

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

1994-98 ENGINE COOLING

Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

APPLICATION

Information presented in this article applies to the following years and models. See **YEAR & MODEL APPLICATION** .

YEAR & MODEL APPLICATION

Years	Model
1997	B2300
1997	B4000
1998	B2500, B3000 & B4000
1997-98	Millenia
1997-98	MPV
1994-97	MX-5 Miata
1995-98	Protege

ADJUSTMENTS

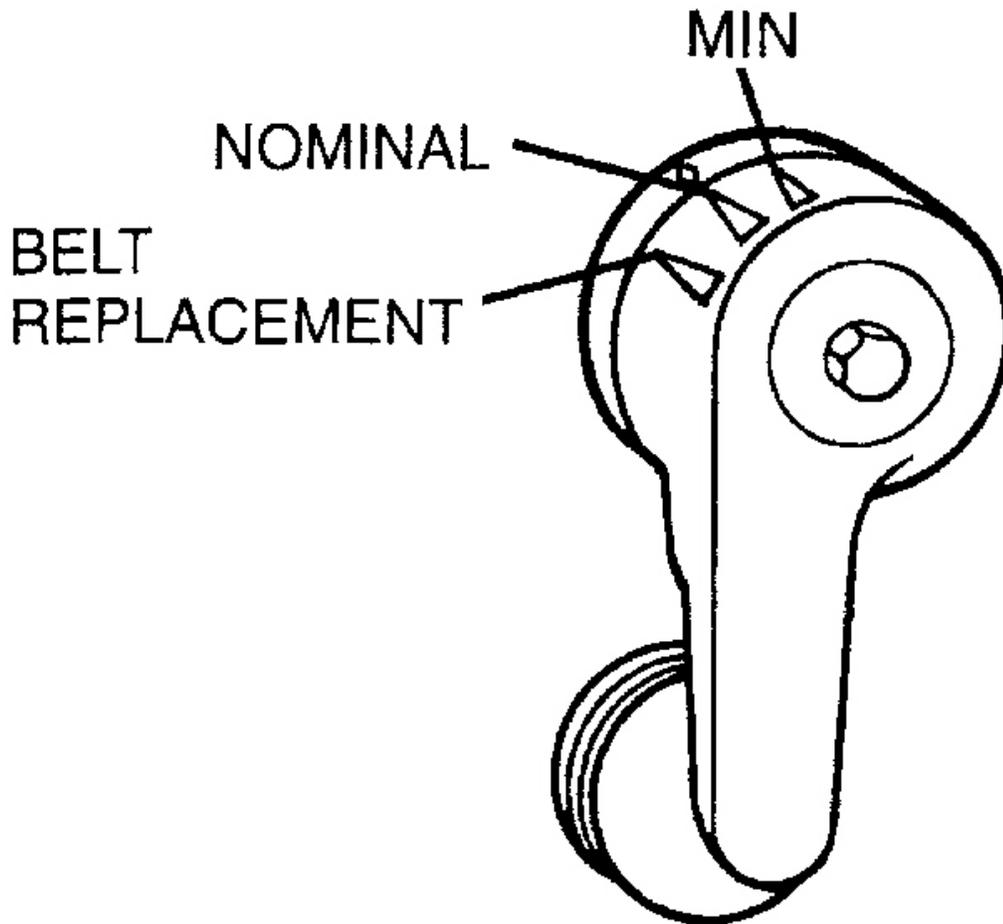
NOTE: If a new belt is used, adjust belt deflection at midpoint of new belt specification.

B4000 & MILLENIA (2.3L)

NOTE: "B" Series Pickup and Millenia 2.3L are equipped with serpentine belts that are automatically adjusted by tensioner. Millenia is equipped with 2 serpentine belts (alternator and power steering pump). Replace belts if tensioner indicates belt is out of adjustment range. See Fig. 1 - Fig. 3 . DO NOT apply belt dressing to serpentine belt.

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Miata & Protege

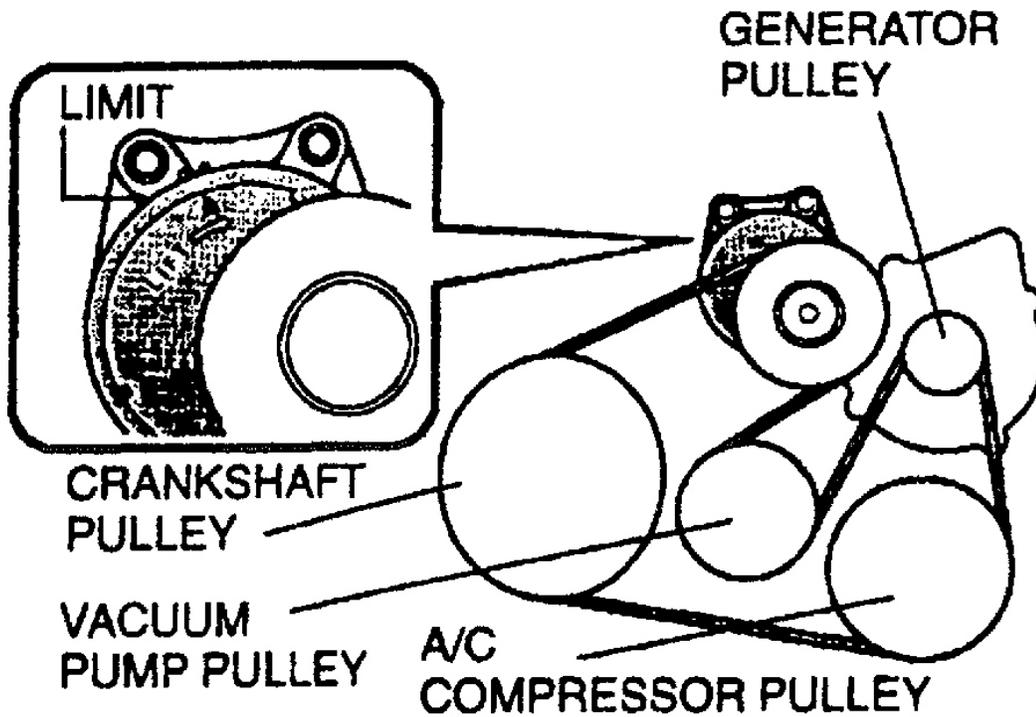


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Fig. 1: Checking Serpentine Belt Tension (B4000)
Courtesy of MAZDA MOTORS CORP.

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Miata & Protege

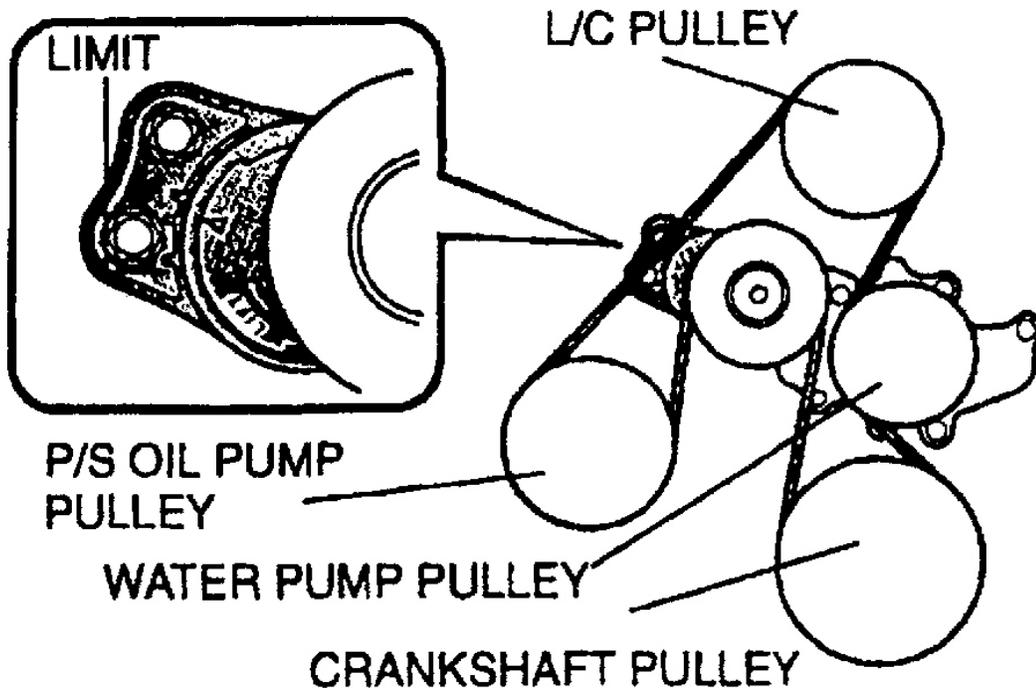


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Fig. 2: Checking Alternator Serpentine Belt Tension (Millenia, 2.3L)
Courtesy of MAZDA MOTORS CORP.

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Fig. 3: Checking Power Steering Pump Serpentine Belt Tension (Millenia, 2.3L)
Courtesy of MAZDA MOTORS CORP.

MILLENIA

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

Alternator (2.5L)

Loosen idler pulley locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 4** and **Fig. 19**. See **ADJUSTMENT SPECIFICATIONS**. Tighten bolts to specification. See **TORQUE SPECIFICATIONS**.

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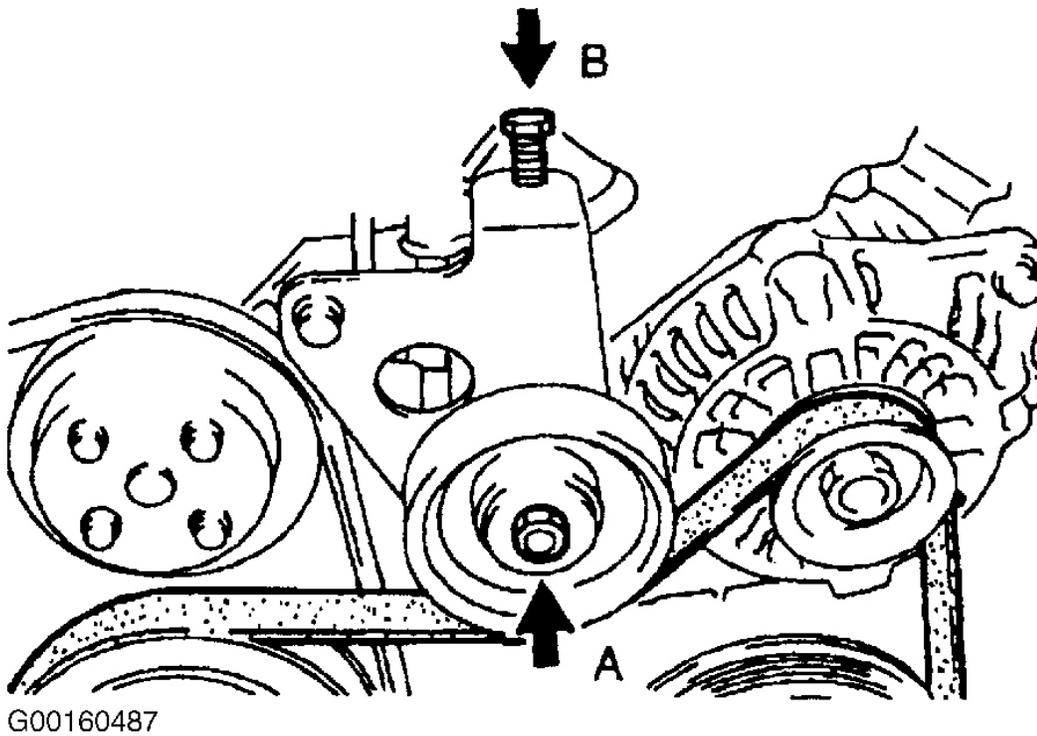


