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Component Search:

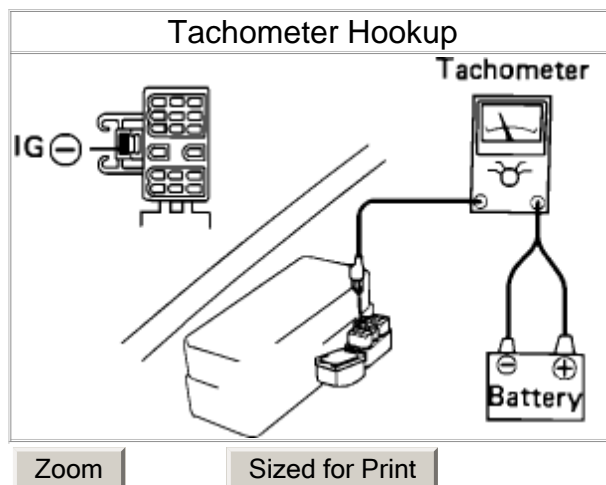
OK

[Conversion Calculator](#)**1992 Toyota Truck Pickup 2WD V6-180.5 2959cc 3.0L SOHC (3VZ-E)**[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Engine](#) → [Ignition Timing](#) → [Adjustments](#) ←

Adjustments

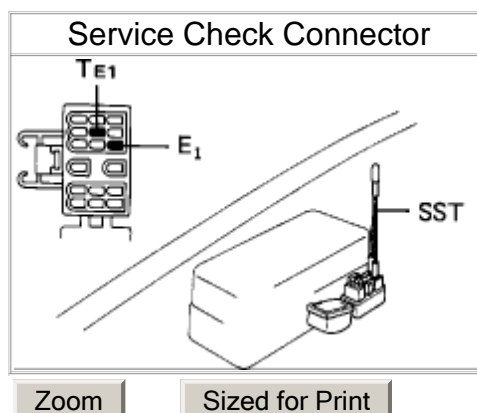
[Notes](#)

IGNITION TIMING:

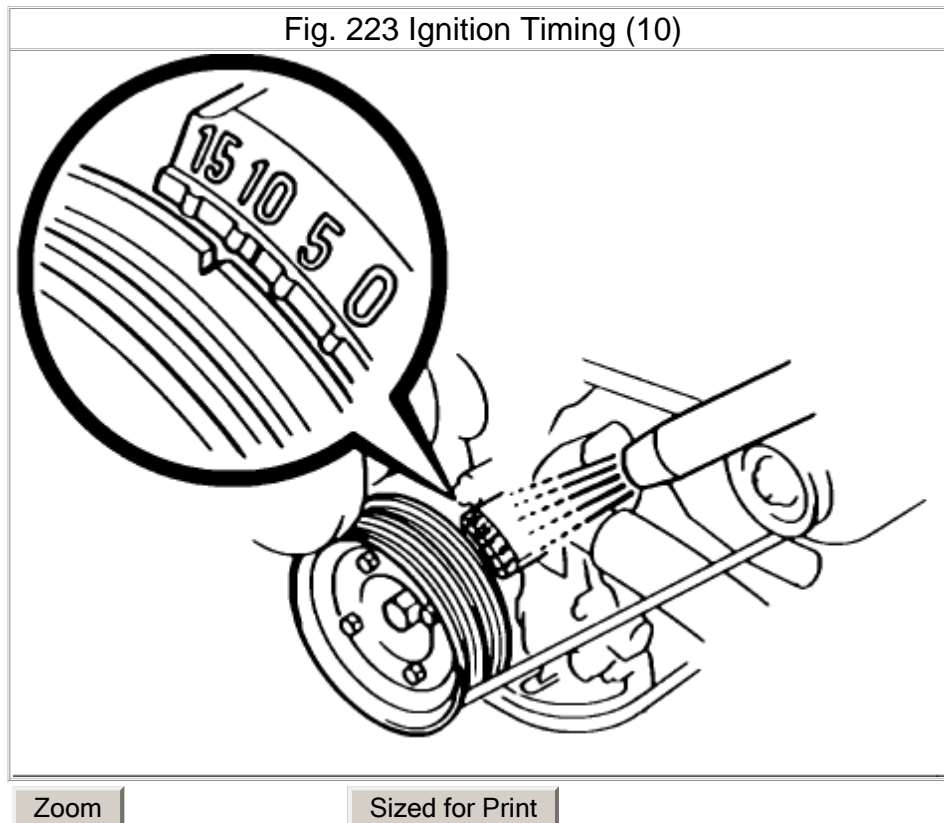


1. Start engine and allow to reach normal operating temperature.
2. Connect a tachometer test probe to terminal IG of the check connector, **Fig. 211**

NOTE: Never let the tachometer lead touch ground as this could cause damage to the igniter and/or coil. Be sure to check that your tachometer is compatible with this ignition system. Consult the operating manual for your instrument.



- Using a service wire, connect terminals T and E1 of the check connector.



- Check [idle speed](#).

