

Diagnosis – Function Test

Retractable hardtop opening sequence

Initial stage: Retractable hardtop closed.

Each figure shows sequence step with each limit switch in the end position, along with actuation of hydraulic actuators and window motors, that must be completed first before the next sequence step can be accomplished.



Before beginning operation of the retractable hardtop, the luggage cover in the trunk must be extended and engaged, and trunk lid closed.

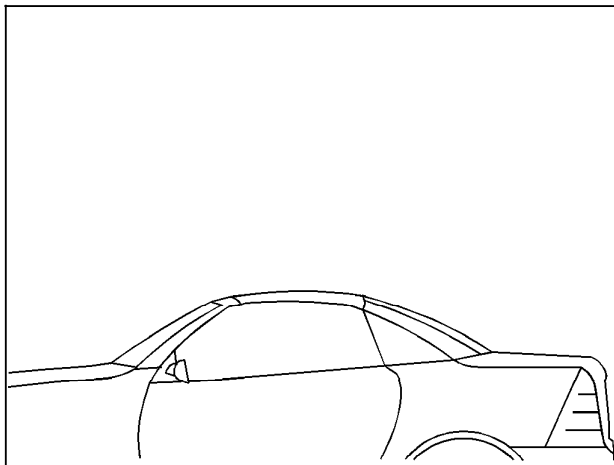


Figure 1 P77.39-0232-01

Initial stage: Retractable hardtop closed.

- S69/1 Retractable hardtop closed limit switch (right pin)
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
- S69/3 Retractable hardtop locked limit switch (left rotary latch)
- S69/7 Trunk lid closed/locked left limit switch
- S69/8 Trunk lid closed/locked right limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

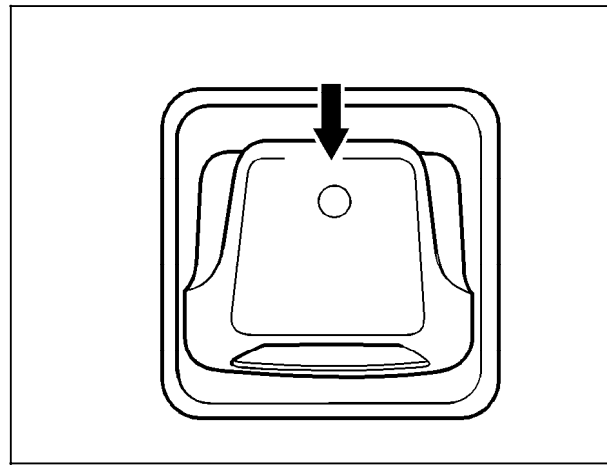


Figure 2 P77.39-0231-01

S84 Retractable hardtop switch

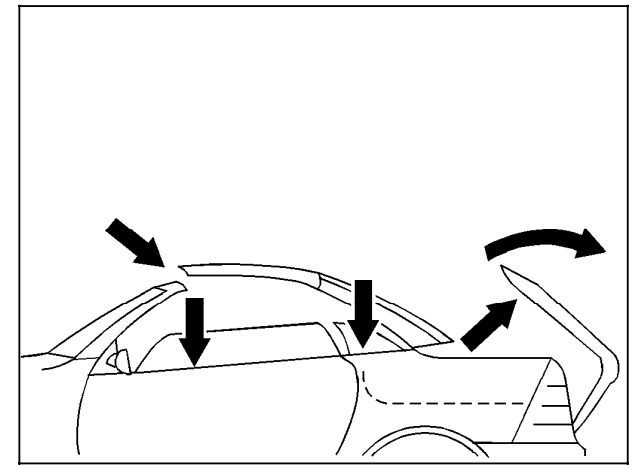


Figure 3 P77.39-0225-01

- A7/5k1 Hydraulic unit relay
- A7/5y1 Retractable hardtop solenoid valve
- A7/5y2 Trunk lid solenoid valve
- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)
- M10/5 Left rear power window motor
- M10/6 Right rear power window motor
- S69/1 Retractable hardtop closed limit switch (right pin)
- S69/9 Trunk lid open limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

