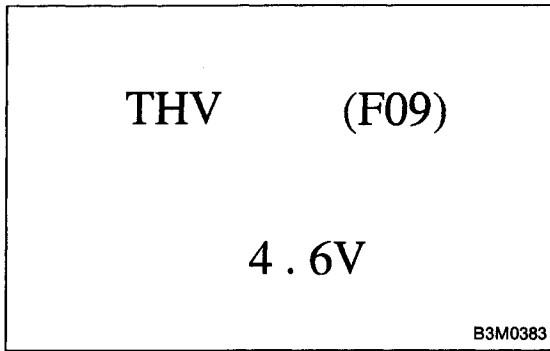


## 8. Diagnostic Chart with Select Monitor

### B: LIST OF OUTPUT MODES

#### 1. FUNCTION MODE

Mode	Contents	Abbr.	Unit	Contents of display	Page
F00	Mode display	—	—	AT or EGI mode (when monitor is connected.)	—
F01	Battery voltage	VB	V	Battery voltage applied to control unit.	—
F02	Vehicle speed sensor 1	VSP1	m/h	Vehicle speed (miles/h) sent from vehicle speed sensor 1.	—
F03	Vehicle speed sensor 1	VSP1	km/h	Vehicle speed (km/h) sent from vehicle speed sensor 1.	—
F04	Vehicle speed sensor 2	VSP2	m/h	Vehicle speed (miles/h) sent from vehicle speed sensor 2.	—
F05	Vehicle speed sensor 2	VSP2	km/h	Vehicle speed (km/h) sent from vehicle speed sensor 2.	—
F06	Engine speed	EREV	rpm	Engine speed sent from ECM.	—
F07	ATF temperature sensor	ATFT	°F	ATF temperature (°F) sent from ATF temperature sensor.	—
F08	ATF temperature sensor	ATFT	°C	ATF temperature (°C) sent from ATF temperature sensor.	—
F09	Throttle position sensor	THV	V	Voltage sent from throttle position sensor.	15
F10	Gear position	GEAR	—	Transmission gear position	—
F11	Line pressure duty	PLDTY	%	Duty ratio flowing through duty solenoid A.	16
F12	Lock-up duty	LUPTY	%	Duty ratio flowing through duty solenoid B.	17
F13	AWD duty	4WDTY	%	Duty ratio flowing through duty solenoid C.	18
F14	Throttle position sensor power supply	THVCC	V	Power supply voltage to throttle position sensor	19
F15	Mass air flow signal	AFM	V	Output voltage from air flow sensor	19



**I: MODE F09**

**— THROTTLE POSITION SENSOR (THV) —**

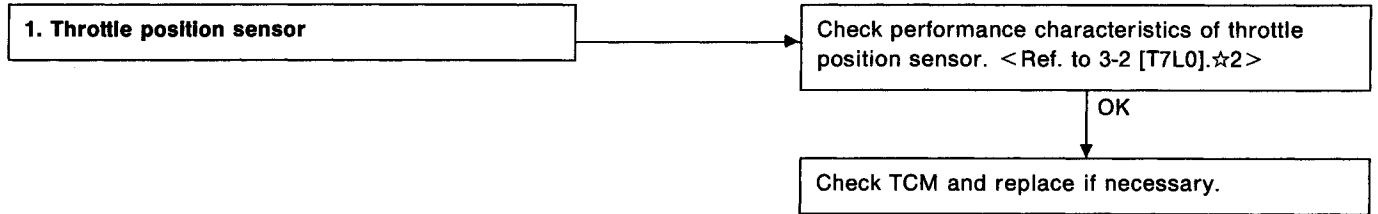
**CONDITION:**

- Ignition switch ON (with engine OFF)
- Measure voltage while operating throttle valve from a fully closed position to a fully open position.

