



BIG DRIVE Injector Driver System Installation instructions

Overview:

The BIG DRIVE Injector Driver System was developed to interface with the GEN3 PRO SEFI System to improve the performance of today's low impedance, high flowing injectors. Each BIG DRIVE Injector Driver System can control 8 injectors. Therefore, (2) BIG DRIVE Injector Driver Systems are required for 16 injector applications. The BIG DRIVE Injector Driver Systems have been configured to work for specific injector types as detailed below. Therefore, it is important to use the correct BIG DRIVE Injector Driver System with the correct injector type to insure the best performance.

BIG DRIVE Injector Driver System P/N

Compatible Injector Type

BS3-007-041-P

Low impedance OEM injector (Bosch, Siemens, Delphi), -P = Primary set of 8-Injectors

BS3-007-041-S

Low impedance OEM Style (Bosch, Siemens, Delphi), -S = Secondary set of 8-Injectors

BS3-007-082-P

Low impedance ATOMIZER injector, -P = Primary set of 8-Injectors

BS3-007-082-S

Low impedance ATOMIZER injector, -S = Secondary set of 8-Injectors

BS3-007-082-P4

Low impedance PTE injector, -P = Primary set of 8-Injectors

BS3-007-082-S4

Low impedance PTE injector, -S = Secondary set of 8-Injectors

Mounting:

The BIG DRIVE Injector Module(s) should be mounted on the engine compartment side of the firewall in close proximity to the BS3 Main Wire Harness 10-way Injector Connector and BS3 Injector Harness 10-way Connector connection.

BS3 recommends using (2) rubber shock mounts to mount the BIG DRIVE Injector Module(s). The rubber shock mounts should be used between the BIG DRIVE Injector Module(s) mounting tabs and the mounting surface. Be sure to use a tall enough rubber shock mount to insure the mounting pressure is distributed through the rubber shock mounts rather than the BIG DRIVE Injector Module(s) aluminum heat sink. Make sure the BIG DRIVE Injector Module(s) aluminum heat sink does not contact the mounting surface.

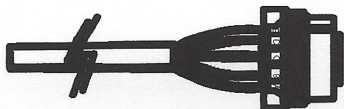
Connection:

Once the BIG DRIVE Injector Module(s) is/are mounted, the BIG DRIVE Injector Driver Main Wire Harness(es) can be routed and connected. Below, is a summary of the BIG DRIVE Injector Driver Main Wire Harness connectors and connection overview:

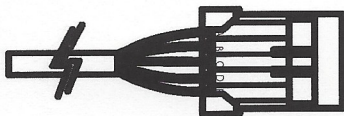
- **30-way Connector** - The BIG DRIVE Wire Harness' 30-way connector will have a **BD Primary** or **BD Secondary** ID label on it. This is to help identify what set of injectors will be connected to what BIG DRIVE Injector Module. If using one BIG DRIVE INJECTOR Driver module, be sure to connect the BIG DRIVE Wire Harness' 30-way connector, with the **BD Primary** label, to the BIG DRIVE Injector Module's 30-way connector that also has the **BD Primary** label for the primary set of injectors. If using two BIG DRIVE INJECTOR Driver modules, be sure to connect the BIG DRIVE Wire Harness' 30-way connector, with the **BD Secondary** label, to the BIG DRIVE Injector Module's 30-way connector that also has the **BD Secondary** label for the secondary set of injectors.
- **10-way Female Connector (INJECTOR INPUT)** - The BIG DRIVE Wire Harness' 10-way Female connector will have a **INJECTOR INPUT** ID label adjacent to it. Before starting the BIG DRIVE Injector Driver System harness connection be sure to disconnect the GEN3 PRO SEFI system's 10-way injector connection between the GEN3 PRO SEFI system's Main Wire Harness 10-way male injector connector and the GEN3 PRO SEFI system's Injector Wire Harness' 10-way female connector. After the GEN3 PRO SEFI system's 10-way injector connection has been disconnected, the BIG DRIVE Wire Harness' 10-way Female connector (**INJECTOR INPUT**) can be connected to the GEN3 PRO SEFI system's Main Wire Harness 10-way male injector connector. **NOTE:** If using two BIG DRIVE Injector Driver systems, for 16 injector applications, make sure the 10-way connector connections are connected to the correct set of primary and secondary set of 8 injectors.
- **10-way Male Connector (INJECTOR OUTPUT)** - The BIG DRIVE Wire Harness' 10-way Male connector will have a **INJECTOR OUTPUT** ID label adjacent to it. Before starting the BIG DRIVE Injector Driver System harness connection be sure to disconnect the GEN3 PRO SEFI system's 10-way injector connection between the GEN3 PRO SEFI system's Main Wire Harness 10-way male injector connector and the GEN3 PRO SEFI system's Injector Wire Harness' 10-way female connector. After the GEN3 PRO SEFI system's 10-way injector connection has been disconnected, the BIG DRIVE Wire Harness' 10-way male connector (**INJECTOR OUTPUT**) can be connected to the GEN3 PRO SEFI system's Injector Wire Harness 10-way female injector connector. **NOTE:** If using two BIG DRIVE Injector Driver systems, for 16 injector applications, make sure the 10-way injector connector connections are connected to the correct set of primary and secondary set of 8 injectors.
- **3/8" Ring Terminal (BATTERY (+))** - The BIG DRIVE Wire Harness' 3/8" Ring Terminal lead will have a **Battery (+)** ID label adjacent to it. The 3/8" Ring Terminal lead needs to be connected to the Positive side of the battery at the same location as the GEN3 PRO SEFI System's positive side of battery connection. **NOTE:** If using two BIG DRIVE Injector Driver systems, for 16 injector applications, make sure both of 3/8" Ring Terminal leads are connected to the Positive side of the battery at the same location as the GEN3 PRO SEFI System's positive side of battery connection.

