



## 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)