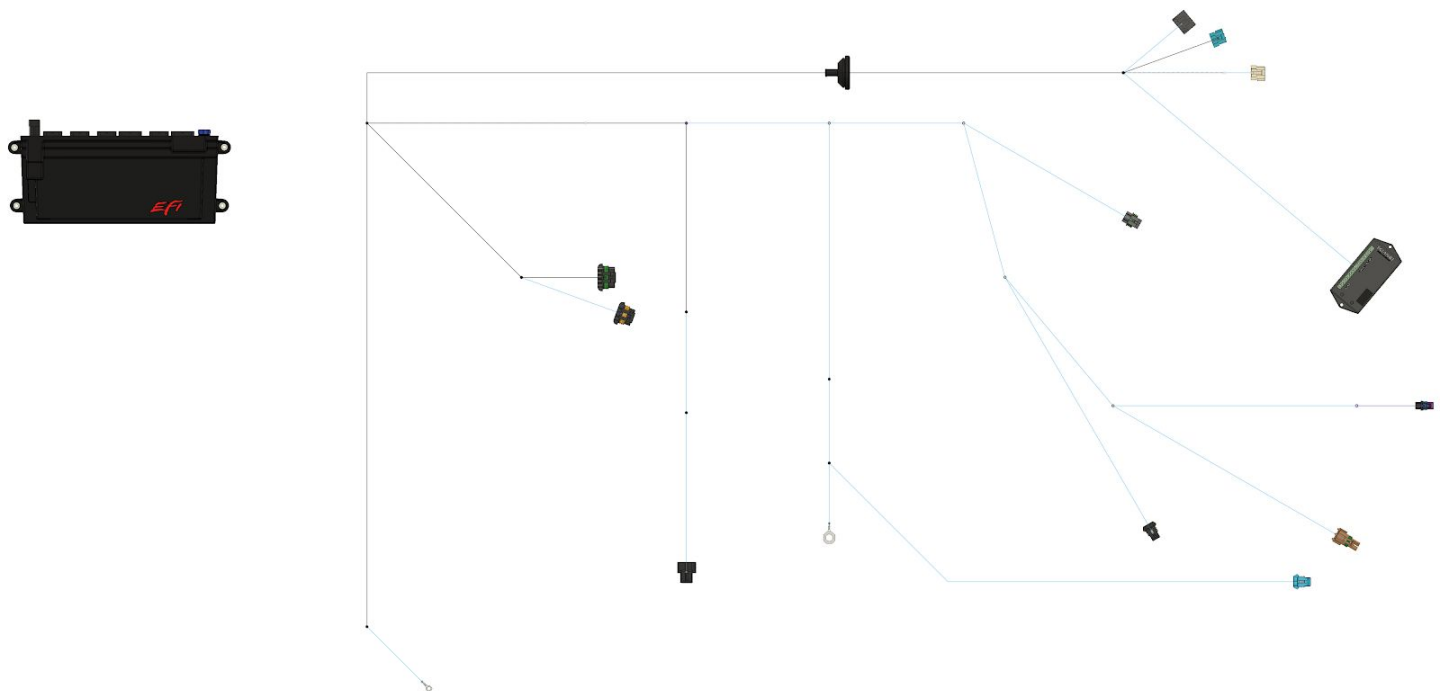




Bare Bones Engine Wire Harness Installation Guide

for LT1 Camaro/Firebird w/ Holley EFI ECU

P/N 100-02351



PLEASE READ THIS GUIDE IN ITS ENTIRETY BEFORE INSTALLATION

IMPORTANT! You have chosen to remove the original engine control module, that GM designed to integrate with auxiliary systems of your vehicle, to install a stand-alone Holley ECU that has limited integration capabilities. You are expected to take ownership and responsibility of Holley ECU integration efforts by working with Holley documentation, GM service manual documentation, and technical support from the vendors of the equipment installed in your vehicle.

CONGRATULATIONS! (AND THANK YOU)

You've chosen a quality wire harness assembly manufactured in the USA by EFI Connection, LLC. The development of this engine harness is the result of many years of experience with the 1993-1997 Camaro and Firebird. Our modern harness manufacturing equipment and production tooling has allowed us to meet or exceed the quality of the original GM wire harness you are removing from your vehicle.

