

Drive Belt Replacement, Cummins ISX Engine

Cummins ISX engines are equipped with two serpentine, poly-V drive belts and two automatic belt tensioners. The accessory drive belt drives the fan, alternator, and the water pump. The A/C belt drives the A/C compressor. See Fig. 1. Both drive belts are kept at the correct tension by a system of pulleys and two automatic belt tensioners.

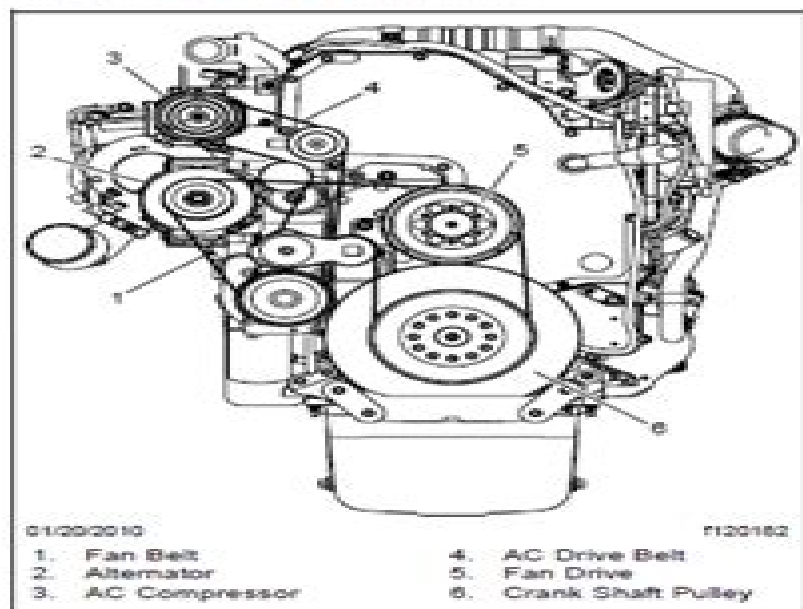


Fig. 1, Cummins ISX Drive Belt Routing

Replacement

1. Shut down the engine, apply the parking brakes, and chock the tires.
2. Disconnect the batteries at the negative terminals.
3. Raise the hood.

IMPORTANT: When replacing drive belts on the Cummins ISX engine you cannot replace the AC-drive belt with the accessory-drive belt in

place. The accessory-drive belt must be removed first.

4. Locate the accessory drive-belt-tensioner assembly on the left (passenger) side of the engine, as you are facing it. Insert a 1/2-inch-drive ratchet or 1/2-inch breaker bar into the pivot point on the small end of the tensioner. See Fig. 2. Pull up on the wrench, turning the tensioner clockwise, until you feel resistance.

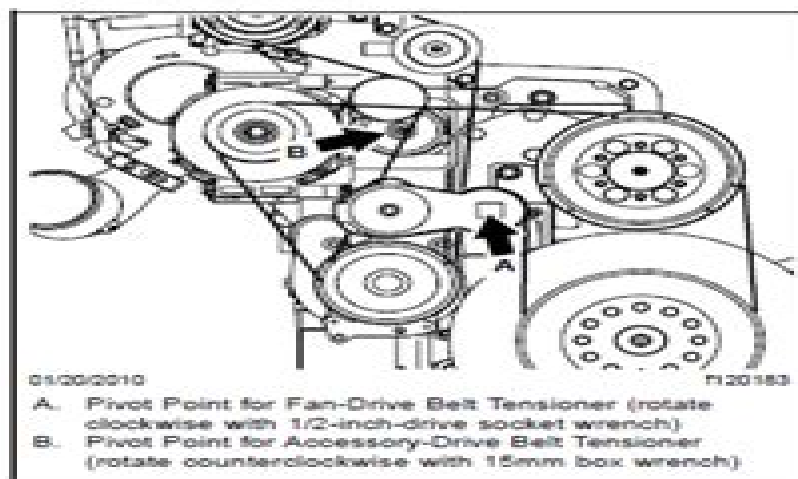


Fig. 2, Releasing the Tensioners

5. While the tensioner is released, remove the accessory-drive belt. Do not replace the accessory-drive belt at this time.
6. Insert a 15-mm box wrench onto the pivot bolt of the AC-belt tensioner. Smoothly rotate it downward, turning the tensioner counterclockwise until you feel resistance. See Fig. 2.
7. While the tensioner is released, replace the AC-belt, making sure it is correctly installed on all the pulleys.
8. Repeating the procedure from step 4 to release the tensioner from the accessory-drive belt again. While the tensioner is released, install a new accessory-drive belt.

Freightliner Cascadia 2015 Engine Operators Manual

Karin Nielsen-Saines



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web current is the rate of flow of charge and voltage measures the energy transferred per unit of charge we can insert these definitions into the equation for power $P = \frac{dU}{dt} = \frac{dU}{dq} \frac{dq}{dt} = VI$ electrical power is the product of voltage times current in units of watts

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web solution fairly straightforward energy is power times time electric power is voltage times current energy is a scalar so just add up the parts of the cycle and double each to get the total $E_{\text{pt}} = 2 \times 1825 \text{ V} \times 7.5 \text{ A} \times 30 \text{ s} = 240 \text{ V} \times 1.5 \text{ A} \times 60 \text{ s} = 864 \text{ 000 J}$

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web determine nicholas potential energy at the top of the slide b determine nicholas s kinetic energy at the top of the slide c assuming negligible losses of energy between the top of the slide and his approach to the bottom of the slide h = 0 m determine nicholas s total mechanical energy as he arrives at the bottom of the slide d

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web 1 a 50 kg person runs up the stairs 10 meters high in 2 minutes acceleration due to gravity $g = 10 \text{ m/s}^2$ determine the

power known mass m 50 kg height h 10 meters acceleration due to gravity g 10 m/s² time interval t 2 minute 2 60 120
seconds wanted power p solution formula of power p w t