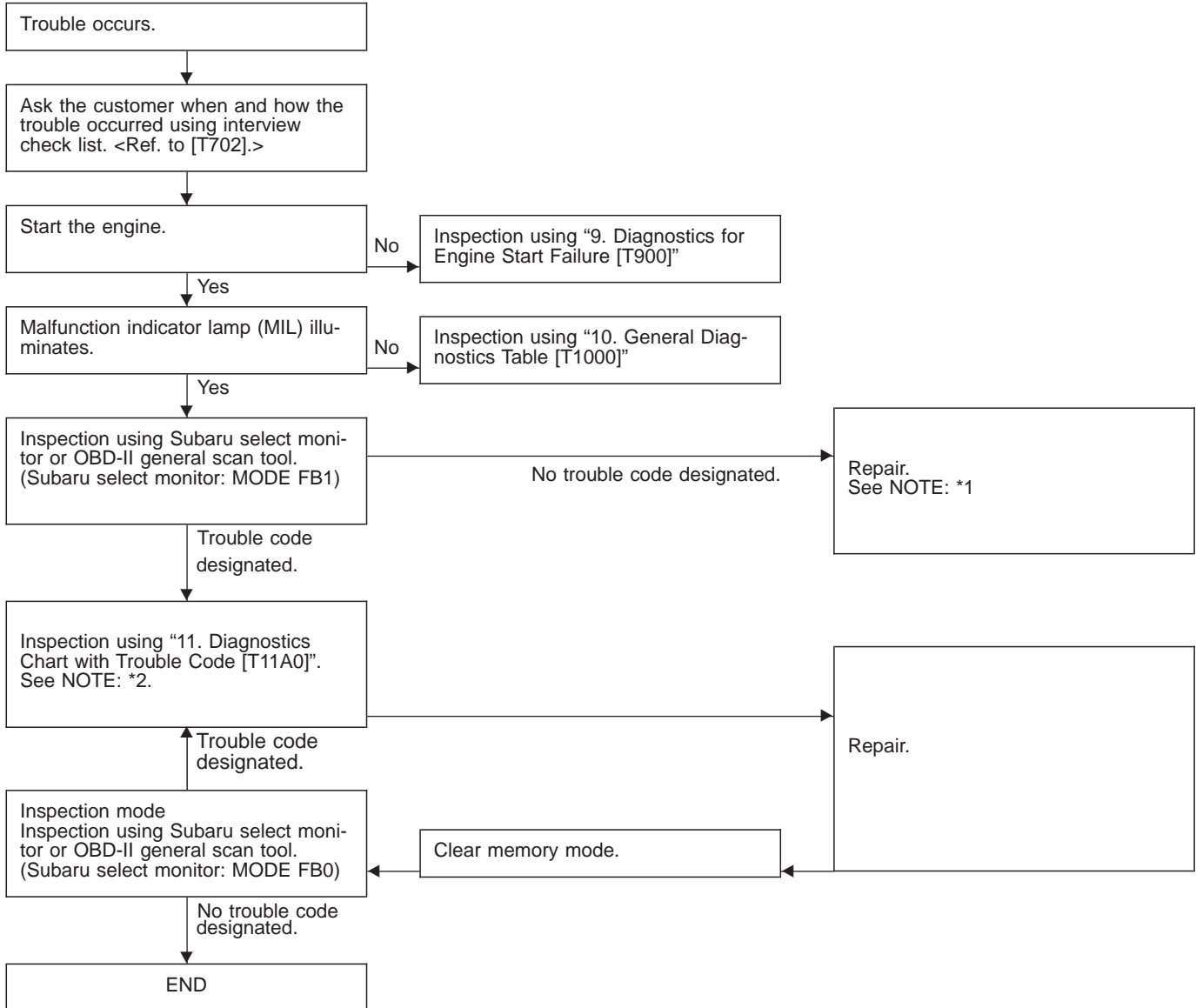


7. Basic Diagnostics Procedure



NOTE:

*1: If trouble code is not shown on display although the MIL illuminates, perform diagnostics of the MIL (CHECK ENGINE LIGHT) circuit or combination meter. <Refer to "8. Diagnostics for CHECK ENGINE Malfunction Indicator Lamp (MIL) [T800].">

*2: Carry out the basic check, only when trouble code about automatic transmission is shown on display. <Ref. to [T701].>

1. BASIC CHECK ITEMS FOR AT

When trouble code about automatic transmission is shown on display, carry out the following basic check. After that, carry out the replacement or repair work.

