<SUPPLEMENT-IV>

AUTOMATIC TRANSMISSION

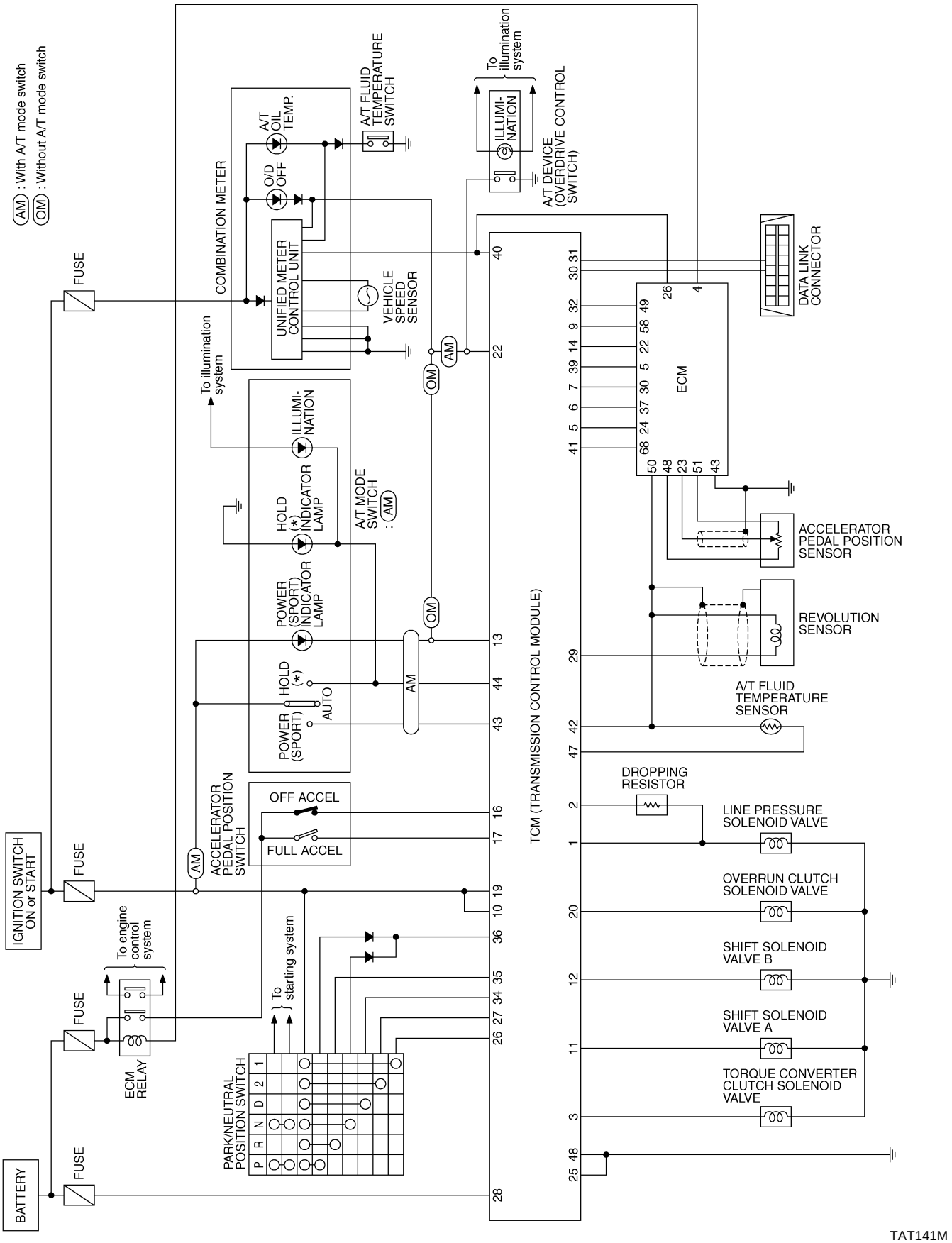
SECTION AT

MODIFICATION NOTICE:

- Wiring diagrams have been changed.
- Service data and Specifications (SDS) have been changed.

