

2012 - Mazda6 - Body and Accessories

POSITION MEMORY CONTROL MODULE INSPECTION

- Measure the voltage at each terminal is as indicated in the Terminal Voltage Tables.
 - If the voltage is not as specified in the Terminal Voltage Table (Reference), inspect the parts under "Inspection item (s)" and related wiring harnesses.
- If the system does not work properly even though the inspection items or related wiring harnesses do not have any malfunction, replace the position memory control module.

Terminal Voltage Table (Reference)

POSITION MEMORY CONTROL MODULE HARNESS-SIDE CONNECTOR



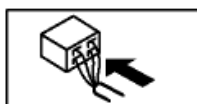
1O	1M	*	*	1G	*	*	1A
*	*	*	1J	1H	1F	1D	*



*	2M	2K	2I	2G	2E	2C	2A
*	2N	2L	2J	2H	2F	2D	2B



3O	3M	3K	3I	3G	3E	3C	3A
3P	3N	3L	3J	3H	3F	3D	3B



Terminal	Signal name	Connected to	Measured condition	Voltage (V)	Inspection item (s)
1A	Keyless entry signal	BCM	Because this terminal is for communication, good/no good judgment by terminal voltage is not possible.		- BCM - Related wiring harness
1D	Vehicle speed input	Instrument cluster	Measure the waveform while driving using the oscilloscope.	High output: B+ Low output: 1.0 or less	- Instrument cluster - Related wiring harness
1F	Door open/closed	Door switch (Driver-side)	Driver-side door open: Inspect for continuity to ground. B+ Driver-side door closed: Inspect for continuity to ground. 1.0 or less		- Door switch (Driver-side) - Related wiring harness
1G	IG1	METER IG 15 A fuse	Switch the ignition to ON Switch the ignition to off or ACC	B+ 1.0 or less	- METER IG 15 A fuse - Related wiring

					harness
1H	Signal GND	Body ground	Under any condition	1.0 or less	Related wiring harness
1J	Power GND	Body ground	Under any condition	1.0 or less	Related wiring harness
1M	Power supply	ROOM 15 A fuse	Under any condition	B+	- ROOM 15 A fuse - Related wiring harness
1O	Power supply	P.SEAT(D) 30 A fuse	Under any condition	B+	- P.SEAT(D) 30 A fuse - Related wiring harness
2A	Slide switch input (forward)	Power seat switch	Press the slide switch to forward	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2B	Slide switch input (backward)	Power seat switch	Press the slide switch to backward	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2C	Front tilt switch input (up)	Power seat switch	Press the front tilt switch to up	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2D	Front tilt switch input (down)	Power seat switch	Press the front tilt switch to down	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2E	Rear tilt switch input (up)	Power seat switch	Press the rear tilt switch to up	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2F	Rear tilt switch input (down)	Power seat switch	Press the rear tilt switch to down	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
	Recliner switch	Power seat	Press the recliner switch to forward	1.0 or less	Power seat switch

2G	input (forward)	switch	Other	5.0	Related wiring harness
2H	Recliner switch input (backward)	Power seat switch	Press the recliner switch to backward	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2I	Signal GND input	Power seat switch	Under any condition	1.0 or less	- Power seat switch - Related wiring harness
2J	Signal GND input	Position memory switch	Under any condition	1.0 or less	- Position memory switch - Related wiring harness
2K	Set switch input	Position memory switch	Press the set switch	1.0 or less	- Position memory switch - Related wiring harness
			Other	5.0	
2L	Memory switch 1 input	Position memory switch	Press the memory switch 1	1.0 or less	- Position memory switch - Related wiring harness
			Other	5.0	
2M	Memory switch 2 input	Position memory switch	Press the memory switch 2	1.0 or less	- Position memory switch - Related wiring harness
			Other	5.0	
2N	Memory switch 3 input	Position memory switch	Press the memory switch 3	1.0 or less	- Position memory switch - Related wiring harness
			Other	5.0	
3A	Slide motor output (forward)	Slide motor	While slide motor is moving to forward	B+	- Slide motor - Related wiring harness
			Other	1.0 or less	

