ON-BOARD DIAGNOSTIC SYSTEM PID/DATA MONITOR FUNCTION [ELECTRIC POWER STEERING (EPS)]

id0602001012a1

- The PID/data monitor function is used for optionally selecting input/output signal monitor items preset in the EPS control module (CM) and reading them out in real-time.

Monitor item (Mazda Modular Diagnostic System (M-MDS) display)	Data contents	Unit/operation
CEN_TRQ_S	• Torque sensor neutral position: Near 0 Nm	Nm
ECU_IN_TMP	• Displays temperature of board in EPS control module: -40° C—+215°C {-40°F—419°F}	°C, °F
ENG_RPM	• Engine stopped: 0 RPM • Engine rotating at **3,000 RPM**: 3,000 RPM	RPM
MT_CURRENT	• When not steered: Near 0 A • Steered: Changes to positive or negative	A
OH_CR_C	• Is the overheating prevention control (Complete) operating?	Yes/No
OH_CR_M	• Is the overheating prevention control (Middle) operating?	Yes/No
OH_HIST_C	• Has the overheating prevention control (Complete) operated before?	Yes/No
OH_HIST_M	• Has the overheating prevention control (Middle) operated before?	Yes/No
OH_IG_CNT_C	• History of overheating prevention control (Complete) • Number of times vehicle is driven (ignition switched ON (engine off or on)) after overheating prevention control operates	—
OH_IG_CNT_M	• History of overheating prevention control (Middle) • Number of times vehicle is driven (ignition switched ON (engine off or on)) after overheating prevention control operates	—
STR_ANG	• Steering in neutral position • Steered left: Changes to 0°—Positive • Steered right: Changes to 0°—Negative	°
STR_ROT_SPD	• Not steered: Near 0 °/s • Steered: Changes according to steering speed	°/s
STR_TRQ_S_M	• Not steered: Near 0 Nm • Steered left: Changes to 0 Nm—Positive • Steered right: Changes to 0 Nm—Negative	Nm
STR_TRQ_S_S	• Not steered: Near 0 Nm • Steered left: Changes to 0 Nm—Positive • Steered right: Changes to 0 Nm—Negative	Nm
VPWR	• Engine stopped: Approx. **12 V** • Idling: Approx. **14 V**	V
VSPD	• Vehicle stopped: 0 KPH, 0 MPH • Vehicle speed **20 km/h {12 mph}**: 20 KPH, 12 MPH	KPH, MPH