BIG DRIVE INJECTOR DRIVER SYSTEM CONFIGURATION

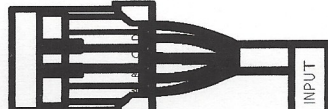
PRIMARY



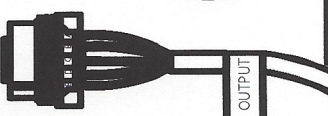
GEN3 PRO SEFI
INJECTOR HARNESS
10-WAY FEMALE
CONNECTOR
(PRIMARY)



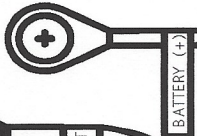
GEN3 PRO SEFI
INJECTOR HARNESS
10-WAY FEMALE
CONNECTOR
(PRIMARY)



BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 10-WAY
MALE CONNECTOR
(PRIMARY)



BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 3/8" RING
TERMINAL LEAD TO
BATTERY (+)
(PRIMARY)

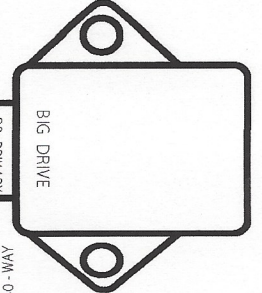


INJECTOR OUTPUT

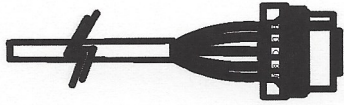
INJECTOR INPUT

BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 30-WAY
CONNECTOR
(PRIMARY)

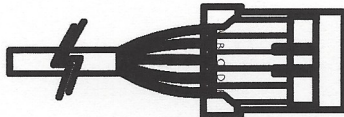
BIG DRIVE INJECTOR
DRIVER MODULE 30-WAY
CONNECTOR
(PRIMARY)



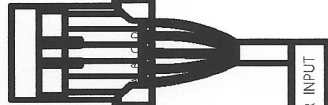
SECONDARY



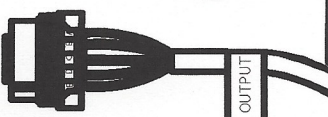
GEN3 PRO SEFI
INJECTOR HARNESS
10-WAY FEMALE
CONNECTOR
(SECONDARY)



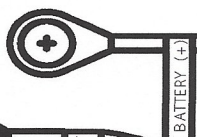
GEN3 PRO SEFI
INJECTOR HARNESS
10-WAY FEMALE
CONNECTOR
(SECONDARY)



BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 10-WAY
MALE CONNECTOR
(SECONDARY)



BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 3/8" RING
TERMINAL LEAD TO
BATTERY (+)
(SECONDARY)



INJECTOR OUTPUT

INJECTOR INPUT

BIG DRIVE INJECTOR
DRIVER MAIN WIRE
HARNESS 30-WAY
CONNECTOR
(SECONDARY)

BIG DRIVE INJECTOR
DRIVER MODULE 30-WAY
CONNECTOR
(SECONDARY)

