Nissan Patrol Y61 CAN Flash Information: Gen 2 ECU

The UpRev Cipher cable uses two different channels of communication with the ECU:
1) ISO 14230 K Line (single wire)
2) CAN bus (two wires: high and low)
For fastest reflash times, both communication channels must be present, and a reflash only takes about 1 minute.

If CAN bus is **not** available, the ECU can still be flashed entirely over the K Line with no hardware modification necessary, but this reflash process is slower (about 15 -20 minutes instead of 1 minute).

The purpose of this document is to provide information to anyone who would like to enable CAN communication with their ECU. All modifications described below are entirely optional, and only serve to make the reflash process faster.

There is one possible issue with the Second Gen CAN bus on Patrol ECUs:

1. The wires are not connected from OBD II port to the ECU. From what we have seen, this is an issue on all Y61 Patrols.
this issue must be addressed to enable faster ECU reflashes.
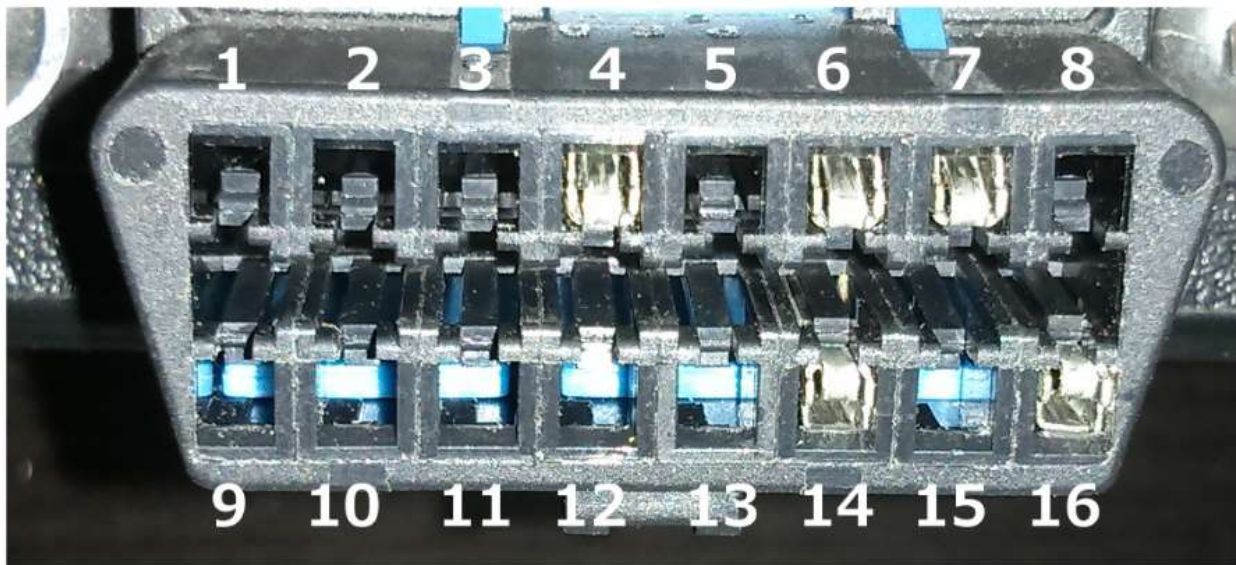
1) Wiring the OBD Port

Two pins must be added to the OBD II port, and wired to the appropriate pins on the ECU harness.

CAN High: ECU Harness Pin 98 > OBD II Pin 6
CAN Low: ECU Harness Pin 97 > OBD II Pin 14

See the figures below for pin locations.

OBD II Port

ECU Harness