

Diagnosis – Complaint Related Diagnostic Chart

 **CAUTION!**

Risk of severe injury, ensure that no persons are within the deployment radius of the roll bar during testing and repair.

Fully extend the roll bar prior to performing any repair work. Keep body parts away from the roll bar deployment radius and its mechanism.

 **CAUTION!**

Risk of severe injury, to eyes and skin from escaping high pressure hydraulic fluid spray.

Risk of poisoning due to consumption of hydraulic fluid.

Depressurize the hydraulic system prior to performing repair work

Wear protective clothing and safety goggles.



When performing activations via the HHT, PIN 46 of the Power Soft Top Control Module (N52) **must be grounded** via connection to vehicle ground.

When activations are completed, **remove the ground connection for PIN 46.**



In order to make accurate visual inspection for oil loss from the hydraulic system, the trim panels covering the hydraulic components and rear seat assembly must be removed.

Review of 21 and 11 is helpful.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Indicator lamp in RB switch (S83) (manual operation) does not illuminate after the ignition is switched ON . (Engine: OFF)	Defect at RB switch (S83) Defect at RB "retracted" switch (S83/5) Or Defect at RB "extended" switch (S83/6) Fault at Power Soft Top Control Module (N52)	23⇒ 4, 23⇒ 9, 23⇒ 10, 12
Roll bar extends independently	Mechanical lock of the roll bar extension actuation element (there is a "ratcheting noise" that is heard when the roll bar extends independently)	Roll bar
Roll bar does not extend via the RB switch (S83)	Voltage supply to Power Soft Top Control Module (N52) Defect at RB switch (S83) Defect at RB "extended" switch (S83/6) Defect at RB hydraulic unit (power soft top) (A7/5) RB valve block (Y57) RB hydraulic cylinder Fault at Power Soft Top Control Module (N52)	23⇒ 1, 23⇒ 3, 23⇒ 10, 23⇒ 5, 23⇒ 6, 23⇒ 7, 32⇒ 1
Roll bar can not be retracted via RB switch (S83)	Voltage supply to Power Soft Top Control Module (N52) Defect at RB switch (S83) Defect at RB "retracted" switch (S83/5) Defect at RB hydraulic unit (power soft top) (A7/5) RB valve block (Y57) RB hydraulic cylinder Fault at Power Soft Top Control Module (N52)	23⇒ 1, 23⇒ 3, 23⇒ 9, 23⇒ 5, 23⇒ 6, 23⇒ 7, 32⇒ 1
Roll bar can not be extended or retracted completely	Voltage supply to Power Soft Top Control Module (N52) Defect at RB hydraulic unit (power soft top) (A7/5) RB hydraulic cylinder	23⇒ 1, 23⇒ 5, 23⇒ 6, 23⇒ 7, 32⇒ 1
Crash Deployment of roll bar does not function	RB valve block (Y57) RB deployment solenoid (Y57/1) Fault at Power Soft Top Control Module (N52)	23⇒ 8, 23⇒ 1

1) Observe Preparation for Test, see 22.