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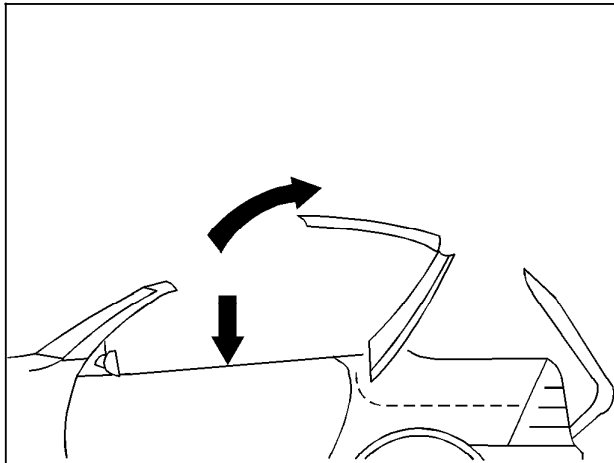


Figure 4 P77.39-0226-01

- A7/5k1 Hydraulic unit relay
- A7/5y1 Retractable hardtop solenoid valve
- A7/5y2 Trunk lid solenoid valve
- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)
- S69/9 Trunk lid open limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/11 Retractable hardtop open/stored limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

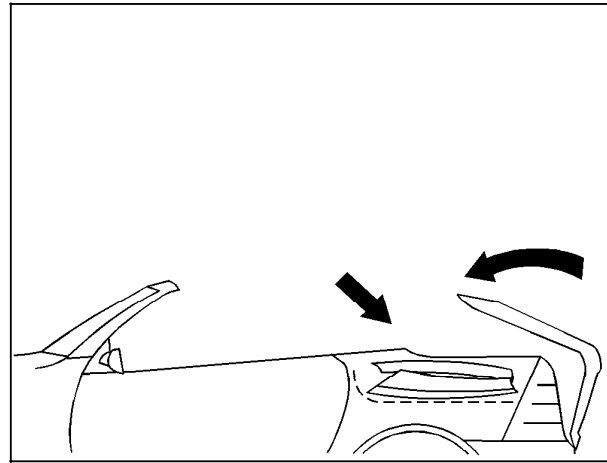


Figure 5 P77.39-0227-01

- A7/5k1 Hydraulic unit relay
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
- S69/3 Retractable hardtop locked limit switch (left rotary latch)
- S69/7 Trunk lid closed/locked left limit switch
- S69/8 Trunk lid closed/locked right limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/11 Retractable hardtop open/stored limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

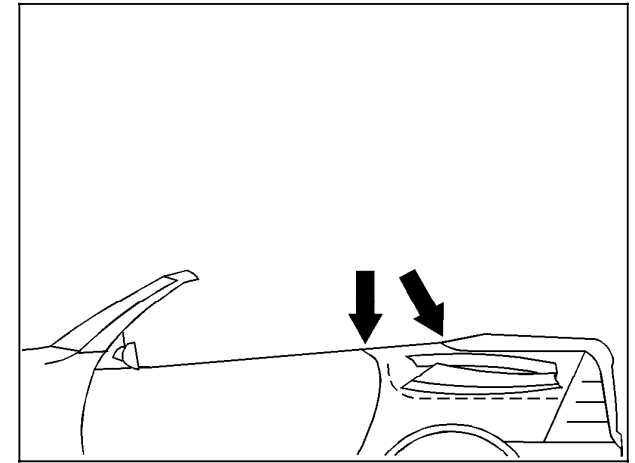


Figure 6 P77.39-0228-01

- A7/5k1 Hydraulic unit relay
- M10/5 Left rear power window motor
- M10/6 Right rear power window motor
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
- S69/3 Retractable hardtop locked limit switch (left rotary latch)
- S69/7 Trunk lid closed/locked left limit switch
- S69/8 Trunk lid closed/locked right limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/11 Retractable hardtop open/stored limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

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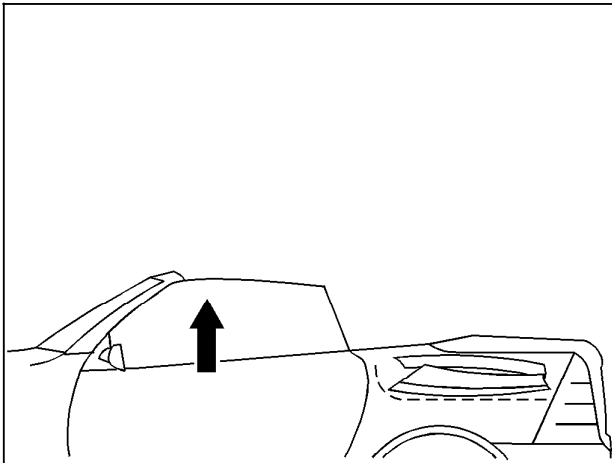


Figure 7

P77.39-0229-01

- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)

Diagnosis – Function Test

Retractable hardtop closing sequence

Initial stage: Retractable Hardtop open (stored).