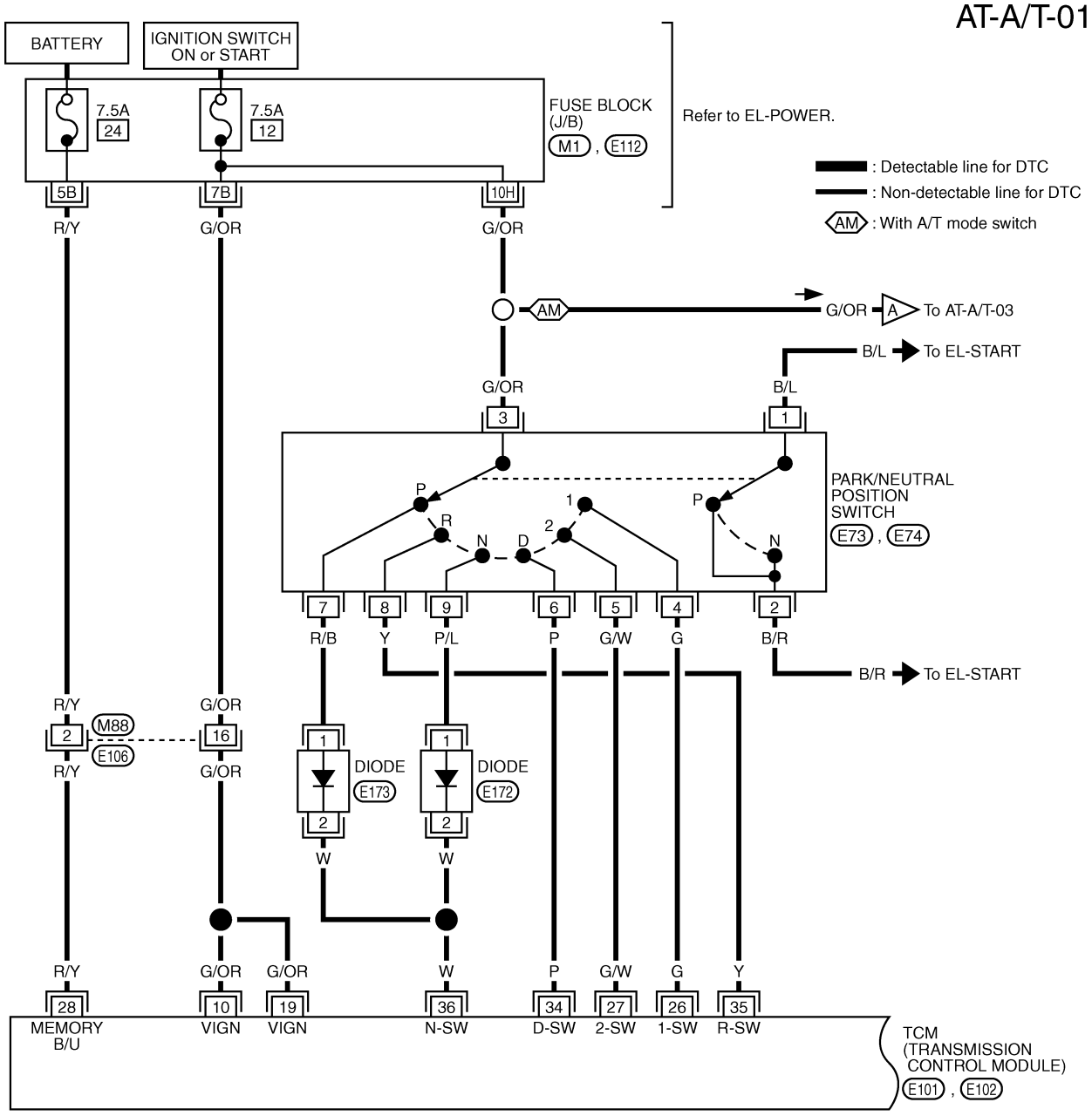
CONTENTS

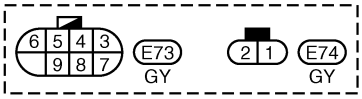
Circuit Diagram

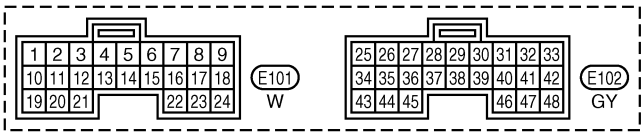


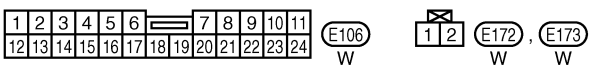
Wiring Diagram — A/T —

AT-A/T-01









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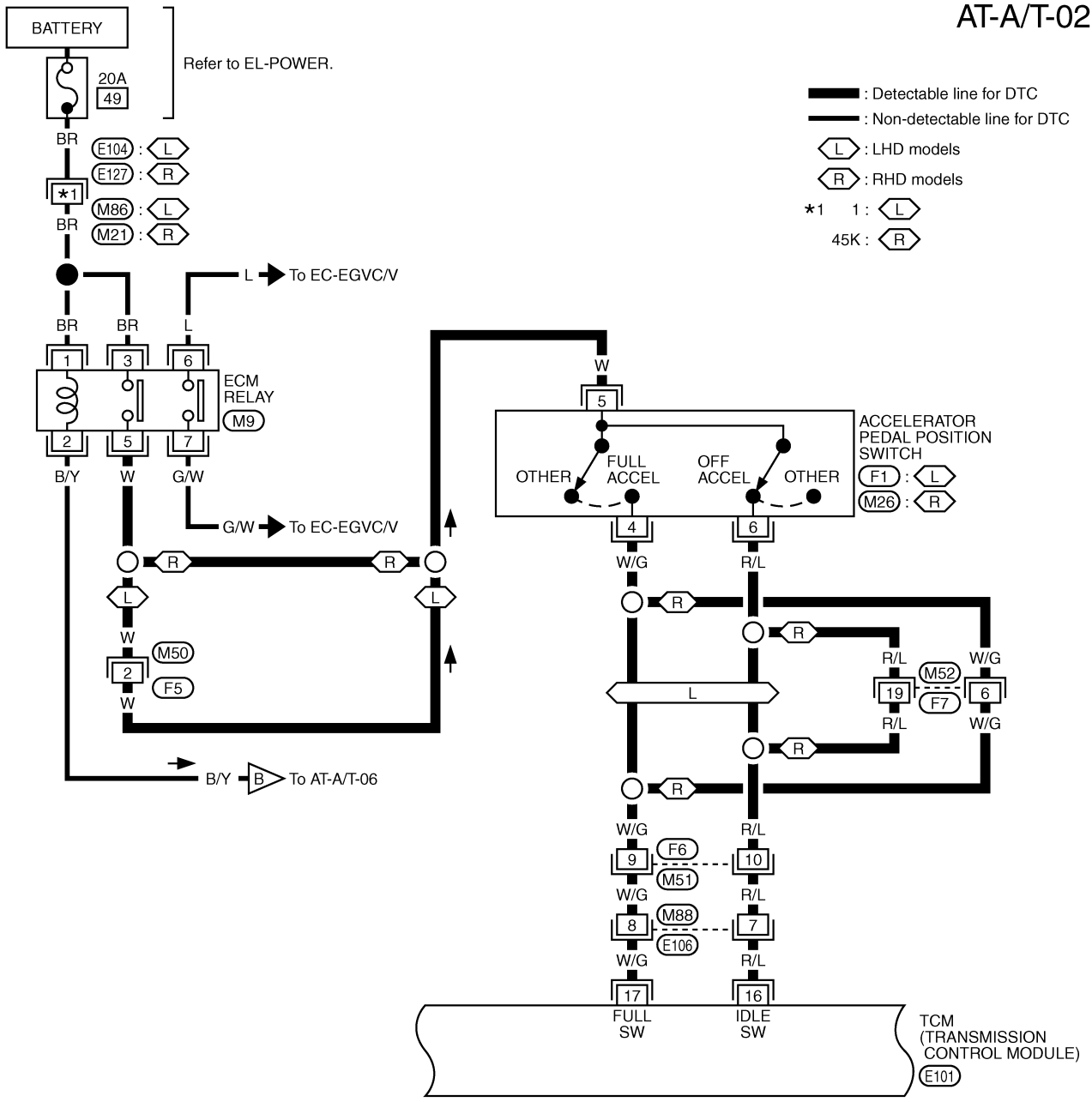
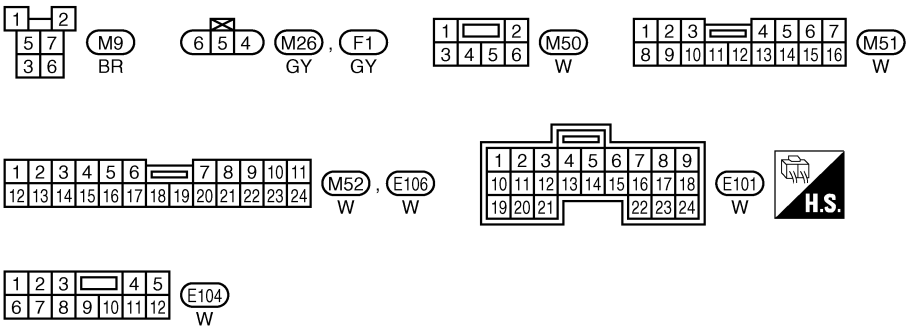
M1
E112

TAT061M

Wiring Diagram — A/T — (Cont'd)