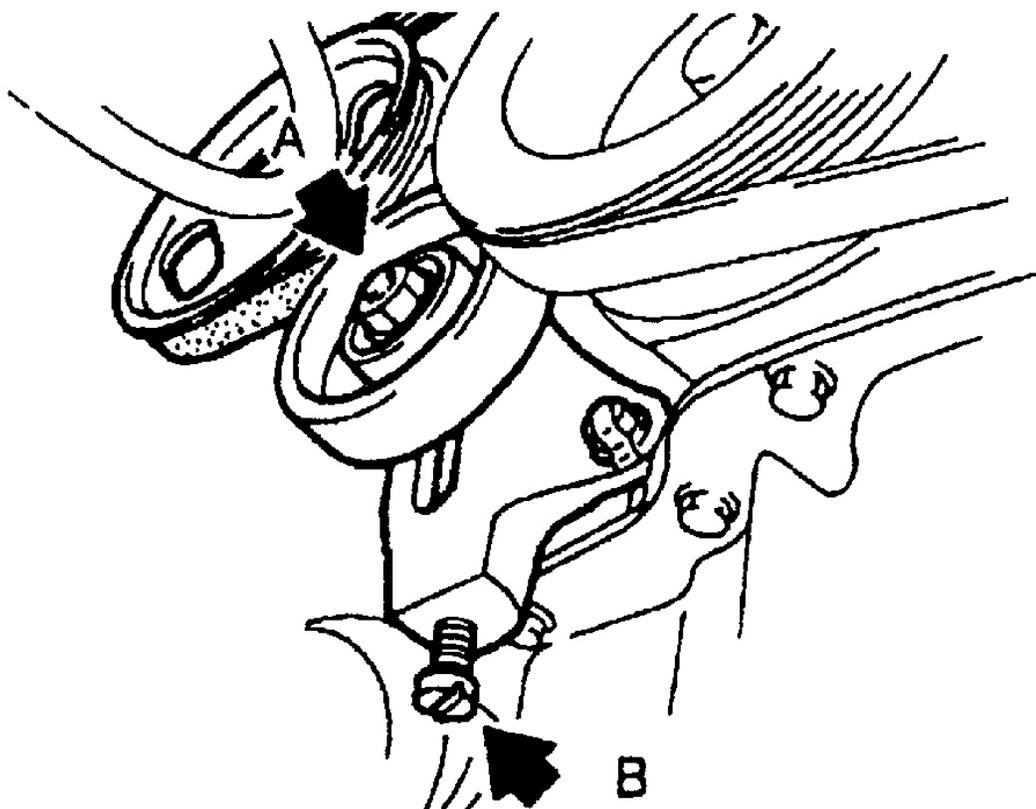
Fig. 4: Adjusting Alternator Belt (Millenia, 2.5L)
Courtesy of MAZDA MOTORS CORP.

Power Steering Pump (2.5L)

Loosen idler pulley locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 5** and **Fig. 20** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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Miata & Protege



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Fig. 5: Adjusting Power Steering Pump Belt (Millenia, 2.5L)
Courtesy of MAZDA MOTORS CORP.

MPV

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

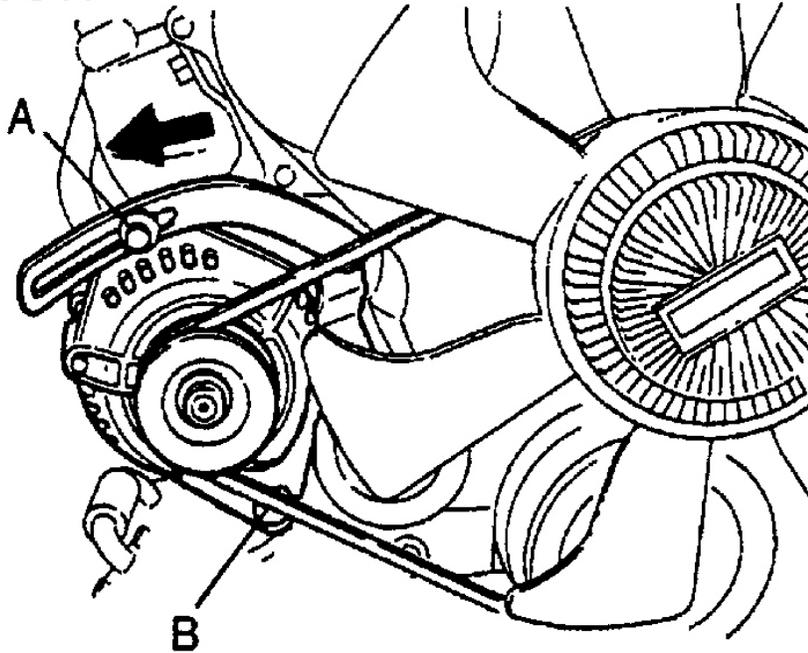
Alternator

Loosen alternator bolts and adjust belt deflection by levering generator outward and applying tension. See **Fig. 6** and **Fig. 21** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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Miata & Protege

GENERATOR



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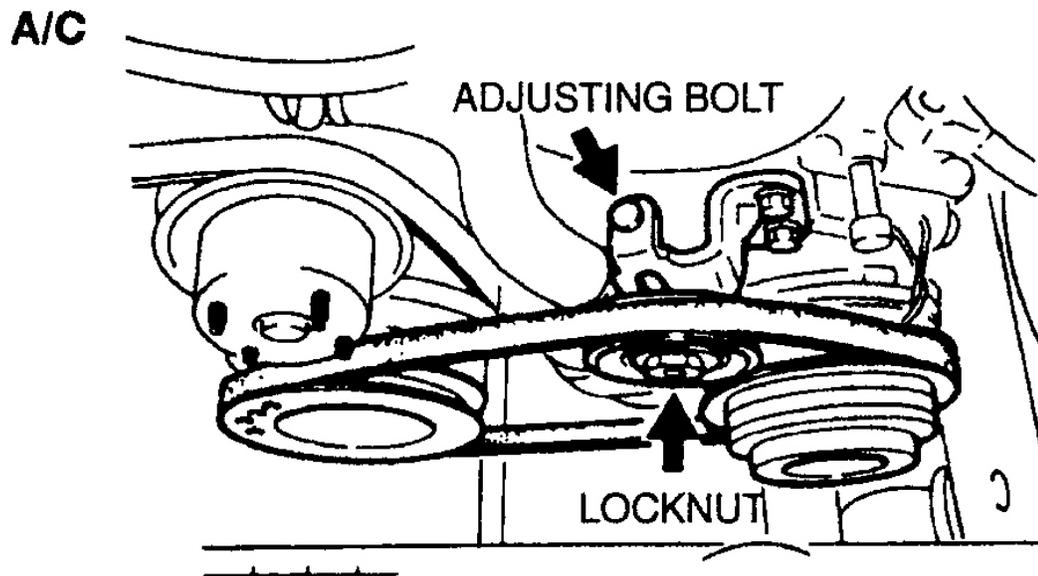
Fig. 6: Adjusting Alternator Belt (MPV)
Courtesy of MAZDA MOTORS CORP.

A/C Compressor

Loosen locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 7** and **Fig. 23** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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Miata & Protege



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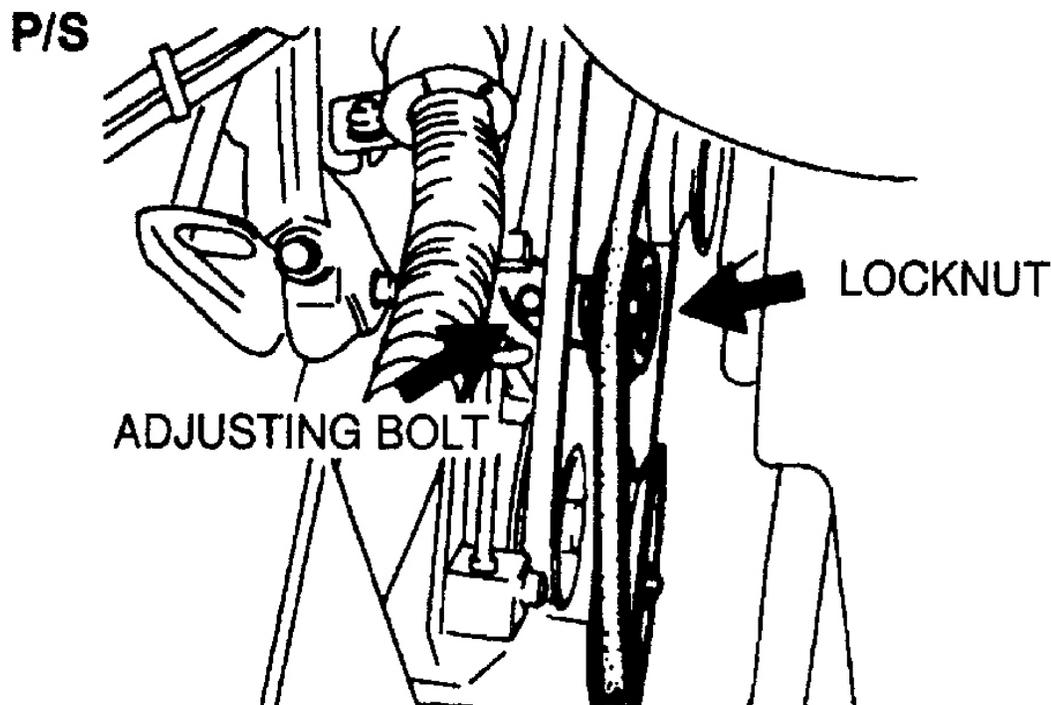
Fig. 7: Adjusting A/C Compressor Belt (MPV)
Courtesy of MAZDA MOTORS CORP.

Power Steering Pump

Loosen locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 8** and **Fig. 22** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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Fig. 8: Adjusting Power Steering Pump Belt (MPV)
Courtesy of MAZDA MOTORS CORP.

MX-5 MIATA

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

Alternator

Loosen alternator bolts and adjust belt deflection by turning adjusting bolt. See **Fig. 9** and **Fig. 25**. See **ADJUSTMENT SPECIFICATIONS**. Tighten bolts to specification. See **TORQUE SPECIFICATIONS**.