[Idle Speed](#): 800 rpm

- Using a timing light, verify that the timing mark on the timing cover is aligned with the mark on the crankshaft pulley, **Fig. 223**

Ignition Timing: 10°BTDC at idle

- Tighten the [distributor](#) bolt and recheck the ignition timing.
- Remove service wire.
- Check idle advance timing with service wire removed.

Ignition Timing: 8°BTDC at idle

- Check [idle speed](#) and adjust if necessary, **COMPUTERIZED ENGINE CONTROLS**.
- Disconnect tachometer and timing light from engine.

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Component Search:

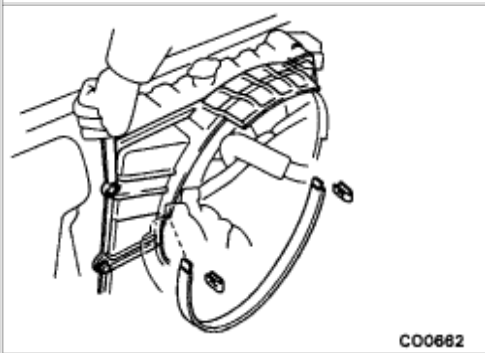
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 [Conversion Calculator](#)**1992 Toyota Truck Pickup 2WD V6-180.5 2959cc 3.0L SOHC (3VZ-E)**[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Engine](#) → [Timing Belt](#) → [Service and Repair](#) → [Timing Belt Removal](#)

Timing Belt Removal

[Notes](#)

Fan Shroud Removal & Installation

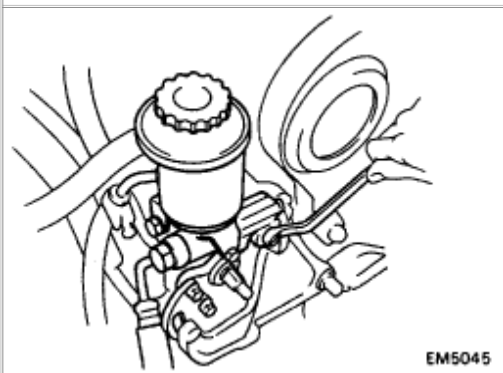


Zoom

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1. Remove radiator fan upper and lower shrouds.

Installing Power Steering Pump And Belt

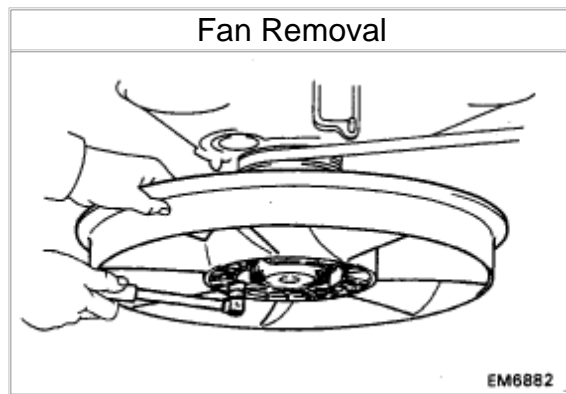


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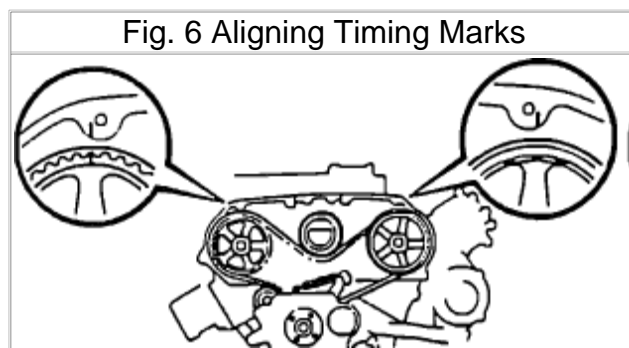
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2. Remove power steering pump [drive belt](#) and pump.
3. Disconnect No. 2 and No. 3 air hoses from air pipe.

4. Remove air conditioning compressor [drive belt](#), if equipped.

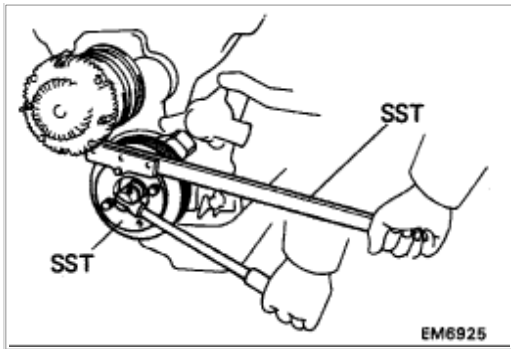
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5. Remove alternator [drive belt](#), cooling fan, belt guide and fan pulley.
6. Remove No. 2 timing belt cover.

