



Holley EFI 1st Party CAN Communications Protocol

General

This document describes the Proprietary Holley CAN Communication structure, which can be used by third parties for display of ECU data.

Rate: 1 Mbit/sec

Format: Extended ID

Mask: 0xFFFFF800

CAN Packet Format

Holley uses the ID as bit-wise structure:

Bits 31:29 – CAN flags (normally filtered out and read as 0)

Bits 28 – command bit (=1)

Bits 27:25 – Target ID (= 111, broadcast)

Bits 24:14 – Target Serial (used as a channel # index)

Bits 13:11 – source ID (= 010, ECU)

Bits 10:0 – source serial (the lower 11 bits of the serial # of the device as printed on the back of the ECU)

NOTE: To decode data from any ECU you would mask out the lower 11 bits of the CANID (i.e., logical AND with 0xFFFFF800)

Example:

CAN ID = 0x1e02107b

Command = 1

Target ID = 7

Target Serial = 8

Source ID = 2

Source Serial = 123

CAN ID = 0x1e02107b					
Flags	Command Bit	Target ID	Target Serial (Channel index)	Source ID	Source Serial
000	1	111	00000001000	010	00001111011

Monitor Packets

Monitor data is continuously broadcast by the ECU. The monitor packets contain an index in their CAN id and values in the data field.

All monitor packets have a DLC of 8 bytes.

The 8 byte CAN data payload contains two values. Each set of 4 bytes contains the value and status information for that channel. The Value is sent as a Float and the status as a u32.

Published DBC's

Sniper V2 DBC.dbc – Used for all Sniper EFI Products using V2 Software/Firmware and later

HP Dominator & Terminator X DBC.dbc – Used for all HP & Dominator products using V4 Software/Firmware or Later & all Terminator X/Terminator X Max Products (V1-V3 Support)