
Failure of pneumatic 4-way lumbar support

Topic number	LI91.10-P-048411
Version	6
Design group	91.10 Front seats
Date	07-12-2014
Validity	Model series 204, 212, 218, 207, 164, 251 with pneumatic lumbar support! Not valid for code 409 or 432 (multicontour or dynamic seat)
Reason for change	Document updated
Reason for block	

Complaint:

The pneumatic 4-way lumbar support fails.
Lumbar support pockets cannot be filled up or they drain.

Cause:

Component failure in lumbar support control unit.

Remedy:

Precise fault location:

Check whether the air pockets exhibit a leakage before replacing any components.

1. Remove seat-back lining of affected seat
2. Cut through red and yellow air line at a point 5 cm after connector (see IMG_2157)
3. Connect pressure tester to red and yellow line in sequence
4. Fill each with max. 300mbar
- 5a. If pressure drops within 30 sec, one of the bladders is failing and the complete lumbar support module has to be replaced.
The currently valid part number can be found in the EPC.
- 5b. If there is no pressure loss detected, then the lumbar support parts kit is generally to be used

Install pump and control unit:

Replace control unit and pump as follows

- Disconnect blue line from control unit using special tool W000589043700 (see IMG_2154)
- Detach electrical connector (see IMG_2155)
- Release mounting clip (see IMG_2156)
- Install new control unit (s. IMG_2159); when doing so, push brass connectors all the way onto air lines (see IMG_2160)
- Disconnect electrical connection on the old pump
- Detach spring of wire suspension (see IMG_2158) and slide pump with foam bag off wire
- Slide new pump onto wire (see IMG_2161)
- Reattach wire suspension and position the pump correctly
- Connect blue pneumatic line to control unit (see IMG_2160)
- Re-connect the electrical connections of the pump and control unit
- Perform a function test; when doing so check for leaks and noise in the pump. If necessary, re-position the pump
- Complete re-assembly of seat

Important: Always install a new control unit and pump!

Attachments	
File	Description
IMG_2154.JPG	Disconnect air line
IMG_2155.JPG	Detach electrical connector
IMG_2156.JPG	Unfasten control unit clips
IMG_2157.JPG	Cut through air lines
IMG_2159.JPG	Install control unit
IMG_2160.JPG	Control unit installed
IMG_2158.JPG	Unhook spring
IMG_2161.JPG	Slide on pump

Symptoms
Body / Seat / Lumbar support / Nonfunctional

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A0005802810			Lumbar support parts kit	1	Lumbar support pump with control unit. Valid for model series 164, 251, 212, 204	X	
A0005802910			Lumbar support parts kit	1	Lumbar support pump with control unit. Valid for model series 207	X	
W00058904370 0			Pliers	1	Special tool for disconnecting the pneumatic connections.		X
W20158913210 0			Tester	1	Pressure tester		X

Work units				
Op. no.	Operation text	Time	Damage code	Note
			80A09 52	Control unit for lumbar support for left front seat
			80N09 52	Control unit for lumbar support for right front seat
			91D03 04	Air cushion for adjustable lumbar support on left front seat Only use when air cushion diagnosis shows a leak
			91S03 04	Air cushion for adjustable lumbar support on right front seat

				Only use when air cushion diagnosis shows a leak
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WIS-References

Document number	Title	Note	Allocation
ar91.25-p-1710cw	Remove/install multicontour seat regulating valve	MODEL 204.0 /2 /3 (except 204.077 /277) with CODE (409) Left/right front multicontour seats MODEL 207, 212, 218 with CODE (409) Left/right front multicontour seats	Remedy

Validity

Vehicle	Engine	Transmission
164.120	*	*
164.121	*	*
164.122	*	*
164.124	*	*
164.125	*	*
164.128	*	*
164.156	*	*
164.172	*	*
164.175	*	*
164.177	*	*
164.186	*	*
164.195	*	*
164.822	*	*
164.824	*	*
164.825	*	*
164.828	*	*
164.871	*	*
164.886	*	*
204.000	*	*
204.001	*	*
204.002	*	*
204.003	*	*
204.006	*	*
204.007	*	*
204.008	*	*
204.022	*	*
204.023	*	*
204.025	*	*