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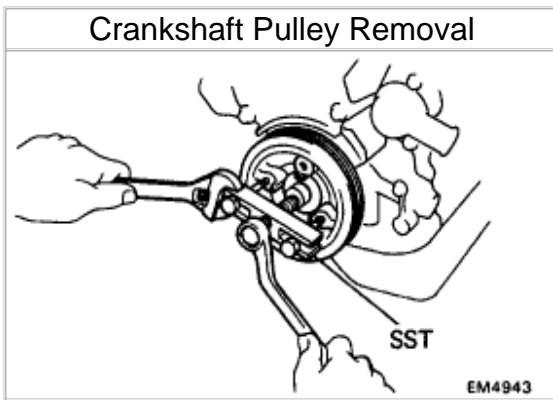
7. Place No. 1 cylinder at TDC of compression stroke by turning the crankshaft pulley and aligning pulley groove with the "0" mark on the No. 1 timing belt cover. Ensure alignment marks on the camshaft timing sprockets and the No. 3 timing belt cover are correctly aligned, **Fig. 6**.
8. If not, turn the crankshaft pulley one complete revolution.

Crankshaft Pulley Removal



Zoom

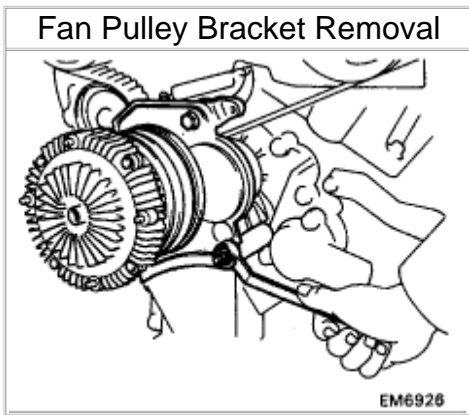
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Zoom

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9. Remove crankshaft pulley.

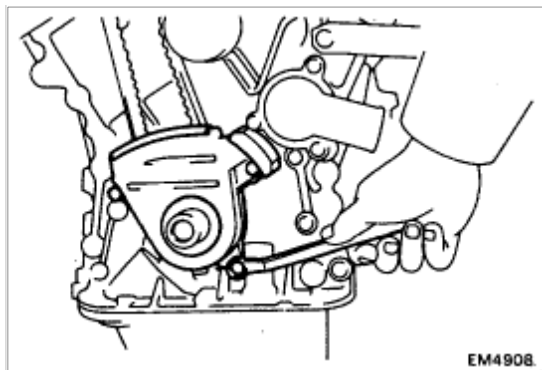


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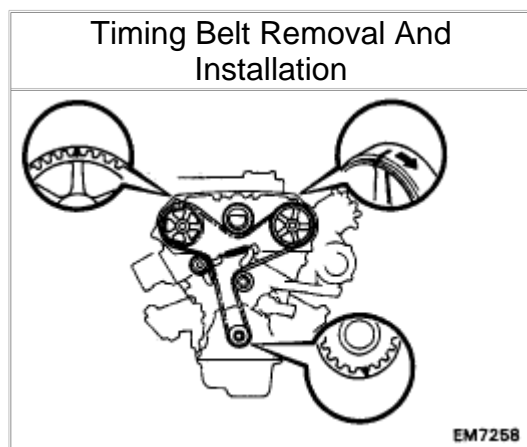
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10. Remove fan pulley bracket.

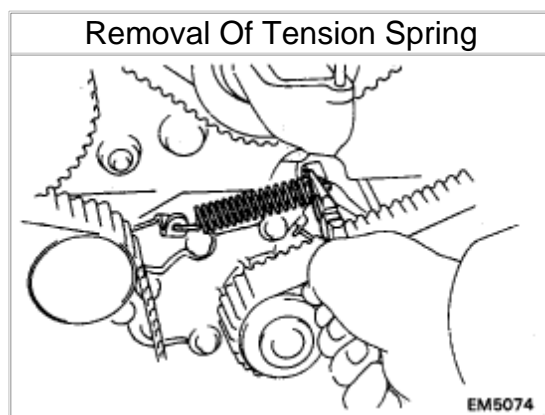
Remove No.1 Timing Belt Cover

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11. Remove No. 1 timing belt cover.

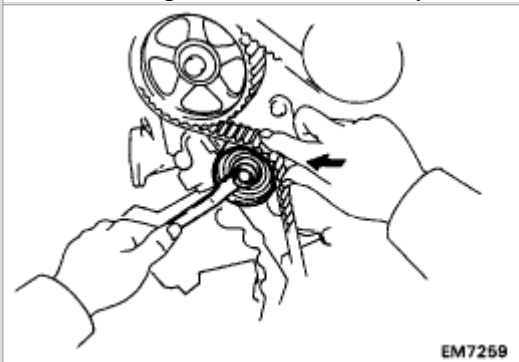
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12. Remove timing belt. If the original timing belt is going to be used, draw a direction arrow on the timing belt (in direction of engine rotation) and place alignment marks on the pulley and timing belt, **Fig. 7**.
13. Remove timing belt guide.