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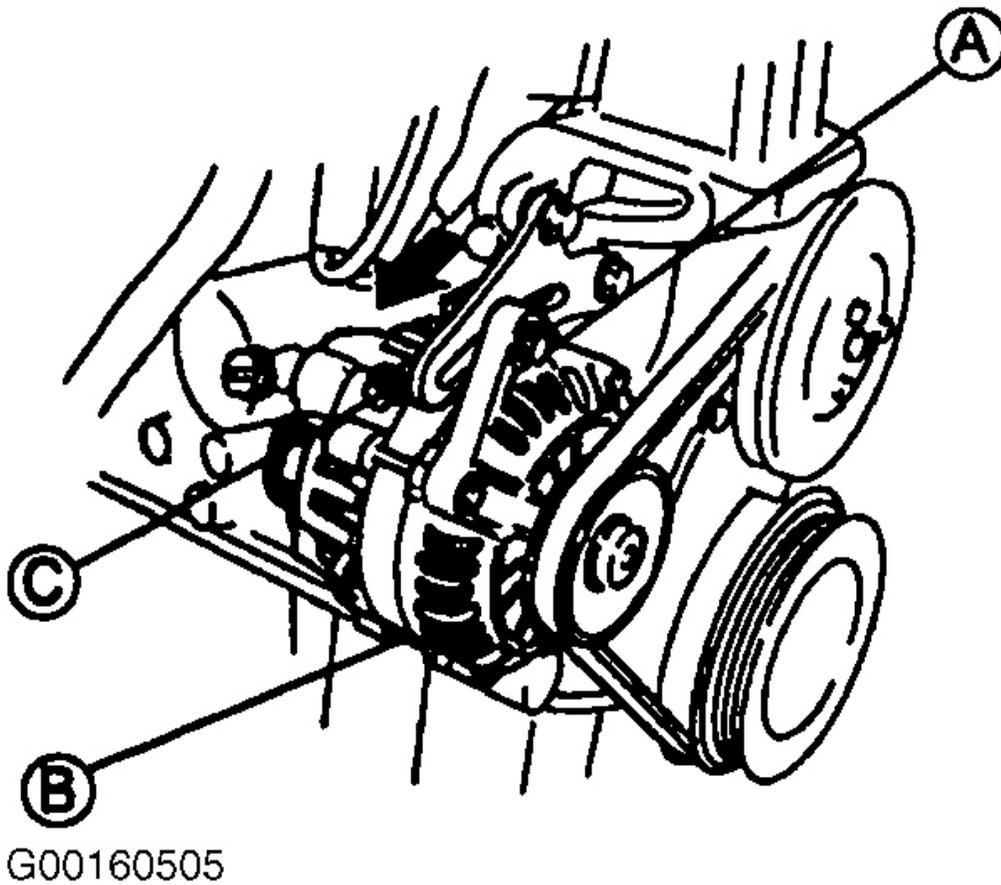


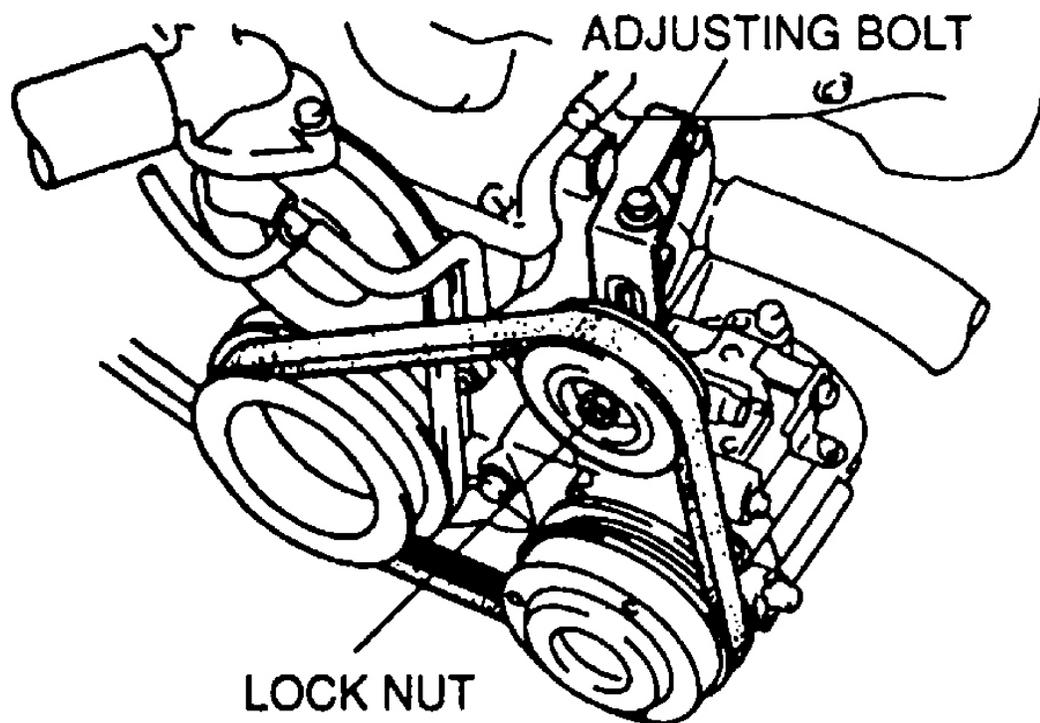
Fig. 9: Adjusting Alternator Belt (MX-5 Miata)
Courtesy of MAZDA MOTORS CORP.

A/C Compressor

Loosen locknut and adjust belt deflection by turning adjusting bolt. See **Fig. 10** and **Fig. 26** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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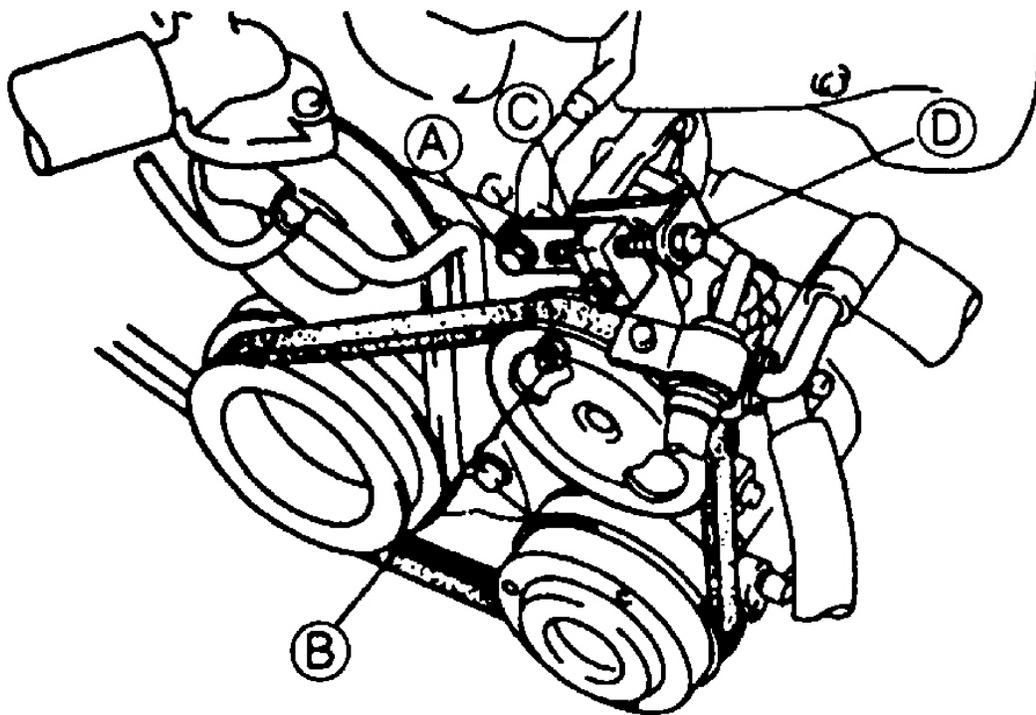
Fig. 10: Adjusting A/C Compressor Belt (MX-5 Miata)
Courtesy of MAZDA MOTORS CORP.

Power Steering Pump

Loosen power steering pump nut and bolt, and adjust belt deflection by turning adjusting bolt. See **Fig. 11** and **Fig. 25** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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Fig. 11: Adjusting Power Steering Pump Belt (MX-5 Miata)
Courtesy of MAZDA MOTORS CORP.

PROTEGE

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

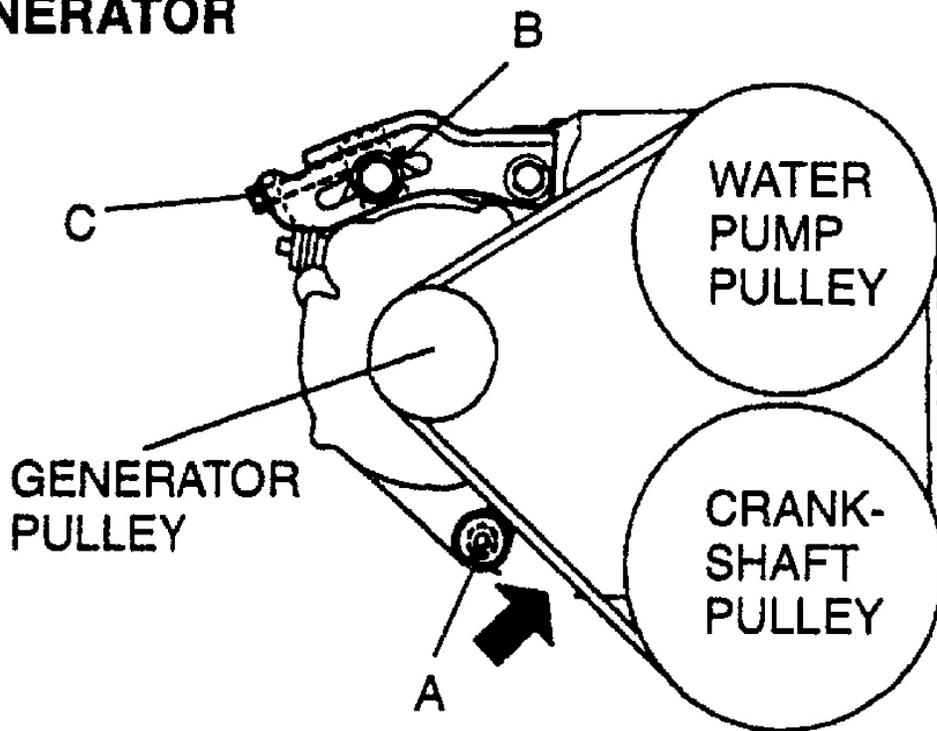
Alternator

Loosen bolts and adjust belt deflection by turning adjusting bolt. See **Fig. 12** and **Fig. 27** . See **ADJUSTMENT SPECIFICATIONS** . Tighten bolts to specification. See **TORQUE SPECIFICATIONS** .

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GENERATOR



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Fig. 12: Adjusting Alternator Belt (Protege)
Courtesy of MAZDA MOTORS CORP.

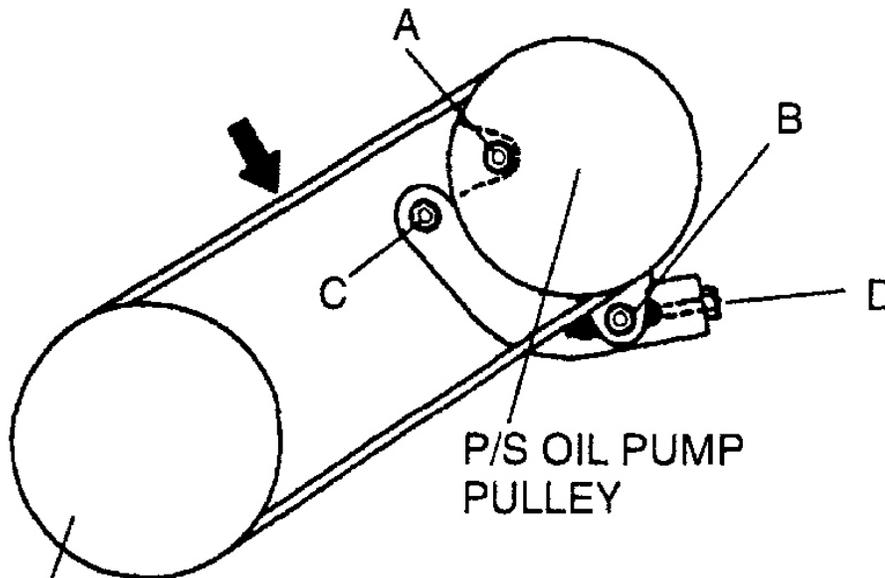
Power Steering Pump

Loosen nuts and bolts and adjust belt deflection by turning adjusting bolt. See **Fig. 13**, **Fig. 14** and **Fig. 28**. See **ADJUSTMENT SPECIFICATIONS**. Tighten bolts to specification. See **TORQUE SPECIFICATIONS**.