- 1) ATF level check
- 2) Differential gear oil level check
- 3) ATF leak check
- 4) Differential gear oil leak check
- 5) Brake band adjustment
- 6) Stall test
- 7) Line pressure test
- 8) Transfer clutch pressure test
- 9) Time lag test
- 10) Road test
- 11) Shift characteristics

NOTE:

As for the method, refer to 3-2 [W2A1].

2. CHECK LIST FOR INTERVIEW

Check the following items when problem occurred.

Customer's name		Engine no.	
Date of sale		Fuel brand	
Date of repair		Odometer reading	km miles
Vin no.			
Weather	<input type="checkbox"/> Fine <input type="checkbox"/> Cloudy <input type="checkbox"/> Rainy <input type="checkbox"/> Snowy <input type="checkbox"/> Various/Other__		
Outdoor Temperature	<input type="checkbox"/> Hot <input type="checkbox"/> Warm <input type="checkbox"/> Cool <input type="checkbox"/> Cold (approx. ___ °F/ ___ °C)		
Place	<input type="checkbox"/> Highway <input type="checkbox"/> Suburbs <input type="checkbox"/> Inner City <input type="checkbox"/> Uphill <input type="checkbox"/> Downhill <input type="checkbox"/> Rough road <input type="checkbox"/> Other _____		
Engine Temp.	<input type="checkbox"/> Cold <input type="checkbox"/> Warming-up <input type="checkbox"/> After warming-up <input type="checkbox"/> Any temp. <input type="checkbox"/> Other		
Engine speed			
Driving conditions	<input type="checkbox"/> Not affected <input type="checkbox"/> At starting <input type="checkbox"/> While idling <input type="checkbox"/> At racing <input type="checkbox"/> While accelerating <input type="checkbox"/> While cruising <input type="checkbox"/> While decelerating <input type="checkbox"/> While turning (RH/LH)		
	Vehicle speed		
Headlight	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Blower	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
A/C compressor	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Cooling fan	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Front wiper	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Rear wiper	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Rear defogger	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Radio	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
CD/Cassette	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
Car phone	<input type="checkbox"/> ON / <input type="checkbox"/> OFF		
CB			

NOTE: Use copies of this page for interviewing customers.

Check the following items about the vehicle's state when MIL turns on.

a) Other warning lights or indicators turn on. <input type="checkbox"/> Yes / <input type="checkbox"/> No
<input type="checkbox"/> ① Low fuel warning light
<input type="checkbox"/> ② Charge indicator light
<input type="checkbox"/> ③ AT diagnostics indicator light
<input type="checkbox"/> ④ ABS warning light
<input type="checkbox"/> ⑤ TCS warning light
<input type="checkbox"/> ⑥ Engine oil pressure warning light
b) Fuel level
● Lack of gasoline: <input type="checkbox"/> Yes / <input type="checkbox"/> No
● Indicator position of fuel gauge:
c) Intentional connecting or disconnecting of harness connectors or spark plug cords: <input type="checkbox"/> Yes / <input type="checkbox"/> No
● What:
d) Intentional connecting or disconnecting of hoses: <input type="checkbox"/> Yes / <input type="checkbox"/> No
● What:
e) Installing of parts other than genuine parts <input type="checkbox"/> Yes / <input type="checkbox"/> No
● What:
● Where:
f) Occurrence of noise <input type="checkbox"/> Yes / <input type="checkbox"/> No
● From where:
● What kind:
g) Occurrence of smell <input type="checkbox"/> Yes / <input type="checkbox"/> No
● From where:
● What kind:
h) Intrusion of water into engine compartment or passenger compartment <input type="checkbox"/> Yes / <input type="checkbox"/> No
i) Troubles occurred
<input type="checkbox"/> ① Engine does not start.
<input type="checkbox"/> ② Engine stalls during idling.
<input type="checkbox"/> ③ Engine stalls while driving.
<input type="checkbox"/> ④ Engine speed decreases.
<input type="checkbox"/> ⑤ Engine speed does not decrease.
<input type="checkbox"/> ⑥ Rough idling
<input type="checkbox"/> ⑦ Poor acceleration
<input type="checkbox"/> ⑧ Back fire
<input type="checkbox"/> ⑨ After fire
<input type="checkbox"/> ⑩ No shift
<input type="checkbox"/> ⑪ Excessive shift shock

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