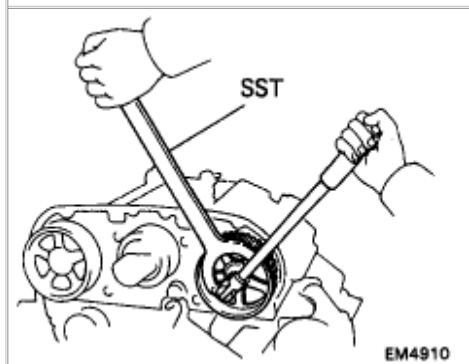
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Loosening No. 1 Idler Pulley Bolt

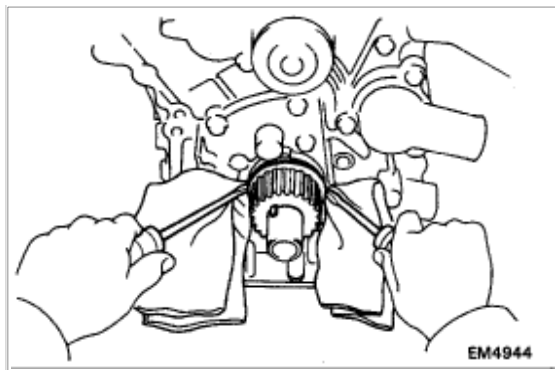
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14. Remove tension spring. Inspect the free length of the spring. Length should be **56.275 mm (2.2155 in.)**.
15. Loosen the idler pulley attaching bolt and shift it toward the left as far as it will go. Temporarily tighten the set bolt and then relieve timing belt tension. Remove belt from each timing pulley/sprocket.

Camshaft Timing Pulley Removal

[Zoom](#)[Sized for Print](#)

Crankshaft Timing Pulley Removal

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16. If necessary, remove the camshaft timing sprocket, No. 1 idler pulley and the crankshaft timing sprocket. If timing pulley cannot be removed by hand, use two screwdrivers.

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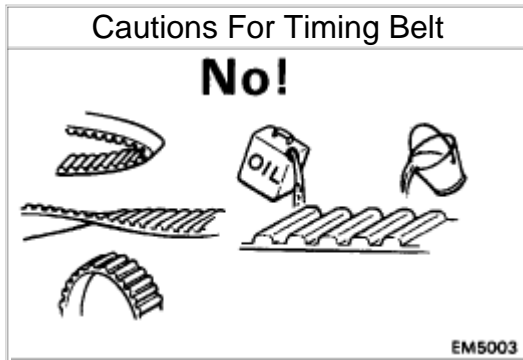
Conversion Calculator

1992 Toyota Truck Pickup 2WD V6-180.5 2959cc 3.0L SOHC (3VZ-E)

[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Engine](#) → [Timing Belt](#) → [Service and Repair](#) → [Timing Belt Installation](#) ←

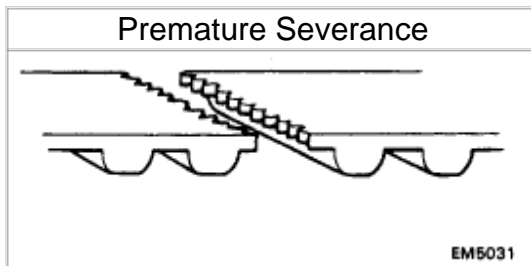
Timing Belt Installation

[Notes](#)



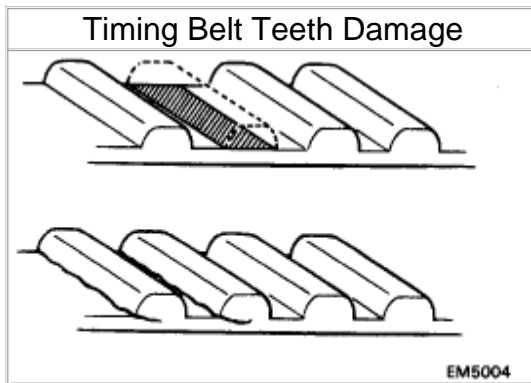
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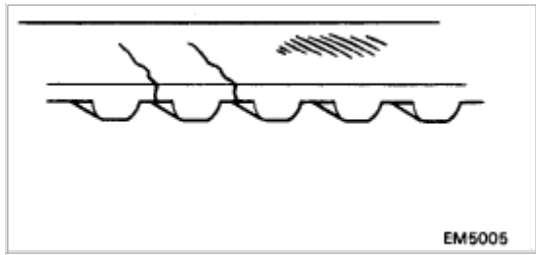
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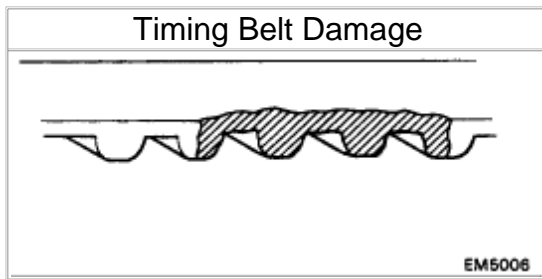
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Timing Belt Abnormal Wear



