

MAXFLOW® FUEL PUMP BOOSTER

Wiring Instructions



UNIVERSAL FIT

P/N's: 5A002-030, 5A102-030 and 5A102-033



ENGINEERING, INC.

1650 Pacific Avenue, Channel Islands, CA 93033-9901 • Phone 805 247-0226
Fax: 805 247-0669 • www.vortechssuperchargers.com

FOREWORD

All information, illustrations and specifications contained herein are based on the latest product information available at the time of this publication. Changes to the manual may be made at any time without notice. Contact Vortech Engineering for any additional information regarding this kit and any of these modifications at (805) 247-0226 7:00am-3:30pm PST.



Take note of the following before proceeding:

- 1.** Proper installation of this accessory requires general automotive mechanic knowledge and experience. Please browse through each step of this instruction manual prior to beginning the installation to determine if you should refer the job to a professional installer/technician. Please contact your dealer or Vortech Engineering for possible installers in your area.
- 2. This product was designed for use on stock (un-modified, OEM) vehicles. The PCM (computer), engine, transmission, drive axle ratios and tire O.D. must be stock.** If the vehicle or engine has been modified in any way, check with Vortech prior to installation and use of this product.
- 3.** Use only premium grade fuel with a minimum of 91 octane (R+M/2).
- 4.** Always listen for any sign of detonation (knocking/pinging) and discontinue hard use (no boost) until the problem is resolved.
- 5.** Vortech is not responsible for any clutch, transmission, drive-line or engine damage.

Exclusions from Vortech warranty coverage considerations include, but not limited to:

- 1.** Neglect, abuse, lack of maintenance, abnormal operation or improper installation.
- 2.** Continued operation with an impaired vehicle or sub-system.
- 3.** The combined use of Vortech components with other modifications such as, but not limited to, exhaust headers, aftermarket camshafts, nitrous oxide, third party PCM programming or other such changes.

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VORTECH FUEL PUMP VOLTAGE BOOSTER

Universal Wiring Instructions

**Before beginning this installation,
please read through this entire instruction booklet**

The Vortech Fuel Pump Booster (FPB) upgrade was designed specifically for use on performance applications where there is a requirement to provide increased fuel pump performance above what the vehicles' existing fuel pump can provide. Typical applications would include vehicles equipped with forced induction, nitrous oxide etc. As with any power enhancing product, this unit is intended for use on healthy, well-maintained engines. Vortech Engineering is not responsible for engine or fuel component damage.

For best performance and continued durability, please take a note of the following key points:

1. Use only premium grade fuel 91 octane or higher (R+M/2).
2. Always listen for any sign of detonation (pinging) and discontinue hard use (no boost) until problem is resolved.

TOOL & SUPPLY REQUIREMENTS:

- General hand tools
- Heat Gun
- Soldering Iron/Gun
- Solder
- Electrical Tape
- Wire Cutters, Strippers and Crimpers
- Drill Motor
- Drill Bit
- Mounting hardware
- (optional- OEM fuel pump wiring schematic)

FUEL PUMP VOLTAGE BOOSTER UPGRADE

PARTS LISTS

IMPORTANT: Before beginning installation, verify that all parts are included in the kit. Report any shortages or damaged parts immediately.

5A102-030 - FPB ASSY, NON-PRG, UNIV.

PART NO.	DESCRIPTION	QTY
007128	INSTR, UNIV. FPVB UPGRADE	1
008601	BOX, CARDBOARD, PUMP BOOSTR	1
008602	INSERT, CARDBOARD, PUMP BOOSTR	1
5A002-030	VOLT BOOSTER, STD VORT	1
5W001-009	16-14GA MALE SLIDE INSULATED	2
5W001-010	16-14GA FEMALE SLIDE INSULATED	2
5W001-019	10-12 GA BUTT CONN INSULATED	2
5W001-040	12-10GA FEMALE SLIDE INSULATED	3
5W001-041	12-10GA MALE SLIDE INSULATED	3
5W001-043	12-10GA X 1/4" RING TERMINAL	2
7E010-048	#10 X 3/4 SHEET METAL PHILLIPS	4
8F101-200	RELAY WIRING ASSY	1

