

Electrical Test Program – Survey of Electrical Valve Actuation

Y55 Left RST Valve Block  
(4 connections)

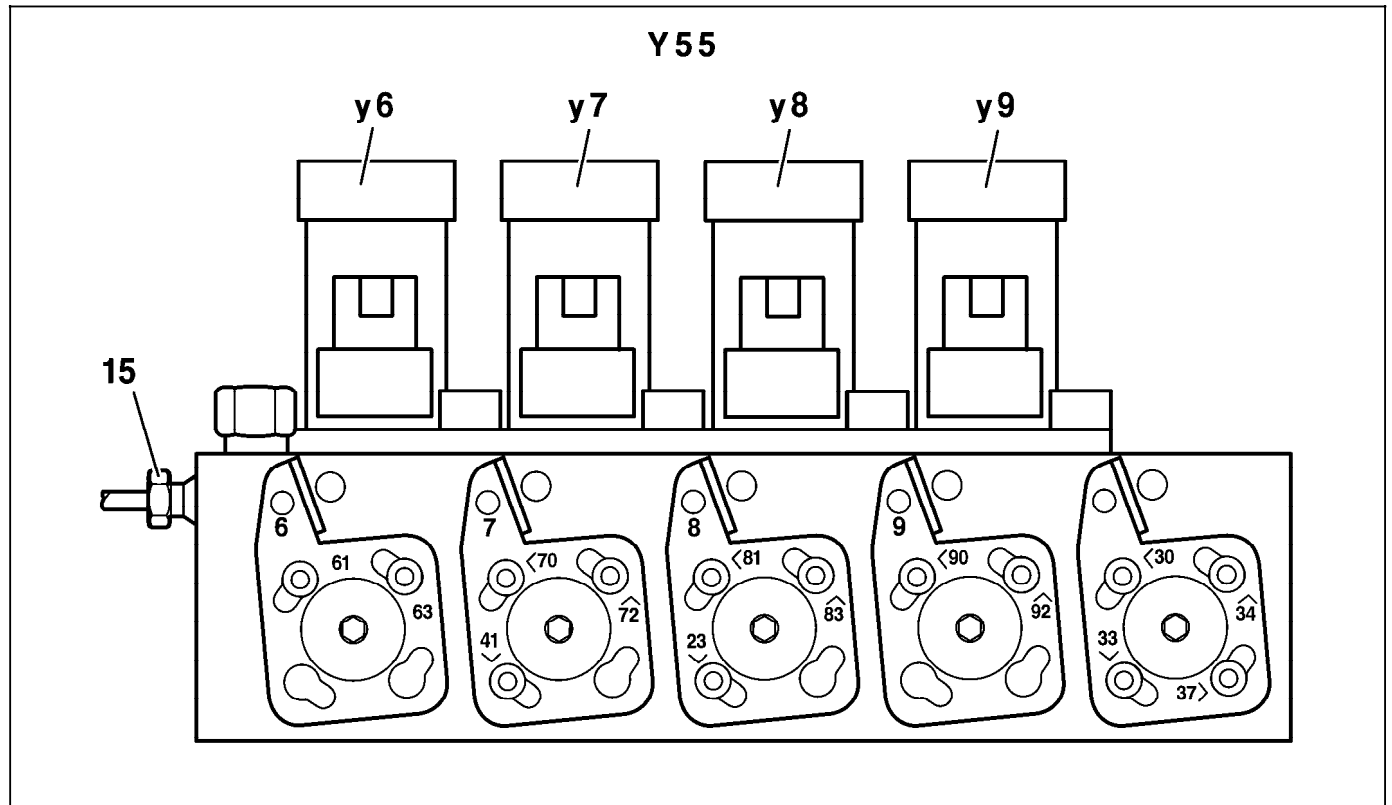


Figure 1

- Y55 Left RST valve block (4 connections)
- y6 Soft top "open" valve
- y7 Soft top "close" valve
- y8 Fabric bow "raise" valve
- y9 Fabric bow "lower" valve

P77.39-0272-05

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**Y56 Right RST Valve Block  
(4 connections)  
and  
Y57 Roll bar Valve Block  
(2 connections)**