Zoom

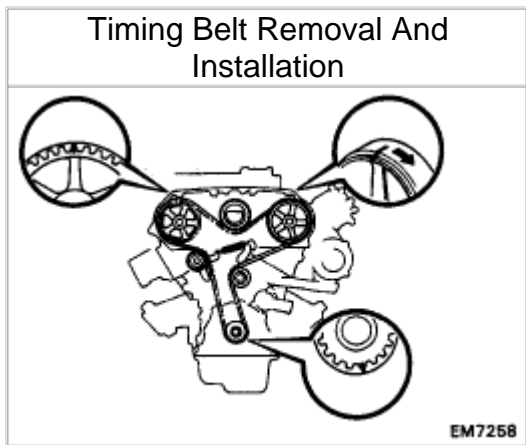
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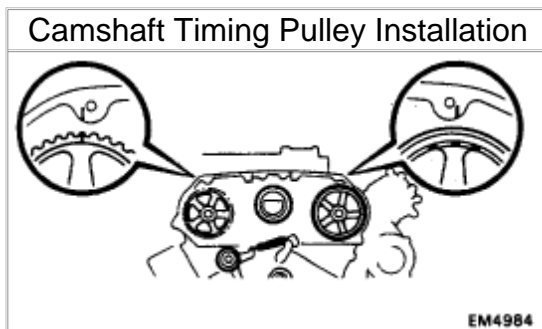
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Inspect belt for abnormal wear or deterioration above before installing a used belt.



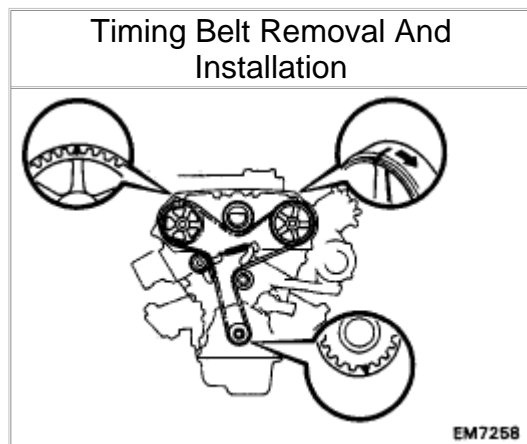
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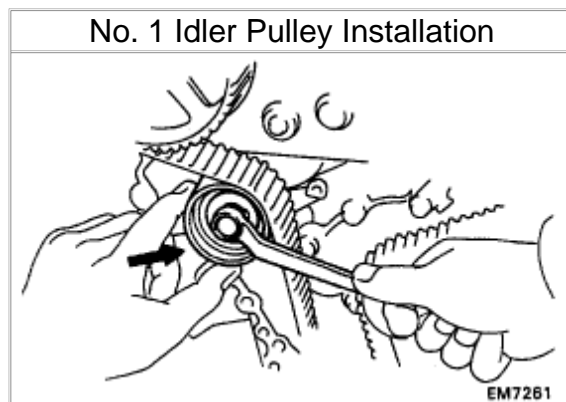


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1. If removed, install crankshaft timing sprocket, temporarily install No. 1 idler pulley and torque attaching bolt to specification, then install the camshaft timing sprockets. Align the camshaft alignment holes with the No. 3 timing belt cover alignment marks.
2. Install the camshaft timing pulleys and attaching bolt. Do not install the alignment pin. Ensure the bolt head is not touching the pulley. Align the timing pulley alignment mark with the No. 3 timing belt cover alignment mark.
3. Install the timing belt as follows:
 - a. If the original timing belt is going to be used, align the points marked during removal and install the timing belt with the arrow marking pointing in the direction of engine rotation.

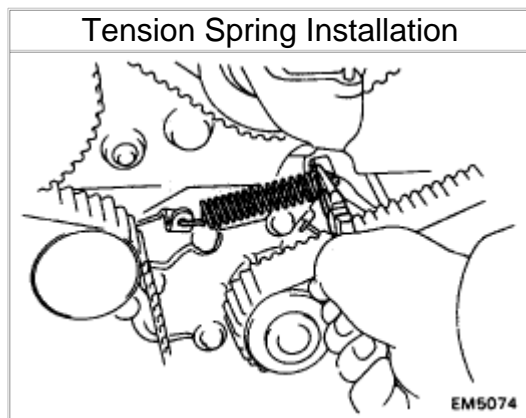
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- b. Install the timing belt onto the camshaft timing sprockets, idler pulleys, water pump pulley and the crankshaft timing sprocket.

