

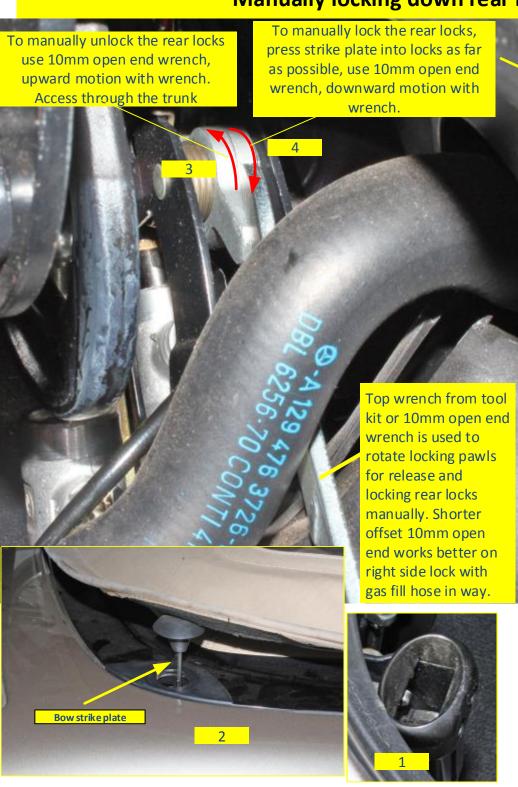
REAR LOCK FULLY OPEN AND FULLY CLOSED MECHANICAL LOCK



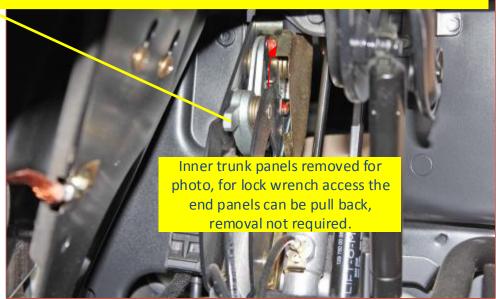
REAR LOCK FULLY OPEN AND FULLY CLOSED MECHANICAL LOCK

- 1) When the rear lock is fully open one of the locking pawls is engaged in the direct drive plate to keep the lock open. This mechanical lock prevents the lock/latch from sinking down when the hydraulics are off and regulates when the lock can be closed. The lock's "open" locking pawl is released when the bow or hardtop strike plate presses down on the latch plate, which rotates the spring loaded latch plate, catches the strike plate, closes the "closed" switch, signals the controller and releases the mechanical locking pawl. The hydraulics can then pull the bow or hardtop strike plate to full down and "closed" locked position. If needed the locking pawl when the lock is open can be released manually using a 10mm open end wrench through the trunk. See following pages for more details.
- 2) When the rear lock is fully pulled down and the bow or hard top is closed and locked, a locking pawl is engaged in the latch plate and prevents the bow or hardtop strike plate from pulling up out of the lock even with the hydraulics off. The "closed" locking pawl is released when the hydraulics are activated to open the lock, the direct drive plate movement releases the latch plate locking pawl. The "closed" locking pawl can also be released manually with a 10mm open end wrench, there's wrench flats on the back of the locking pawl as shown above, pulling upward on the 10mm open wrench will release the locking pawl, both pawls.

Manually locking down rear locks for Bow or Hardtop



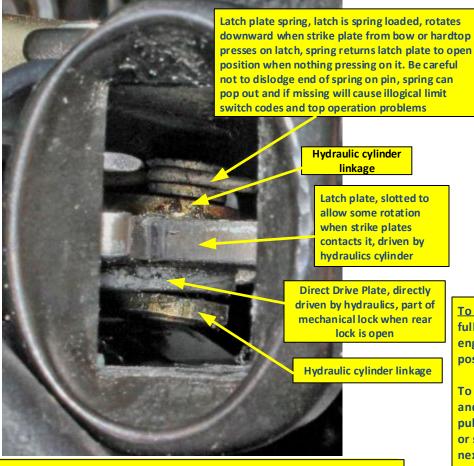
95 and newer model year rear locks



If the bow or hardtop needs to be manually locked down;

- 1) first make sure the rear locks are in the open position
- 2) close bow or set hardtop so strike plates are in the rear locks
- 3) for each lock, release locked pawl from trunk using upward movement of 10mm wrench, press bow or hardtop down over rear lock area, strike plate should move deeper into lock, do for both sides and press into the lock as far as possible prior to final locking
- 4) Keep pushing down over lock area one side at a time and use downward motion on 10mm wrench to close and lock completely, resistance will be felt as the final movement of the lock is compressing/sealing bow or hardtop against the body of the car. If locked correctly the bow or hardtop will not pull up out of the locks.

Manually Opening Rear Lock and Verifying Mechanical Lock Pawl is Engaged



Rear lock has mechanical lock in open and closed positions. If lock is in open or closed position and needs to unlocked, use 10mm wrench flat, which is accessed through the trunk. Upward movement of wrench will unlock either closed or open locking pawl.



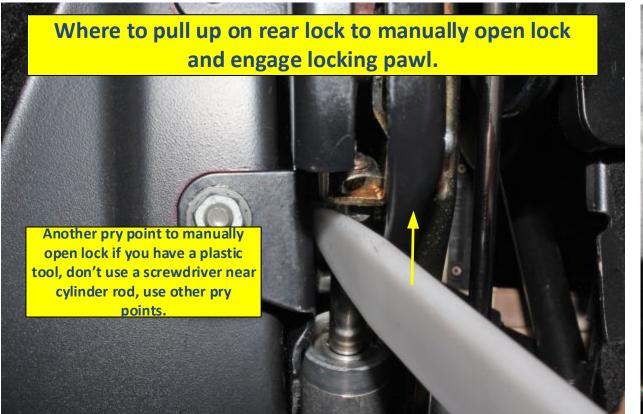


To manually open the rear lock correctly; must check to see if it's locked open. The latch can be full up in the lock opening but the locking pawl may not be engaged. If the locking pawl is not engaged the lock/latch can sink downward when the hydraulics are off and the incorrect lock position may cause the top controller to incorrectly close the rear locks when powered up.