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Miata & Protege

P/S



P/S OIL PUMP
PULLEY

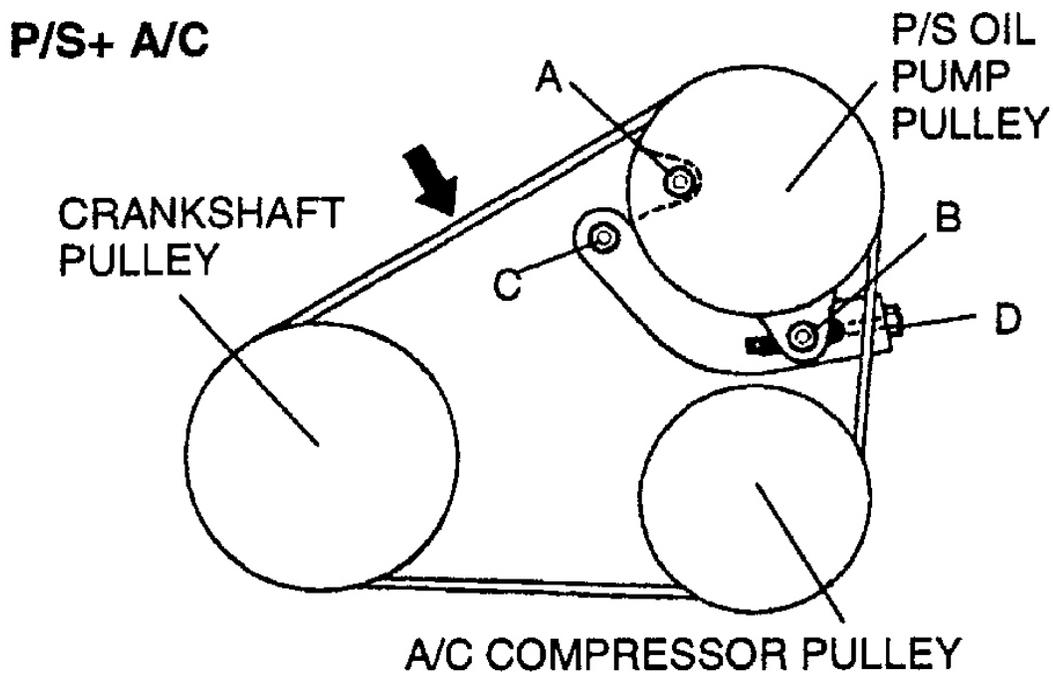
CRANKSHAFT PULLEY

G00160500

Fig. 13: Adjusting Power Steering Pump Belt (Without A/C, Protege)
Courtesy of MAZDA MOTORS CORP.

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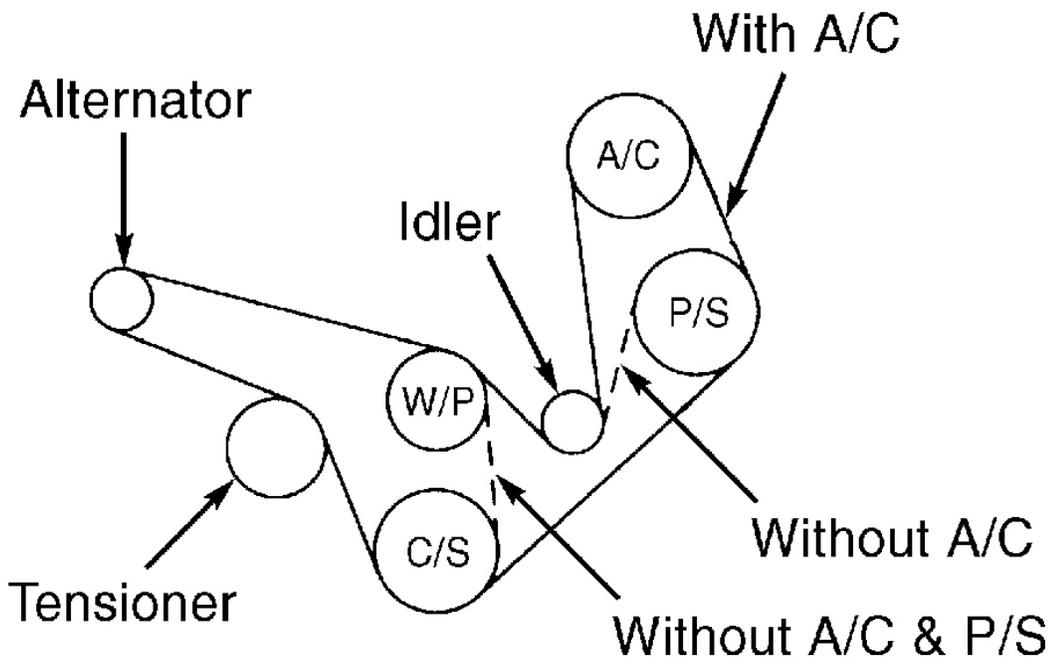
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Fig. 14: Adjusting Power Steering Pump Belt (With A/C, Protege)
Courtesy of MAZDA MOTORS CORP.

DRIVE BELT ROUTING

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

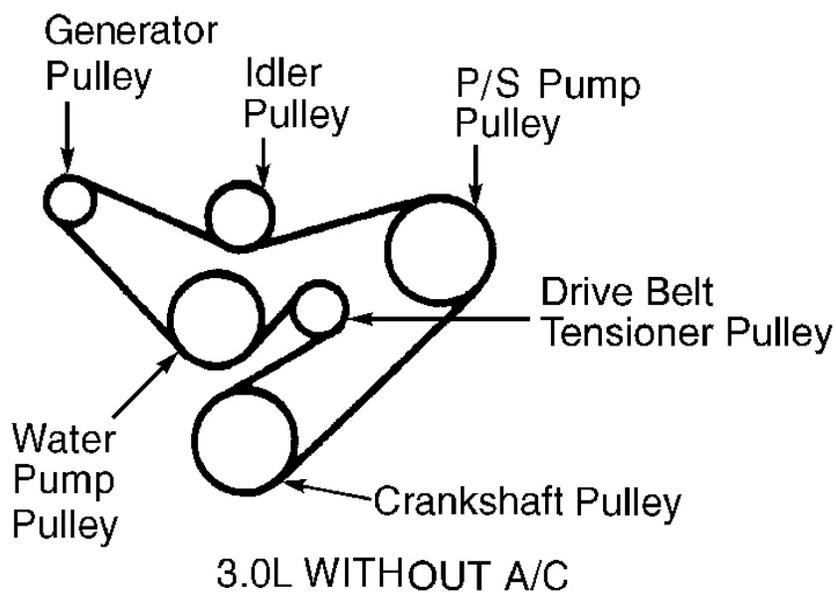
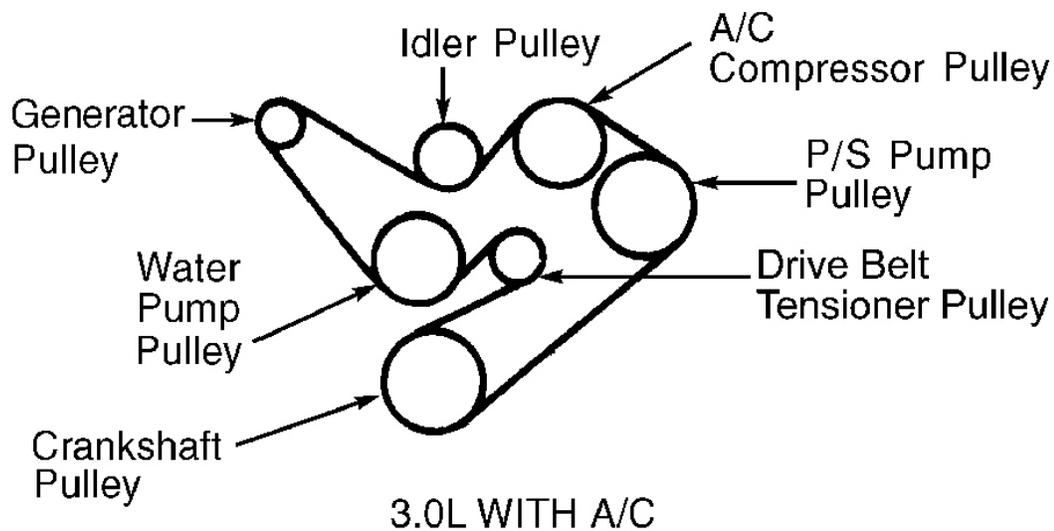


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Fig. 15: Identifying Drive Belt Routing (B2300 & B2500)
Courtesy of FORD MOTOR CO.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege



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Fig. 16: Identifying Drive Belt Routing (B3000)
Courtesy of FORD MOTOR CO.

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1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