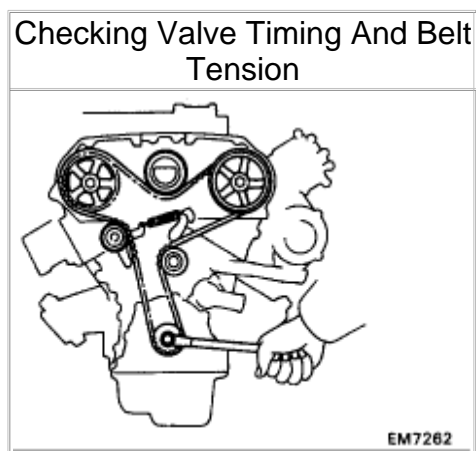


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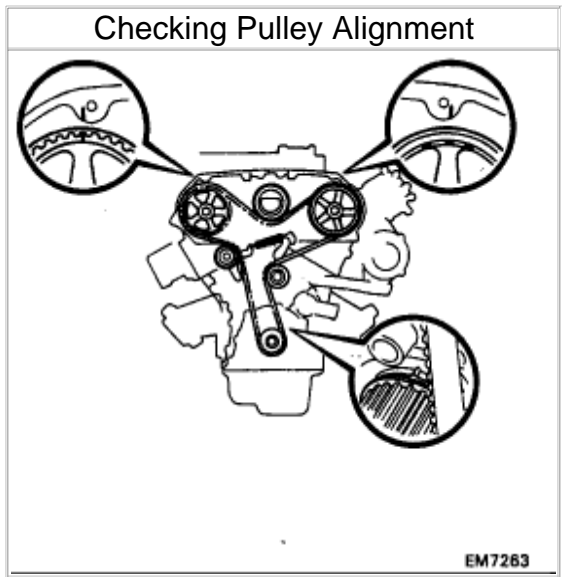
- c. Pry the No. 1 idler pulley toward the right as far as it will go and temporarily tighten it.

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- d. Install the tension spring and loosen the idler pulley attaching bolt to where the idler pulley lightly moves with tension spring force.

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4. Check valve timing and timing belt tension, as follows:
 - a. Temporarily install the crankshaft pulley attaching bolt and turn crankshaft two complete revolutions from TDC to TDC. Always turn the crankshaft clockwise.