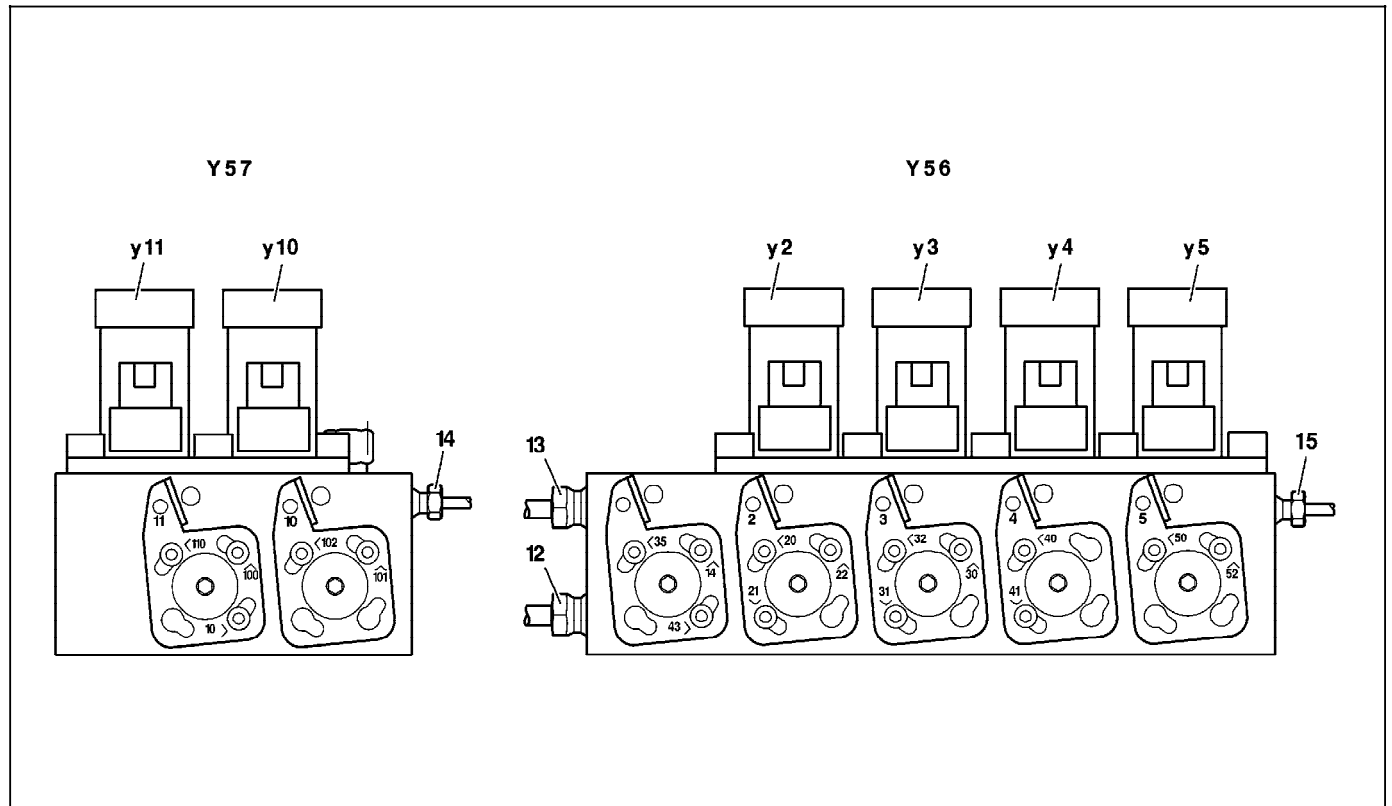













Figure 2

- Y56 Left RST valve block (4 connections)
- y2 Rear locks valve
- y3 Center locks valve
- y4 Front locks valve
- y5 Soft top compartment cover valve
  
- Y57 Roll Bar valve block (2 connections)
- y10 Roll bar "Lower" valve
- y11 Roll bar "raise" valve

P77.39-0273-09

## Electrical Test Program – Survey of Electrical Valve Actuation

### Operational Sequence: Soft Top Opening

	Left RST valve block (Y55)				Hydraulic unit (A7/5) <sup>1)</sup>	RB valve block (Y57)		Right RST valve block (Y56)			
Valves being controlled at time of operational sequence	y6	y7	y8	y9	y1	y10	y11	y4	y2	y3	y5
Connection Diagram – Socket box X ( 22, Figure 1), Z ( 22, Figure 3)	X  10 3	X  10 4	X  10 5	X  10 6	X  10 8	X  10 7	Z  12 8	Z  12 3	Z  12 4	Z  12 5	Z  12 6
Lower roll bar, lower side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V
Unlock fabric bow	0–1 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	11–14 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V
Raise fabric bow	0–1 V	0–1 V	<b>11–14 V</b>	<b>0–1 V</b>	11–14 V	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V
Unlock soft top compartment cover	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V
Open soft top compartment cover	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	<b>11–14 V</b>
Unlock front of soft top	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	<b>11–14 V</b>	0–1 V	11–14 V	11–14 V
Open soft top	<b>11–14 V</b>	<b>0–1 V</b>	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V
Lower soft top into soft top compartment	11–14 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V
Close soft top compartment cover	11–14 V	0–1 V	<b>11–14 V</b>	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	<b>0–1 V</b>
Lock soft top compartment cover	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	<b>0–1 V</b>	0–1 V
Raise roll bar, raise side windows	<b>0–1 V</b>	0–1 V	0–1 V	0–1 V	<b>0–1 V</b>	11–14 V	<b>11–14 V</b>	0–1 V	0–1 V	0–1 V	0–1 V












