



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Safety and repair instructions</b>	<b>1</b>
1.1 Safety information	1
1.2 Repair instructions	1
<b>2 Electrical components</b>	<b>2</b>
2.1 Access to diagnoses	2
<b>3 Identification</b>	<b>4</b>
3.1 Gearbox identification	4
<b>4 Technical data</b>	<b>5</b>
4.1 Capacities	5
<b>30 - Clutch</b>	<b>6</b>
<b>1 Safety and repair instructions</b>	<b>6</b>
1.1 Safety information	6
1.2 Repair instructions	6
<b>2 Clutch</b>	<b>7</b>
2.1 Assembly overview - dual clutch	7
2.2 Removing and installing clutch end cover	7
2.3 Removing dual clutch	10
2.4 Installing dual clutch	12
<b>34 - Controls, housing</b>	<b>21</b>
<b>1 Safety and repair instructions</b>	<b>21</b>
1.1 Safety information	21
1.2 Repair instructions	21
<b>2 Mechatronic unit</b>	<b>22</b>
2.1 Assembly overview – mechatronic unit	22
2.2 Removing and installing oil pan	23
2.3 Removing and installing mechatronic unit	24
<b>3 Selector mechanism</b>	<b>28</b>
3.1 Assembly overview – selector mechanism	28
3.2 Manual release from P position	28
3.3 Removing and installing selector mechanism	30
3.4 Checking selector mechanism	35
3.5 Checking and adjusting selector lever cable	39
3.6 Renewing selector shaft seal	41
<b>4 Removing and installing gearbox</b>	<b>43</b>
4.1 Specified torques for gearbox	43
4.2 Removing gearbox	43
4.3 Installing gearbox	43
<b>5 Assembly mountings</b>	<b>46</b>
5.1 Assembly overview - assembly mountings	46
<b>6 Gearbox transport</b>	<b>47</b>
6.1 Transporting gearbox	47
<b>7 Securing to engine and gearbox support</b>	<b>48</b>
7.1 Secure gearbox on engine and gearbox support	48
<b>8 Gear oil circuit</b>	<b>49</b>
8.1 Assembly overview – gear oil circuit	49
8.2 Removing and installing gear oil cooler	49
8.3 Removing and installing gear oil filter	52
8.4 Removing and installing motor for auxiliary hydraulic pump 1 for gearbox oil [V475]	53



<b>9</b>	<b>Gear oil</b> .....	<b>56</b>
9.1	Assembly overview – oil drain and inspection plugs .....	56
9.2	Checking gear oil level .....	56
9.3	Draining and filling gear oil .....	59
<b>35</b>	<b>- Gears, shafts</b> .....	<b>62</b>
<b>1</b>	<b>Safety and repair instructions</b> .....	<b>62</b>
1.1	Safety information .....	62
1.2	Repair instructions .....	62
<b>2</b>	<b>Dismantling and assembling gears and shafts</b> .....	<b>63</b>
2.1	Currently, there are no approved repairs for gears and shafts. In the event of damage, renew the entire component. ....	63
<b>39</b>	<b>- Final drive - differential</b> .....	<b>64</b>
<b>1</b>	<b>Safety and repair instructions</b> .....	<b>64</b>
1.1	Safety information .....	64
1.2	Repair instructions .....	64
<b>2</b>	<b>Seals</b> .....	<b>65</b>
2.1	Overview of fitting locations - oil seals .....	65
2.2	Renewing left seal .....	65
2.3	Renewing right seal .....	67