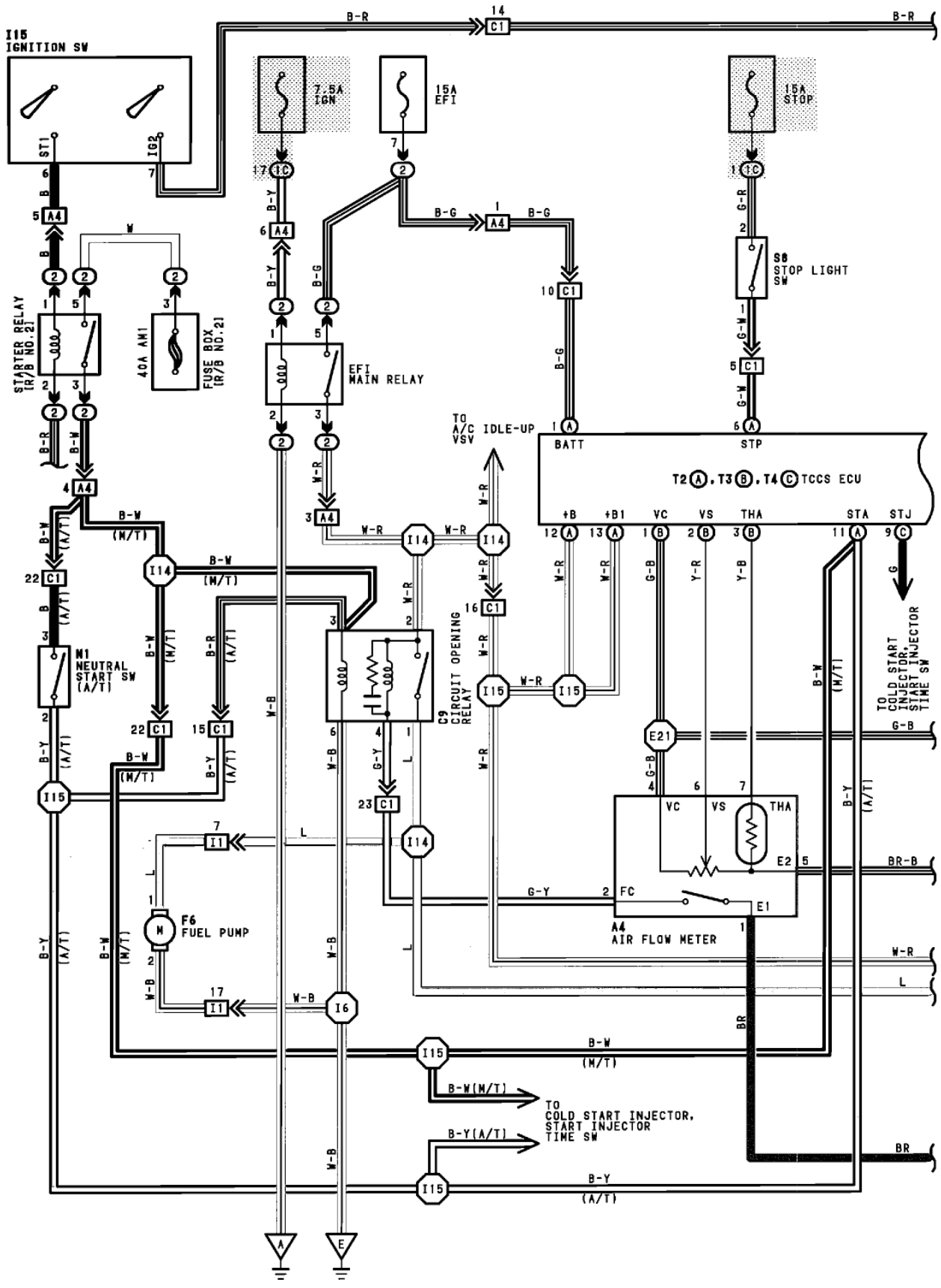


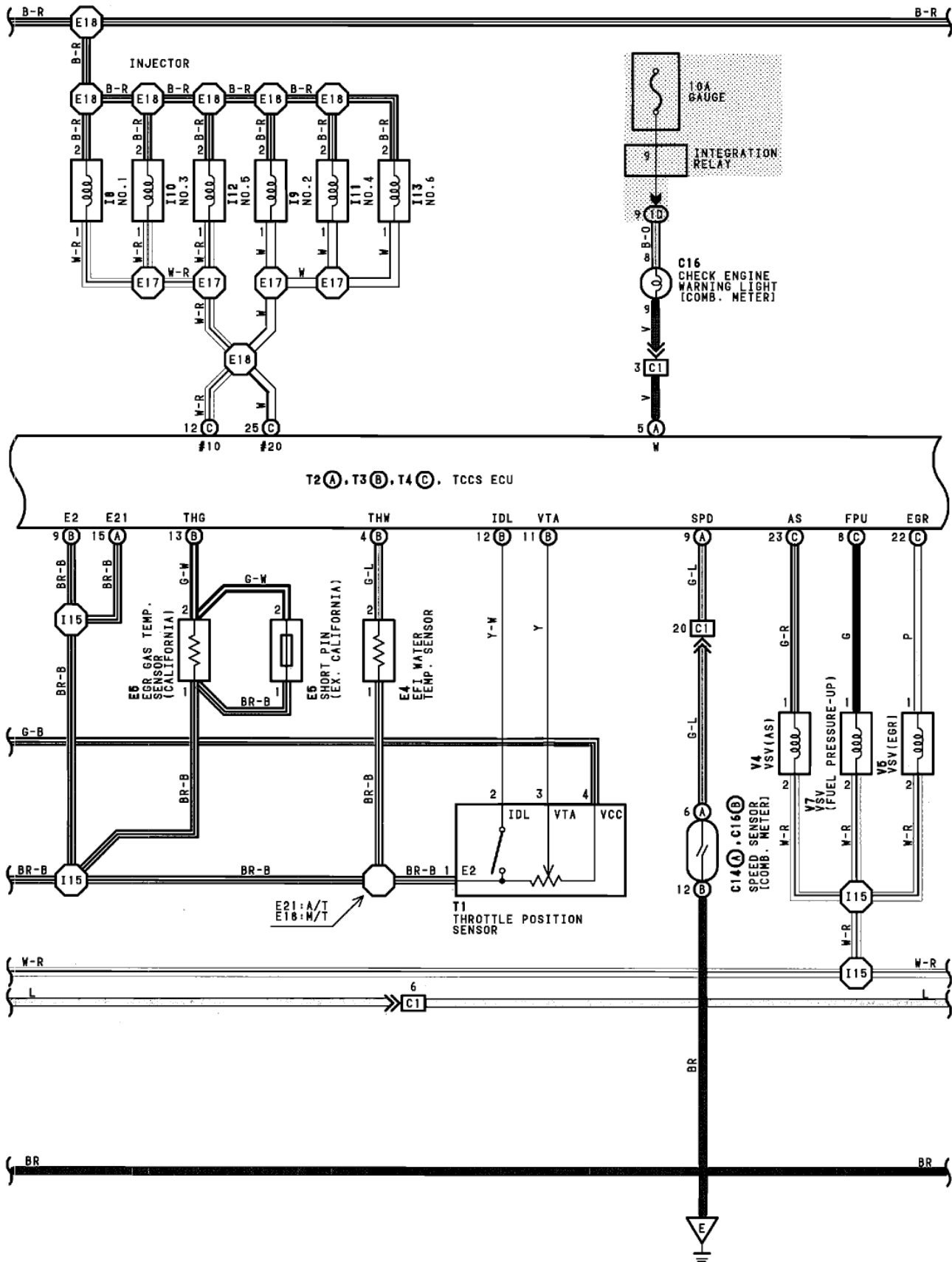
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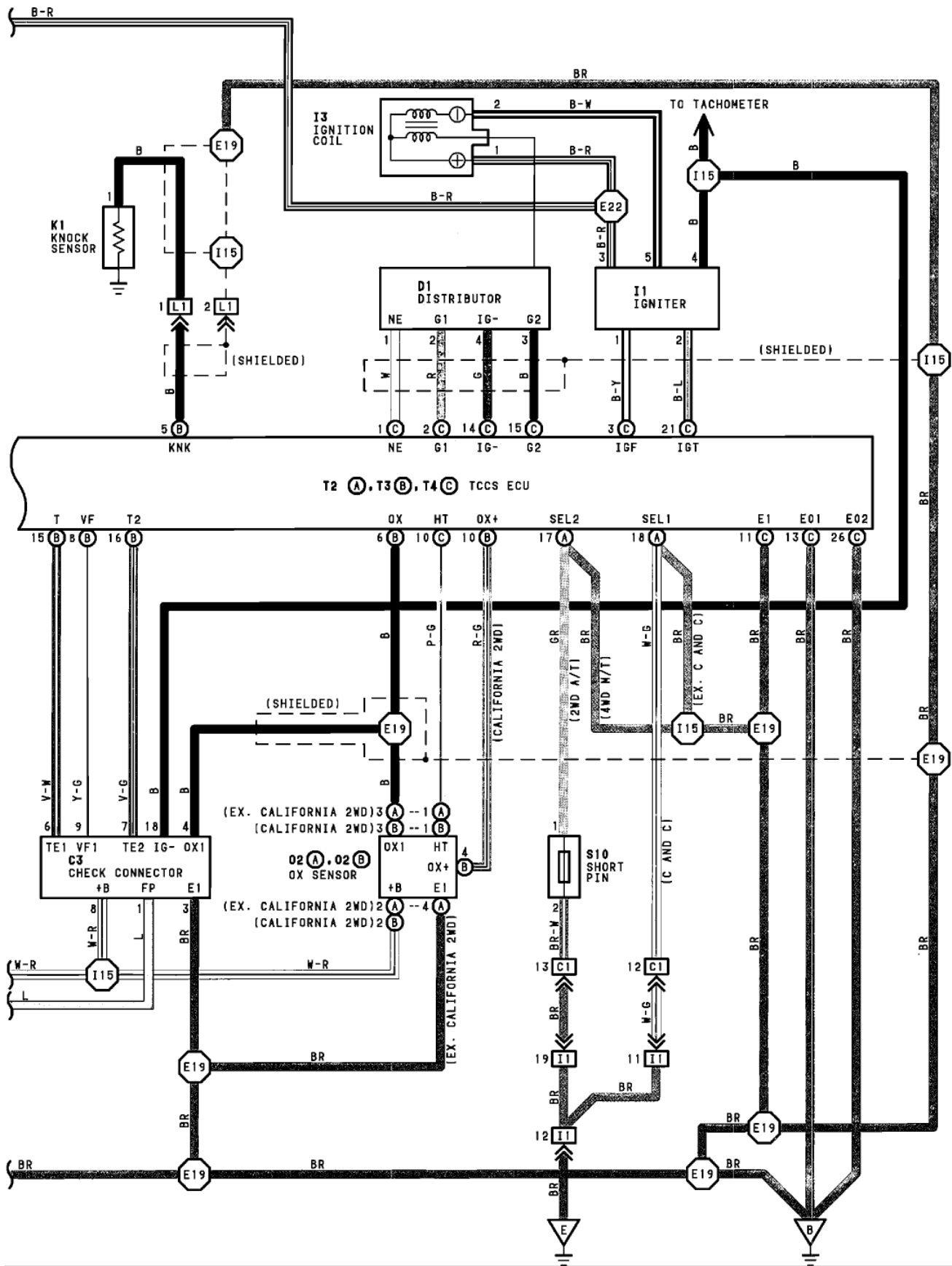
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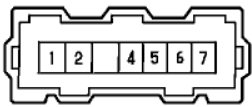
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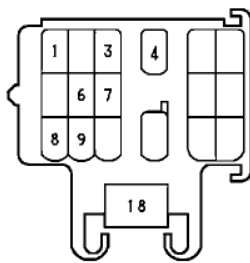