Each figure shows sequence step with each limit switch in the end position, along with actuation of hydraulic actuators and window motors, that must be completed first before the next sequence step can be accomplished.



Before beginning operation of the retractable hardtop, the luggage cover in the trunk must be extended and engaged, and trunk lid closed.

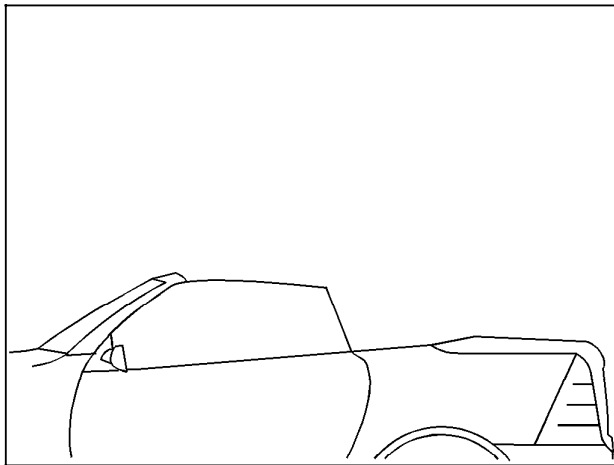


Figure 1 P77.39-0218-01

- Initial stage: Retractable Hardtop open (stored).
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
 - S69/3 Retractable hardtop locked limit switch (left rotary latch)
 - S69/7 Trunk lid closed/locked left limit switch
 - S69/8 Trunk lid closed/locked right limit switch
 - S69/10 Retractable luggage cover engaged limit switch
 - S69/12 Trunk lock/trunk illumination rotary latch selector switch

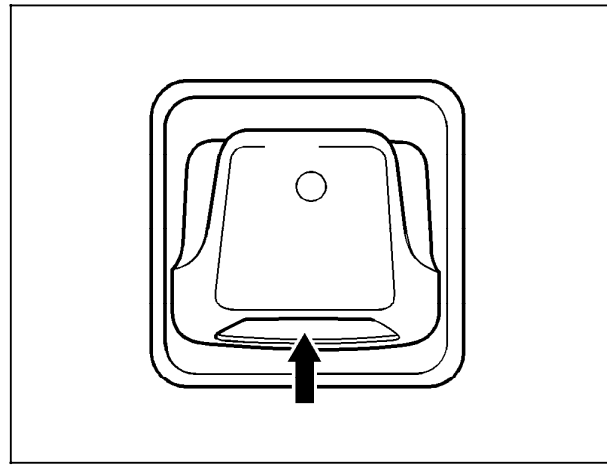


Figure 2 P77.39-0230-01

- S84 Retractable hardtop switch

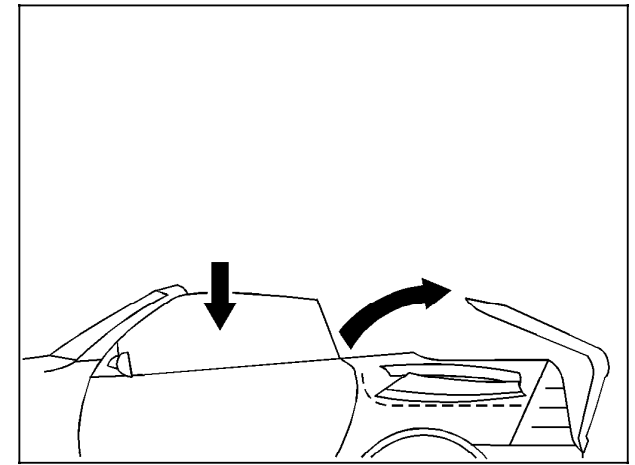


Figure 3 P77.39-0219-01

- A7/5k1 Hydraulic unit relay
- A7/5y2 Trunk lid solenoid valve
- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)
- M10/5 Left rear power window motor
- M10/6 Right rear power window motor
- S69/9 Trunk lid open limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/11 Retractable hardtop open/stored limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

