



INSPECTION CHECK LIST

Name: _____

Date: _____ Make: _____

Model: _____ Mileage: _____

Technician's Name: _____

Address: _____

Heavy Duty or Severe Duty Vehicle:

Yes No

HOSE

Corrosion:

Internal Corrosion (*Hose Removed*)

Coolant System Leaks:

- Obvious Pin Holes
- Connection Leaks
- Drop in Coolant System Pressure or Coolant Level
- Visible Coolant Tracks

Touch Test:

- Hose Surface Irregularities
- Hardened Surface or Softness
- Swelling or Surface Bubbles
- Abrasive Damage, Crack or Splits

Other Hose Replacement Indicators:

- Coolant or Related System Components Need to be Replaced
- Hose with "Hot" Location (*i.e., Turbocharger*)
- Hose Needs to be Removed for Additional Service
- High Mileage or Age
- Engine has Overheated
- Coolant is in Poor Condition and Needs Replaced
- Any One Hose has Failed

TENSIONERS, IDLERS, OAD

Noise:

- Belt Noise
- Bearing Noise in Pulley or Tensioner

Visual Inspection:

- Tensioner Stuck or Jammed (*Restricted Travel*); Tensioner with Signs of a Weak or Broken Spring (*Easy Travel*)
- Tensioner with Signs of Red Dust, Corrosion or Heavy Concentration of Dirt
- Tensioner with Loose or Worn Pivot Arm
- Damage to Tensioner Housing or Pulley Assembly
- Excessive Movement of Tensioner Arm When Running
- Poor Belt Track on Tensioner and Pulleys
- Excessive Grease from Grease Seals on Pulley Bearings
- Erratic Pulley Movement or Drive Misalignment

OAD:

- Locked or Will Not Rotate in Both Directions
- No Spring Tension in Drive Direction
- Spins Freely in Both Directions
- More than 9-13 in./lbs. of Torque Required to Turn in Over-Run Direction
- "Check Engine" Light is on
- "Buzz" Noise at 2000-2500 RPM
- High Mileage

KEY: Needs Replaced Starting to Show Wear Good

SERPENTINE DRIVE

Belt Noise:

- Chirping or Squealing
- Noise During Start Up or Parking Maneuver

Visual Inspection:

- Visible Abnormal Wear (*Rib Wear, Abrasion, Cracks, Glazing, Missing Chunks, Pilling*)
- Backside Damage
- Cracks on Rib Side
- Detectable Wear Using Belt Gauge
- Excessive Belt Vibration, Erratic Belt Movement
- Poor Belt Track or Misalignment on Pulleys or Idlers
- Noticeable Edge Wear/Torn Tensile Members
- Belt Stretch-Tensioner Operating Outside of Normal Range (*Check Tensioner Indicator Mark*)

Other Belt Replacement Indicators:

- Heavy Duty Service, City Driving, Continuous Idling, High Under the Hood Temperatures
- Contamination from Oil, Grease, Coolant or Dirt
- Tensioners, Idlers or OAD Need to be Replaced
- Stretch Belt Must be Removed for Service
- High Mileage or Advanced Age

TIMING BELT DRIVE

Drive Noise:

- Squealing, Grinding or Knocking Under Timing Belt Cover

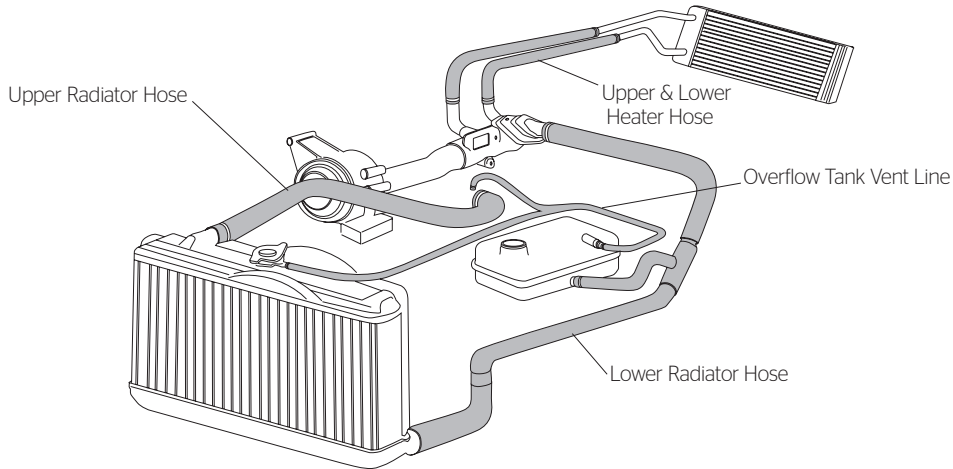
Visual Inspection:

- Abnormal Belt Appearance such as Tooth Damage, Tooth Wear, Tooth Separation, Belt Cracks, Belt Glazing or Hardness
- Broken Belt
- Belt Saturated with Oil or Coolant
- Excessive Grease from Grease Seals on Pulley Bearings
- Actuator Weakness on Hydraulic Tensioner (*Can be Depressed by Hand*)
- Pulley Misalignment
- Water Pump Leaks

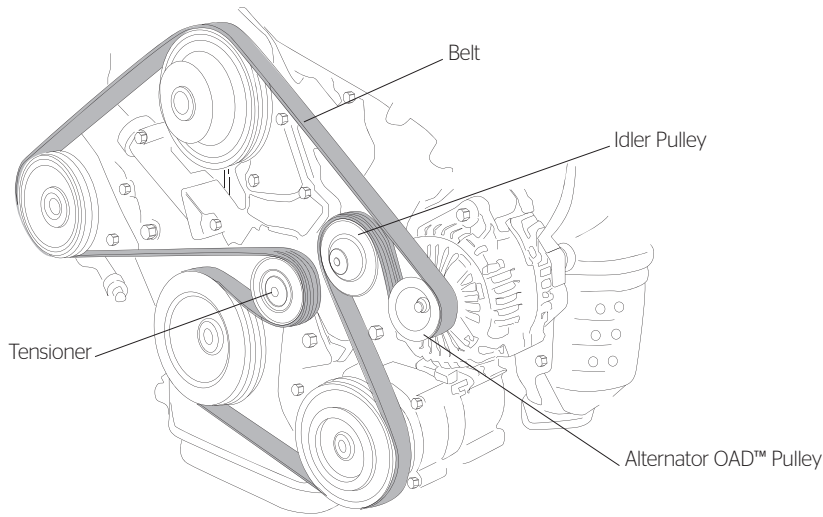
Other Replacement Indicators:

- Manufacturer's Replacement Interval
- Close to Manufacturer's Replacement Interval
- Inadequate Service History Knowledge
- High Mileage and/or Advanced Age
- Failure of any One Drive System Component
- Roughness and Side-to-Side Play of Idler or Tensioner Pulley
- Oil and Coolant Leaks from Under the Timing Belt Cover
- Engine Roughness, Hesitation, Pinging Under Hard Acceleration
- Low or No Compression
- Heavy Duty Service, City Driving, Continuous Idling, High Under Hood Temperatures
- Engine Overheating

HOSE



DRIVE BELT SYSTEM



NOTES