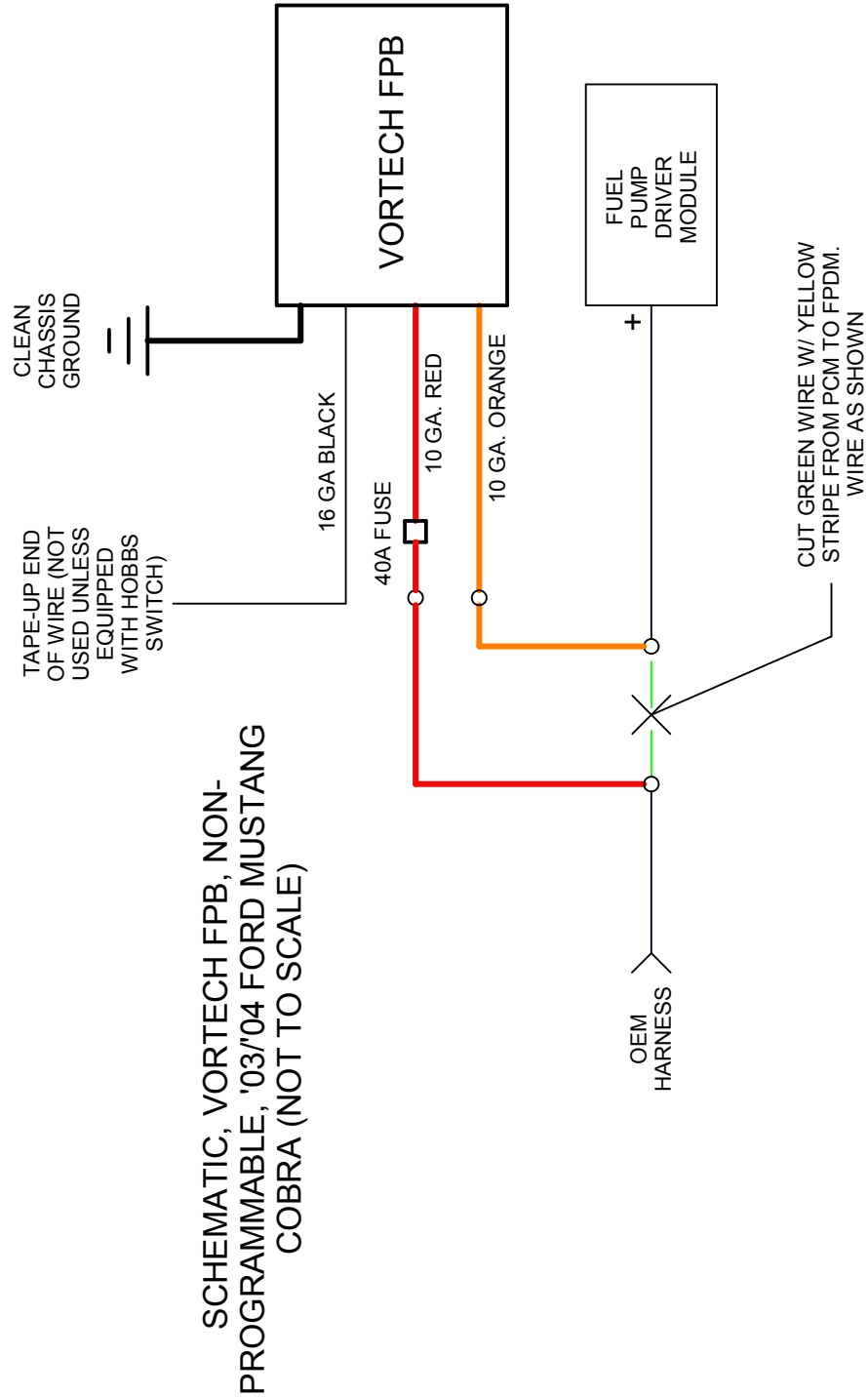
5A102-033 - FPB ASSY, NON-PRG, HOBBS, UNIV.

PART NO.	DESCRIPTION	QTY
007128	INSTR, UNIV. FPVB UPGRADE	1
008601	BOX, CARDBOARD, PUMP BOOSTR	1
008602	INSERT, CARDBOARD, PUMP BOOSTR	1
5A002-030	VOLT BOOSTER, STD VORT	1
5W001-012	18-22 GA BUTT CONN RED INSUL	1
5W001-019	10-12 GA BUTT CONN INSULATED	2
5W001-042	12-10GA X 3/16" RING TERMINAL	1
5W001-045	16-14 GA RING TERM .17" HOLE	3
5W016-030	16GA STRD WIRE, BLACK	18 FT
7E010-051	#10 X 1/2 HX FLG SHT MTL SCRW	6
7P125-105	1/8 NPT FEM TO 5/32 BARB	1
7P156-082	5/32 TEE	1
7U030-046	5/32" VACUUM LINE	0.5 FT
7U100-044	TIE WRAP, 4" NYLON	5
8D002-003	SWITCH, PRESSURE, HOBBS NORM CLSD	1