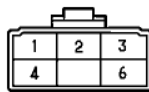
A4 BLACK



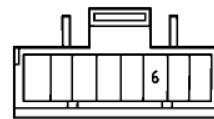
C3 DARK GRAY



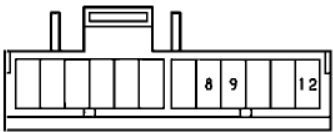
C9 DARK GRAY



C14 (A)



C16 (B)



D1 BLACK



E4 DARK GRAY



E5 DARK GRAY



F6 DARK GRAY



I1 BLACK



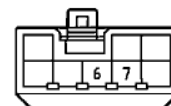
I3 BLACK



I8, I9, I10, I11, I12, I13 GRAY



I15 BLACK



K1 DARK GRAY



N1 GRAY



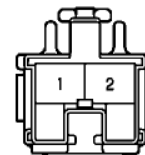
O2 (A) DARK GRAY



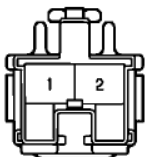
O2 (B) DARK GRAY



(W/ CRUISE CONTROL) S8



(W/O CRUISE CONTROL) S8 BLACK



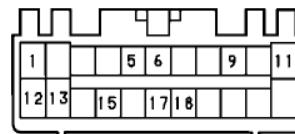
S10



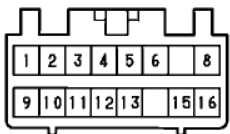
T1 BLACK



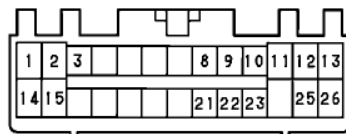
T2 (A) DARK GRAY



T3 (B) DARK GRAY



T4 (C) DARK GRAY



V4 BLUE



V5 GREEN



V7 BROWN

