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Learning Report – CAN Test Plan Document



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# TRAFFIC SIGN RECOGNITION

## **Test Plan**

Table Test plan for High Level and Low Level Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T\_ID** | **Description** | **Precondition** | **Expected Input** | **Expected output** | **Actual output** |
| T01\_HLR\_01 | When the Ignition is ON, the vehicle should start | Idle | Start button is pressed | The vehicle functions turn on | As expected |
| T02\_HLR\_02 | When the gear trackbar is changed, it should be displayed in LCD | Ignition ON | Varying Gear Trackbar | Gear LCD display | As expected |
| T03\_ HLR\_03 | When the Accelerator trackbar is changed, it should be changed in Accelerator gauge | Ignition ON | Varying Accelerator Trackbar | Accelerator Gauge changes | As expected |
| T04\_ HLR\_04 | For the changes in Accelerator, the speedometer must change | Ignition ON | Varying Accelerator Trackbar | Speedometer varying from 0 km/hr to 220 km/hr | As expected |
| T05\_HLR\_05 | Brake level changes | Ignition ON | Varying brake trackbar | 5 levels of brake varying from 0 to 5 | As expected |
| T06\_HLR\_06 | When the speed changes, the speed changes accordingly | Ignition ON and Engine running | Varying Speed | Fuel should decrease slowly when the ignition is On. when vehicle is moving  Depending upon the speed fuel should decrease. | As expected |
| T07\_LLR\_01 | When Gear is 1, the speed range is 0 – 20 kmph | Ignition ON | Varying Accelerator Trackbar | Speed: 0 – 20 kmph | As expected |
| T08\_LLR\_02 | When Gear is 2, the speed range is 0 – 50 kmph | Ignition ON | Varying Accelerator Trackbar | Speed: 0 – 50 kmph | As expected |
| T09\_LLR\_03 | When Gear is 1, the speed range is 0 – 80 kmph | Ignition ON | Varying Accelerator Trackbar | Speed: 0 – 80 kmph | As expected |
| T10\_LLR\_04 | When Gear is 1, the speed range is 0 – 140 kmph | Ignition ON | Varying Accelerator Trackbar | Speed: 0 – 140 kmph | As expected |
| T11\_LLR\_05 | When Gear is 1, the speed range is 0 – 220 kmph | Ignition ON | Varying Accelerator Trackbar | Speed: 0 – 220 kmph | As expected |
| T12\_LLR\_06 | Depending upon the brake level speed should decrease gradually. | Ignition ON | Varying speed | the brake level speed should decrease gradually | As expected |
| T13\_LLR\_07 | When School Zone button is pressed whatever maybe the speed, speed should limit to 40Km/hr and gear 3 till 500 meters | Ignition ON and TSI Feature ON | School Zone Sign | Speed: 0 – 40 kmph for 2 km  Gear: 3 | As expected |
| T14\_LLR\_08 | When speed limit 50 button is pressed speed should limit to 50Km/hr and gear 3 till 2 km | Ignition ON and TSI Feature ON | Speed Limit 50 | Speed: 0 – 50 kmph for 2 km  Gear: 3 | As expected |
| T14\_LLR\_09 | When speed limit 100 button is pressed speed should limit to 100Km/hr and gear 4 till 1.5km | Ignition ON and TSI Feature ON | Speed Limit 100 | Speed: 0 – 100 kmph for 1.5 km  Gear: 4 | As expected |
| T14\_LLR\_10 | When Gravel button is pressed speed should limit to 10Km/hr and gear 1 till 500m | Ignition ON and TSI Feature ON | Gravel Sign | Speed: 0 – 10 kmph for 500m  Gear: 1 | As expected |
| T14\_LLR\_11 | When Narrow Bridge button is pressed speed should limit to 30Km/hr and gear 2 till 1km | Ignition ON and TSI Feature ON | Narrow Bridge Sign | Speed: 0 – 30 kmph for 1 km  Gear: 2 | As expected |
| T14\_LLR\_12 | When Turn left button is pressed left indicator should turn On and speed limit to 20Km/hr and gear 2 till 500 meters | Ignition ON and TSI Feature ON | Turn Left Sign | Speed: 0 – 20 kmph for 500 m  Gear: 2 | As expected |
| T14\_LLR\_13 | When turn right button is pressed right indicator should turn On and speed limit to 20Km/hr and gear 2 till 500 meters | Ignition ON and TSI Feature ON | Turn Right Sign | Speed: 0 – 20 kmph for 500 m  Gear: 2 | As expected |
| T14\_LLR\_14 | When animal crossing button is pressed speed limit should be limit to 10Km/hr and gear 2 till 1km | Ignition ON and TSI Feature ON | Animal Crossing Sign | Speed: 0 – 10 kmph for 1 km  Gear: 2 | As expected |
| T14\_LLR\_15 | When Traffic signal button is pressed speed should gradually decrease to 0Km/hr | Ignition ON and TSI Feature ON | Traffic Signal Sign | Speed: 0 kmph  Gear: 0 | As expected |
| T14\_LLR\_16 | When Fuel is in reserve and when filling station button is pressed vehicle should stop and fuel tank will be filled | Ignition ON and TSI Feature ON | Fuel Station Sign | Speed: 0 kmph  Gear: 3 | As expected |
| T14\_LLR\_17 | When T-junction button is pressed speed should gradually decrease to 0 km/hr | Ignition ON and TSI Feature ON | T-Junction Sign | Speed: 0 kmph  Gear: 0 | As expected |
| T14\_LLR\_18 | When Slippery road button is pressed speed should limit to 50km/hr and gear 3 | Ignition ON and TSI Feature ON | Slippery Road Sign | Speed: 0 – 50 kmph  Gear: 3 | As expected |
| T14\_LLR\_19 | When Road Hump button is pressed speed should limit to 10km/hr and gear 1 | Ignition ON and TSI Feature ON | Road Hump | Speed: 0 – 10 kmph  Gear: 1 | As expected |
| T14\_LLR\_20 | When Y-junction button is pressed speed should gradually decrease to 0km/hr | Ignition ON and TSI Feature ON | Y-Junction Sign | Speed: 0 kmph  Gear: 0 | As expected |