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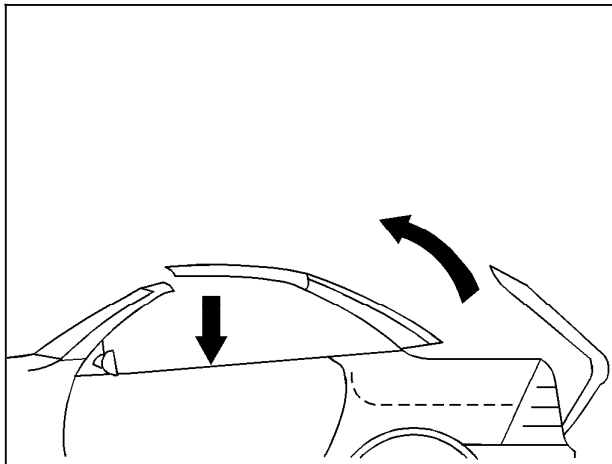


Figure 4

P77.39-0220-01

- A7/5k1 Hydraulic unit relay
- A7/5y1 Retractable hardtop solenoid valve
- A7/5y2 Trunk lid solenoid valve
- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)
- S69/1 Retractable hardtop closed limit switch (right pin)
- S69/9 Trunk lid open limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

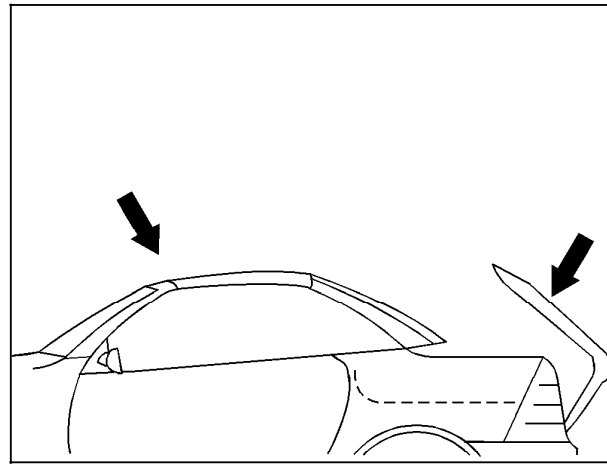


Figure 5

P77.39-0221-01

- A7/5k1 Hydraulic unit relay
- A7/5y1 Retractable hardtop solenoid valve
- S69/1 Retractable hardtop closed limit switch (right pin)
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
- S69/3 Retractable hardtop locked limit switch (left rotary latch)
- S69/7 Trunk lid closed/locked left limit switch
- S69/8 Trunk lid closed/locked right limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

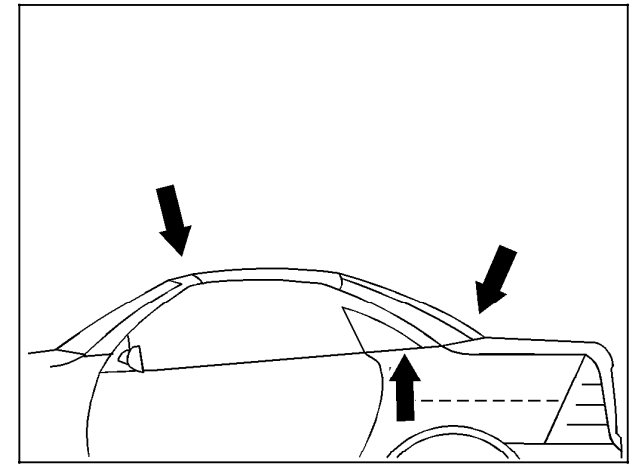


Figure 6

P77.39-0222-01

- A7/5k1 Hydraulic unit relay
- A7/5y1 Retractable hardtop solenoid valve
- M10/5 Left rear power window motor
- M10/6 Right rear power window motor
- S69/1 Retractable hardtop closed limit switch (right pin)
- S69/2 Retractable hardtop locked limit switch (right rotary latch)
- S69/3 Retractable hardtop locked limit switch (left rotary latch)
- S69/7 Trunk lid closed/locked left limit switch
- S69/8 Trunk lid closed/locked right limit switch
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

