

2012 - Mazda6 - Transmission/ Transaxle

TRANSMISSION/ TRANSAXLE TECHNICAL DATA

Clutch [G66M-R]

Item	Specification
Clutch fluid	SAE J1703 or FMVSS116 DOT-3
Clutch pedal height (Reference Value)	148.8 mm {5.858 in}
Clutch pedal free play	15 mm {0.59 in}
Clutch pedal push rod free play (Reference value)	0.1—0.5 mm {0.004—0.019 in}
Distance A, from clutch disengagement point to clutch pedal full depression position (Reference value)	20 mm {0.79 in} or more
Distance B, from clutch disengagement point to floor covering (Reference value)	58.5 mm {2.30 in}
Clutch pedal full stroke (Reference value)	135.6 mm {5.339 in}
Clutch cover diaphragm spring fingers maximum depth	0.6 mm {0.02 in} max.
Maximum clearance of flatness of the pressure plate	0.3 mm {0.01 in} max.
Clutch cover diaphragm spring fingers maximum misalignment	1.0 mm {0.039 in} max.
Minimum clutch disc thickness	0.3 mm {0.01 in}
Maximum clutch disc runout	0.7 mm {0.03 in}
Flywheel maximum runout	0.1 mm {0.004 in}

Manual Transaxle [G66M-R]

Item		Specification
Transaxle oil	Grade	API Service GL-4 or GL-5
	Viscosity	Any temperature: SAE 75W-90 Above 10 °C {50 °F}: SAE 80W-90
	Capacity (approx. quantity)	2.85 L {3.01 US qt, 2.51 Imp qt}

Automatic Transaxle [FS5A-EL]

Item		Specification
ATF	Type	Mazda Genuine ATF M-V
	Capacity (approx. quantity)	8.14 L {8.60 US qt, 7.16 Imp qt}
	Added amount if ATF is drained from drain plug (approx. quantity)	3.0 L {3.2 US qt, 2.6 Imp qt}
	Added amount if transaxle is overhauled (approx. quantity)	5.0 L {5.3 US qt, 4.4 Imp qt}

Line pressure

Test Condition		Specification (kPa {kgf/cm ² , psi})
Idle	R position	490—710 {5.00—7.23, 71.1—102.0}
	D, M (1GR, 2GR) positions	330—470 {3.37—4.79, 47.9—68.1}
Stall	R position	1,850—2,120 {18.87—21.61, 268.4—307.4}
	D, M (1GR, 2GR) positions	1,200—1,320 {12.24—13.46, 174.1—191.4}

Stall speed

--

Test Condition	Specification (rpm)
R position	2,400—3,000
D position	
M position	

Time lag

Test Condition	Specification (s)
From N position to D position	0.4—0.7
From N position to R position	

Automatic Transaxle [AY6A-EL]

Item		Specification
ATF	Type	Mazda Genuine JWS3309
	Capacity (approx. quantity)	6.6 L {7.0 US qt, 5.8 Imp qt}

Line pressure

Test Condition		Specification (kPa {kgf/cm ² , psi})
Idle	D position	335—505 {3.42—5.14, 48.6—73.2}
	R position	495—705 {5.05—7.18, 71.8—102.0}

Stall speed

Test Condition	Specification (rpm)
R position	2,555
D position	

	2,637
M position	

Time lag

Test Condition	Specification (s)
From N position to D position	1.5 s or less
From N position to R position	

[< Previous](#) [Next >](#)

[Back to Top](#)

© 2012 Mazda North American Operations, U.S.A.

2012 - Mazda6 - Transmission/ Transaxle

TRANSMISSION/ TRANSAXLE TECHNICAL DATA

Clutch [G66M-R]

Item	Specification
Clutch fluid	SAE J1703 or FMVSS116 DOT-3
Clutch pedal height (Reference Value)	148.8 mm {5.858 in}
Clutch pedal free play	15 mm {0.59 in}
Clutch pedal push rod free play (Reference value)	0.1—0.5 mm {0.004—0.019 in}
Distance A, from clutch disengagement point to clutch pedal full depression position (Reference value)	20 mm {0.79 in} or more
Distance B, from clutch disengagement point to floor covering (Reference value)	58.5 mm {2.30 in}
Clutch pedal full stroke (Reference value)	135.6 mm {5.339 in}
Clutch cover diaphragm spring fingers maximum depth	0.6 mm {0.02 in} max.
Maximum clearance of flatness of the pressure plate	0.3 mm {0.01 in} max.
Clutch cover diaphragm spring fingers maximum misalignment	1.0 mm {0.039 in} max.
Minimum clutch disc thickness	0.3 mm {0.01 in}
Maximum clutch disc runout	0.7 mm {0.03 in}
Flywheel maximum runout	0.1 mm {0.004 in}

Manual Transaxle [G66M-R]

Item		Specification
Transaxle oil	Grade	API Service GL-4 or GL-5
	Viscosity	Any temperature: SAE 75W-90 Above 10 °C {50 °F}: SAE 80W-90
	Capacity (approx. quantity)	2.85 L {3.01 US qt, 2.51 Imp qt}

Automatic Transaxle [FS5A-EL]

Item		Specification
ATF	Type	Mazda Genuine ATF M-V
	Capacity (approx. quantity)	8.14 L {8.60 US qt, 7.16 Imp qt}
	Added amount if ATF is drained from drain plug (approx. quantity)	3.0 L {3.2 US qt, 2.6 Imp qt}
	Added amount if transaxle is overhauled (approx. quantity)	5.0 L {5.3 US qt, 4.4 Imp qt}

Line pressure

Test Condition		Specification (kPa {kgf/cm ² , psi})
Idle	R position	490—710 {5.00—7.23, 71.1—102.0}
	D, M (1GR, 2GR) positions	330—470 {3.37—4.79, 47.9—68.1}
Stall	R position	1,850—2,120 {18.87—21.61, 268.4—307.4}
	D, M (1GR, 2GR) positions	1,200—1,320 {12.24—13.46, 174.1—191.4}

Stall speed

--

Test Condition	Specification (rpm)
R position	2,400—3,000
D position	
M position	

Time lag

Test Condition	Specification (s)
From N position to D position	0.4—0.7
From N position to R position	

Automatic Transaxle [AY6A-EL]

Item		Specification
ATF	Type	Mazda Genuine JWS3309
	Capacity (approx. quantity)	6.6 L {7.0 US qt, 5.8 Imp qt}

Line pressure

Test Condition		Specification (kPa {kgf/cm ² , psi})
Idle	D position	335—505 {3.42—5.14, 48.6—73.2}
	R position	495—705 {5.05—7.18, 71.8—102.0}

Stall speed

Test Condition	Specification (rpm)
R position	2,555
D position	

	2,637
M position	

Time lag

Test Condition	Specification (s)
From N position to D position	1.5 s or less
From N position to R position	

[< Previous](#) [Next >](#)

[Back to Top](#)

© 2012 Mazda North American Operations, U.S.A.