**SPECIFIED DATA:**

- Fully closed position:  $0.5 \pm 0.2$  V
- Fully open position:  $4.6 \pm 0.3$  V
- From fully closed to fully open position: Voltage must smoothly decrease.
- Open harness:  $5.0 \pm 0.3$  V
- Shorted harness: 0.00 V

Probable cause (if outside "specified data")



**PLDTY**

**(F11)**

50%

G3M0731

**K: MODE F11**  
**— LINE PRESSURE DUTY (PLDTY) —**

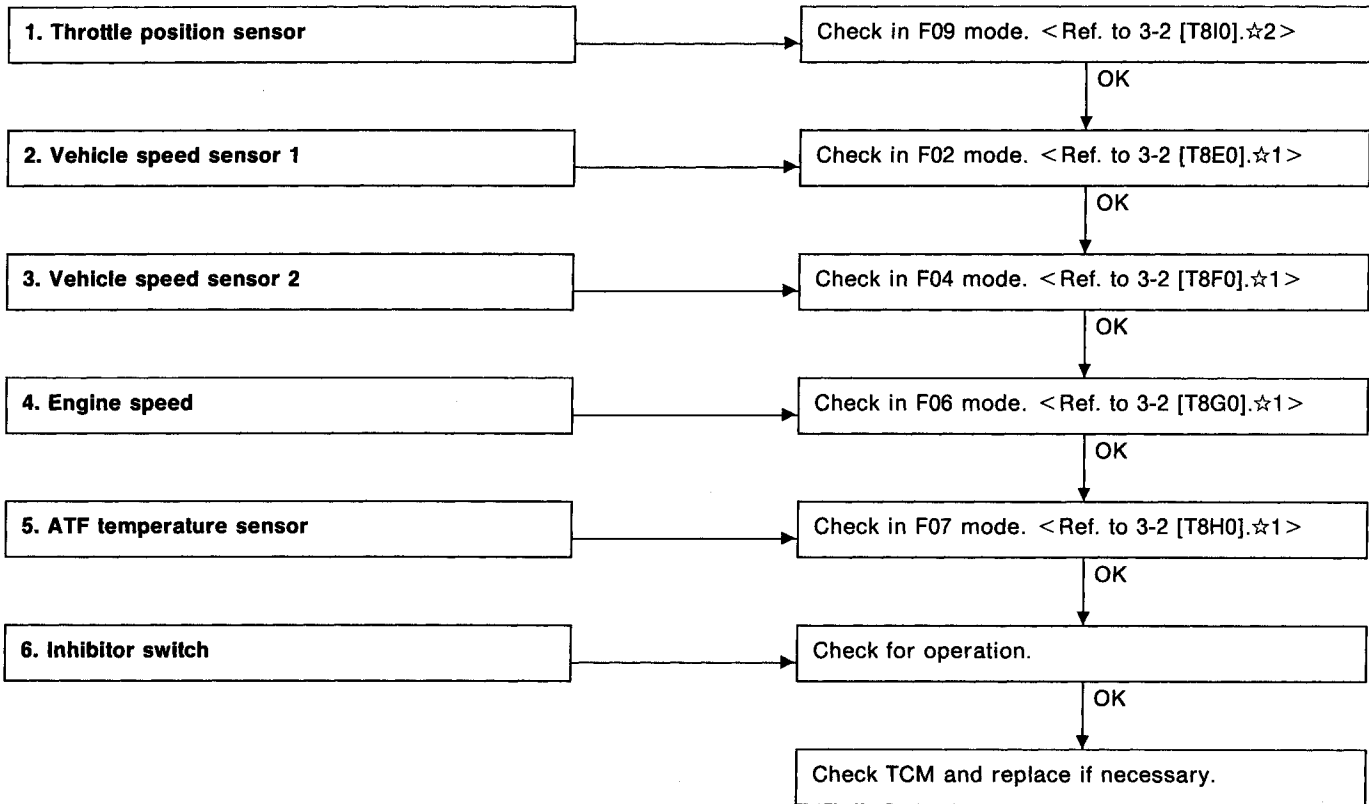
**CONDITION:**

- After sufficient warm-up
- Ignition ON (engine OFF)
- N range

**SPECIFIED DATA:**

- Throttle fully closed: 100%
- Throttle fully open : 15% or less

Probable cause (if outside "specified data")



