



BACK PRESSURE MONITOR

ECM or I/O Inputs

Device Operation and Installation

KIT # 194-747

The system is designed to monitor applications equipped with exhaust after-treatment devices (i.e. catalytic converters, diesel particulate filters and diesel oxidation catalyst) for excessive back pressure. This excess pressure, if not corrected, can cause catastrophic damage to the engine or after-treatment device.

The Kit No. 194-747 contains a module (P/N 030-208), along with all necessary installation hardware and wiring harness. The module (P/N 030-208) is a microprocessor based controller that utilizes an internal pressure transducer to monitor the back pressure. The exhaust system is taped between the engine and after-treatment. A combination of the stainless steel flex line and high temperature FEP tubing are used to connect to the module. The module should be mounted inlet port side down in a dry, protected environment. Firewall fittings are provided to assure the module can be housed appropriately.

Two pressure levels are reported to a warning level and a stop the engine level. There is a fifteen second delay built in to avoid false readings created by momentary spikes which occur in normal operation.

Once the low level is exceeded for more than fifteen seconds the blue wire gives a pulsing ground signal. If the high level is exceeded for more than fifteen seconds the blue wire latches to ground. These signals are designed to tie into existing ECM or I/O inputs. The module resets itself every time the system is turned off/on.

The two pressures can be factory preset and or field set using a computer serial output and Hewitt's program Kit No. 194-726. It is recommended that you consult your engine and after-treatment manufactures to determine the proper pressure settings for your application.

Custom programming and application specific installation kits are available upon request. For more information contact the sales department at Hewitt Industries.

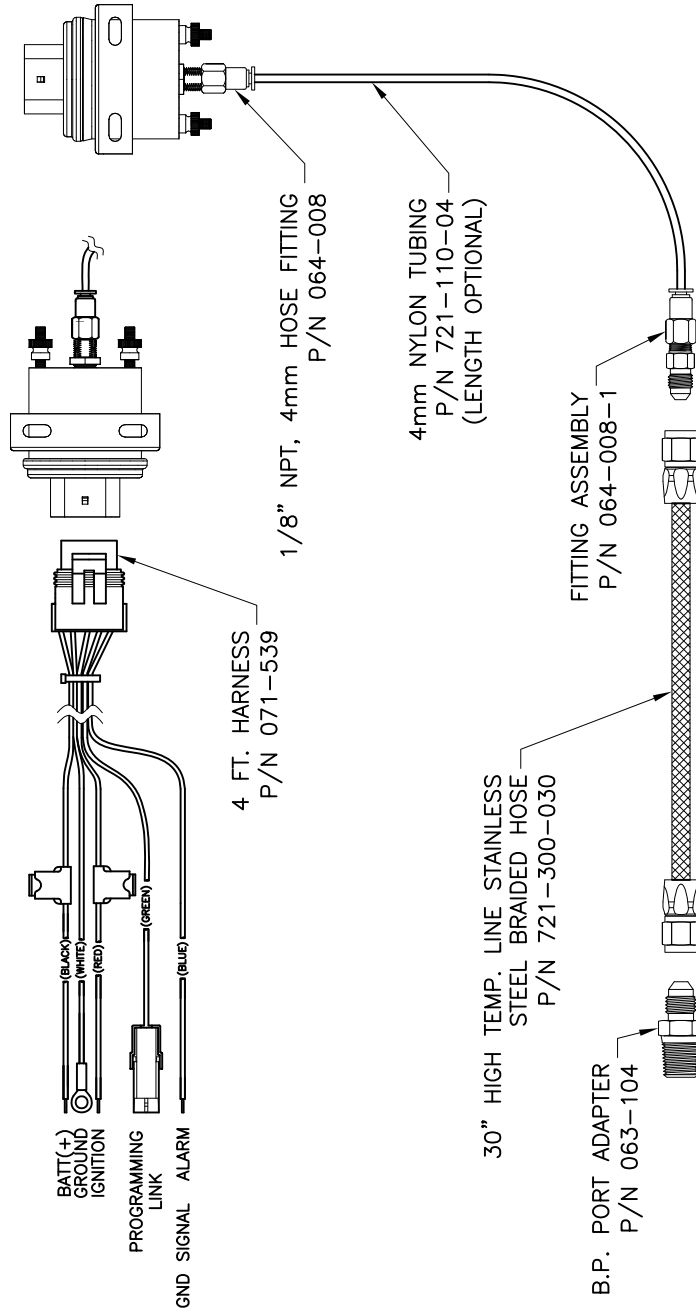
KIT No. 194-747

QTY	P/N	DESCRIPTION
1	030-208	REMOTE BP/TEMP. MONITOR
1	063-104	BACK PRESS. PORT ADAPTER
1	064-008-1	FITTING ASSEMBLY
1	071-539	WIRING HARNESS
1	721-110-04	4mm NYLON TUBING
1	721-300-030	HIGH TEMP. LINE STAIN. STEEL

NOTE: HARNESS AND TUBE LENGTHS TO BE DETERMINED BY CUSTOMER.



REMOTE BP/TEMP. MONITOR
P/N 030-208



OTE BP/TEMP. MONITOR
P/N 030-208

4 FT. HARNESS
P/N 071-539

1/8" NPT, 4mm HOSE FITTING
P/N 064-008

4mm NYLON TUBING
P/N 721-110-04
(LENGTH OPTIONAL)

30" HIGH TEMP. LINE STAINLESS
STEEL BRAIDED HOSE
P/N 721-300-030

FITTING ASSEMBLY
P/N 064-008-1

B.P. PORT ADAPTER
P/N 063-104

FEATURES:

1. MONITORS EXHAUST PRESSURE.
2. LOW-LIMIT SENSE LIGHTS "CHECK ENGINE", 3.6 PSI TYPICAL.
3. HIGH-LIMIT SENSE LIGHTS "STOP ENGINE" AND LATCHES LIGHT ON 5.1 PSI TYPICAL.
4. FACTORY-SET LOW AND HIGH PRESSURE AND TEMPERATURE LEVELS MAY BE CUSTOMER DEFINED.

REV.		DESCRIPTION		ED#		DATE		BY		TOLERANCES	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES, METRIC EQUIVALENTS ARE IN [BRACKETS]: .X = .030 [0.76] .XX = .010 [0.25] .XXX = .005 [0.13] FRACTIONS = 1/32 ANGLES = ±1'											
SCALE: NONE										DATE: 11/04/08	
SHEET 1 OF 1										DATE: 11/04/08	

HI HEWITT INDUSTRIES OF LOS ANGELES

TITLE: BACK PRESSURE MONITORING SYSTEM

DRAWN BY: E.M. P/N 194-747

APP. BY: J.H.

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