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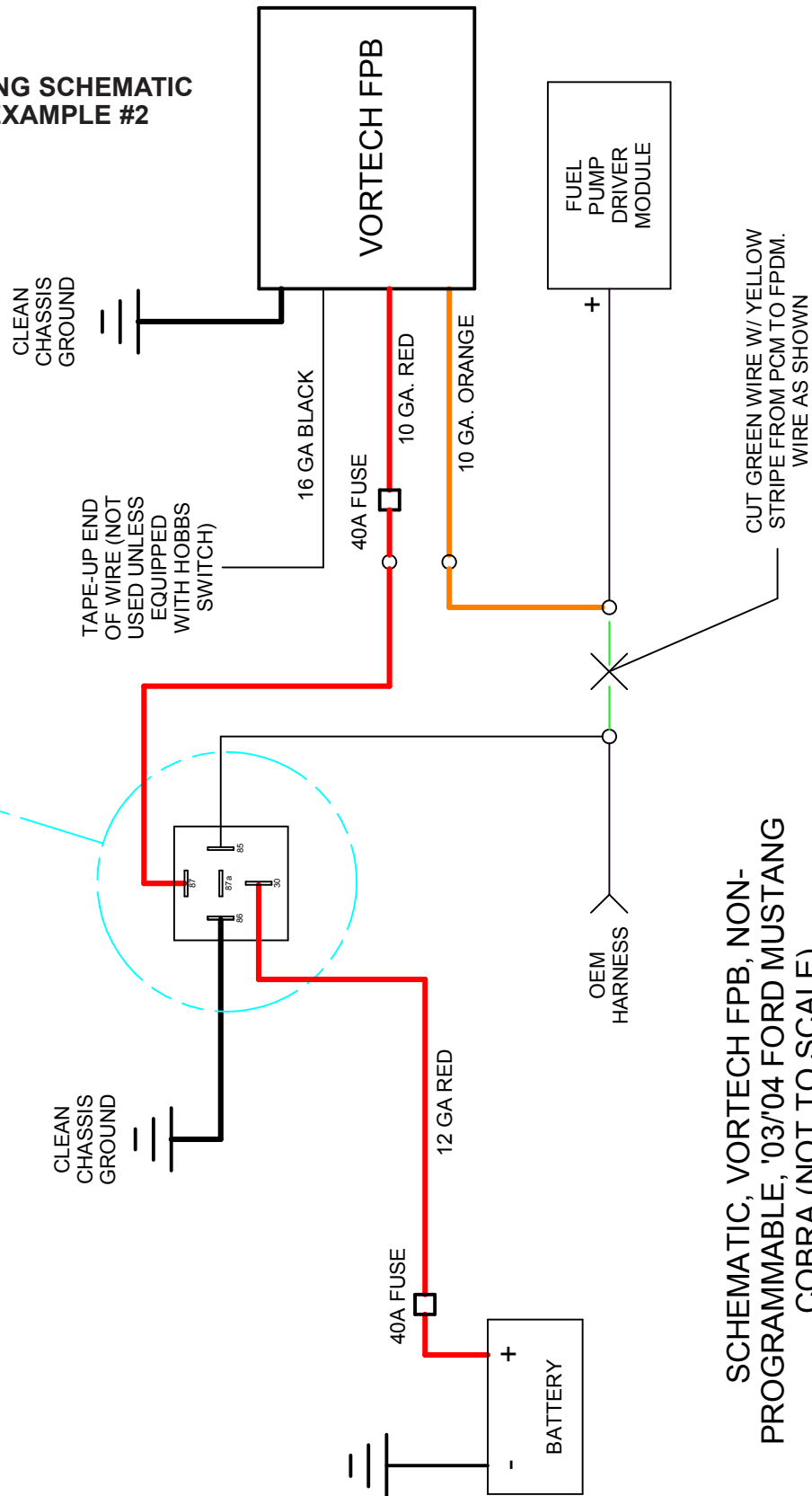
BASIC UNIVERSAL WIRING SCHEMATIC --
RECOMMENDED ONLY IF OEM VEHICLE PUMP
WIRING IS OF SUFFICIENT SIZE TO HANDLE UP TO
40 AMP LOAD