AT-A/T-02





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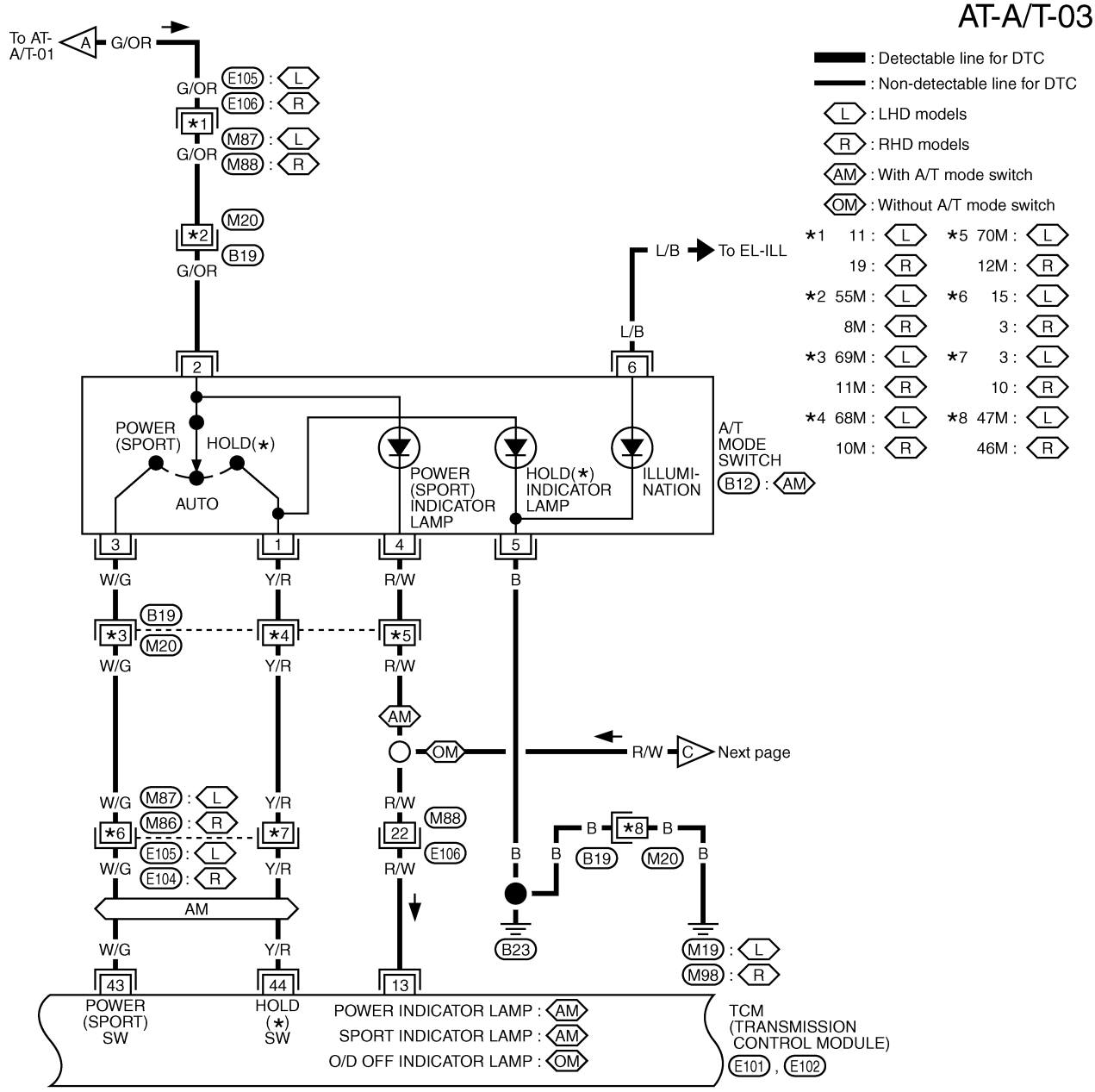
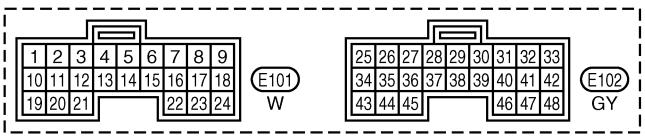
M21 , E127

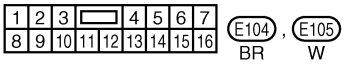
TAT136M

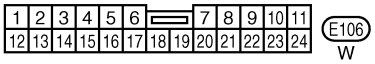
Wiring Diagram — A/T — (Cont'd)

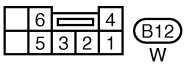
AT-A/T-03











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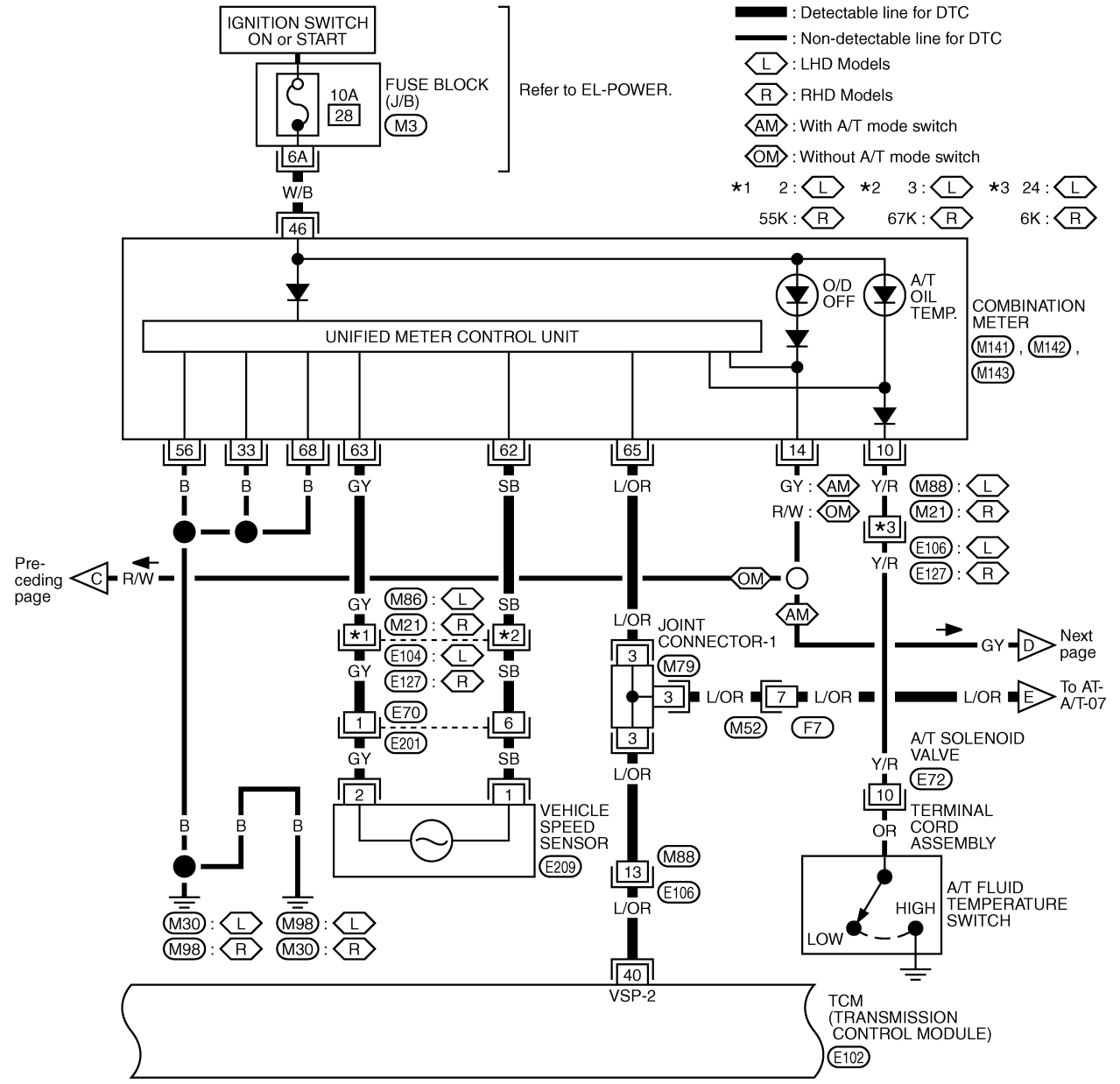
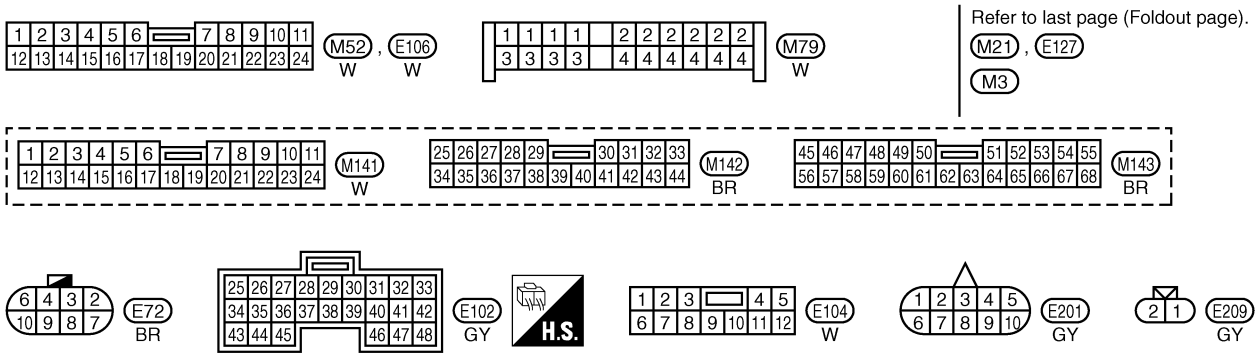
TAT142M