**LUPTY**                      **(F12)**

**5%**

**G3M0732**

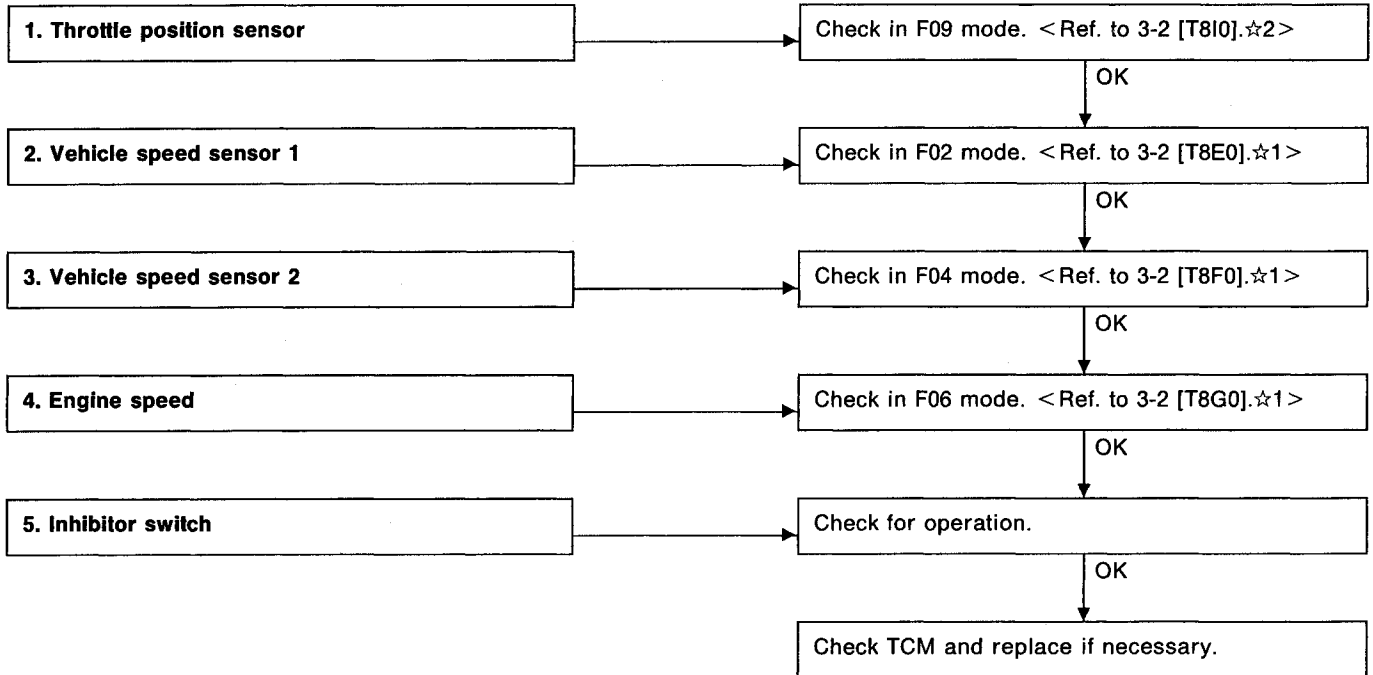
**L: MODE F12 — LOCK-UP DUTY (LUPTY) —  
CONDITION:**

- Idling (after sufficient warm-up) with lock-up system released.
- Driving at 75 km/h (47 MPH) (after sufficient warm-up) with lock-up system applied.

**SPECIFIED DATA:**

- Lock-up system released: 5%
- Lock-up system applied: 95%

Probable cause (if outside "specified data")



4WDTY (F13)