WIRING SCHEMATIC EXAMPLE #1



WIRING SCHEMATIC EXAMPLE #2

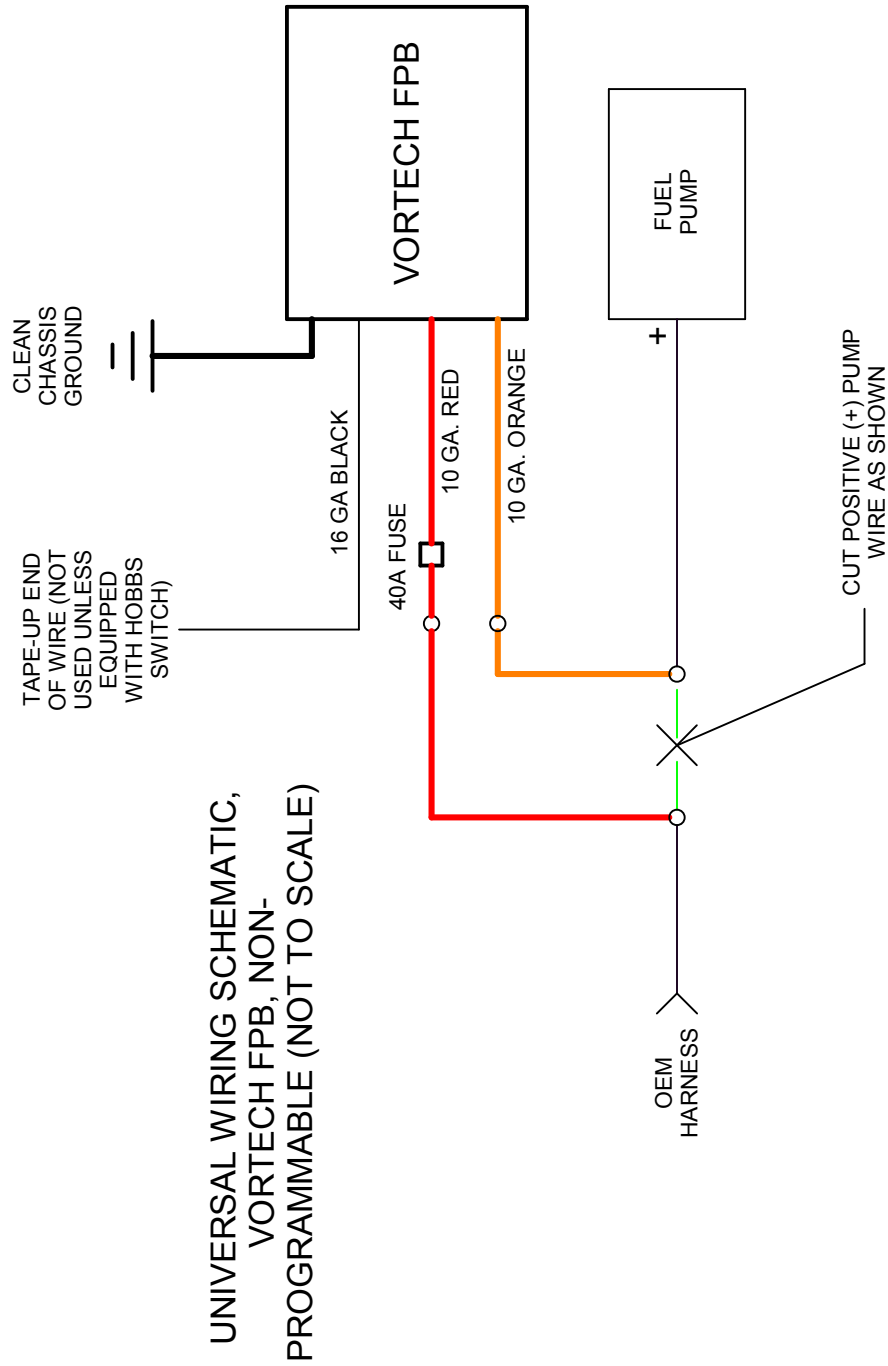
SUGGESTED INSTALLATION WITH
OPTIONAL RELAY AND WIRING



SCHEMATIC, VORTECH FPB, NON-
PROGRAMMABLE, '03/'04 FORD MUSTANG
COBRA (NOT TO SCALE)