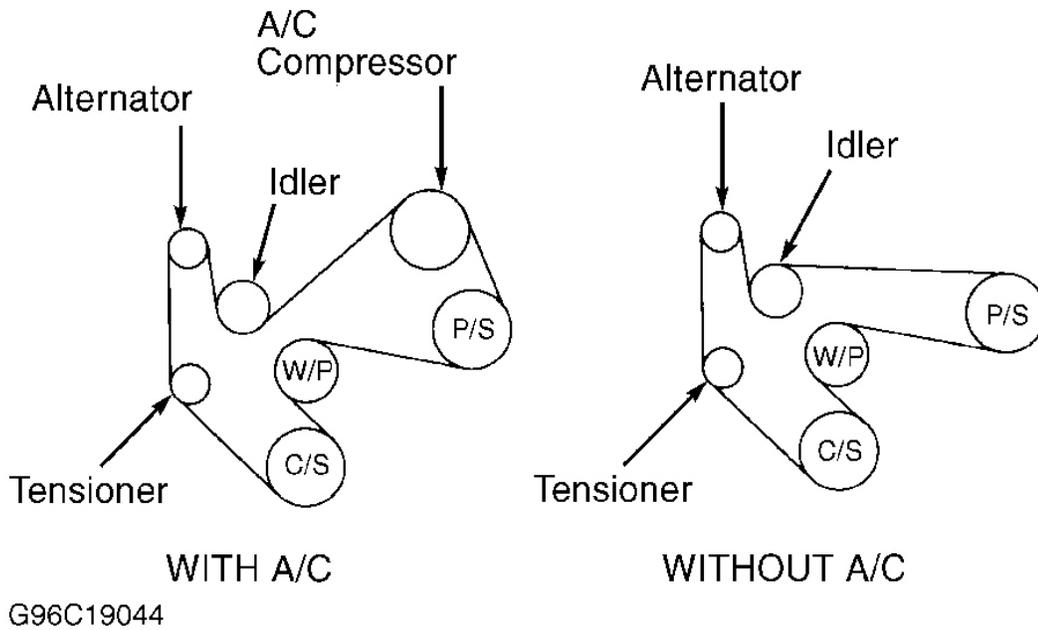
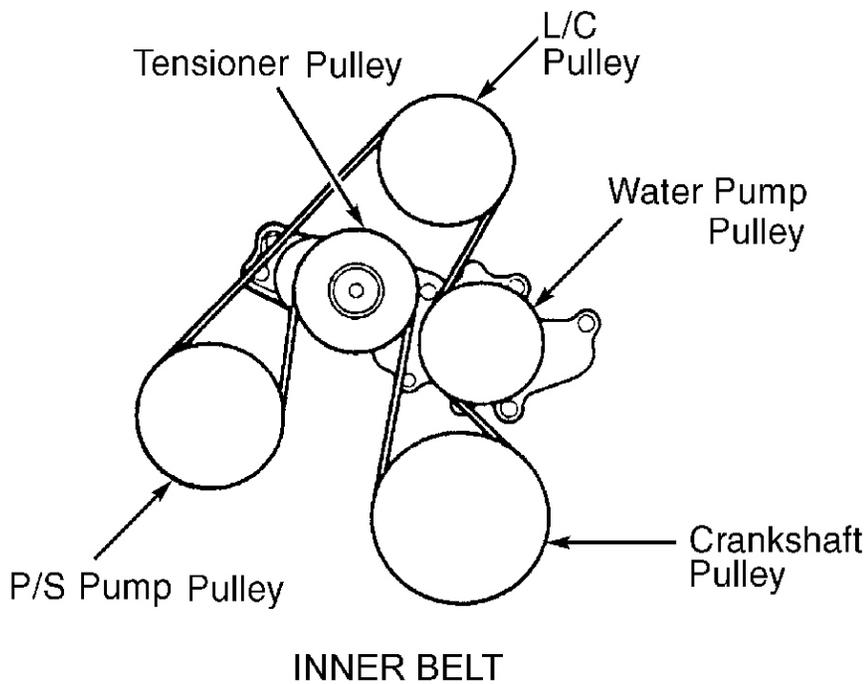
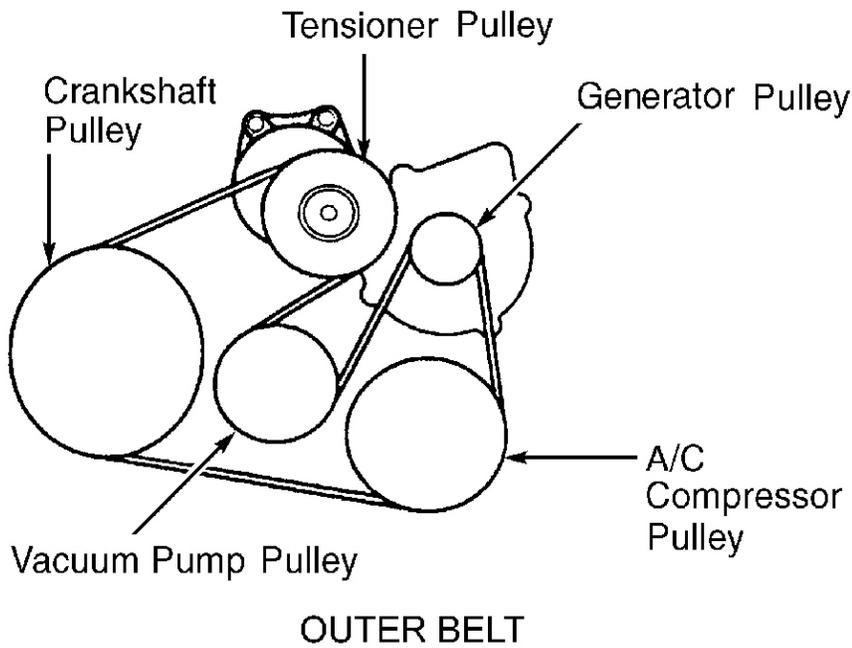


Fig. 17: Identifying Drive Belt Routing (B4000)
Courtesy of FORD MOTOR CO.

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1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege



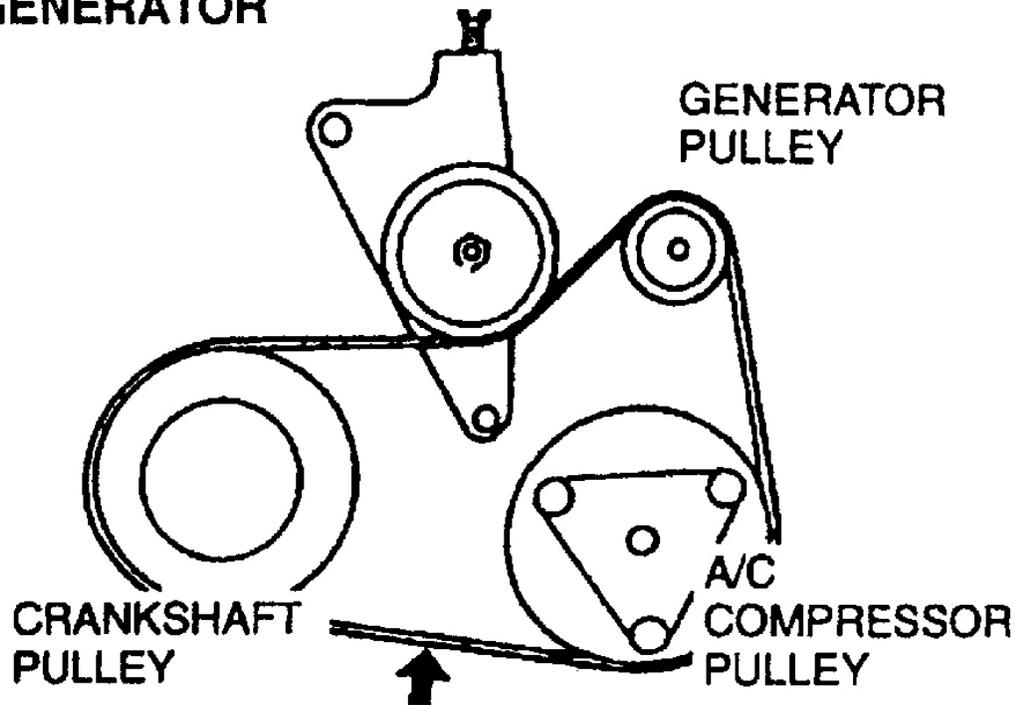
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Fig. 18: Identifying Drive Belt Routing (Millenia, 2.3L)
Courtesy of FORD MOTOR CO.

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1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

GENERATOR

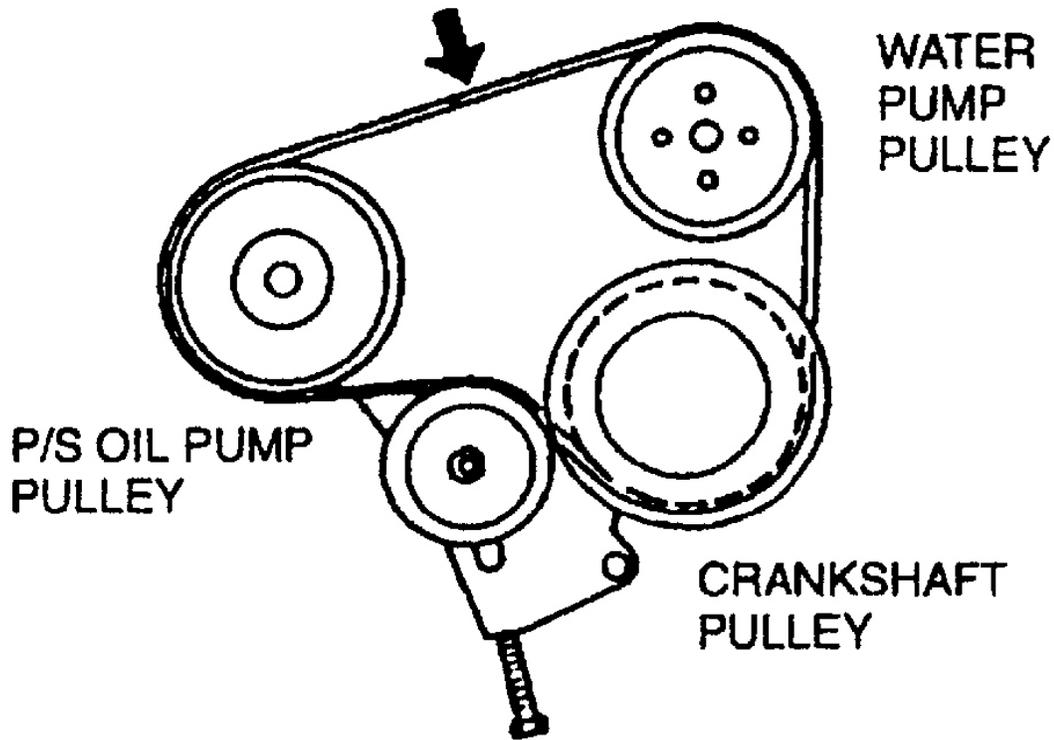


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**Fig. 19: Identifying Drive Belt Routing & Deflection Check Point (Millenia, 2.5L, 1 Of 2)
Courtesy of MAZDA MOTORS CORP.**

1997 Mazda MX-5 Miata

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Miata & Protege

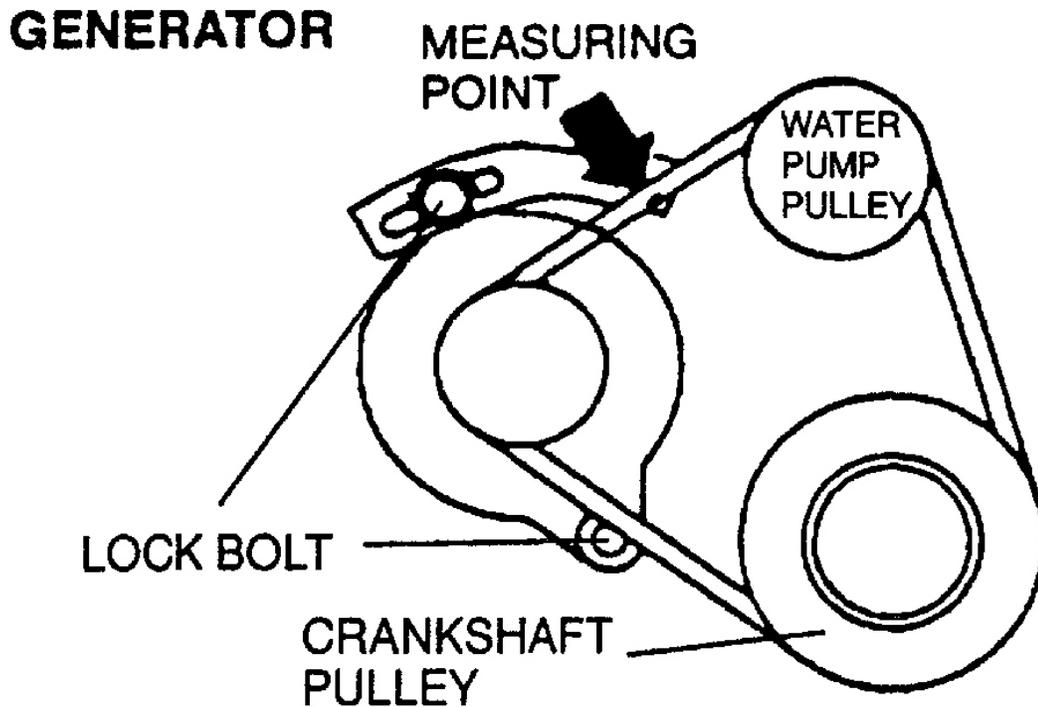


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Fig. 20: Identifying Drive Belt Routing & Deflection Check Point (Millenia, 2.5L, 2 Of 2)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

