



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Identification</b>	<b>1</b>
1.1 Gearbox identification	1
<b>2 Repair notes</b>	<b>2</b>
2.1 General repair instructions	2
<b>3 Technical data</b>	<b>5</b>
3.1 Allocation gearbox - engine	5
3.2 Calculation of gear ratios	5
<b>4 Electrical components</b>	<b>6</b>
<b>30 - Clutch</b>	<b>7</b>
<b>1 Clutch operation</b>	<b>7</b>
1.1 Assembly overview - clutch release mechanism	7
1.2 Repairing clutch release mechanism	9
<b>2 Clutch</b>	<b>11</b>
2.1 Checking ball-head pin for wear and renewing it	11
2.2 Assembly overview - clutch	12
2.3 Removing and installing clutch	13
<b>34 - Controls, housing</b>	<b>17</b>
<b>1 Selector mechanism</b>	<b>17</b>
1.1 Removing and installing gear actuator VX65	17
<b>2 Removing and installing gearbox</b>	<b>22</b>
<b>3 Transporting gearbox</b>	<b>23</b>
<b>4 Dismantling and assembling gearbox</b>	<b>25</b>
4.1 Schematic overview - gearbox	25
4.2 Assembly overview - gearbox	26
4.3 Assembly overview - clutch housing	27
4.4 Assembly overview - shafts, differential, selector mechanism	28
4.5 Renewing selector shaft sleeve	29
4.6 Dismantling and assembling gearbox	30
<b>5 Gearbox housing, clutch housing</b>	<b>36</b>
5.1 Assembly overview - gearbox housing and clutch housing	36
<b>6 Installing to engine and gearbox support</b>	<b>38</b>
<b>7 Gear oil</b>	<b>39</b>
<b>35 - Gears, shafts</b>	<b>40</b>
<b>1 Input shaft</b>	<b>40</b>
1.1 Assembly overview - input shaft	40
1.2 Dismantling and assembling input shaft	42
1.3 Adjusting input shaft	48
1.4 Renewing input shaft seal	53
<b>2 Output shaft</b>	<b>55</b>
2.1 Assembly overview - output shaft	55
2.2 Dismantling and assembling output shaft	58
2.3 Adjusting output shaft	67
<b>3 Reverse shaft</b>	<b>72</b>
3.1 Removing and installing reverse shaft	72
<b>39 - Final drive - differential</b>	<b>73</b>
<b>1 Oil seals</b>	<b>73</b>



<b>2</b>	<b>Differential</b> .....	<b>74</b>
2.1	Assembly overview - differential .....	74
2.2	Dismantling and assembling differential .....	75
2.3	Adjusting differential .....	81
<b>3</b>	<b>Adjustment overview</b> .....	<b>85</b>
<b>4</b>	<b>Gearbox control system</b> .....	<b>86</b>
4.1	Overview of fitting locations - gearbox control .....	86