

Contents

00	Technical data	1
1	Safety precautions	1
1.1	Safety precautions when working on vehicles with start/stop system	1
1.2	Safety precautions when using testers and measuring instruments during a road test	1
2	Repair notes	2
2.1	Contact corrosion	2
2.2	Routing and securing wiring	2
93	Electric drive systems	3
1	General warning instructions for work on the high-voltage system	3
1.1	General warning instructions for work on the high-voltage system	3
1.2	Warning labels	7
2	Overview of fitting locations - high-voltage components	9
3	Description of high-voltage technology	11
3.1	Maintenance connector for high-voltage system -TW-	11
3.2	Electrical air conditioner compressor	11
3.3	Electrical brake servo vacuum pump	11
4	High-voltage battery unit	13
4.1	General description - high-voltage battery unit	13
4.2	Exploded view - high-voltage battery	13
4.3	Removing and installing high-voltage battery	15
4.4	Charging high-voltage battery	23
5	Power and control electronics for electric drive	25
5.1	General description - power and control electronics for electric drive	25
5.2	Overview of fitting locations - power and control electronics for electric drive	25
5.3	Removing and installing power and control electronics for electric drive	27
6	Electric drive motor	36
6.1	General description - electric drive motor	36
6.2	Exploded view - electric drive motor	36
6.3	Removing and installing electric drive motor	38
6.4	Checking hub of electric drive motor	47
6.5	Renewing oil seal for electric drive motor	47
6.6	Basic setting for electric drive motor	48
7	High-voltage wires	49
7.1	General description - high-voltage wires	49
7.2	Overview of fitting locations - high-voltage wires	50
7.3	Identification of high-voltage wiring	50
7.4	Removing and installing high-voltage wiring harness for high-voltage battery	52
7.5	Removing and installing high-voltage wiring harness for drive motor	59
7.6	Removing and installing high-voltage wire for electrical air conditioner compressor	66
8	Cooling system for high-voltage components	72
9	De-energising high-voltage system	73
10	Re-energising high-voltage system	74
11	Potential equalisation lines	75