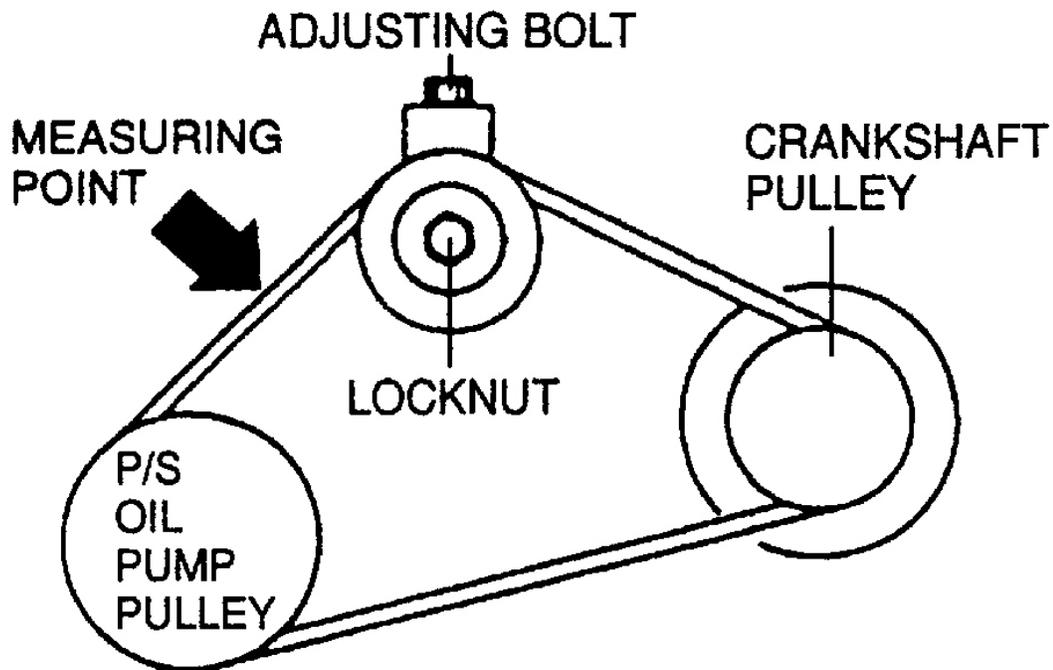


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Fig. 21: Identifying Drive Belt Routing & Deflection Check Point (MPV, 1 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

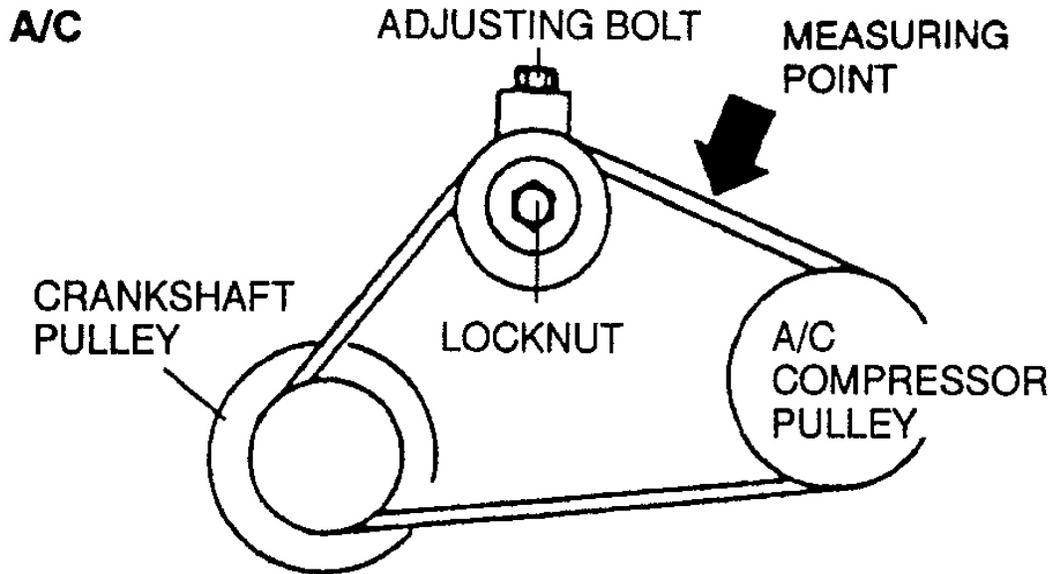


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Fig. 22: Identifying Drive Belt Routing & Deflection Check Point (MPV, 2 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

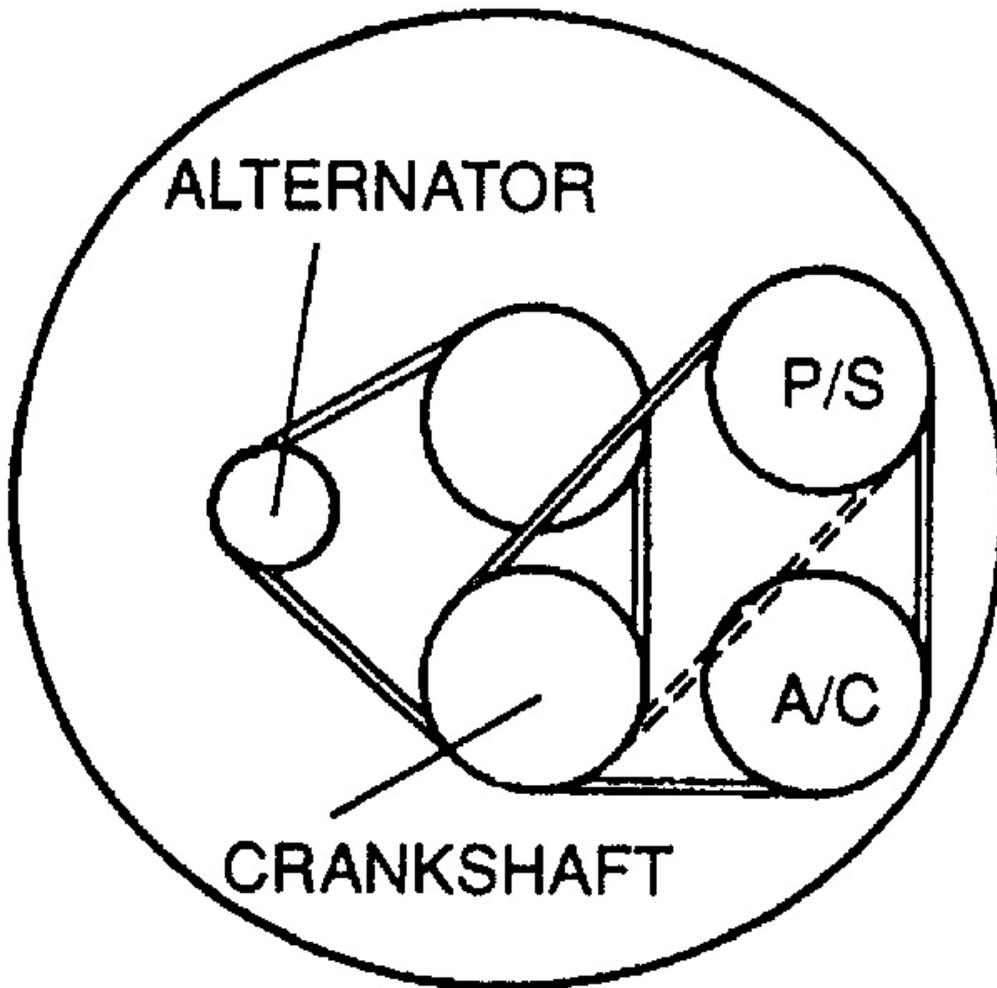


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Fig. 23: Identifying Drive Belt Routing & Deflection Check Point (MPV, 3 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege



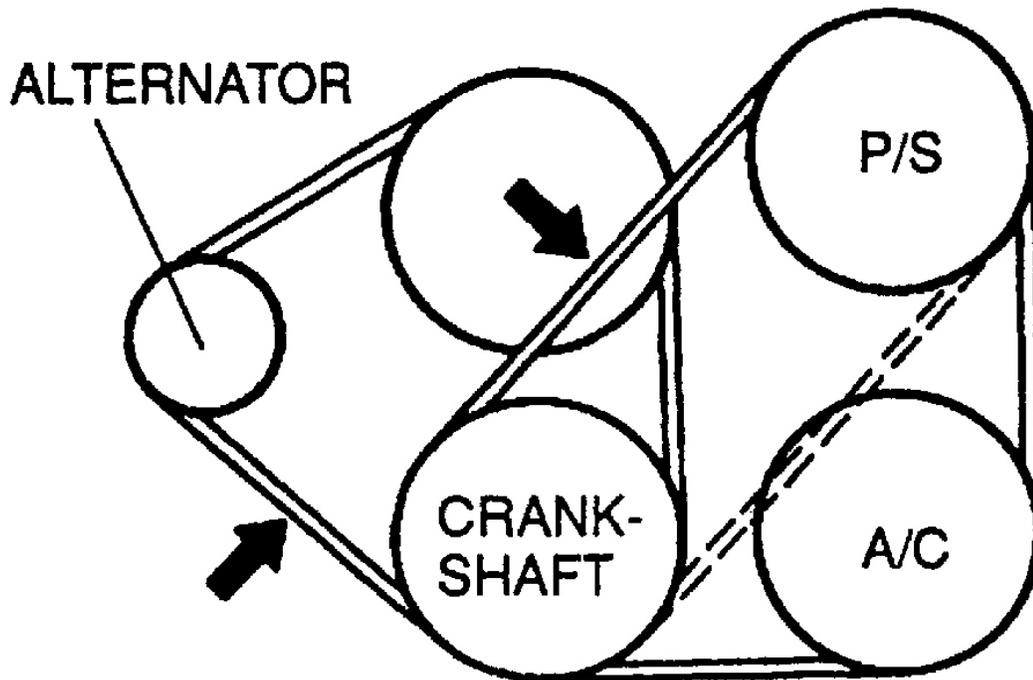
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Fig. 24: Identifying Drive Belt Routing & Deflection Check Point (MX-5 Miata, 1 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

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



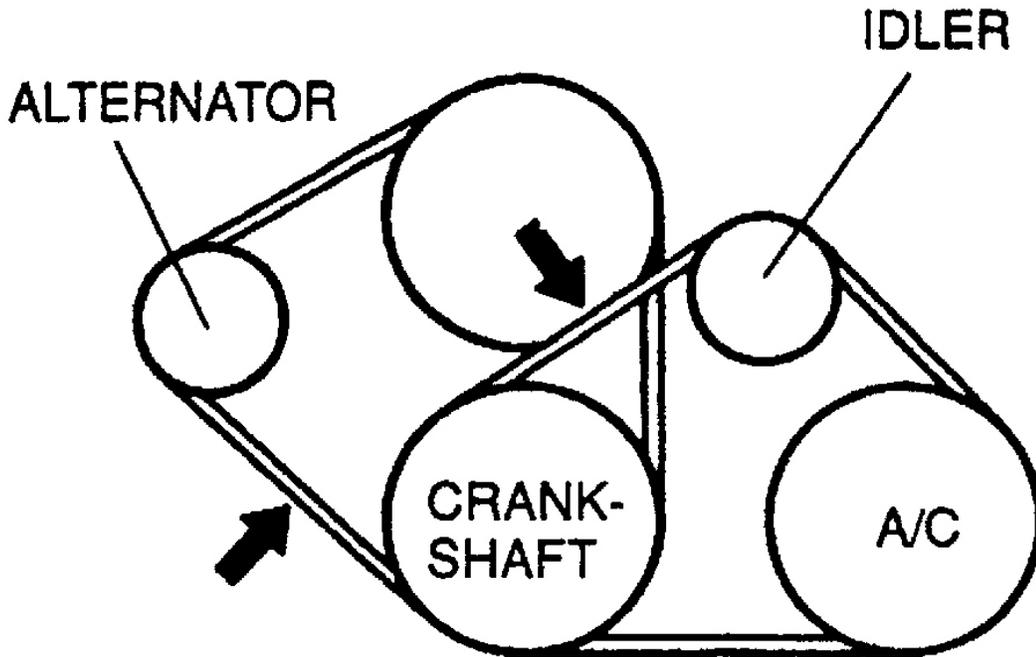
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Fig. 25: Identifying Drive Belt Routing & Deflection Check Point (MX-5 Miata, 2 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

