

ISO/TR 7997:2025-10 (E)

Road vehicles - Control type and layout of transmission gear shifters and drive mode selectors

Contents

Page

Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	2
3 Terms and definitions.....	2
4 Transmission gear shifter: types, layouts, locations and feedback displays.....	6
4.1 General.....	6
4.2 Type of transmission gear shifters.....	6
4.2.1 Lever.....	7
4.2.2 Dial/rotary.....	8
4.2.3 Push button.....	9
4.2.4 Toggle switch.....	9
4.2.5 Steering wheel paddle.....	10
4.3 Layouts of the shifter.....	10
4.3.1 Alignment of layout.....	10
4.3.2 Separation of 'P'.....	12
4.3.3 Summary of the layouts of the shifter.....	13
4.4 Location of the shifter inside the vehicle.....	14
4.5 Feedback displays of drive function status.....	15
4.5.1 Feedback display around or on the shifter.....	16
4.5.2 Feedback display on the instrument cluster.....	18
5 Drive mode selector: types, layouts, locations and feedback displays.....	18
5.1 General.....	18
5.2 Type of drive mode selectors.....	19
5.2.1 Lever.....	19
5.2.2 Rotary/dial.....	19
5.2.3 Push button.....	21
5.2.4 Toggle switch.....	22
5.2.5 Touch screen.....	22
5.2.6 Rocker switch.....	22
5.2.7 Combination of controls.....	23
5.3 Layout of drive mode selectors.....	23
5.4 Location inside the vehicle.....	23
5.4.1 Centre console.....	23
5.4.2 Seat side.....	23
5.4.3 Steering wheel.....	23
5.4.4 Instrument panel.....	24
5.4.5 Instrument cluster.....	24
5.4.6 Head unit display.....	24
5.5 Feedback display of drive mode selector status.....	24
5.5.1 Status feedback displayed in the actuator.....	24
5.5.2 Feedback on head unit or instrument cluster display.....	25
5.6 Categories of drive modes.....	25
5.6.1 On-road modes.....	26
5.6.2 Off-road modes.....	26

Annex A (informative) Benchmarking of transmission gear shifters and drive mode selectors in various passenger cars..... 28

Annex B (informative) Benchmarking of transmission gear shifters and drive mode selectors in commercial vehicles..... 48

Bibliography..... 57