

Electrical Test Program – Survey of Electrical Valve Actuation

Y55/1 Left power soft top valve block
(4 connections)

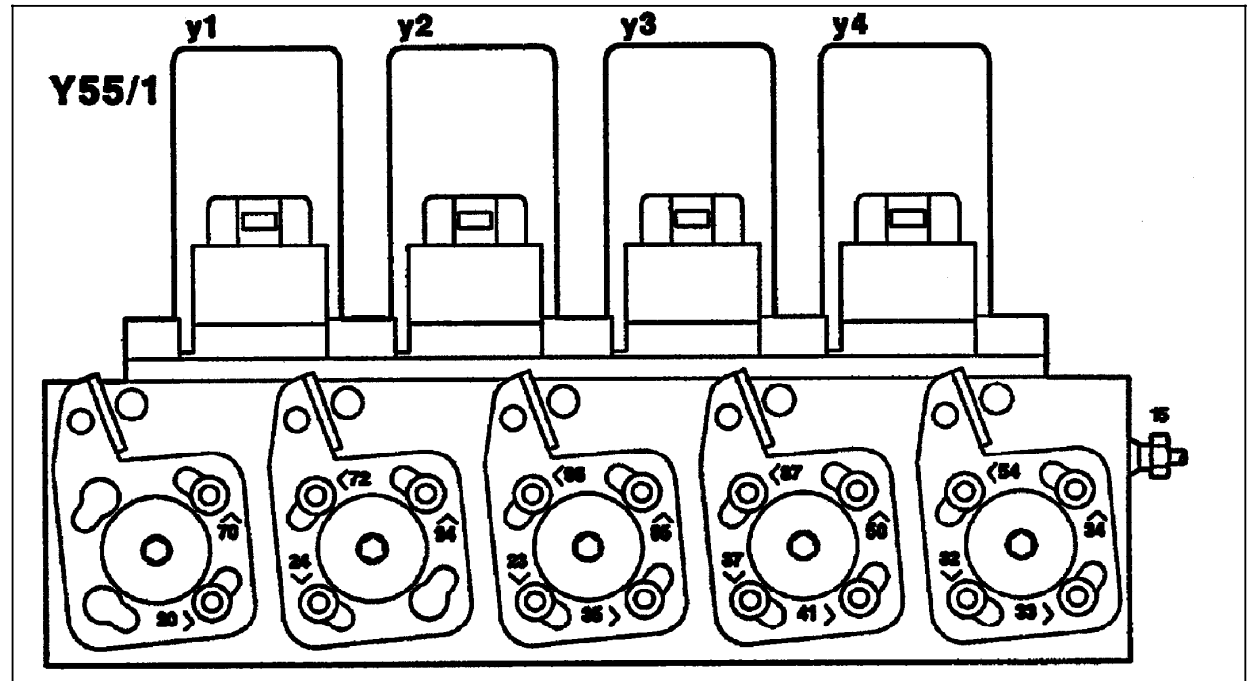


Figure 1

- y1 Soft top “closed”/ fabric bow lock “open” valve
- y2 Fabric bow “closed” valve
- y3 Fabric bow “open”/soft top compartment cover “closed” valve
- y4 Soft top compartment cover “open”/soft top compartment cover lock “open” valve

P77.37-0205-05

Electrical Test Program – Survey of Electrical Valve Actuation

Y56/1 Right power soft top valve block
(3 connections)