A/C EQUIPPED

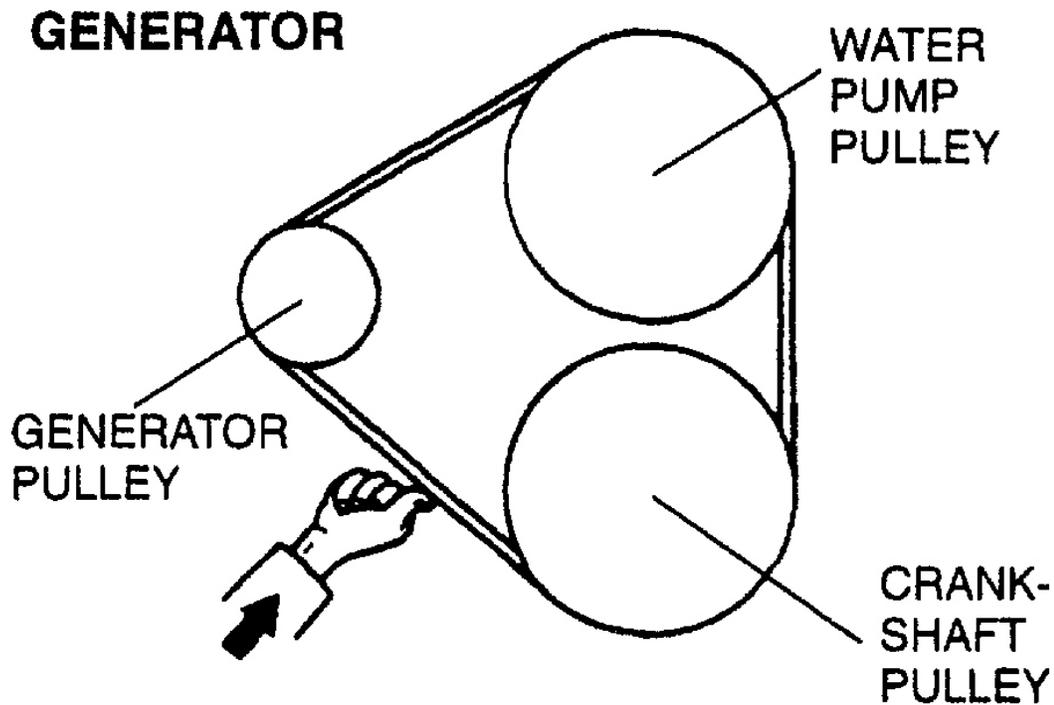


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Fig. 26: Identifying Drive Belt Routing & Deflection Check Point (MX-5 Miata, 3 Of 3)
Courtesy of MAZDA MOTORS CORP.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege



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Fig. 27: Identifying Drive Belt Routing & Deflection Check Point (Protege, 1 Of 2)
Courtesy of MAZDA MOTORS CORP.

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1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

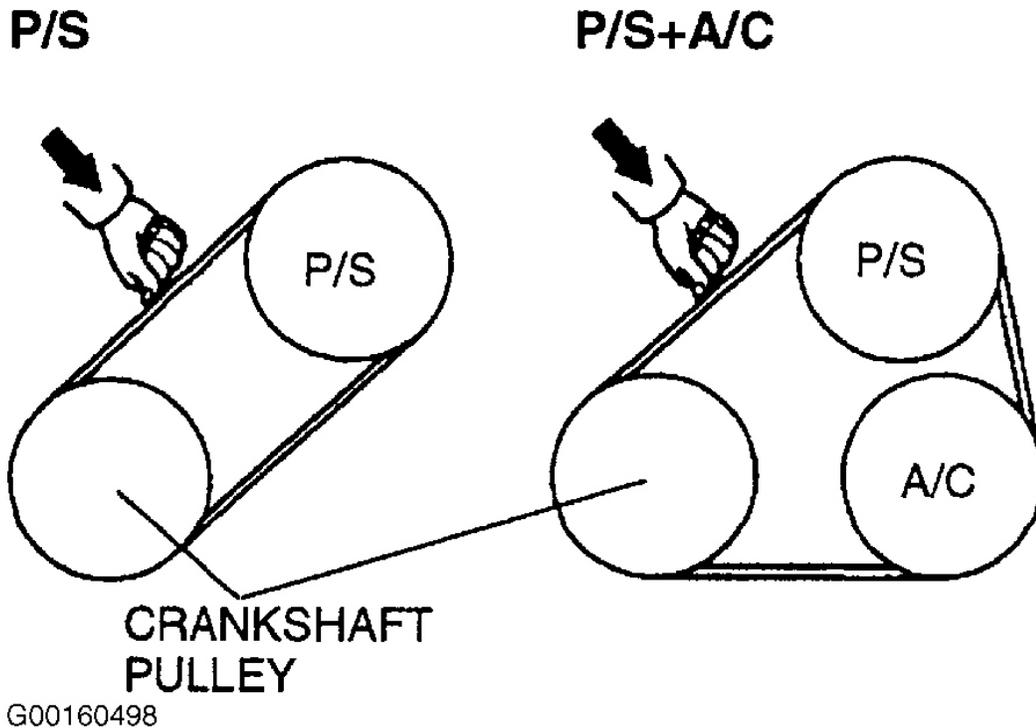


Fig. 28: Identifying Drive Belt Routing & Deflection Check Point (Protege, 2 Of 2)
Courtesy of MAZDA MOTORS CORP.

ADJUSTMENT SPECIFICATIONS

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

DEFLECTION SPECIFICATIONS (MILLENNIA, 2.5L)

Application	(1) Specification - In. (mm)
New Belt (2)	
Alternator	0.22-0.25 (5.5-6.5)
Power Steering Pump	0.24-0.27 (6-7)
Used Belt	
Alternator	0.25-0.29 (6.5-7.5)
Power Steering Pump	0.27-0.31 (7-8)
Wear Limit	
Alternator	0.31 (8)
Power Steering Pump	0.35 (9)

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

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(2) Used on for less than 5 minutes.

DEFLECTION SPECIFICATIONS (1996, MPV)

Application	(1) Specification - In. (mm)
New Belt (2)	
Alternator	0.36-0.39 (9-10)
A/C Compressor	0.16-0.17 (4-4.5)
Power Steering Pump	0.28-0.29 (7-7.5)
Used Belt	
Alternator	0.39-0.47 (10-12)
A/C Compressor	0.17-0.21 (4.5-5.5)
Power Steering Pump	0.30-0.32 (7.5-8.2)
Wear Limit	
Alternator	0.71 (18)
A/C Compressor	0.33 (8.5)
Power Steering Pump	0.53 (13.5)
(1) Deflection with 22 lbs. (10 kg) pressure applied midway on belt run.	
(2) Used on for less than 5 minutes.	

DEFLECTION SPECIFICATIONS (1997-98, MPV)

Application	(1) Specification - In. (mm)
New Belt (2)	
Alternator	0.36-0.39 (9-10)
A/C Compressor	0.18-0.19 (4.5-5)
Power Steering Pump	0.28-0.29 (7-7.5)
Used Belt	
Alternator	0.39-0.47 (10-12)
A/C Compressor	0.20-0.22 (5-5.6)
Power Steering Pump	0.30-0.32 (7.5-8.2)
Wear Limit	
Alternator	0.71 (18)
A/C Compressor	0.33 (8.5)
Power Steering Pump	0.53 (13.5)
(1) Deflection with 22 lbs. (10 kg) pressure applied midway on belt run.	
(2) Used on for less than 5 minutes.	

DEFLECTION SPECIFICATIONS (MX-5 MIATA)

Application	(1) Specification - In. (mm)
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Miata & Protege

New Belt ⁽²⁾

Alternator	0.22-0.27 (5.5-7)
A/C Compressor	0.32-0.35 (8-9)
Power Steering Pump	0.32-0.35 (8-9)

Used Belt

Alternator	0.24-0.29 (6-7.5)
A/C Compressor	0.35-0.39 (9-10)
Power Steering Pump	0.35-0.39 (9-10)

Wear Limit

Alternator	0.31 (8)
A/C Compressor	0.45 (11.5)
Power Steering Pump	0.45 (11.5)

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

(2) Used on for less than 5 minutes.

DEFLECTION SPECIFICATIONS (PROTEGE)

Application	(1) Specification - In. (mm)
New Belt ⁽²⁾	
Alternator	0.22-0.27 (5.5-7)
Power Steering Pump	0.32-0.35 (8-9)
Used Belt	
Alternator	0.24-0.29 (6-7.5)
Power Steering Pump	0.35-0.39 (9-10)
Wear Limit	
Alternator	0.31 (8)
Power Steering Pump	0.45 (11.5)

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

(2) Used on for less than 5 minutes.

TENSION SPECIFICATIONS (MILLENIA, 2.5L)

Application	(1) Specification - Lbs. (kg)
New Belt ⁽²⁾	
Alternator	160-190 (70-90)
Power Steering Pump	130-150 (55-70)
Used Belt	
Alternator	110-150 (50-70)
Power Steering Pump	88-120 (40-55)
Wear Limit	

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Alternator	99 (45)
Power Steering Pump	77 (35)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

TENSION SPECIFICATIONS (1996, MPV)

Application	(1) Specification - Lbs. (kg)
New Belt ⁽²⁾	
Alternator	124-143 (56-65)
A/C Compressor	115-129 (52-59)
Power Steering Pump	77-85 (35-39)
Used Belt	
Alternator	104-123 (47-56)
A/C Compressor	97-112 (44-51)
Power Steering Pump	66-74 (30-34)
Wear Limit	
Alternator	59 (27)
A/C Compressor	55 (25)
Power Steering Pump	55 (25)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

TENSION SPECIFICATIONS (1997-98, MPV)

Application	(1) Specification - Lbs. (kg)
New Belt ⁽²⁾	
Alternator	124-143 (56-65)
A/C Compressor	115-129 (52-59)
Power Steering Pump	77-85 (35-39)
Used Belt	
Alternator	104-123 (47-56)
A/C Compressor	97-112 (44-51)
Power Steering Pump	66-74 (30-34)
Wear Limit	
Alternator	59 (27)
A/C Compressor	55 (25)
Power Steering Pump	55 (25)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

TENSION SPECIFICATIONS (MX-5 MIATA)

Application	(1) Specification - Lbs. (kg)
New Belt ⁽²⁾	
Alternator	110-167 (50-76)
A/C Compressor	110-132 (50-60)
Power Steering Pump	110-132 (50-60)
Used Belt	
Alternator	110-158 (50-72)
A/C Compressor	95-110 (43-50)
Power Steering Pump	95-110 (43-50)
Wear Limit	
Alternator	77 (35)
A/C Compressor	55 (25)
Power Steering Pump	55 (25)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

TENSION SPECIFICATIONS (PROTEGE)

Application	(1) Specification - Lbs. (kg)
New Belt ⁽²⁾	
Alternator	110-160 (50-76)
Power Steering Pump	110-130 (50-60)
Used Belt	
Alternator	110-150 (50-72)
Power Steering Pump	95-110 (43-50)
Wear Limit	
Alternator	77 (35)
Power Steering Pump	55 (25)
(1) Measure tension using Tension Gauge (49 9200 020), or equivalent.	
(2) Used on for less than 5 minutes.	