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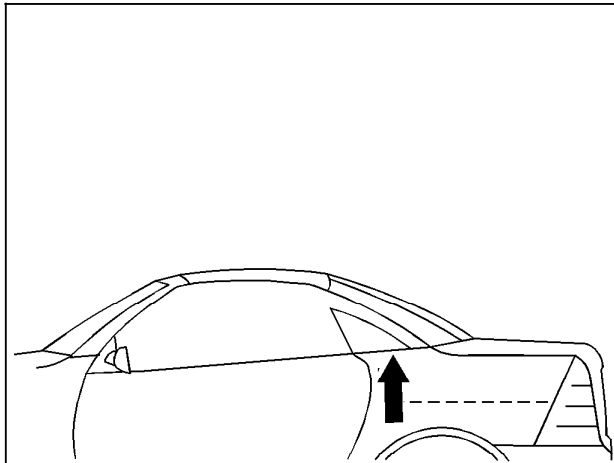


Figure 7

P77.39-0223-01

- M10/5 Left rear power window motor
- M10/6 Right rear power window motor
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

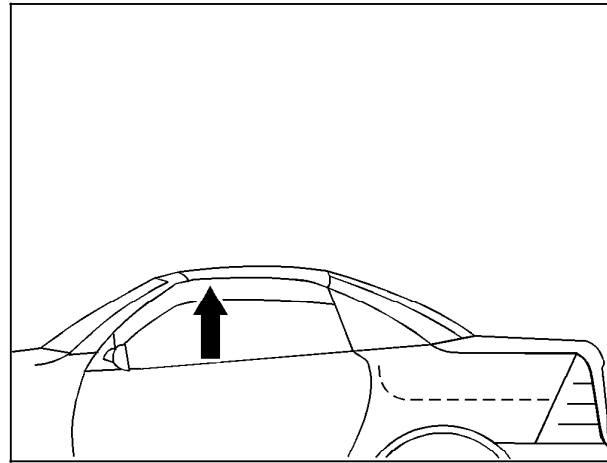


Figure 8

P77.39-0224-01

- M10/3 Left front power window motor (voltage supply)
- M10/4 Right front power window motor (voltage supply)
- S69/10 Retractable luggage cover engaged limit switch
- S69/12 Trunk lock/trunk illumination rotary latch selector switch

Diagnosis – Function Test

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ^{1) 2)}
⇒ 1.0 Power windows ²⁾	Ignition: ON (position 1)		16
Open side windows	Press rear of the window switch (1 detent)	Side windows open, as long as switch is depressed	16
Open side windows - express down (automatic one-touch function)	Press rear of the window switch (past 1 detent)	Window opens automatically without depressing the switch	16
Close side windows	Press front of the window switch	Window closes, as long as switch is depressed	16
Front side windows open with retractable hardtop switch tip function	Retractable hardtop locked Press retractable hardtop switch twice within 0.5 seconds to the rear and hold	Front side windows open, switch must be held in the open (pressed to the rear) position	16
Front side windows close with retractable hardtop switch tip function	Retractable hardtop locked Press retractable hardtop switch twice within 0.5 seconds to the front and hold	Front side windows close, switch must be held in close (to the front) position	16

1) Observe Preparation for Test, see 22.

2) The luggage cover in the luggage compartment must engaged and the trunk lid closed, prior to starting the Function Test.

Diagnosis – Function Test

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 2.0 Retractable hardtop switch indicator lamp	Ignition: ON	Indicator lamp illuminates	16
⇒ 3.0 Retractable hardtop opens by pressing the switch	Ignition: ON Press retractable hardtop switch to the " open " (toward back) position	Side windows front and rear open Retractable hardtop unlocks Trunk lid opens up Retractable hardtop opens Trunk lid closes and locks up Front side windows close	16
⇒ 4.0 Retractable hardtop closes by pressing the switch	Ignition: ON Press retractable hardtop switch to the " close " (toward front) position	Side windows front open Trunk lid opens up Retractable hardtop closes Trunk lid closes and locks Retractable hardtop locks Front and rear side windows close	14 Complaint No. 13
⇒ 5.0 Gong in instrument cluster	Retractable hardtop unlocked and vehicle speed is more than 3 mph (5 km/h)	Gong in instrument cluster sounds	16

¹⁾ Observe Preparation for Test, see 22.