

Requirement ID	Type	Object Test	Status	Task ID	Review ID
C8_ID_01	Heading	Hardware Input (H)		1	
C8_ID_02	Definition	The starting of the cruise system begins here, when the hardware input along with the data is set by the user enter the cruise control mode.	Proposed	1	
C8_ID_03	Comments	Cruise mode is initialized here.	Proposed	1	
C8_ID_04		1. Fetch the hardware input (Push-Pull Switch) from the user for the initialization of the cruise control.	Proposed	1	
C8_ID_05	Requirements	2. The Hardware input data obtained from the user is stored in the EEPROM memory Byte 6 at bit 0 and bit 1.	Proposed	1	
C8_ID_06		3. Along with the Hardware input the speed data from the user is also obtained which is stored in the EEPROM memory byte 1 for further usage.	Proposed	1	
C9_ID_07	Heading	Cruise Status (CS)		2	
C9_ID_08	Definition	This Cruise status tells us whether the system is in cruise mode or in normal mode.	Proposed	2	
C9_ID_09	Comments	The System will be in normal mode until the Cruise is ON.	Proposed	2	
C9_ID_10		1. The Cruise status data at the EEPROM memory location Byte 4 is checked for the status of the system.	Proposed	2	
C9_ID_11	Requirements	2. Based on the data from the EEPROM memory location Byte 4 the indication lamp is turned ON or OFF. 3. The cruise status data from the EEPROM memory location Byte 4 is transmitted through the CAN bus for Dashboard ECU with the message ID 0x75.	Proposed Proposed	2 2	
C10_ID_12	Heading	Near Range Camera Sensor (NRCS)		3	
C10_ID_13	Definition	This is a sensor which give the information about any obstacles or disturbance in the path is identified and reported to the ECU.	Proposed	3	
C10_ID_14	Comments	Camera Sensor, Lidar or Radar sensor are used for this purposes.	Proposed	3	
C10_ID_15		1. The Message from the NRCS is obtained from the CAN Bus at high priority.	Proposed	3	
C10_ID_16	Requirements	2. The Message obtained from the NRCS is stored in the EEPROM memory location at Byte 6 in Bit 0.	Proposed	3	
C10_ID_17		3. If there is no road from the NRCS even after the hardware input then the NRCS status flag will be ON. After the input is obtained it goes to OFF state. 4. The NRCS data from the EEPROM memory location Byte 6 is transmitted through the CAN bus to the Dashboard ECU using the message ID 0x78.	Proposed Proposed	3 3	
C11_ID_18	Heading	Cruise Control		4	
C11_ID_19	Definition	The vehicle is set to a particular speed based as the actual input and then based on if the speed is maintained continuously until there is an interruption from the user.	Proposed	4	
C11_ID_20	Comments	User frequently during the long distance travel.	Proposed	4	
C11_ID_21		1. Fetching the Actual speed of the vehicle from the wheel speed sensor through the CAN bus.	Proposed	4	
C11_ID_22		2. The data obtained from the wheel speed sensor is stored in the EEPROM memory location Byte 0.	Proposed	4	
C11_ID_23	Requirements	3. Fetch the Reference speed data from the EEPROM memory Byte 1.	Proposed	4	
C11_ID_24		3. Comparing the Actual speed data and the Reference speed data	Proposed	4	
C11_ID_25		4. If the actual speed is Higher than the reference speed then send a message to the break ECU to reduce the speed.	Proposed	4	
C11_ID_26		5. If the actual speed is low than the reference speed then send a message to the Engine ECU to increase the acceleration.	Proposed	4	
C11_ID_27		6. The Data obtained after the comparison of Actual and reference speed is stored in the EEPROM memory/location Byte 2.	Proposed	4	