204.041	*	*
204.044	*	*
204.045	*	*
204.046	*	*
204.047	*	*
204.048	*	*
204.049	*	*
204.052	*	*
204.054	*	*
204.055	*	*
204.056	*	*
204.057	*	*
204.065	*	*
204.080	*	*
204.081	*	*
204.082	*	*
204.085	*	*
204.087	*	*
204.088	*	*
204.089	*	*
204.092	*	*
204.200	*	*
204.201	*	*
204.202	*	*
204.203	*	*
204.207	*	*
204.208	*	*
204.222	*	*
204.223	*	*
204.225	*	*
204.241	*	*
204.245	*	*
204.246	*	*
204.247	*	*
204.248	*	*
204.249	*	*
204.252	*	*
204.254	*	*
204.256	*	*
204.257	*	*
204.282	*	*
204.289	*	*
204.292	*	*

204.302	*	*
204.303	*	*
204.347	*	*
204.349	*	*
204.357	*	*
204.902	*	*
204.956	*	*
204.981	*	*
204.982	*	*
204.983	*	*
204.984	*	*
204.987	*	*
207.303	*	*
207.322	*	*
207.347	*	*
207.356	*	*
207.357	*	*
207.372	*	*
212.002	*	*
212.003	*	*
212.005	*	*
212.024	*	*
212.025	*	*
212.047	*	*
212.048	*	*
212.054	*	*
212.056	*	*
212.057	*	*
212.072	*	*
212.077	*	*
212.087	*	*
212.089	*	*
212.090	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.225	*	*
212.247	*	*
212.248	*	*
212.254	*	*
212.256	*	*
212.257	*	*
212.272	*	*

212.287	*	*
212.289	*	*
218.303	*	*
218.323	*	*
218.355	*	*
218.359	*	*
218.373	*	*
218.374	*	*
218.391	*	*
218.393	*	*
251.020	*	*
251.022	*	*
251.026	*	*
251.054	*	*
251.056	*	*
251.065	*	*
251.072	*	*
251.075	*	*
251.077	*	*
251.122	*	*
251.124	*	*
251.125	*	*
251.126	*	*
251.154	*	*
251.156	*	*
251.165	*	*
251.172	*	*
251.175	*	*
251.177	*	*

Full model designation breakdown

Vehicle	Engine	Transmission
164.120	642.940	722.902
164.121	642.820	722.902
164.122	642.940	722.902
164.124	642.820	722.902
164.125	642.820	722.902
164.128	629.912	722.903
164.156	272.967	722.906
164.172	273.963	722.904
164.175	113.964	722.901
164.177	156.980	722.907

164.186	272.967	722.906
164.195	272.973	722.550
164.822	642.940	722.902
164.824	642.820	722.902
164.825	642.820	722.902
164.828	629.912	722.903
164.871	273.923	722.904
164.886	273.963	722.904
204.000	651.913	711.653
204.000	651.913	716.656
204.000	651.913	722.694
204.000	651.913	722.996
204.001	651.913	711.653
204.001	651.913	716.656
204.001	651.913	722.694
204.001	651.913	722.996
204.002	651.911	711.653
204.002	651.911	716.656
204.002	651.911	722.646
204.002	651.911	722.908
204.003	651.911	711.670
204.003	651.911	722.646
204.003	651.911	722.908
204.006	646.812	711.655
204.006	646.812	716.608
204.006	646.812	716.657
204.006	646.812	722.699
204.007	646.811	711.655
204.007	646.811	716.608
204.007	646.811	716.655
204.007	646.811	716.657
204.007	646.811	722.699
204.008	646.811	716.657
204.008	646.811	722.640
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.041	271.950	711.656
204.041	271.950	716.607
204.041	271.950	716.635