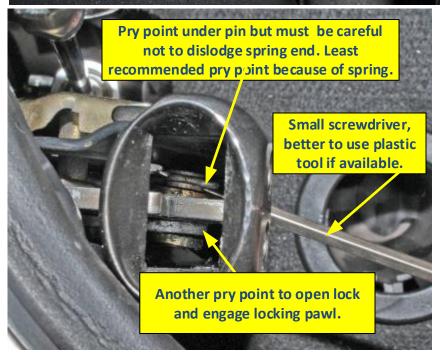
To manually open the lock fully and correctly means the "open" locking pawl must be engaged and to do this you can't just pull up on the latch in the middle of the lock opening, you have to pull up the direct drive plate until the locking pawl engages. To do this you use a thin plastic tool or small screwdriver through the slot in front of the lock to get under thinner direct drive plate next to the latch or the pin on the side, which is connected to the lock's cylinder. Pull up firmly until the locking pawl click engagement can be heard. A small flat head screwdriver or a bone tool as shown can be used to get under the thin drive plate or pin. If using a screwdriver care must be taken, the cylinder rod is exposed, it is lower than the pry location but you don't want to contact the rod with a screwdriver end.

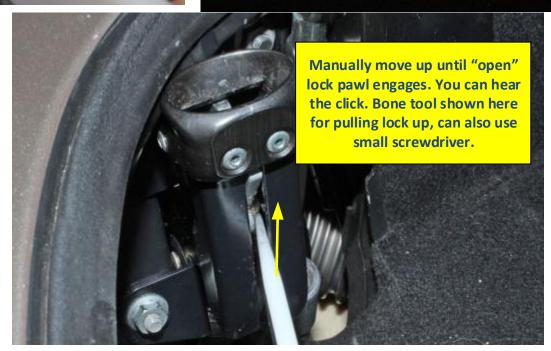
To check if the rear lock "open" locking pawl is engaged do this; through the opening in the rear lock and with a thin tool press down firmly on direct drive plate or pin on the side of the latch plate The latch and lock assembly should not move down. <u>Don't press on latch plate itself for this check, the rotation of the latch plate is what unlocks the locking pawl.</u> Be careful not to dislodge the latch spring end on the side pin is using this location to press down.

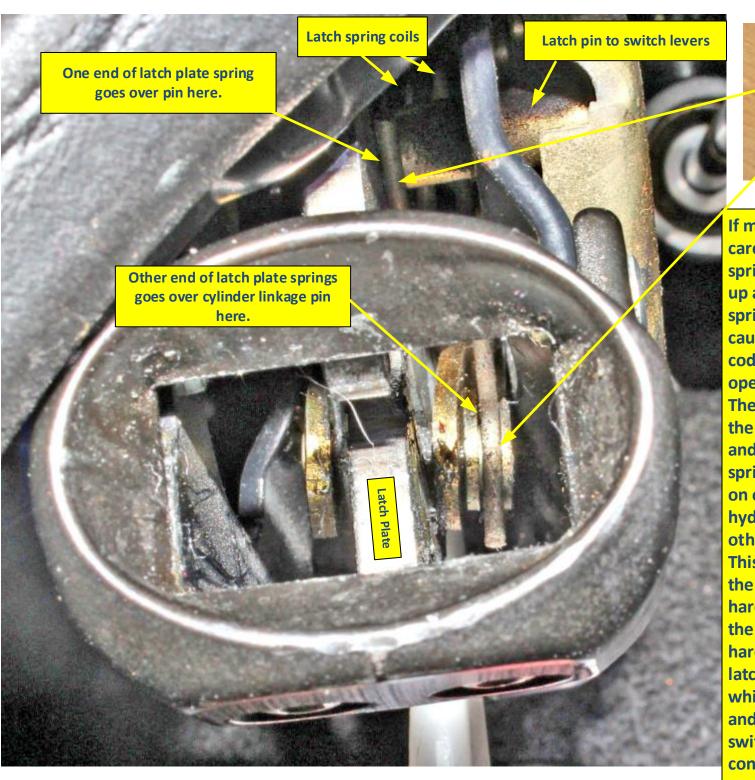
If the rear lock is all the way down and locked in the fully closed position the "closed" locking pawl will need to be released through the trunk using a 10mm wrench before. This must be done to be able to pull up and open the lock. Once the locking pawl is released you can pull up on the latch through the lock opening to get to the open position easier but the final step to engage the "open" locking pawl will need to be done as described above.

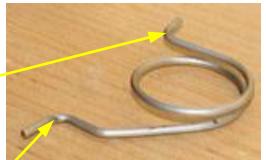












If manually opening the lock be careful not to dislodge the latch spring end. If the spring end is pulled up and dislodged from the pin the spring can fall out and if missing will cause limit-switch-signal-illogical code and interfere with top operation.

The spring is located on the side of the lock with the switch cover plate and internal so difficult to see. The spring hooks onto the latch plate pin on one end and over the pin of the hydraulic cylinder linkage pin on the other end (see photo).

This spring returns the latch plate to the open position when the bow or hardtop strike plate is not resting on the latch plate. When the bow or hardtop strike plate is resting on the latch plate it rotates down some, which moves the latch plate pin down and closes (0 ohm) the "closed" switch in the lock and signals the top controller.