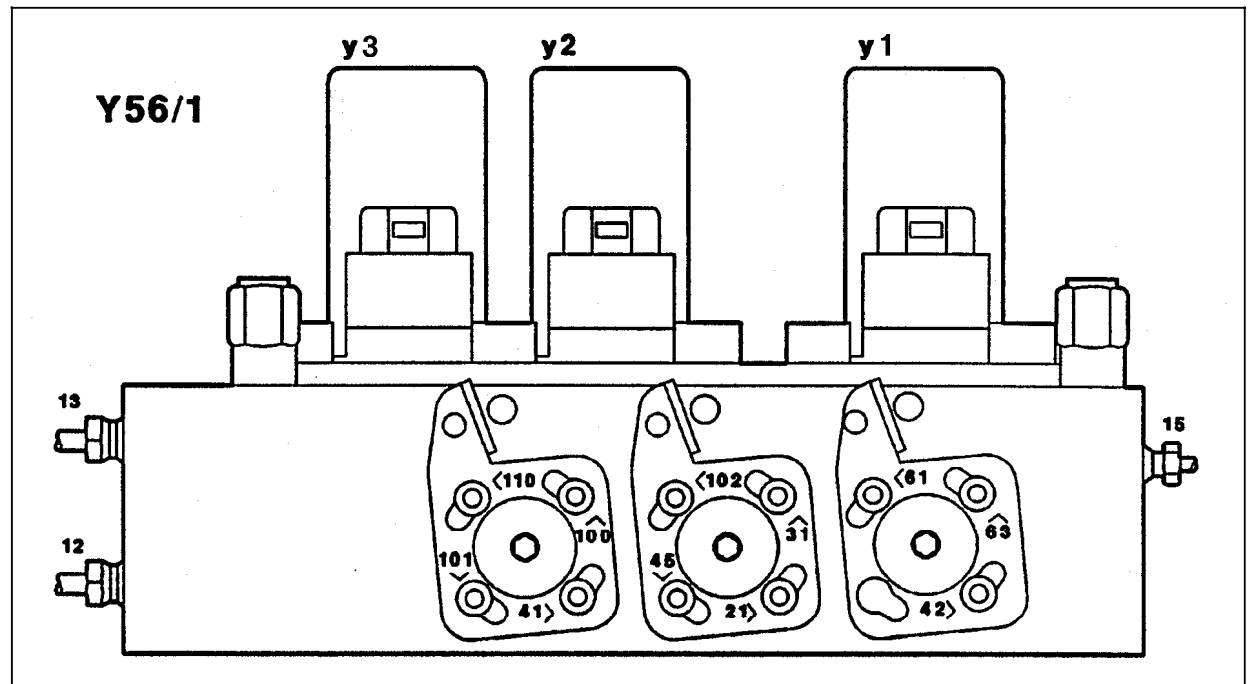









Figure 2

- y1 Soft top "open"/front lock "open" valve
- y2 Roll bar "lower" valve
- y3 Roll bar "raise" valve

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






Electrical Test Program – Survey of Electrical Valve Actuation

Operational sequence, soft top opening

Valves being controlled at time of operational sequence	Left power soft top valve block (Y55/1)				Right power soft top valve block (Y56/1)		
	Soft top compartment cover “open” / soft top compartment cover lock “open” valve (y4)	Soft top “closed”/ fabric bow lock “open” valve (y1)	Fabric bow “closed” valve (y2)	Fabric bow “open”/soft top compartment cover “closed” valve (y3)	Soft top “open”/front lock “open” valve (y1)	Roll bar “raise” valve (y3)	Roll bar “lower” valve, Hydraulic actuator (y2)
When testing with HHT Up corresponds to 11 – 14 V Closed corresponds to 0 – 1 V							
Connection Diagram – Socket Box to Connector (X2) (22, Figure 2)	X2  ⊥ 37	X2  ⊥ 36	X2  ⊥ 55	X2  ⊥ 18	X2  ⊥ 19	X2  ⊥ 17	X2  ⊥ 54
Lower roll bar, lower side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V
Unlock fabric bow	0–1 V	11–14 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V
Raise fabric bow	0–1 V	11–14 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Unlock, open soft top compartment cover	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Unlock front soft top	11–14 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V
Open soft top	11–14 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V
Lower soft top in soft top compartment	11–14 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V
Close, lock soft top compartment cover	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V
Raise roll bar, raise side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V