204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	711.656
204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607
204.045	271.910	722.695
204.046	271.952	711.656
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	722.618
204.047	271.860	722.997
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.052	272.921	711.656
204.052	272.921	716.636
204.052	272.921	722.998
204.054	272.947	711.654
204.054	272.947	716.671
204.054	272.947	722.999
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204.056	272.961	722.906
204.057	276.957	722.906
204.065	272.982	722.906
204.080	276.957	722.960
204.081	272.948	722.964
204.082	651.912	722.965
204.085	272.911	722.963
204.087	272.971	722.960
204.088	276.957	722.960
204.089	642.961	722.962

204.092	642.832	722.962
204.200	651.913	711.653
204.200	651.913	716.656
204.200	651.913	722.694
204.200	651.913	722.996
204.201	651.913	711.653
204.201	651.913	716.656
204.201	651.913	722.694
204.201	651.913	722.996
204.202	651.911	711.653
204.202	651.911	716.656
204.202	651.911	722.646
204.202	651.911	722.908
204.203	651.911	711.670
204.203	651.911	722.646
204.203	651.911	722.908
204.207	646.811	711.655
204.207	646.811	716.608
204.207	646.811	716.655
204.207	646.811	716.657
204.207	646.811	722.699
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204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
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204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
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204.245	271.910	716.607
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204.246	271.952	711.656
204.246	271.952	716.607
204.246	271.952	716.635
204.246	271.952	722.695
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204.254	272.947	711.654
204.254	272.947	716.671
204.254	272.947	722.999
204.256	272.961	722.906
204.257	276.957	722.906
204.282	651.912	722.965
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204.302	651.911	711.653
204.302	651.911	716.656
204.302	651.911	722.646
204.302	651.911	722.908
204.303	651.911	711.670
204.303	651.911	722.646
204.303	651.911	722.908
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204.349	271.820	716.607
204.349	271.820	722.997
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204.902	651.916	716.658
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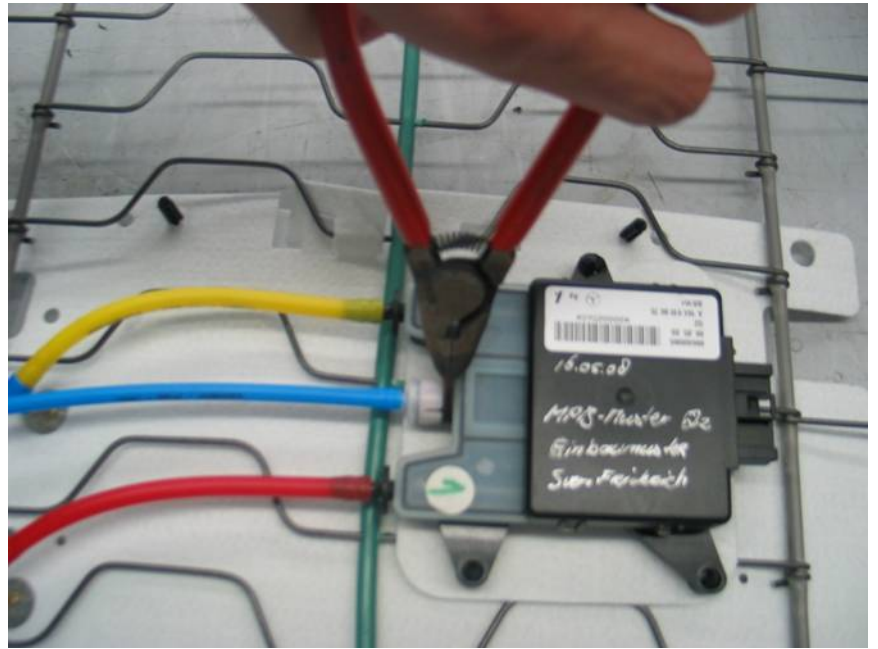
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212.003	651.924	722.646
212.003	651.924	722.908
212.003	651.924	725.011
212.005	651.925	711.653
212.005	651.925	716.656
212.005	651.925	722.694
212.005	651.925	722.996
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212.024	642.850	725.011
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212.048	271.860	716.612
212.048	271.860	722.696
212.048	271.860	722.997
212.054	272.952	711.654
212.054	272.952	722.999