3B	Slide motor output (backward)	Slide motor	While slide motor is moving to backward	B+	- Slide motor - Related wiring harness
			Other	1.0 or less	
3C	Front tilt motor output (up)	Front tilt motor	While front tilt motor is moving to up	B+	- Front tilt motor - Related wiring harness
			Other	1.0 or less	
3D	Front tilt motor output (down)	Front tilt motor	While front tilt motor is moving to down	B+	- Front tilt motor - Related wiring harness
			Other	1.0 or less	
3E	Rear tilt motor output (up)	Rear tilt motor	While rear tilt motor is moving to up	B+	- Rear tilt motor - Related wiring harness
			Other	1.0 or less	
3F	Rear tilt motor output (down)	Rear tilt motor	While rear tilt motor is moving to down	B+	- Rear tilt motor - Related wiring harness
			Other	1.0 or less	
3G	Recliner motor output (forward)	Recliner motor	While recliner motor is moving to forward	B+	- Recliner motor - Related wiring harness
			Other	1.0 or less	
3H	Recliner motor output (backward)	Recliner motor	While recliner motor is moving to backward	B+	- Recliner motor - Related wiring harness
			Other	1.0 or less	
3I	Position sensor (slide)+	Position sensor (slide)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.		- Position sensor (slide) - Related wiring harnesses
3J	Position sensor (slide)-	Position sensor (slide)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.		- Position sensor (slide) - Related wiring harnesses
					Position

3K	Position sensor (tilt)+	Position sensor (tilt)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	sensor (tilt) • Related wiring harnesses
3L	Position sensor (tilt)-	Position sensor (tilt)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	• Position sensor (tilt) • Related wiring harnesses
3M	Position sensor (lift)+	Position sensor (lift)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	• Position sensor (lift) • Related wiring harnesses
3N	Position sensor (lift)-	Position sensor (lift)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	• Position sensor (lift) • Related wiring harnesses
3P	Position sensor (reclining)+	Position sensor (reclining)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	• Position sensor (reclining) • Related wiring harnesses
3P	Position sensor (reclining)-	Position sensor (reclining)	Because this terminal is for signal, good/no good judgment by terminal voltage is not possible.	• Position sensor (reclining) • Related wiring harnesses

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Terminal Voltage Table (Reference)

POSITION MEMORY CONTROL MODULE HARNESS-SIDE CONNECTOR



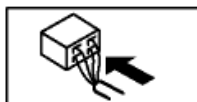
1O	1M	*	*	1G	*	*	1A
*	*	*	1J	1H	1F	1D	*



*	2M	2K	2I	2G	2E	2C	2A
*	2N	2L	2J	2H	2F	2D	2B



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1F	Door open/closed	Door switch (Driver-side)	Driver-side door open: Inspect for continuity to ground. B+ Driver-side door closed: Inspect for continuity to ground. 1.0 or less		- Door switch (Driver-side) - Related wiring harness
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2A	Slide switch input (forward)	Power seat switch	Press the slide switch to forward	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2B	Slide switch input (backward)	Power seat switch	Press the slide switch to backward	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2C	Front tilt switch input (up)	Power seat switch	Press the front tilt switch to up	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2D	Front tilt switch input (down)	Power seat switch	Press the front tilt switch to down	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2E	Rear tilt switch input (up)	Power seat switch	Press the rear tilt switch to up	1.0 or less	- Power seat switch - Related wiring harness
			Other	5.0	
2F	Rear tilt switch input (down)	Power seat switch	Press the rear tilt switch to down	1.0 or less	- Power seat switch - Related wiring harness
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	Recliner switch	Power seat	Press the recliner switch to forward	1.0 or less	Power seat switch

2G	input (forward)	switch	Other	5.0	Related wiring harness
2H	Recliner switch input (backward)	Power seat switch	Press the recliner switch to backward	1.0 or less	- Power seat switch - Related wiring harness
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			Other	1.0 or less	
3C	Front tilt motor output (up)	Front tilt motor	While front tilt motor is moving to up	B+	- Front tilt motor - Related wiring harness
			Other	1.0 or less	
3D	Front tilt motor output (down)	Front tilt motor	While front tilt motor is moving to down	B+	- Front tilt motor - Related wiring harness
			Other	1.0 or less	
3E	Rear tilt motor output (up)	Rear tilt motor	While rear tilt motor is moving to up	B+	- Rear tilt motor - Related wiring harness
			Other	1.0 or less	
3F	Rear tilt motor output (down)	Rear tilt motor	While rear tilt motor is moving to down	B+	- Rear tilt motor - Related wiring harness
			Other	1.0 or less	
3G	Recliner motor output (forward)	Recliner motor	While recliner motor is moving to forward	B+	- Recliner motor - Related wiring harness
			Other	1.0 or less	
3H	Recliner motor output (backward)	Recliner motor	While recliner motor is moving to backward	B+	- Recliner motor - Related wiring harness
			Other	1.0 or less	
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