Wiring Diagram — A/T — (Cont'd)

AT-A/T-04

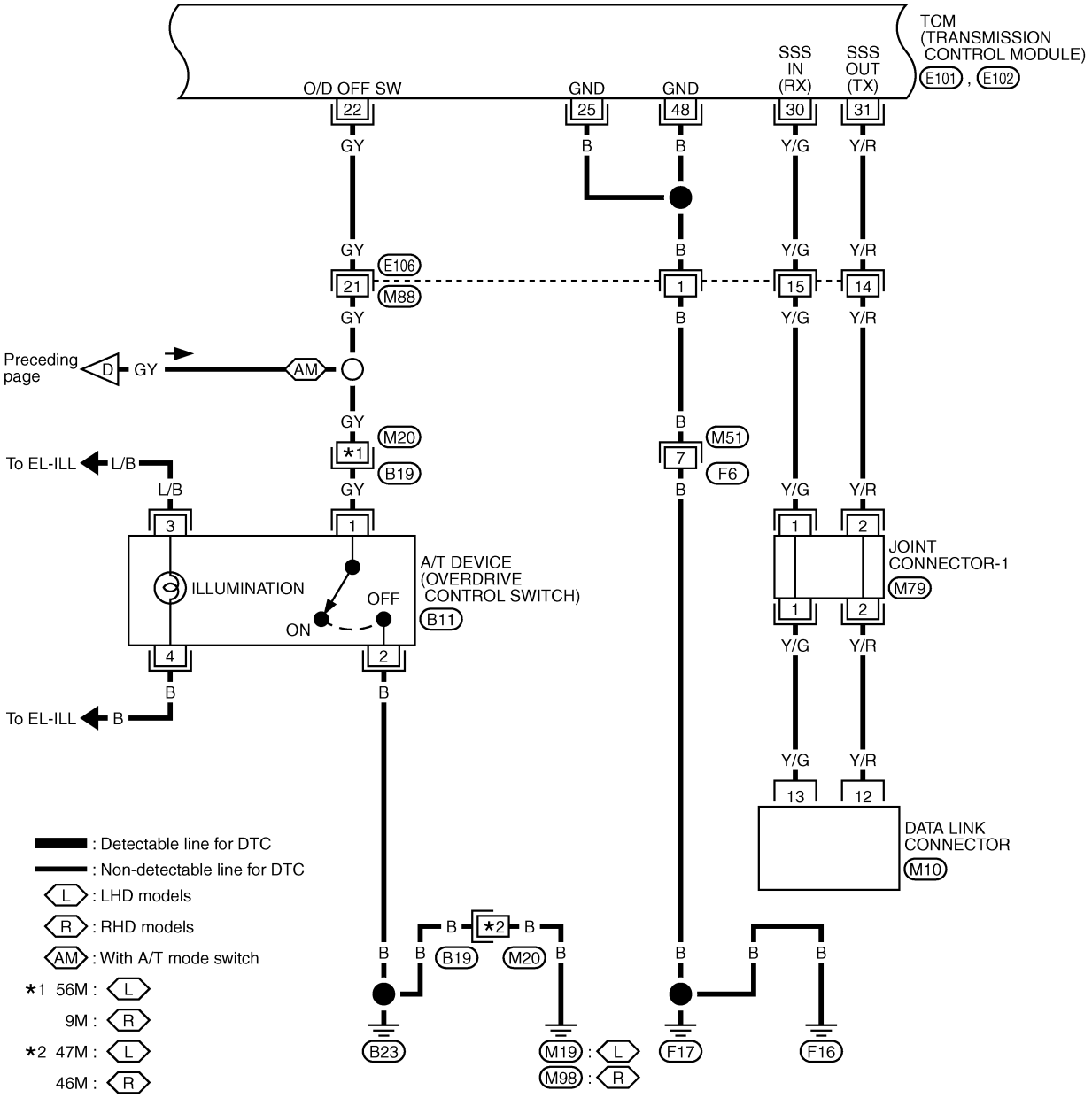


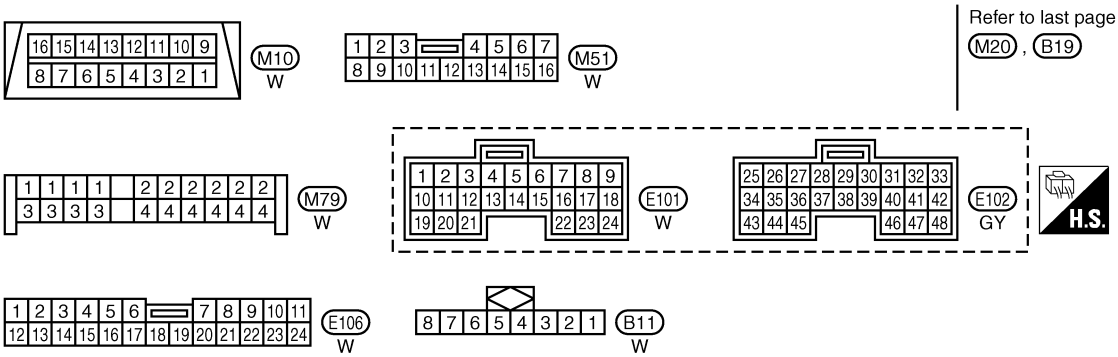


TAT146M

Wiring Diagram — A/T — (Cont'd)