212.056	272.980	722.906
212.057	272.983	722.906
212.072	273.971	722.904
212.077	156.985	722.930
212.087	272.977	722.960
212.089	642.856	722.962
212.090	273.970	722.961
212.202	651.924	711.653
212.202	651.924	716.656
212.202	651.924	722.646
212.202	651.924	722.908
212.202	651.924	725.011
212.203	651.924	711.670
212.203	651.924	722.646
212.203	651.924	722.908
212.203	651.924	725.011
212.205	651.925	711.653
212.205	651.925	716.656
212.205	651.925	722.694
212.205	651.925	722.996
212.205	651.925	725.011
212.225	642.850	711.670
212.225	642.850	722.902
212.225	642.850	725.011
212.247	271.860	722.618
212.247	271.860	722.997
212.248	271.860	711.655
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997
212.254	272.952	711.654
212.254	272.952	722.999
212.256	272.980	722.906
212.257	272.983	722.906
212.272	273.971	722.904
212.287	272.977	722.960
212.289	642.856	722.962
218.303	651.924	722.908
218.303	651.924	725.011
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218.323	642.853	725.011

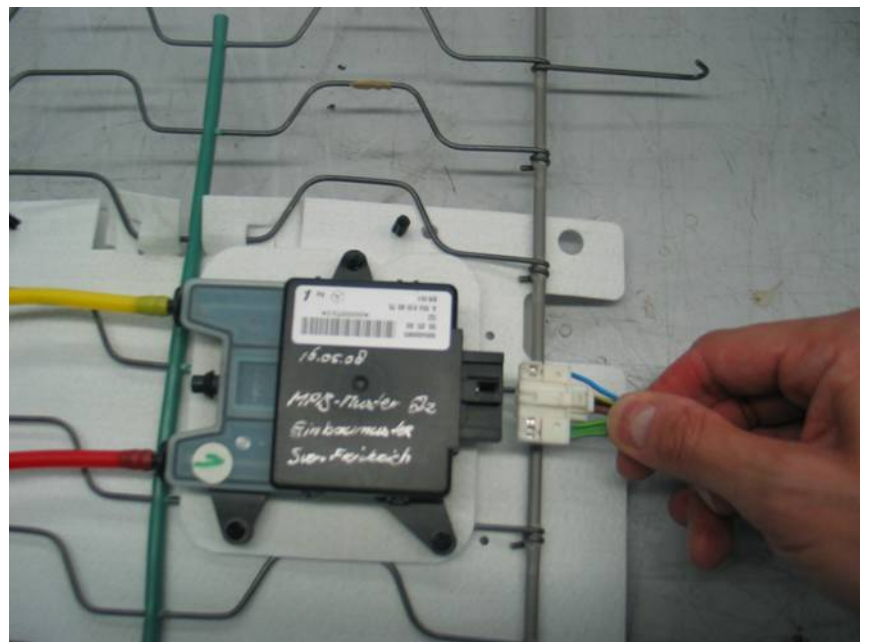
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218.373	278.922	725.011
218.374	157.981	722.931
218.391	278.922	722.967
218.391	278.922	725.041
218.393	642.854	722.966
218.393	642.858	722.966
251.020	642.950	722.902
251.022	642.950	722.902
251.026	642.950	722.902
251.054	272.945	722.999
251.056	272.967	722.906
251.065	272.967	722.906
251.072	273.963	722.904
251.075	113.971	722.901
251.077	156.980	722.907
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251.124	642.870	722.902
251.125	642.870	722.902
251.126	642.950	722.902
251.154	272.945	722.999
251.156	272.967	722.906
251.165	272.967	722.906
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Attachments