TROUBLE SHOOTING

NOTE: Ensure drive belts are not worn, cracked or frayed and are correctly mounted on pulleys. See Fig. 29 .

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

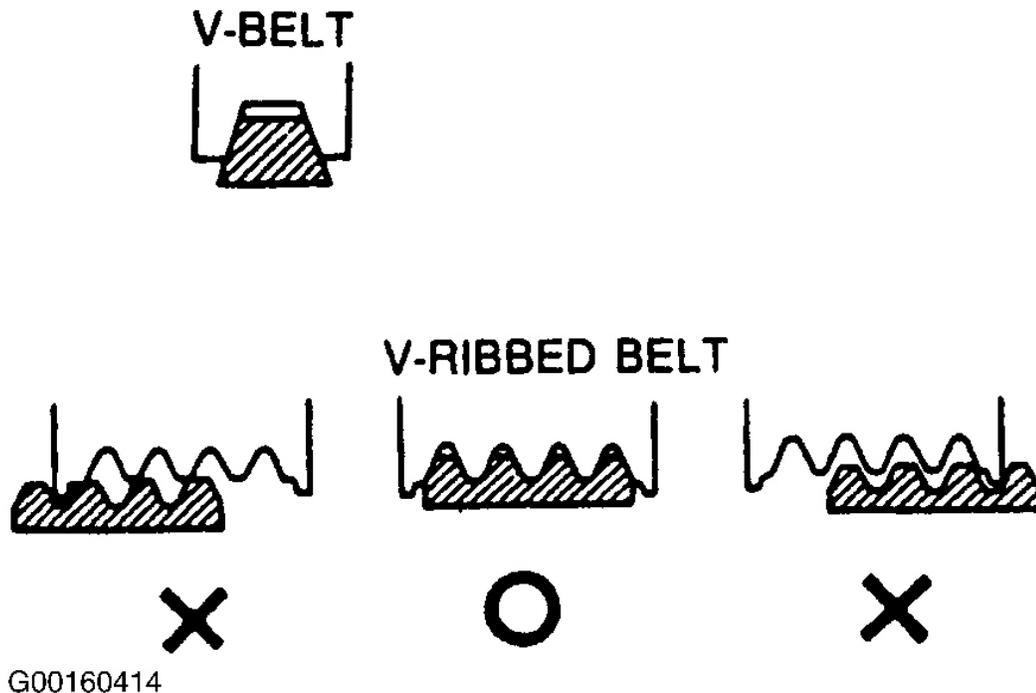


Fig. 29: Identifying Correct Belt Mounting
Courtesy of MAZDA MOTORS CORP.

B2500, B3000 & B4000

CAUTION: Incorrect drive belt installation will cause excessive drive belt wear and may cause drive belt to come off drive pulleys.

NOTE: Replace belts if tensioner indicates belt is out of adjustment range. **DO NOT** apply belt dressing to serpentine belt. Use illustration to help align serpentine belt and to check belt routing and tension. See [Fig. 15](#) through [Fig. 17](#) .

To check drive belt for proper operation, with engine running, check drive belt tracking (position of drive belt on one of the grooveless pulleys, idlers or drive belt tensioner). If edge of drive belt rides beyond edge of pulley, noise and premature wear may result. If a drive belt tracking condition exists, visually check drive belt tensioner for damage, especially mounting pad surface. If drive belt tensioner is not installed correctly with locating pins in locating holes, mounting surface pad will be out of position. This will result in abnormal drive belt tension and chirp and squeal noises.

If above procedures do not correct drive belt noise, try replacing drive belt with a known good drive belt. However, drive belt noise may return, with mileage, if one of above conditions still exists uncorrected.

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

With engine running, visually observe grooves in pulleys (not pulley flanges) for excessive wobble. Replace components as required. Check all accessories, mounting brackets and drive belt tensioner, for any interference that would prevent component from mounting properly. Correct any interference conditions and recheck belt tracking. Tighten all accessories, mounting brackets and drive belt tensioner retaining hardware to specification.

Replace drive belt if excessive cracking or wear, severe glazing or frayed cords are present. Minor cracks in back of drive belt are considered acceptable.

SPECIFICATIONS

COOLING SYSTEM SPECIFICATIONS

COOLING SYSTEM SPECIFICATIONS (1997 2300)

Model	Specification
B2300	
Coolant Replacement	
Interval	(1) 50,000 Miles Or 48 Months
Coolant Capacity	
With A/C	7.2 Qts. (6.8L)
Without A/C	6.5 Qts. (6.2L)
Pressure Cap	12 psi
Thermostat Open Temperature	
Starts	192°F (89°C)
Fully Open	212°F (100°C)
Thermostat Open Lift	.13" (3.2 mm)
(1) Every 30,000 miles, and every 36 months thereafter.	

COOLING SYSTEM SPECIFICATIONS (1998 B2500, B3000 & B4000)

Model	Specification
B2500	
Coolant Replacement	
Interval	(1) 50,000 Miles Or 48 Months
Coolant Capacity	
With A/C	7.2 Qts. (6.8L)
Without A/C	6.5 Qts. (6.2L)
Pressure Cap	14.4-17.6 psi
Thermostat Open Temperature	
Starts	183-190°F (84-88°C)
Fully Open	212°F (100°C)
Thermostat Open Lift	.13" (3.2 mm)

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

B3000

Coolant Replacement	
Interval	(1) 50,000 Miles Or 48 Months
Coolant Capacity	
With A/C	10.2 Qts. (9.6L)
Without A/C	9.5 Qts. (9.0L)
Pressure Cap	14.4-17.6 psi
Thermostat Open Temperature	
Starts	183-190°F (84-88°C)
Fully Open	212°F (100°C)
Thermostat Open Lift	.13" (3.2 mm)

B4000

Coolant Replacement	
Interval	(1) 50,000 Miles Or 48 Months
Coolant Capacity	
With A/C	8.6 Qts. (8.1L)
Without A/C	7.8 Qts. (7.4L)
Pressure Cap	
1997	12 psi
1998	14.4-17.6 psi
Thermostat Open Temperature (1997)	
Starts	192°F (89°C)
Fully Open	212°F (100°C)
Thermostat Open Lift (1997)	.13" (3.2 mm)
Thermostat Open Temperature (1998)	
Starts	183-190°F (84-88°C)
Fully Open	212°F (100°C)
Thermostat Open Lift (1998)	.13" (3.2 mm)

(1) Every 30,000 miles, and every 36 months thereafter.

COOLING SYSTEM SPECIFICATIONS (1994-97 MIATA)

Model	Specification
Miata	
Coolant Replacement	
1994-95	
Interval	24,000 Miles Or 30 Months
1996-97	
Interval	(1) 45,000 Miles Or 36

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

	Months
Coolant Capacity	6.3 Qts. (6.0L)
Pressure Cap	10.7-14.9 psi
Thermostat Open Temperature	
Starts	
Main Valve	188-193°F (86.5-89.5°C)
Sub Valve	183-188°F (83.5-86.5°C)
Fully Open	212°F (100°C)
Thermostat Open Lift	
Main Valve	.31" (8 mm)
Sub Valve	.06" (1.5 mm)
(1) Every 30,000 miles, and every 24 months thereafter.	

COOLING SYSTEM SPECIFICATIONS (1997-98 MILLENIA)

Model	Specification
Millenia	
Coolant Replacement	
Interval	(1) 45,000 Miles Or 36 Months
Coolant Capacity	7.9 Qts. (7.5L)
Pressure Cap	13.5-17.7 psi
Thermostat Open Temperature	
Starts	176-183°F (80-84°C)
Fully Open	203°F (95°C)
Thermostat Open Lift	.33" (8.5 mm)
(1) Every 30,000 miles, and every 24 months thereafter.	

COOLING SYSTEM SPECIFICATIONS (1997-98 MPV)

Model	Specification
MPV	
Coolant Replacement	
Interval	(1) 45,000 Miles Or 36 Months
Coolant Capacity	10.3 Qts. (9.7L)
Pressure Cap	10.7-14.9 psi
Thermostat Open Temperature (1997)	
Starts	179-184°F (81.5-84.5°C)
Fully Open	205°F (96°C)
Thermostat Open Lift (1997)	.35" (9.0 mm)
Thermostat Open Temperature (1998)	

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5
Miata & Protege

Starts	176-183°F (80-84°C)
Fully Open	203°F (95°C)
Thermostat Open Lift (1998)	.33" (8.5 mm)
(1) Every 30,000 miles, and every 24 months thereafter.	

COOLING SYSTEM SPECIFICATIONS (1995-98 PROTEGE)

Model	Specification
Protege	
Coolant Replacement	
1995	
Interval	24,000 Miles Or 30 Months
1996-98	
Interval	(1) 45,000 Miles Or 36 Months
Coolant Capacity	6.3 Qts. (6.0L)
Pressure Cap	10.7-14.9 psi
Thermostat Open Temperature (1995)	
Starts	
Main Valve	188-193°F (86.5-89.5°C)
Sub Valve	183-188°F (83.5-86.5°C)
Fully Open	212°F (100°C)
Thermostat Open Lift (1995)	
Main Valve	.31" (8 mm)
Sub Valve	.06" (1.5 mm)
Thermostat Open Temperature (1996-98)	
Starts	183-193°F (83.5-89.5°C)
Fully Open	212°F (100°C)
Thermostat Open Lift (1996-98)	.33" (8.5 mm)
(1) Every 30,000 miles, and every 24 months thereafter.	

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS (MILLENIA, 2.5L)

Application	Ft. Lbs. (N.m)
Alternator Locknut	24-33 (32-46)
Power Steering Pump Locknut	24-33 (32-46)

TORQUE SPECIFICATIONS (MPV)

Application	Ft. Lbs. (N.m)
Alternator Adjusting Bolt	

1997 Mazda MX-5 Miata

1994-98 ENGINE COOLING Specifications & Drive Belt Routing - B2300, B2500, B3000, B4000, Millenia, MPV, MX-5 Miata & Protege

"A"	14-18 (19-25)
"B"	28-38 (38-51)
A/C Compressor Locknut	28-38 (38-51)
Power Steering Pump Locknut	28-38 (38-51)

TORQUE SPECIFICATIONS (MX-3 MIATA)

Application	Ft. Lbs. (N.m)
Alternator Adjusting Bolt	
"A"	14-18 (19-25)
"B"	28-38 (38-51)
A/C Compressor Locknut	28-38 (38-51)
Power Steering Pump Bolt	
"A"	24-33 (32-46)
"B"	27-39 (37-53)
"C"	14-18 (19-25)

TORQUE SPECIFICATIONS (PROTEGE)

Application	Ft. Lbs. (N.m)
Alternator Adjusting Bolt	
"A"	28-38 (38-51)
"B"	14-18 (19-25)
Power Steering Pump Bolt	
"A"	32-44 (44-60)
"B"	28-38 (38-51)
"C"	28-38 (38-51)