95%

G3M0733

**M: MODE F13 — AWD DUTY (4WDTY) —**

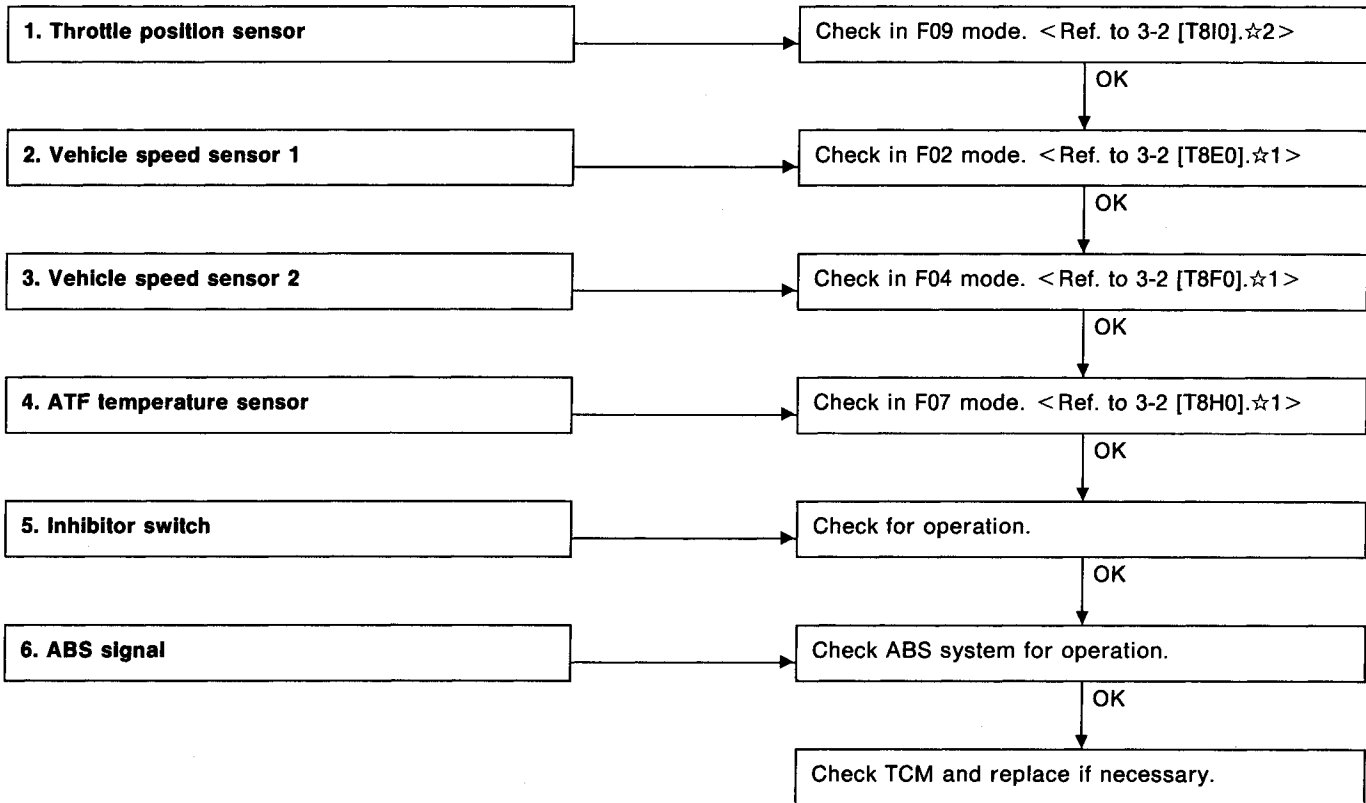
**CONDITION:**

- After sufficient warm-up
- Ignition switch ON (engine OFF)
- FWD mode
- AWD mode, D range, full throttle

**SPECIFIED DATA:**

- 95% (FWD mode)
- 25%, max. (vehicle speed 0 m/h) (AWD mode)

Probable cause (if outside "specified data")