Ultrasonic Solderless Splices

This harness features ultrasonically welded splices. Each splice is defined within our Telsonic TS3 software and the welded nugget is automatically measured and recorded to ensure quality control. Finished splices are then covered with an adhesive-lined heat shrink tube to protect the splice within the harness loom.



Production Crimp Tools

Each terminal within this harness assembly has been crimped by a semi-automatic applicator or Rennsteig hand tool using terminal-specific dies that result in crimp quality that meets manufacturer-defined crimp height and width specifications. As an authorized Rennsteig Tools reseller, we have years of experience and expertise when it comes to the highest quality construction.



Supported Functions

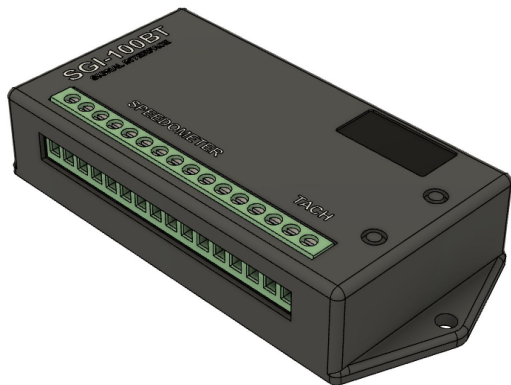
This harness has been designed to universally fit 1993-1997 Camaro/Firebird with LT1 engine. The harness lengths, routing, and vehicle-specific connectors make this harness an excellent solution for installing a Holley EFI ECU. This harness does not contain fuel injection system functions. The purpose of this harness is to connect the following engine and transmission functions to the instrument panel cluster and provide a connection to the starter for crank.

- Generator (Alternator)
- Oil Level Switch
- Oil Pressure Sending Unit
- Coolant Temperature Sending Unit
- Backup Lamp Switch (T56 Transmission Only)
- Vehicle Speed Sensor
- Starter (Crank)
- Dakota Digital SGI-5E Module

Dakota Digital SGI-100BT Module Integration (Dakota Digital SGI-100BT Module Sold Separately)

Holley's ECU may not be able to control your vehicle's speedometer and tachometer. For that reason, we've conveniently provided the necessary wires to install a Dakota Digital SGI-100BT speedometer/tachometer signal interface module. This module can be installed under the dash beyond the firewall grommet. This harness provides loose wires that follow the table below.

IMPORTANT! FOR ASSISTANCE WITH THIS MODULE, PLEASE CONTACT HOLLEY AND/OR DAKOTA DIGITAL



WIRE	OTHER END	FUNCTION
20 AWG PNK	C100 CAVITY A	SWITCHED 12V
20 AWG BLK	CYLINDER HEAD TERMINAL	GROUND
20 AWG PPL	VSS CAVITY A	VSS LOW
20 AWG YEL	VSS CAVITY B	VSS HI
20 AWG GRN/WHT	C220 CAVITY G	SPEEDOMETER
20 AWG BLU/WHT	LOOSE FOR ECU	TACH (SIGNAL)
18 AWG WHT	C230 CAVITY D	TACHOMETER

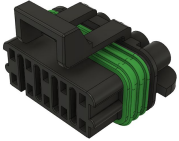
UNDERSTANDING THE CONNECTIONS WITHIN THIS HARNESS

EFI Connection does not offer a wiring diagram that represents this harness assembly. Refer to Holley LS1 Engine Main Harness (P/N 558-102) wiring diagrams for troubleshooting and integration purposes. Holley wiring diagrams are freely available through <http://www.holley.com>.

C100 ENGINE BAY HARNESS CONNECTION

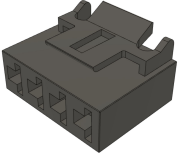
Connection in engine bay on top of passenger side strut tower for engine bay harness integration.

IMPORTANT! Because Holley inputs/outputs capabilities are different between HP/Dominator and Terminator X ECUs, Fan Relay Harness 100-05002 is required when using HP or Dominator ECU. Fan Relay Harness sold separately.