AT-A/T-05





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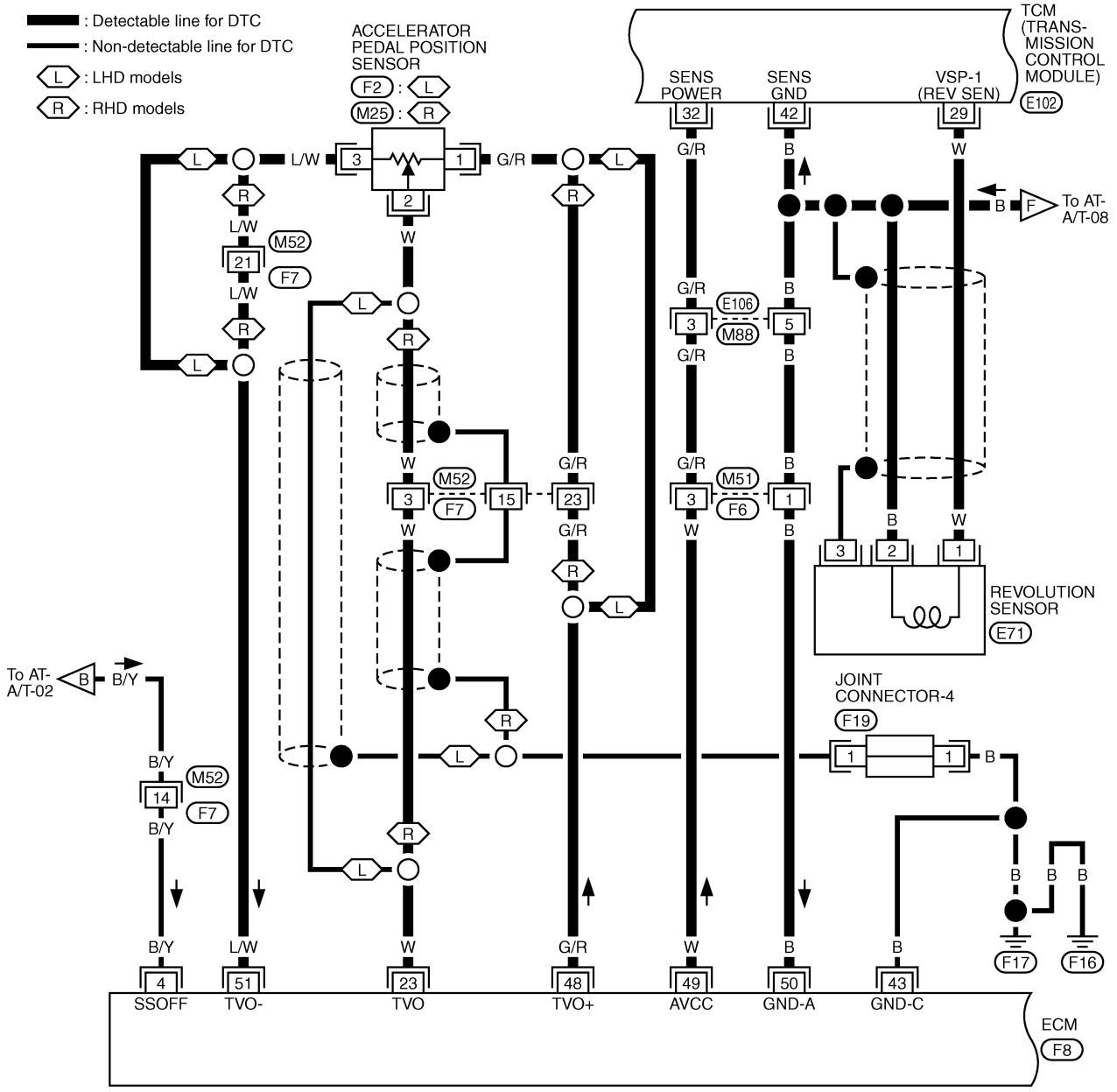
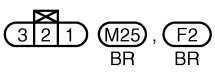
M20, B19

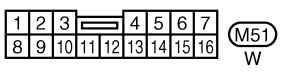
TAT111M

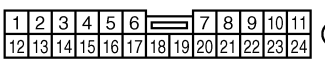
Wiring Diagram — A/T — (Cont'd)

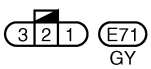
AT-A/T-06

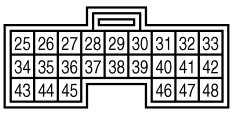


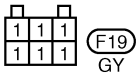












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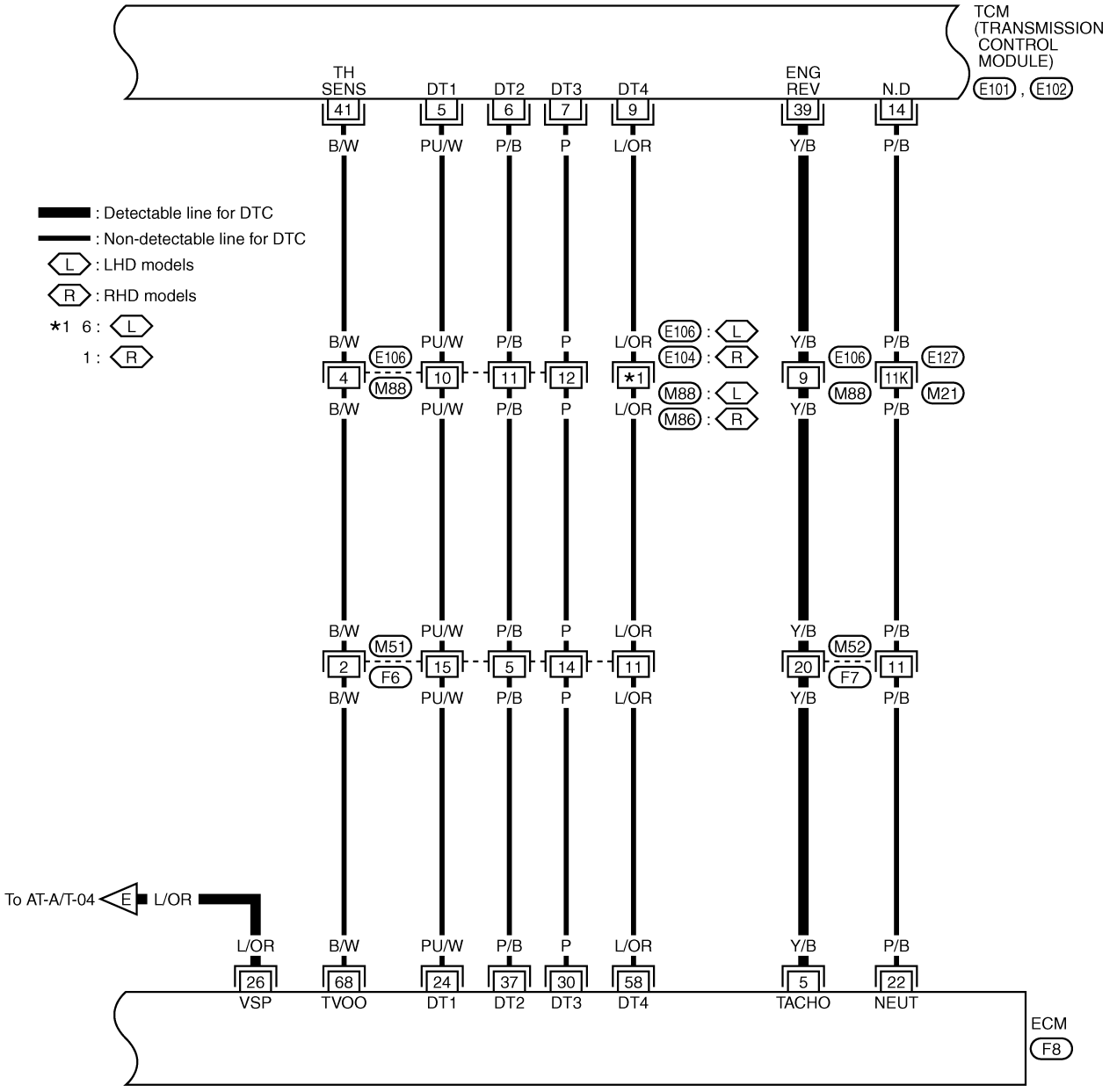
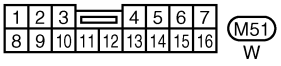
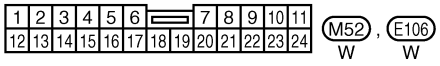
TAT143M

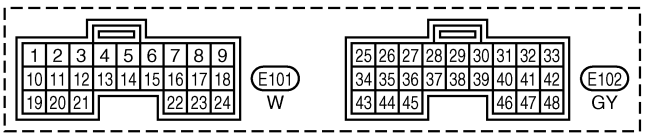
Wiring Diagram — A/T — (Cont'd)