Electrical Test Program – Survey of Electrical Valve Actuation

Operational sequence, soft top closing

Valves being controlled at time of operational sequence	Left power soft top valve block (Y55/1)				Right power soft top valve block (Y56/1)		
	Soft top compartment cover “open” / soft top compartment cover lock “open” valve (y4)	Soft top “closed”/ fabric bow lock “open” valve (y1)	Fabric bow “closed” valve (y2)	Fabric bow “open”/soft top compartment cover “closed” valve (y3)	Soft top “open”/front lock “open” valve (y1)	Roll bar “raise” valve (y3)	Roll bar “lower” valve, Hydraulic actuator (y2)
When testing with HHT Up corresponds to 11 – 14 V Closed corresponds to 0 – 1 V							
Connection Diagram – Socket Box to Connector (X2) (22, Figure 2)	X2  ⊥ 37	X2  ⊥ 36	X2  ⊥ 55	X2  ⊥ 18	X2  ⊥ 19	X2  ⊥ 17	X2  ⊥ 54
Lower roll bar, lower side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V
Unlock, open soft top compartment cover	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Close soft top	11–14 V	11–14 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Close soft top (Differential operation, after approximately 6 seconds)	11–14 V	11–14 V	0–1 V	11–14 V	11–14 V	0–1 V	11–14 V
Lock front soft top (Activate for 0.5 seconds)	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V	0–1 V
Lock front soft top	11–14 V	11–14 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Close, lock soft top compartment cover	0–1 V	11–14 V	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V
Lower fabric bow	0–1 V	11–14 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V
Lock fabric bow	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V	0–1 V	11–14 V
Raise roll bar, raise side windows	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	11–14 V








Electrical Test Program – Survey of Electrical Valve Actuation

Operational sequence, hardtop locking

Valves being controlled at time of operational sequence	Left power soft top valve block (Y55/1)				Right power soft top valve block (Y56/1)		
	Soft top compartment cover “open” / soft top compartment cover lock “open” valve (y4)	Soft top “closed”/ fabric bow lock “open” valve (y1)	Fabric bow “open”/soft top compartment cover “closed” valve (y3)	Fabric bow “closed” valve (y2)	Soft top “open”/front lock “open” valve (y1)	Roll bar “raise” valve (y3)	Roll bar “lower” valve, Hydraulic actuator (y2)
When testing with HHT Up corresponds to 11 – 14 V Closed corresponds to 0 – 1 V							
Connection Diagram – Socket Box to Connector (X2) (22, Figure 2)	X2  └ 37	X2  └ 36	X2  └ 18	X2  └ 55	X2  └ 19	X2  └ 17	X2  └ 54
Hardtop attached (for approximately 3 seconds)	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V
front	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V
rear	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V

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Operational sequence, hardtop unlocking

Valves being controlled at time of operational sequence	Left power soft top valve block (Y55/1)				Right power soft top valve block (Y56/1)		
	Soft top compartment cover “open” / soft top compartment cover lock “open” valve (y4)	Soft top “closed”/ fabric bow lock “open” valve (y1)	Fabric bow “open”/soft top compartment cover “closed” valve (y3)	Fabric bow “closed” valve (y2)	Soft top “open”/front lock “open” valve (y1)	Roll bar “raise” valve (y3)	Roll bar “lower” valve, Hydraulic actuator (y2)
When testing with HHT Up corresponds to 11 – 14 V Closed corresponds to 0 – 1 V							
Connection Diagram – Socket Box to Connector (X2) (22, Figure 2)	X2  └ 37	X2  └ 36	X2  └ 18	X2  └ 55	X2  └ 19	X2  └ 17	X2  └ 54
front	0–1 V	0–1 V	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V
rear	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	11–14 V
Hardtop unlocks (for approximately 3 seconds, after switch is released)	0–1 V	11–14 V	0–1 V	0–1 V	11–14 V	0–1 V	0–1 V