Automatic Driving System

CUSTOM 2.0 TAZIO - Hardware

GEAR MANIPULATOR

The gear manipulator is developed using an anthropomorphic robot equipped with gear shift grip tool. The robot is insertable on an adjustable support in x, y, z axes, integrated with the seat through knob latches and having the following characteristics:

PEDAL ACTUATORS

The pedal actuator is composed of an articulated pusher driven electrically and by a centering clamp of pedal gripping. Every single actuator has the following characteristics:

3+2 axes (3 of the arm + 2 of wrist) Max range of action 410 mm Max speed 2.1 m/s Positioning repeatability 0.02 mm Max charge on wrist 2.16 Nm

CONTROL BOX

La Control Box is able to:

Max stroke 200 mm Risolution 0.05 mm Max speed 400 mm/s Max pushing force 450 N Max clamp opening 65 mm

Communicate via CAM with NCM control units, NBC, NFL, MTA, DCTM

Load and run a complete simulation of road mission

Pilot the manipulator robot manual or selespeed and brake / clutch / throttle actuators

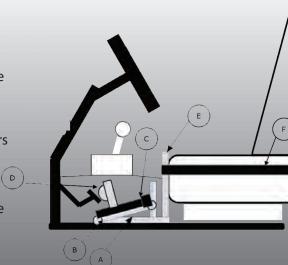
Manage the electronic throttle

Directly control the torque / revolutions setpoint on the actuation of drive rollers

Perform automatic refueling

Start the engine synchronization with the aid driver

Manage the internal alarms of water temperature, oil pressure .. faults engine control unit and external alarms.



TAZIO - Software

TAZIO Supervisor: For fixed installations, is provided a supervision software, installed on a PC, for the test management from the testing room (tracking of states and alarms, logging measurements, suspension test, return parameters.)

TAZIO Profile Editor: This editor allows advanced user to define a spreadsheet of test cycles and sub-cycles, warmup, recovery gear for endurance and emissions testing.

TAZIO Regulator Editor: This editor allows the expert user to fill out a specific parameter file of the vehicle model. The control parameters are the PID coefficients of the speed and timing regulator and adjustment of braking and declutching.

Silver **TAZIO** INSTRUMENTS Alliance Partner Main Par G D MANUALE CAMBIA AZZERA START STOP USCITA STATE Com Azzera Fuel Ena Ready 100 120 Gas 80 140 0,1 60 Km/h 160 0. 40 180 Ľ, 1 200 20 W. Lan : 220 RUOW 219 1.943 BAEN DSC:

CUSTOM 2.0



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