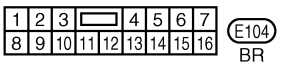
AT-A/T-07











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M21, E127
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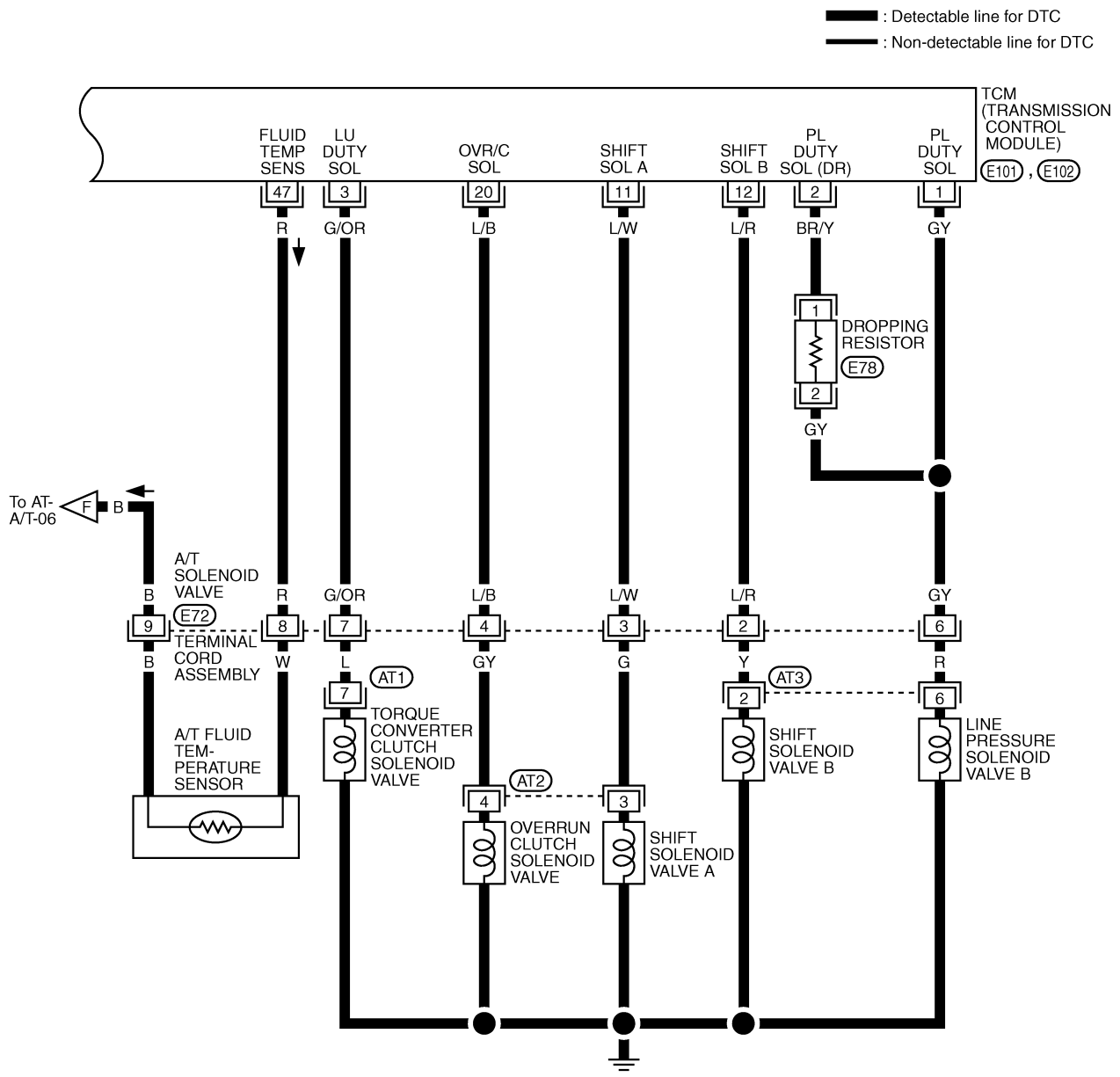
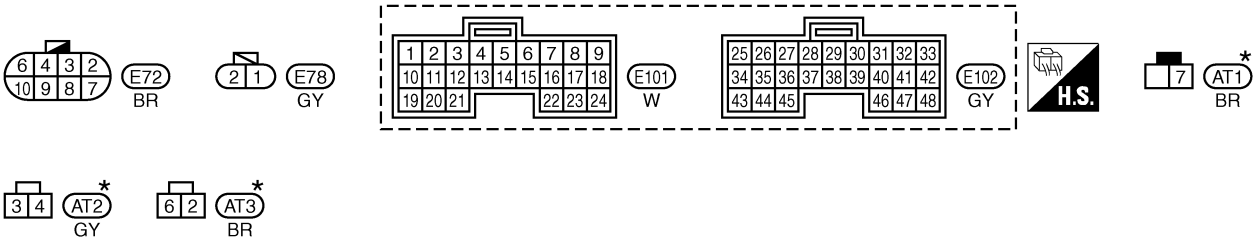
TAT128M

Wiring Diagram — A/T — (Cont'd)