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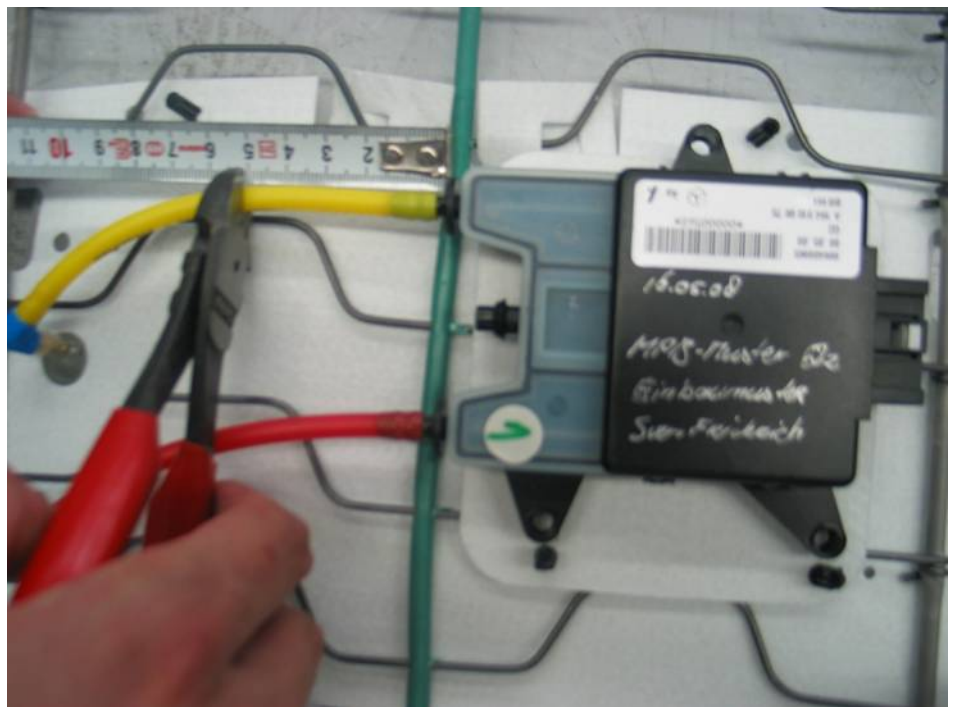
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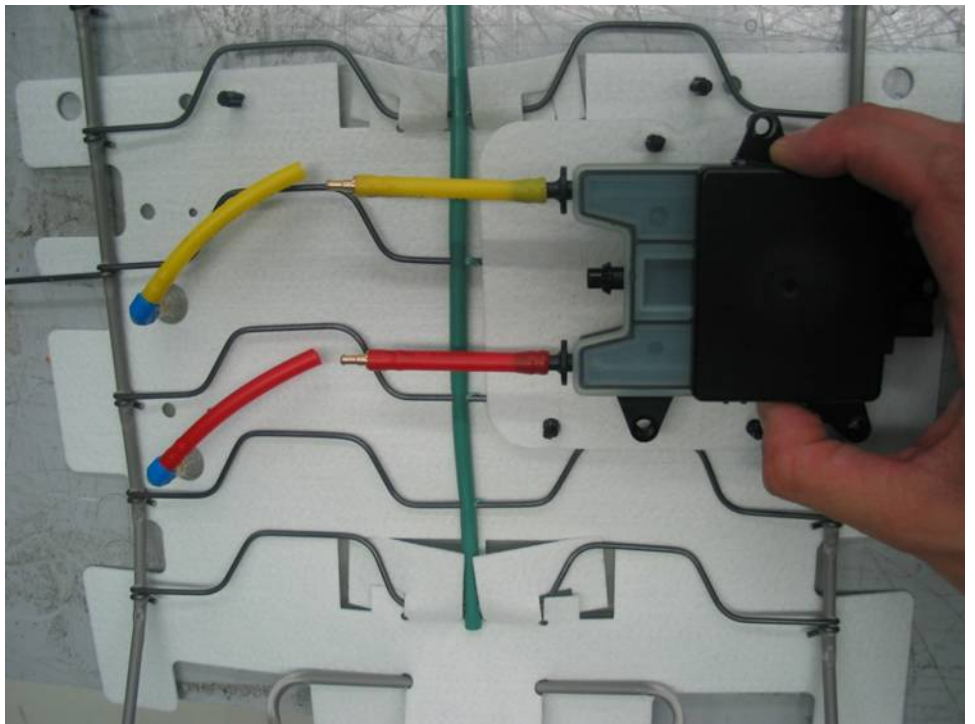
