

1990-93 ENGINE COOLING

Drive Belt Routing & Adjustment - MX-5 Miata

ADJUSTMENT

NOTE: Ensure drive belts are not worn, cracked or frayed and are correctly mounted on pulleys. See Fig. 1 .

NOTE: If a new belt is used, adjust belt deflection at midpoint of new belt specification.

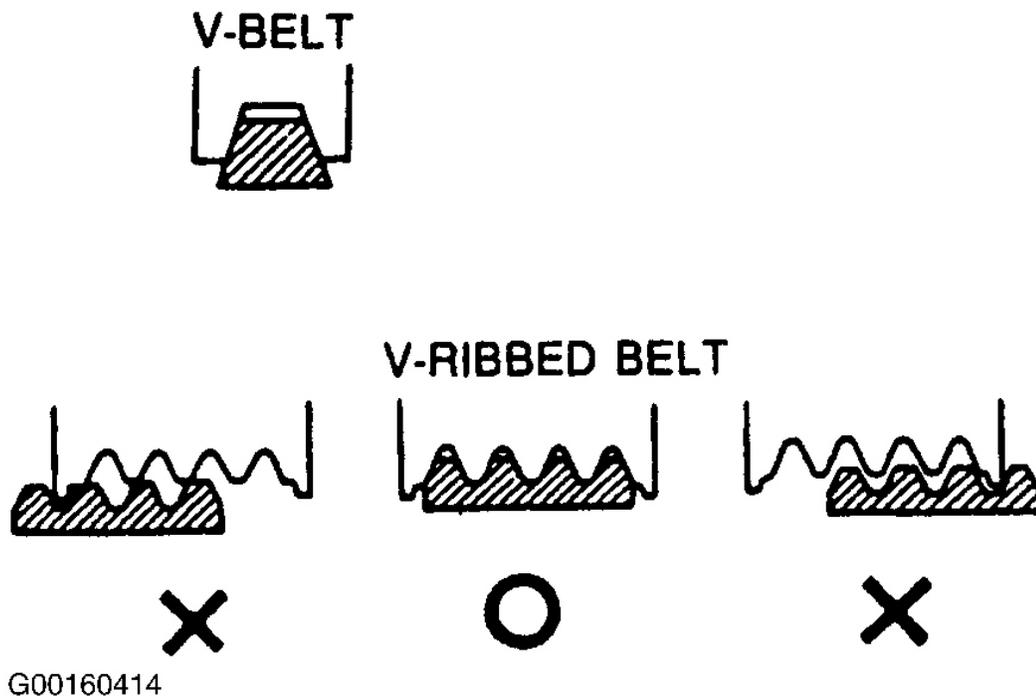


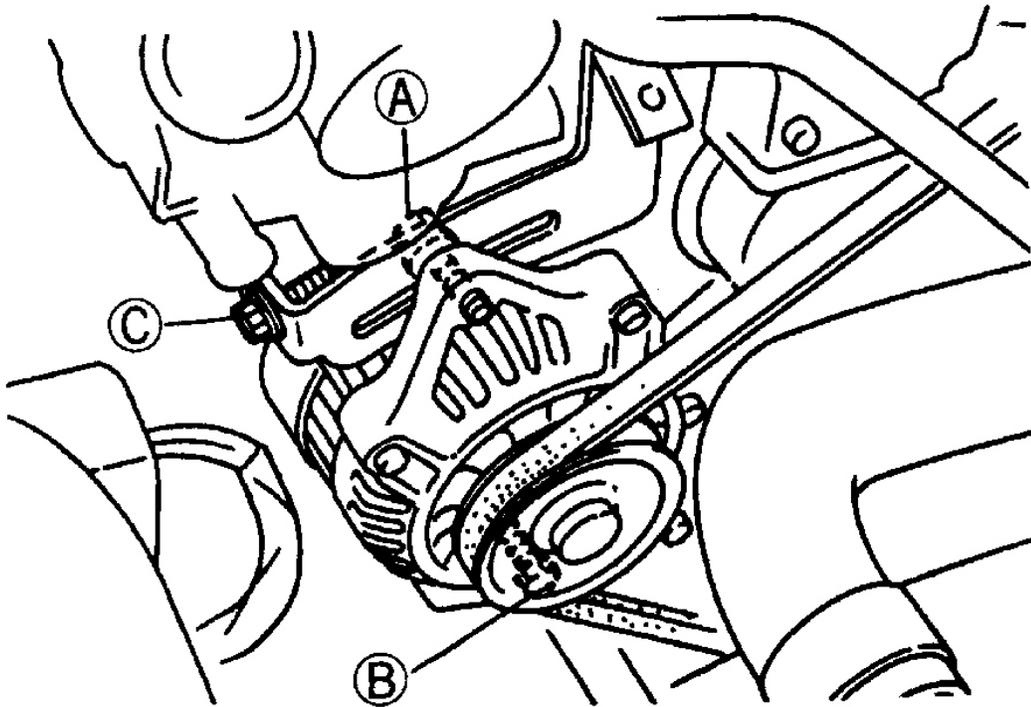
Fig. 1: Identifying Correct Belt Mounting
 Courtesy of MAZDA MOTORS CORP.

ALTERNATOR

Loosen alternator bolts and adjust belt deflection by turning adjusting bolt. See Fig. 2 , Fig. 6 and Fig. 7 . See ADJUSTMENT SPECIFICATIONS . Tighten bolts to specification. See TORQUE SPECIFICATIONS .

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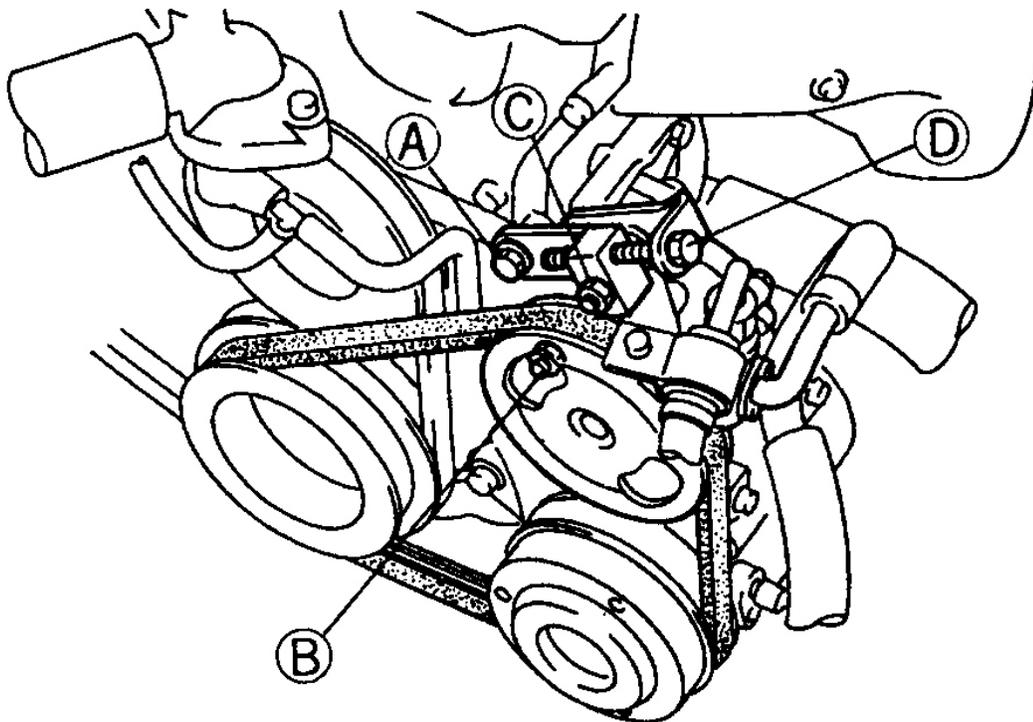


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Fig. 2: Adjusting Alternator Belt
Courtesy of MAZDA MOTORS CORP.