AT-A/T-08

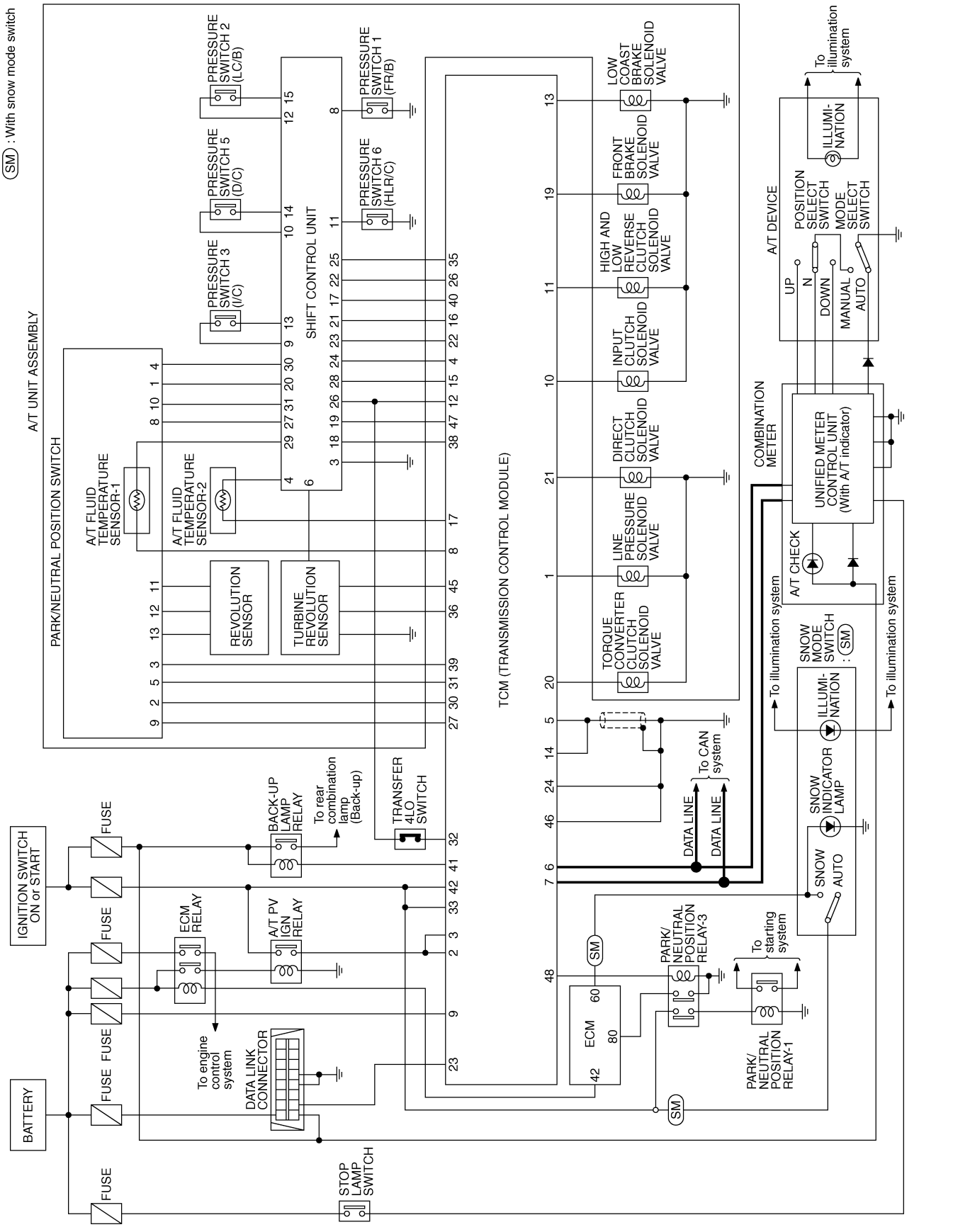




*: This connector is not shown in "HARNESS LAYOUT", EL section.

