

2012 - Mazda6 - Steering

STEERING TECHNICAL DATA

Item	Specification
Power steering fluid type	Mazda Genuine ATF M-V or equivalent (e.g. Dexron®II)
Power steering fluid capacity (approx. quantity)	MZR 2.5: 0.78 L {0.82 US qt, 0.69 Imp qt} MZI 3.7 V6: 1.11 L {1.17 US qt, 0.98 Imp qt}
Oil pump fluid pressure	MZR 2.5: 8.33—8.82 MPa {85.0—89.9 kgf/cm ² , 1209—1279 psi} MZI 3.7 V6: 8.51—9.29 MPa {86.8—94.7 kgf/cm ² , 1235—1347 psi}
Gear housing fluid pressure	MZR 2.5: 8.33—8.82 MPa {85.0—89.9 kgf/cm ² , 1209—1279 psi} MZI 3.7 V6: 8.80—9.29 MPa {90.0—94.7 kgf/cm ² , 1277—1342 psi}
Steering wheel play	0—30 mm {0—1.1 in}
Steering wheel effort	7.8 N·m {80 kgf·cm, 69 in·lbf} max.
Steering shaft length	394.5 mm {15.53 in}
Steering rack runout	Large diameter portion: 0.15 mm {0.006 in} max. Small diameter portion: 0.20 mm {0.008 in} max.
Tie-rod end rotational torque	0.6—2.0 N·m {6.2—20 kgf·cm, 5.4—17 in·lbf} [Pull scale reading: 5.9—19.6 N {0.61—1.99 kgf, 1.4—4.4 lbf}]
Tie rod swing torque	0.4—4.0 N·m {4.1—40 kgf·cm, 3.6—35 in·lbf} [Pull scale reading: 20—200 N {2.1—20.3 kgf, 4.5—44.9 lbf}]

Pinion shaft rotation torque	Center of rack $\pm 90^\circ$: 1.4—1.8 N·m {15—18 kgf·cm, 13—15 in·lbf} [Pull scale reading: 14—18 N {1.5—1.8 kgf, 3.2—4.0 lbf}] Except center of rack $\pm 90^\circ$: 2.1 N·m {21 kgf·cm, 19 in·lbf} or less [Pull scale reading: 21 N {2.1 kgf, 4.7 lbf} or less]
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