<sup>1)</sup> RST/RB hydraulic unit main valve (A7/5y1) was deleted as of VIN 1F-083891

## 11.2 Roadster Soft Top (RST), Roll Bar (RB) (Manual Deployment)

Model 129

### Electrical Test Program – Survey of Electrical Valve Actuation






#### Operational Sequence: Closing Soft Top

Valves being controlled at time of operational sequence	Left RST valve block (Y55)				Hydraulic unit (A7/5) <sup>1)</sup>	RB valve block (Y57)		Right RST valve block (Y56)			
	y6	y7	y8	y9	y1	y10	y11	y4	y2	y3	y5
Connection Diagram – Socket box X ( 22, Figure 3), Z ( 22, Figure 5)	X  10 3	X  10 4	X  10 5	X  10 6	X  10 8	X  10 7	Z  12 8	Z  2 3	Z  12 4	Z  12 5	Z  12 6
Lower roll bar, lower side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V
Unlock soft top compartment cover	0–1 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	11–14 V	0–1 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V
Open soft top compartment cover	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	<b>11–14 V</b>
Close soft top	0–1 V	<b>11–14 V</b>	<b>11–14 V</b>	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V
Close soft top (differential operation)	<b>11–14 V</b>	11–14 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V
Lock front of soft top	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	<b>0–1 V</b>	0–1 V	11–14 V	11–14 V
Close soft top compartment cover	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V	<b>0–1 V</b>
Lock soft top compartment cover	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	<b>0–1 V</b>	0–1 V
Lower fabric bow	0–1 V	0–1 V	<b>0–1 V</b>	<b>11–14 V</b>	11–14 V	11–14 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V
Lock fabric bow	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	11–14 V	0–1 V	0–1 V	<b>0–1 V</b>	0–1 V	0–1 V
Raise roll bar, raise side windows	0–1 V	0–1 V	0–1 V	0–1 V	<b>0–1 V</b>	11–14 V	<b>11–14 V</b>	0–1 V	0–1 V	0–1 V	0–1 V

<sup>1)</sup> RST/RB hydraulic unit main valve (A7/5y1) was deleted as of VIN 1F-083891







### Electrical Test Program – Survey of Electrical Valve Actuation

#### Operational Sequence: Locking Hardtop

	Left RST valve block (Y55)				Hydraulic unit (A7/5) <sup>1)</sup>
Valves being controlled at time of operational sequence	y6	y7	y8	y9	y1
Connection Diagram – Socket box X ( 22, Figure 1), Z ( 22, Figure 3)	X  10 3	X  10 4	X  10 5	X  10 6	X  10 8
Rear (lock)	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V
Front (lock)	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V

<sup>1)</sup> RST/RB hydraulic unit main valve (A7/5y1) was deleted as of VIN 1F-083891.












#### Operational Sequence: Locking Hardtop

	RB valve block (Y57)		Right RST valve block (Y56)			
Valves being controlled at time of operational sequence	y10	y11	y4	y2	y3	y5
Connection Diagram – Socket box X ( 22, Figure 1), Z ( 22, Figure 3)	X  10 7	Z  12 8	Z  12 3	Z  12 4	Z  12 5	Z  12 6
Rear (lock) (roll bar "lowered")	11–14 V	0–1 V	0–1 V	<b>0–1 V</b>	0–1 V	0–1 V
Rear (lock) (roll bar "raised")	11–14 V	11–14 V	0–1 V	<b>0–1 V</b>	0–1 V	0–1 V
Front (lock) (roll bar "lowered")	11–14 V	0–1 V	<b>0–1 V</b>	0–1 V	0–1 V	0–1 V
Front (lock) (roll bar "raised")	11–14 V	11–14 V	<b>0–1 V</b>	0–1 V	0–1 V	0–1 V

<sup>1)</sup> RST/RB hydraulic unit main valve (A7/5y1) was deleted as of VIN 1F-083891.

## Electrical Test Program – Survey of Electrical Valve Actuation

### Operational Sequence: Unlocking Hardtop

	Left RST valve block (Y55)				Hydraulic unit (A7/5) <sup>1)</sup>	RB valve block (Y57)		Right RST valve block (Y56)			
Valves being controlled at time of operational sequence	y6	y7	y8	y9	y1	y10	y11	y4	y2	y3	y5
Connection Diagram – Socket box X ( 22, Figure 1), Z ( 22, Figure 3)	X  10 3	X  10 4	X  10 5	X  10 6	X  10 8	X  10 7	Z  12 8	Z  12 3	Z  12 4	Z  12 5	Z  12 6
Rear (unlock)	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V	0–1 V
Front (unlock)	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	<b>11–14 V</b>	0–1 V	0–1 V

<sup>1)</sup> RST/RB hydraulic unit main valve (A7/5y1) was deleted as of VIN 1F-083891.