A/C COMPRESSOR

Loosen locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 3** , **Fig. 6** and **Fig. 7** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

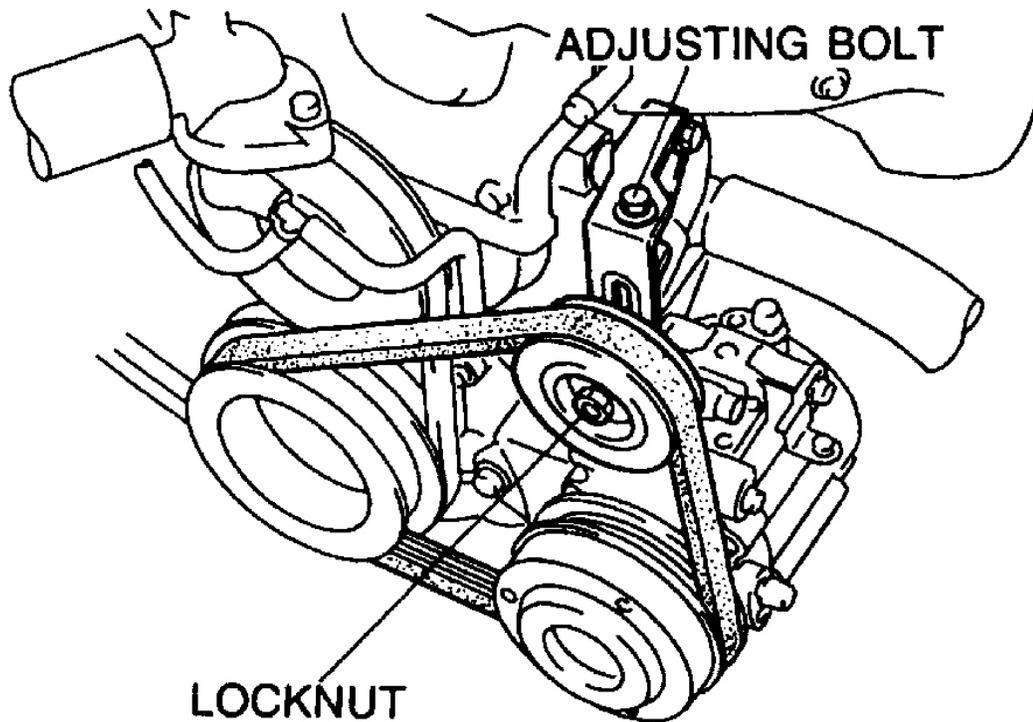


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Fig. 3: Adjusting A/C Compressor & Power Steering Pump Belt
Courtesy of MAZDA MOTORS CORP.