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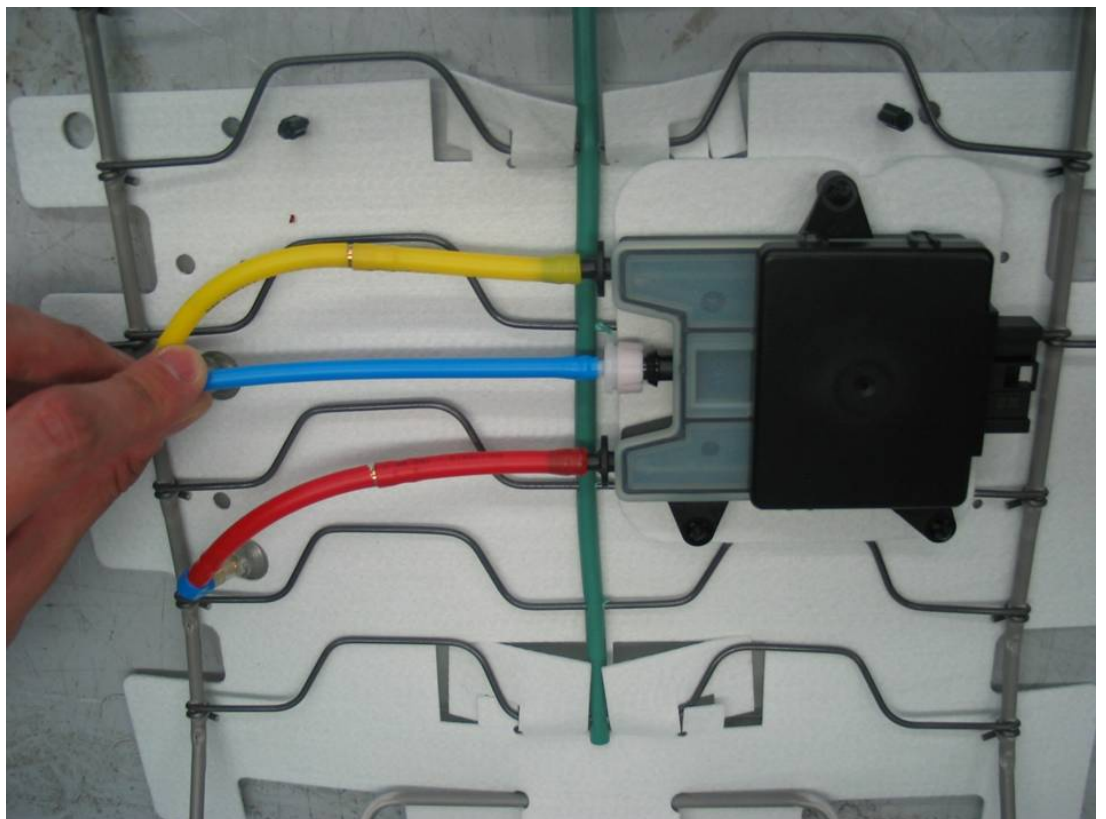
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IMG_2159.JPG:



IMG_2160.JPG:



IMG_2158.JPG:



IMG_2161.JPG:

