



Bulletin No.: PIC4793C

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## Preliminary Information

### PIC4793C Power Convertible Roof Seems Lazy or Needs Assistance to Operate

#### Models

Brand:	Model:	Model Years:	VIN: from to	Engine:	Transmissions:
Chevrolet	Corvette	2005 - 2013	All All	All	All

#### Supersession Statement

This PI was superseded to update model years. Please discard all copies of PIC4793B. The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

#### Condition / Concern

Some customers may comment that their power folding top appears to be lazy, or sticks at times while it is in motion. If manual assistance is given to the roof, it will open normally. This may be the result of an internal hydraulic cylinder leak. The most common cylinder with this concern is referred to as the main pivot cylinder(s). These cylinders are located near the "B" pillar of the vehicle.

**Note: This concern can only occur on vehicles with a power folding roof with RPO CM7.**

#### Recommendations / Instructions

To test for this issue, operate the power folding roof until it sticks or becomes lazy. Once in this position, release the power folding top switch. Wait approximately 7 minutes, and then manually attempt to move the roof bows as if you were opening and closing the roof without power. The number one and number five bows should come up and to the center position after having waited for the system to time out. The roof should NOT fold into the open tonneau, however. If a main pivot cylinder is leaking, the roof will move into the tonneau area manually, but it will have some resistance due to the hydraulic fluid that is being forced back within the system. If the roof moves manually, locate the internal leaking cylinder (left or right main pivot cylinder) and replace as necessary. This can also be tested as follows: Remove a cylinder from its mechanical attachment points, but leave the hydraulic lines attached. Grab onto the rod, and attempt to move the cylinder. If the piston can be pushed in and/or pulled out, it is likely leaking internally. The piston of a known good cylinder will not move under this type of test.

**Note: A good main pivot cylinder will NOT relieve pressure at any time, even after the rest of the system "times out". The only way to relieve pressure in a main pivot cylinder is to manually open the relief valve on the pump/motor assembly.**

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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