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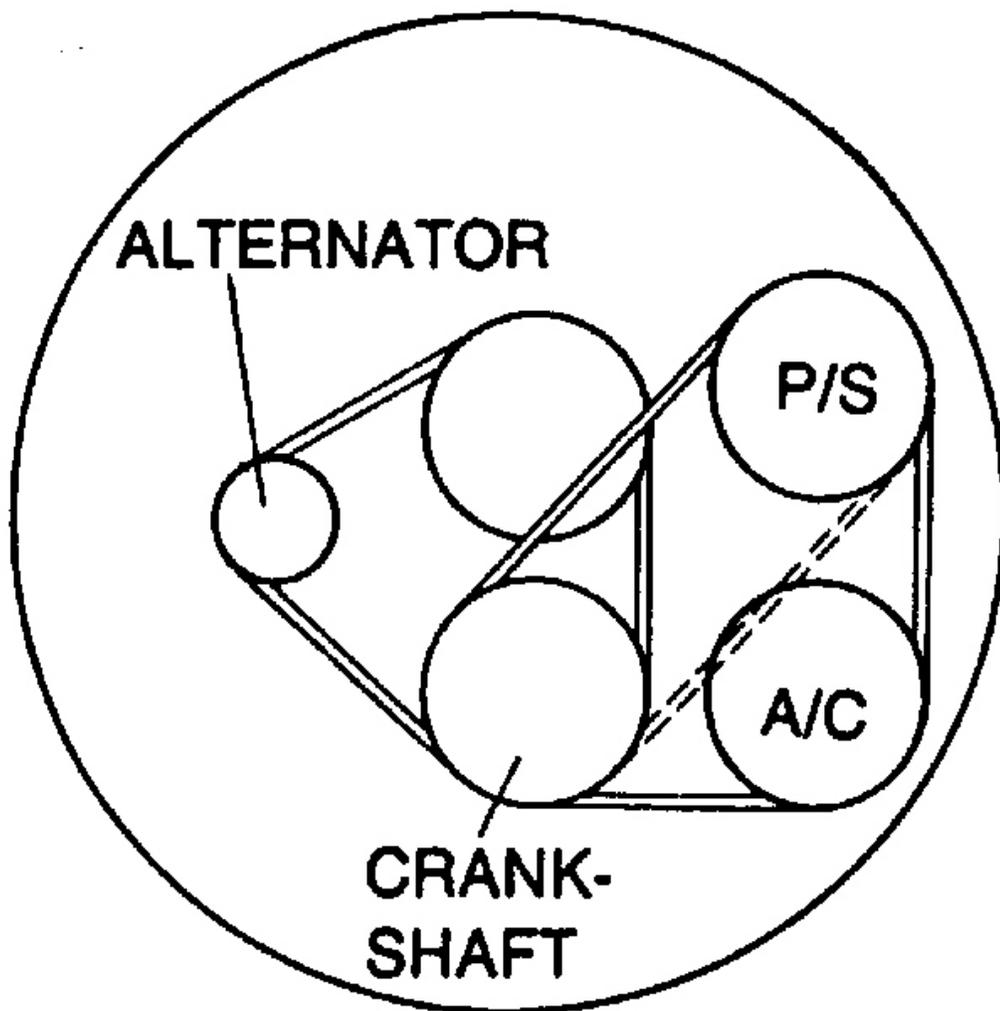
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Fig. 4: Adjusting A/C Compressor Belt
Courtesy of MAZDA MOTORS CORP.

POWER STEERING PUMP

Loosen power steering pump bolt and nuts and adjust belt deflection by turning adjusting bolt. See **Fig. 3** , **Fig. 6** and **Fig. 7** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

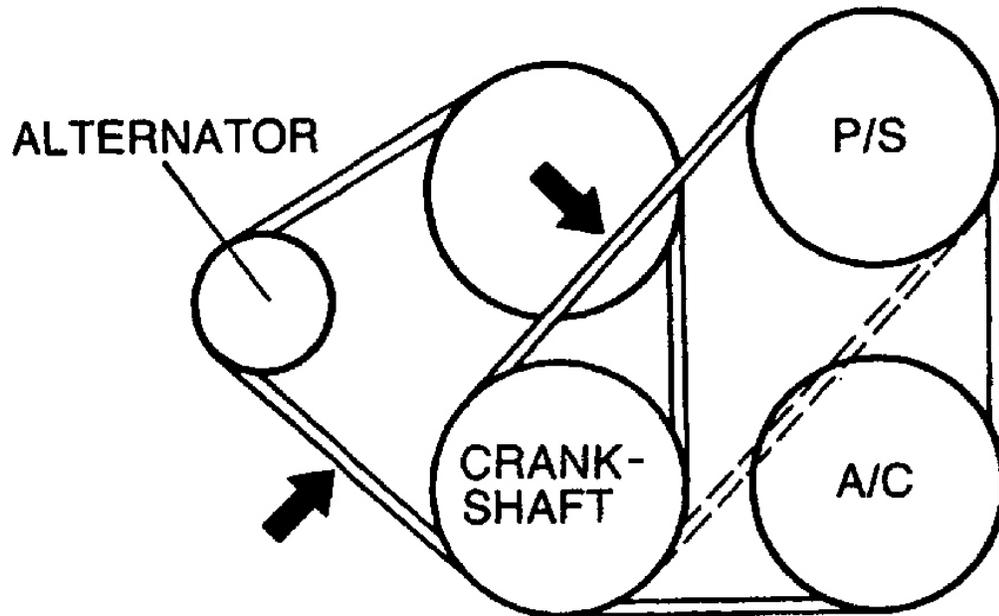
DRIVE BELT ROUTING



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Fig. 5: Identifying Drive Belt Routing & Deflection Check Point (1 Of 3)
Courtesy of MAZDA MOTORS CORP.

