

Hercules Scrolling Monitor Changes for J1939



Frame Acronyms appear on Hercules' monitors to assist in identifying a Frame ID. Changes to this feature have been made to J1939 protocol to provide more detail related to the PGN value.

- 1a. The Frame Acronym by default matches the Frame ID for all protocols ...
 - If no database is associated...or
 - If the Frame ID does not exist in the associated database.

Line No	TimeStamp (µs)	Channel	Frame Id	Header Details	Frame Acronym	Protocol
1	00:00:06:186:840	CH#B	18F00500	Priority = 6 : Parameter ID = 0780 : SourceAddress = 00	18F00500	CAN - EXT
2	00:00:07:599:300	CH#B	241		241	CAN - STD
3	00:00:09:452:500	CH#B	18F00501	Priority = 6 : Parameter ID = 0780 : SourceAddress = 01	18F00501	CAN - EXT
4	00:00:24:547:520	CH#B	18F00503	Priority = 6 : Parameter ID = 0780 : SourceAddress = 03	18F00503	CAN - EXT
5	00:00:25:979:830	CH#B	18F00504	Priority = 6 : Parameter ID = 0780 : SourceAddress = 04	18F00504	CAN - EXT

- 1b. The J1939 exception: The Frame Acronym will be as defined in the associated database for the related PGN value with the lowest Source ID if the exact Frame ID does not exist in the database.

Line No	TimeStamp (µs)	Channel	Frame Id	Header Details	Frame Acronym	Protocol
1	00:00:01:821:310	CH#B	241		241	CAN - STD
2	00:00:03:183:480	CH#B	18F00500	P/T = 6 : PGN = 00F005 : Src Addr = 00	ETC2_00F005	J1939
3	00:00:04:035:030	CH#B	18F00501	P/T = 6 : PGN = 00F005 : Src Addr = 01	ETC2_00F005	J1939
4	00:00:05:407:320	CH#B	18F00502	P/T = 6 : PGN = 00F005 : Src Addr = 02	ETC2_00F005	J1939
5	00:00:06:118:610	CH#B	18F00503	P/T = 6 : PGN = 00F005 : Src Addr = 03	ETC2_00F005	J1939
6	00:00:06:859:650	CH#B	18F00504	P/T = 6 : PGN = 00F005 : Src Addr = 04	ETC2_00F005	J1939

Note above that on the Scrolling Monitor the Frame ID column shows different Frame IDs' but each displays the same Frame Acronym. The Frame Acronym is obtained from the associated database for the same PGN number with the lowest Source ID. If the PGN value is not found in the database, the default listed above in 1a will appear.

In this example only one frame existed in the database for the related PGN. The Scrolling Monitor listed the Frame Acronym for that PGN with the lowest Source ID 00.

In previous versions of Hercules, if the Frame ID did not exist in the associated database it would default to the example #1a above providing little assistance in identifying the Frame ID. The change provides more detail related to the PGN number in cases where the Frame ID does not exist in the database.



- 2. The Frame Acronym will be as defined in a database...
If the Frame ID exists in the associated database.

Scrolling Monitor - Configuration = J1939.her

Line No	TimeStamp (µs)	Channel	Frame Id	Header Details	Frame Acronym	Protocol
1	00:00:18:419:730	CH#B	18F00500	P/T = 6 : PGN = 00F005 : Src Addr = 00	ETC2_00F005	J1939

Edit Frame - [DB = C:\..\j1939.mdb]

Frame ID (in Hex)

ID - Field

Protocol

Frame Name

Acronym

If transmit