Ford SCL emulator, K line

for FORD C1 platform –

FOCUS mk2 EU (c307), C-MAX mk1 (c214), KUGA mk1 (c294) etc.
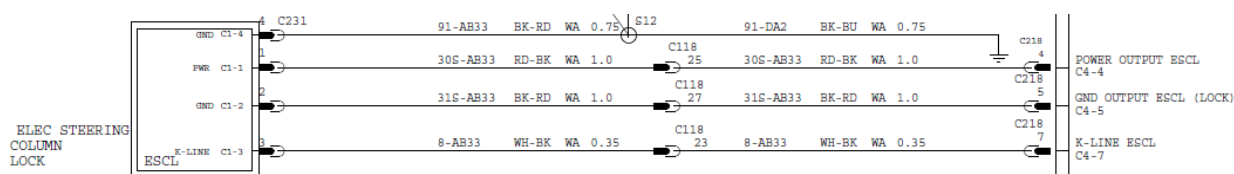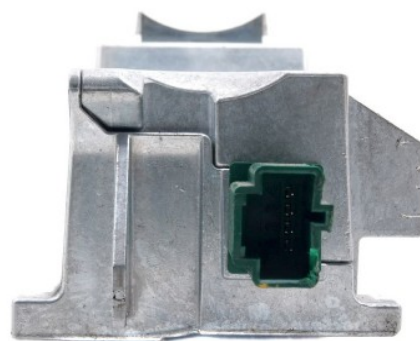
K-line version (green connector).

Description :

Device emulates Ford ESCL unit, compatible with Ford C1 platform cars (Focus mk2, C-MAX etc) starting from 2003 and up to 2012. Original SCL number looks like 8M51-3F880-Gx , connector has 4 pins, all 4 wires used. Connector colour is **GREEN** !!! If you have **BLACK** connector car highly likely is produced after 2012 and has LIN architecture which is NOT covered by this emulator.

Emulator is plug & play, no alignment necessary. Designed for original connector, can use original one desoldered from SCL or simple 2.54mm pitch pin header.

Installation on car:

Solder connector onto board and attach wiring loom. That's all to do. Note that original SCL is powered only when there is a request for status or command for open or close.

Pinout:

pin1: **+PWR** (switched), pin2: **GND** (switched), pin3: **K-line**, pin4: **GND** (chassis).

LED on emulator board:

- YELLOW or RED: SCL is in **LOCKED** state,
- GREEN: SCL is in **UNLOCKED** state.
- If SCL is powered on, one of LEDs must light.

Note that LOCK action is performed with delay: ignition is switched OFF, doors closed and locked, car folds mirrors (if there is such functionality), then LOCK action is executed. UNLOCK action is usually executed when car is unlocked or IGN switched on. By pushing START button SCL status is checked and verified again even if already open. All these actions must power on SCL, corresponding status LED must go on.

(c) RobinDAB '2020