P/S or P/S + A/C EQUIPPED



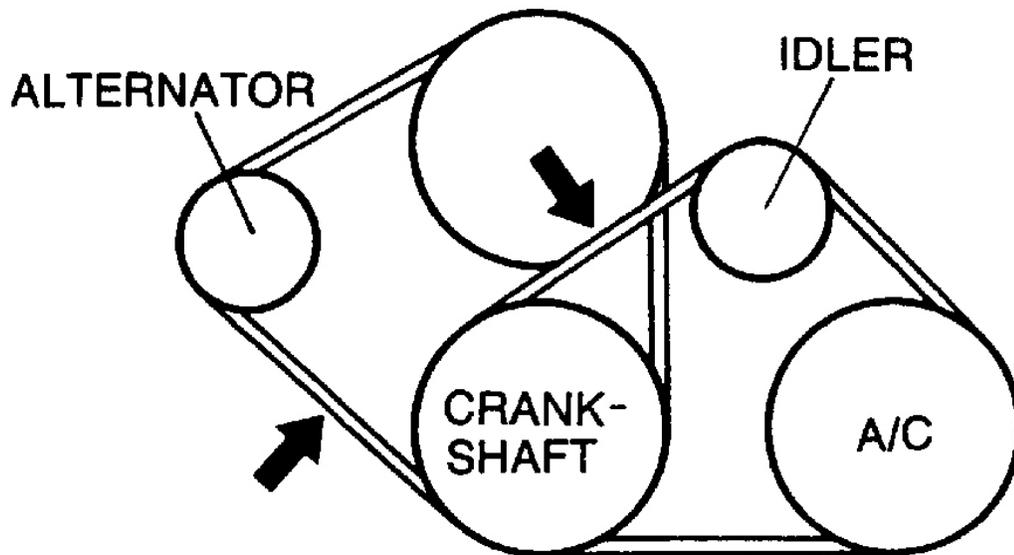
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Fig. 6: Identifying Drive Belt Routing & Deflection Check Point (2 Of 3)
Courtesy of MAZDA MOTORS CORP.

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A/C EQUIPPED



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Fig. 7: Identifying Drive Belt Routing & Deflection Check Point (3 Of 3)
 Courtesy of MAZDA MOTORS CORP.

ADJUSTMENT SPECIFICATIONS

NOTE: Check belt deflection when engine is cold, or has bin off for 30 minutes.

DEFLECTION SPECIFICATIONS

Application	(1) Specification - In. (mm)
New Belt (2)	
Alternator	0.31-0.35 (8-9)
A/C Compressor	0.31-0.35 (8-9)
Power Steering Pump	0.31-0.35 (8-9)
Used Belt	
Alternator	0.35-0.39 (9-10)
A/C Compressor	0.35-0.39 (9-10)
Power Steering Pump	0.35-0.39 (9-10)

(1) Deflection with 22 lbs. (10 kg) pressure applied midway on belt run.

Used on for less than 5 minutes.

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(2)

TENSION SPECIFICATIONS

Application	(1) Specification - Lbs. (kg)
New Belt (2)	
Alternator	110-132 (50-60)
A/C Compressor	110-132 (50-60)
Power Steering Pump	110-132 (50-60)
Used Belt	
Alternator	95-110 (43-50)
A/C Compressor	95-110 (43-50)
Power Steering Pump	95-110 (43-50)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Alternator Adjusting Bolt	
"A"	14-18 (19-25)
"B"	27-38 (37-52)
A/C Compressor Locknut	27-38 (37-52)
Power Steering Pump Adjusting Bolt	
"A"	23-44 (31-46)
"B"	27-40 (37-54)
"C"	14-18 (19-25)