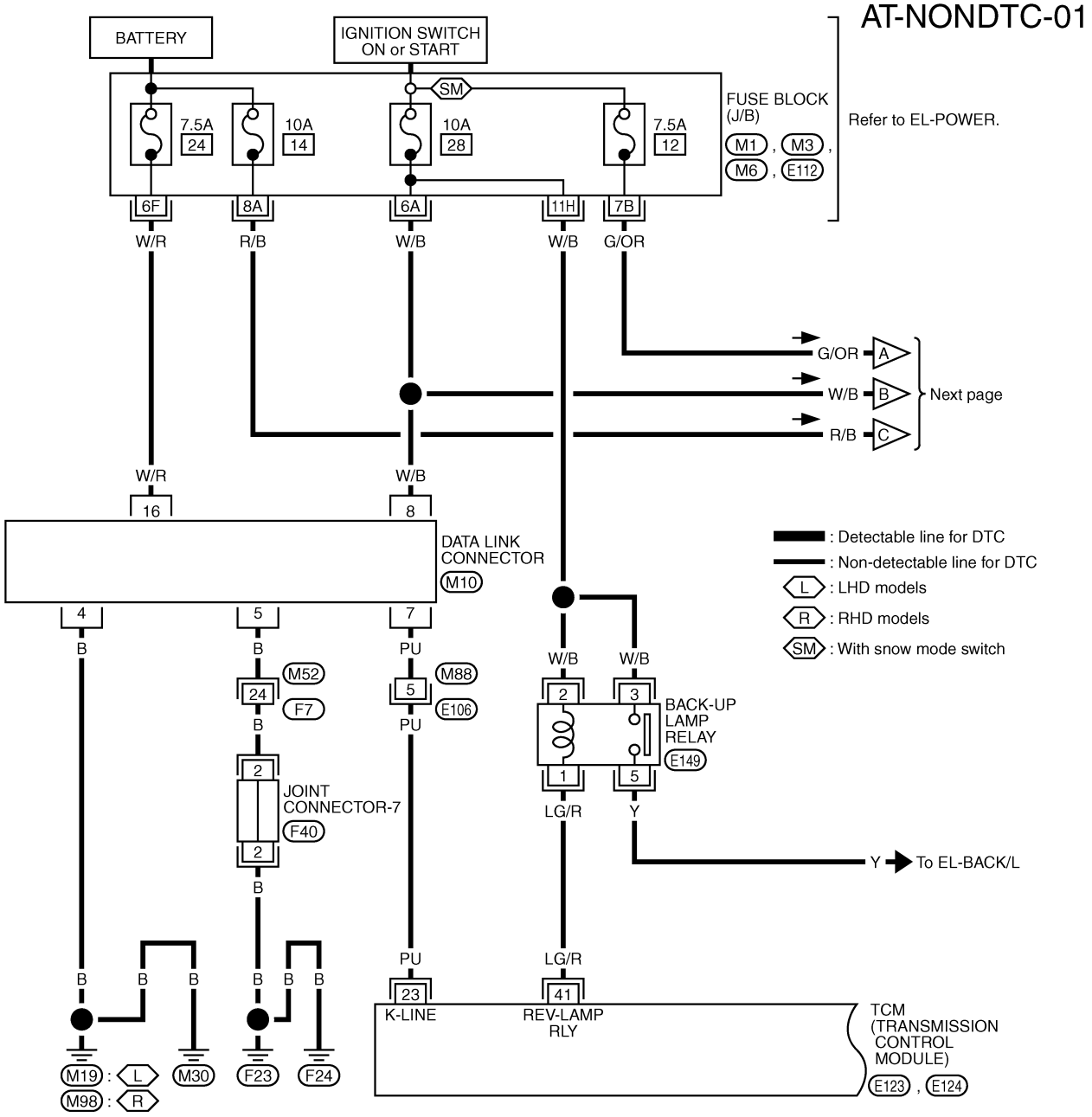
TAT114M

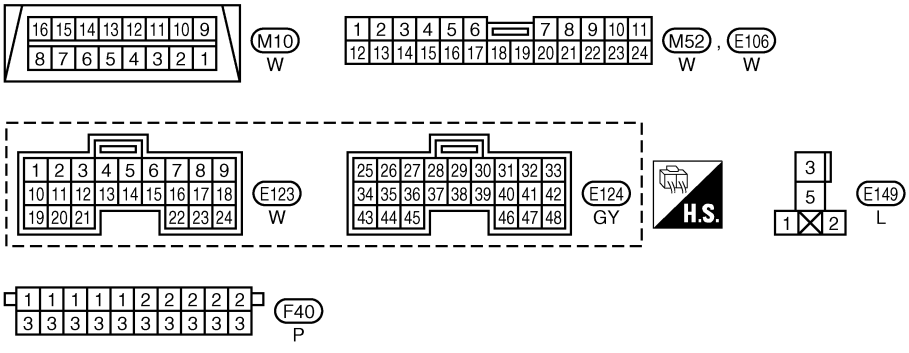
Circuit Diagram



TAT144M

Wiring Diagram — AT — NONDTC





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M1
M3
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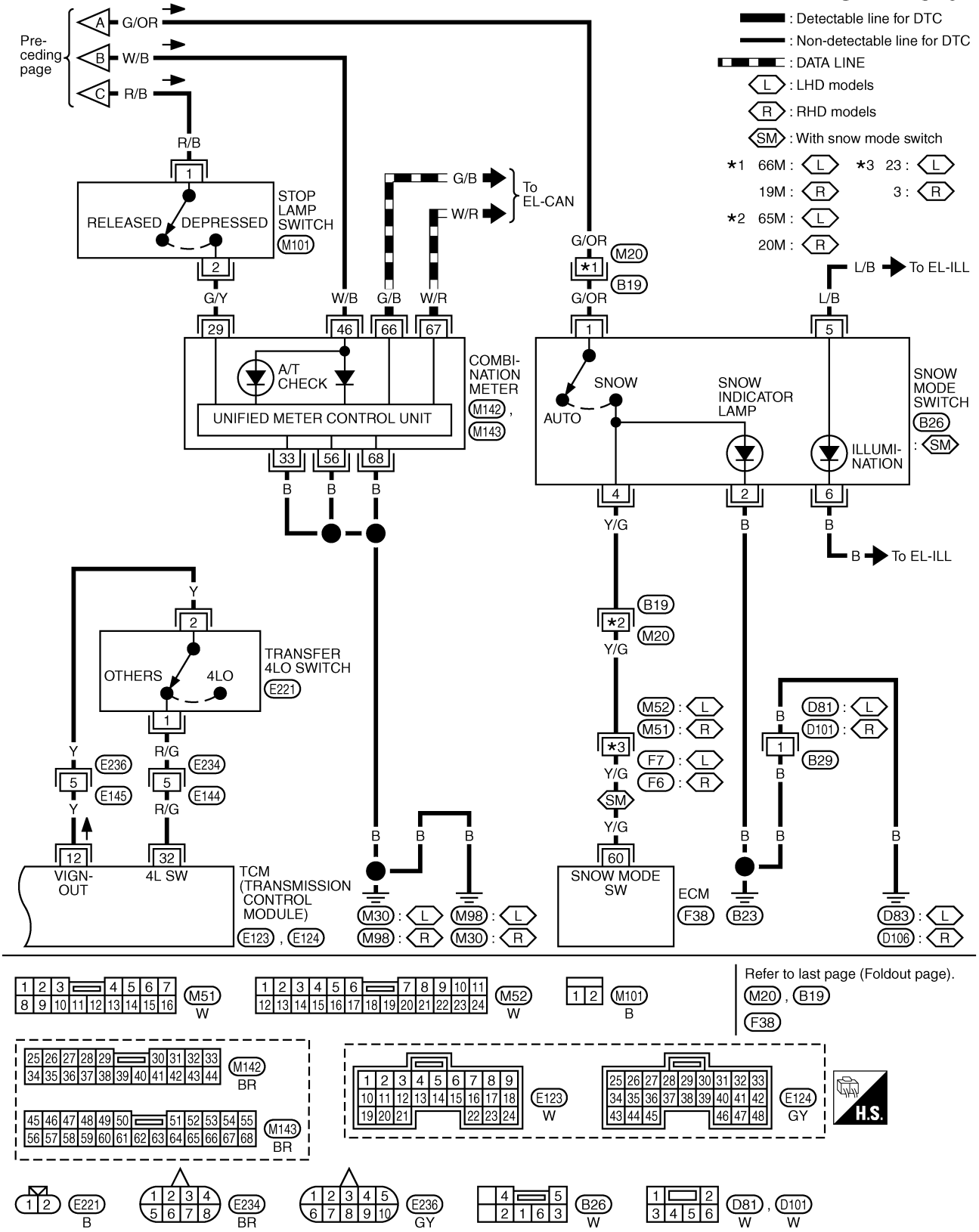
TAT106M

Wiring Diagram — AT — NONDTC (Cont'd)

AT-NONDTC-02



TAT145M

General Specifications

Engine		TB48DE	
Automatic transmission model		RE5R05A	
Destination		Except for Europe	For Europe
Transmission model code number		91X69	91X68
Stall torque ratio		2.0 : 1	
Transmission gear ratio	1st	3.540	
	2nd	2.264	
	3rd	1.471	
	4th	1.000	
	5th	0.834	
	Reverse	2.370	
Recommended fluid		Genuine Nissan ATF Matic Fluid J*1	
Fluid capacity		10.4 - 10.7 liter (9-1/8 - 9-3/8 Imp qt)	

CAUTION:
- **Use only Genuine Nissan ATF Matic Fluid J*1. Do not mix with other fluid.**
- **Using automatic transmission fluid other than Genuine Nissan ATF Matic Fluid J*1 will deteriorate in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the warranty.**

*1: Refer to MA section, “Fluids and Lubricants”.

Vehicle Speed When Shifting Gears

Throttle position	Vehicle Speed km/h (MPH)							
	$D_1 \rightarrow D_2$	$D_2 \rightarrow D_3$	$D_3 \rightarrow D_4$	$D_4 \rightarrow D_5$	$D_5 \rightarrow D_4$	$D_4 \rightarrow D_3$	$D_3 \rightarrow D_2$	$D_2 \rightarrow D_1$
Full throttle	52 - 56 (32 - 35)	81 - 89 (50 - 55)	126 - 136 (78 - 85)	188 - 198 (117 - 123)	184 - 194 (114 - 121)	116 - 126 (72 - 78)	70 - 78 (43 - 48)	36 - 40 (22 - 25)
Half throttle	32 - 36 (20 - 22)	62 - 68 (39 - 42)	104 - 112 (65 - 70)	126 - 134 (78 - 83)	100 - 108 (62 - 67)	61 - 69 (38 - 43)	37 - 43 (23 - 27)	10 - 14 (6 - 9)

- At half throttle, the accelerator opening is 4/8 of the full opening.

Vehicle Speed When Performing and Releasing Lock-up

Throttle position	Vehicle speed km/h (MPH)	
	Lock-up “ON”	Lock-up “OFF”
Closed throttle	64 - 72 (39 - 45)	61 - 69 (38 - 43)
Half throttle	164 - 172 (102 - 107)	130 - 138 (81 - 86)

- At closed throttle, the accelerator opening is less than 1/8.
- At half throttle, the accelerator opening is 4/8 of the full opening.

Stall Revolution

Stall revolution	1,900 - 2,200 rpm

Line Pressure

Engine speed (rpm)	Line Pressure kPa (bar, kg/cm^2, psi)	
	“R” position	“D”, “M” positions
Idling Revolution	392 - 441 (3.9 - 4.4, 4.0 - 4.5, 57 - 64)	373 - 422 (3.7 - 4.2, 3.8 - 4.3, 54 - 61)
Stall Revolution	1,700 - 1,890 (17.0 - 18.9, 17.3 - 19.3, 247 - 274)	1,310 - 1,500 (13.1 - 15.0, 13.4 - 15.3, 191 - 218)

Solenoid Valves

Name	Resistance (Approx.) (Ω)	Terminal No.
Line pressure solenoid valve	3 - 9	7
Torque converter clutch solenoid valve		8
Input clutch solenoid valve		6
High & low reverse clutch solenoid valve		3
Front brake solenoid valve		5
Direct clutch solenoid valve		4
Low coast brake solenoid valve	20 - 40	2

A/T Fluid Temperature Sensor

Name	Condition	CONSULT-II “DATA MONITOR” (Approx.) (V)	Resistance (Approx.) (kΩ)
A/T fluid temperature sensor-1	0°C (32°F)	2.2	15
	20°C (68°F)	1.8	0.6
	80°C (176°F)	0.6	0.9
A/T fluid temperature sensor-2	0°C (32°F)	2.2	10
	20°C (68°F)	1.7	4
	80°C (176°F)	0.45	0.5

Turbine Revolution Sensor

Name	Condition	Data (Approx.)
Turbine revolution sensor-1	When moving at 50 km/h (31 MPH) in 4th gear with the closed throttle position signal “OFF”, use the CONSULT-II pulse frequency measuring function. **CAUTION:** **Connect the diagnosis data link connector to the vehicle diagnosis connector.**	1.3 (kHz)
Turbine revolution sensor-2	When running at 20 km/h (12 MPH) in 1st gear with the closed throttle position signal “OFF”, use the CONSULT-II pulse frequency measuring function. **CAUTION:** **Connect the diagnosis data link connector to the vehicle diagnosis connector.**	

Revolution Sensor

Name	Condition	Data (Approx.)
Revolution sensor	When moving at 20 km/h (12 MPH), use the CONSULT-II pulse frequency measuring function. **CAUTION:** **Connect the diagnosis data link connector to the vehicle diagnosis connector.**	185 (Hz)