**THVCC (F14)**  
  
**5.2 V**

B3M0259

**N: MODE F14**  
**— THROTTLE POSITION SENSOR POWER SUPPLY (THVCC) —**

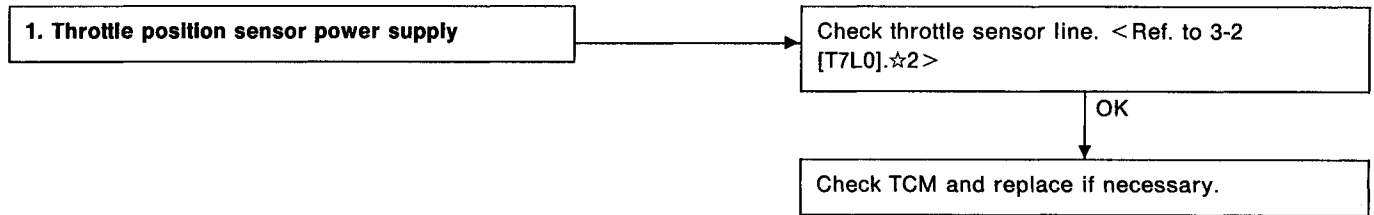
**CONDITION:**

Ignition switch ON (engine OFF)

**SPECIFIED DATA:**

5.12 ± 0.1 V

Probable cause (Item outside "specified data")



**AFM (F15)**  
  
**0.6V**

B3M0370

**O: MODE F15**  
**— MASS AIR FLOW SIGNAL (AFM) —**

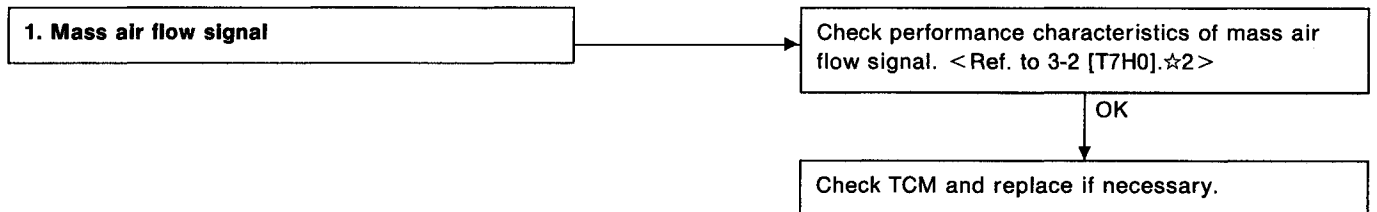
**CONDITION:**

- Ignition switch ON (engine ON)
- N range
- Idling

**SPECIFIED DATA:**

Engine warm-up: 0.5 — 1.22 V

Probable cause (if outside "specified data")



**DISPLAY**

LED No.	Signal name	Symbol
1	FWD switch	FF
2	Kick-down switch	KD
3	—	—
4	—	—
5	Brake	BR
6	ABS switch	AB
7	Cruise control set	CR
8	Power switch	PW
9	—	—
10	—	—

FF	KD	—	—	BR
AB	CR	PW	—	—

1	2	3	4	5
6	7	8	9	10

**P: MODE FA0**  
**— SWITCH 1 (SW1) —**

**Reference values**

- Lights up when the fuse is installed in FWD switch (No. 1).
- Lights up when the brake pedal is depressed (No. 5)
- Lights up when the ABS signal is entered (No. 6).
- Lights up when the cruise control is set (No. 7).

NOTE:  
 LED Nos. 2 and 8 do not come on.

**DISPLAY**

LED No.	Signal name	Symbol
1	N/P range switch	NP
2	R range switch	RR
3	D range switch	RD
4	3 range switch	R3
5	2 range switch	R2
6	1 range switch	R1
7	Diagnosis switch	SS
8	—	—
9	—	—
10	—	—

NP	RR	RD	R3	R2
R1	SS	—	—	—

1	2	3	4	5
6	7	8	9	10

**Q: MODE FA1**  
**— SWITCH 2 (SW2) —**

**Reference values**

- Lights up when the N or P range is selected (No. 1).
- Lights up when the R range is selected (No. 2).
- Lights up when the D range is selected (No. 3).
- Lights up when the 3 range is selected (No. 4).
- Lights up when the 2 range is selected (No. 5).
- Lights up when the 1 range is selected (No. 6).
- Lights up when the diagnosis switch is connected (No. 7).

NOTE:  
 If each LED does not illuminate in the above conditions, inhibitor switch malfunction may occur. Perform diagnostics on inhibitor switch. <Ref. to 2-7 [T10AN0].☆2>