	CAVITY	WIRE	OTHER END	FUNCTION
	A	20 AWG PNK	DAKOTA DIGITAL SGI-5E	SWITCHED 12V FOR SGI-5E
	G	18 AWG RED/WHT	LOOSE (TO ECM P1A-10)	HOLLEY ECU IGNITION SIGNAL
	H	20 AWG GRY/RED	LOOSE (TO ECM P1B-11)	FANS HIGH SPEED CONTROL
	J	20 AWG GRY/YEL	LOOSE (TO ECM P1B-12)	FANS LOW SPEED CONTROL

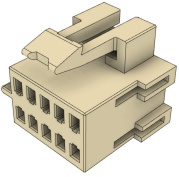
C210 INSTRUMENT PANEL HARNESS CONNECTION

Connection under dash for I/P harness integration.

	CAVITY	WIRE	OTHER END	FUNCTION
	A	10 AWG PPL	STARTER S TERMINAL	STARTER CRANK SIGNAL
	B	18 AWG BLK	CYLINDER HEAD RING TERMINAL	GROUND

C220 INSTRUMENT PANEL HARNESS CONNECTION

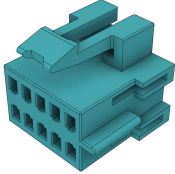
Connection under dash for I/P harness integration.

	CAVITY	WIRE	OTHER END	FUNCTION
	A	18 AWG RED	GENERATOR (ALTERNATOR)	TURN ON SIGNAL (CHARGE)
	B	20 AWG TAN	OIL PRESSURE CAVITY A	OIL PRESSURE SIGNAL
	C	20 AWG BRN	OIL LEVEL SWITCH CAVITY B	LOW OIL INDICATOR LAMP
	G	20 AWG GRN/WHT	DAKOTA DIGITAL SGI-100BT	SPEEDOMETER
	J	20 AWG GRN	LOOSE (TRIGGER TO HOLLEY 14 AWG GREEN FUEL PUMP)	FUEL PUMP RELAY CONTROL

	K	20 AWG GRN	COOLANT TEMP SENDER	COOLANT TEMP GAUGE
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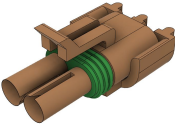
C230 INSTRUMENT PANEL HARNESS CONNECTION

Connection under dash for I/P harness integration.

	CAVITY	WIRE	OTHER END	FUNCTION
	D	18 AWG WHT	DAKOTA DIGITAL SGI-100BT	TACHOMETER (INSTRUMENTS)
	H	16 AWG BRN	B/U SWITCH CAVITY A	BACKUP LAMP 12V SUPPLY
	J	16 AWG LT GRN	B/U SWITCH CAVITY B	BACKUP LAMPS

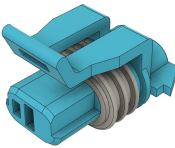
BACKUP LAMP SWITCH

Located on the passenger side of the GM T56 6-Speed manual transmission. Not used with other transmissions.

	CAVITY	WIRE	OTHER END	FUNCTION
	A	16 AWG BRN	C230 CAVITY H	BACKUP LAMP 12V SUPPLY
	B	16 AWG LT GRN	C230 CAVITY J	BACKUP LAMPS

COOLANT TEMPERATURE SENDING UNIT

Located in the driver side cylinder head. Provides a signal to the coolant temperature gauge in the instrument cluster.

	CAVITY	WIRE	OTHER END	FUNCTION
	A	20 AWG GRN	C220 CAVITY K	COOLANT TEMP GAUGE

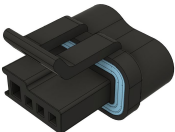
FIREWALL GROMMET

Located near ECU on the passenger side firewall. Route the interior harness segment and grommet through the firewall. Pull the harness back toward the engine bay to seat the grommet in the firewall.



GENERATOR (ALTERNATOR)

Located within the engine front accessories on the passenger side.

	CAVITY	WIRE	OTHER END	FUNCTION
	L	18 AWG RED	C220 CAVITY A	TURN ON SIGNAL (CHARGE)