BASIC UNIVERSAL WIRING SCHEMATIC --
RECOMMENDED ONLY IF OEM VEHICLE PUMP
WIRING IS OF SUFFICIENT SIZE TO HANDLE UP TO
40 AMP LOAD

WIRING SCHEMATIC EXAMPLE #3

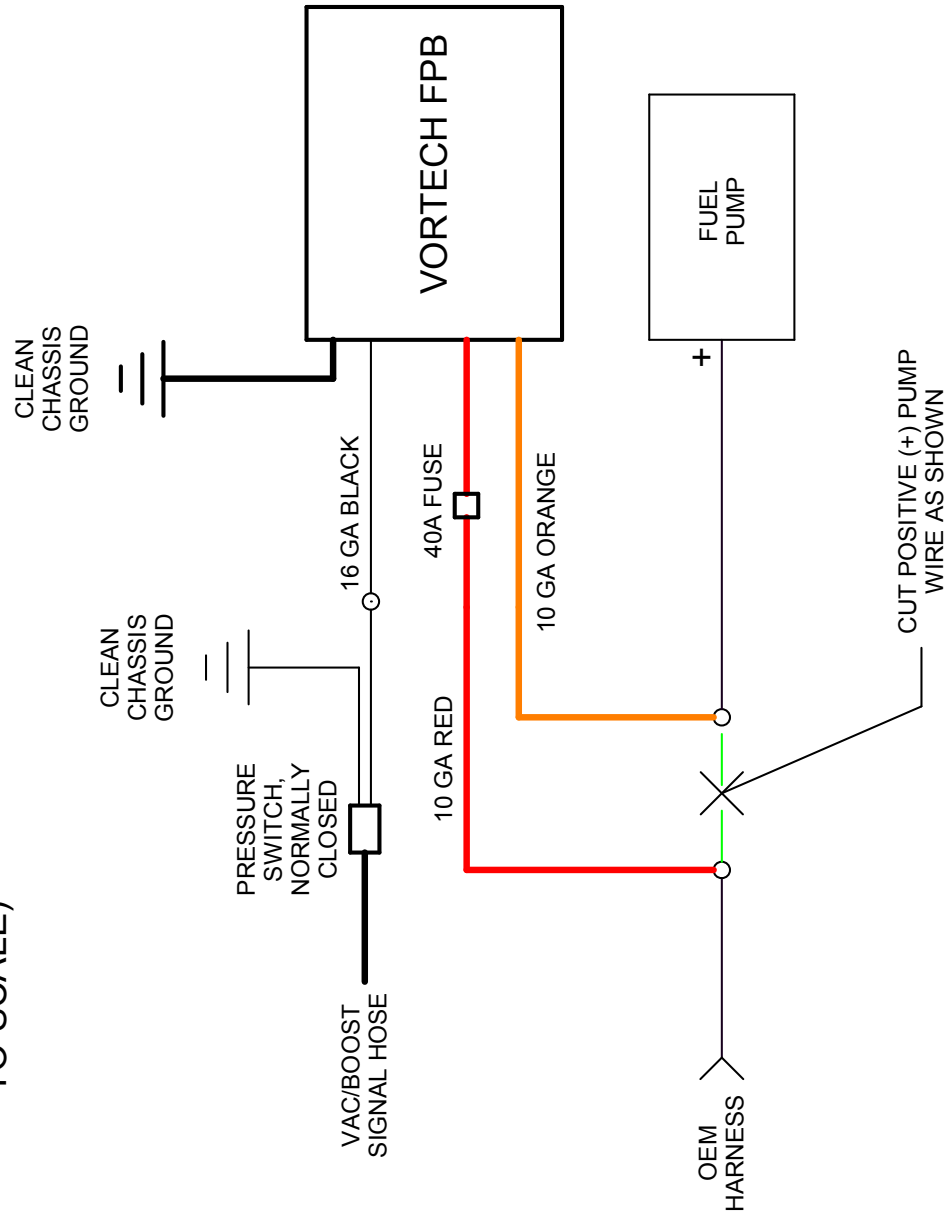


UNIVERSAL WIRING SCHEMATIC,
VORTECH FPB, NON-
PROGRAMMABLE (NOT TO SCALE)

BASIC UNIVERSAL WIRING SCHEMATIC --
RECOMMENDED ONLY IF OEM VEHICLE PUMP
WIRING IS OF SUFFICIENT SIZE TO HANDLE UP TO
40 AMP LOAD

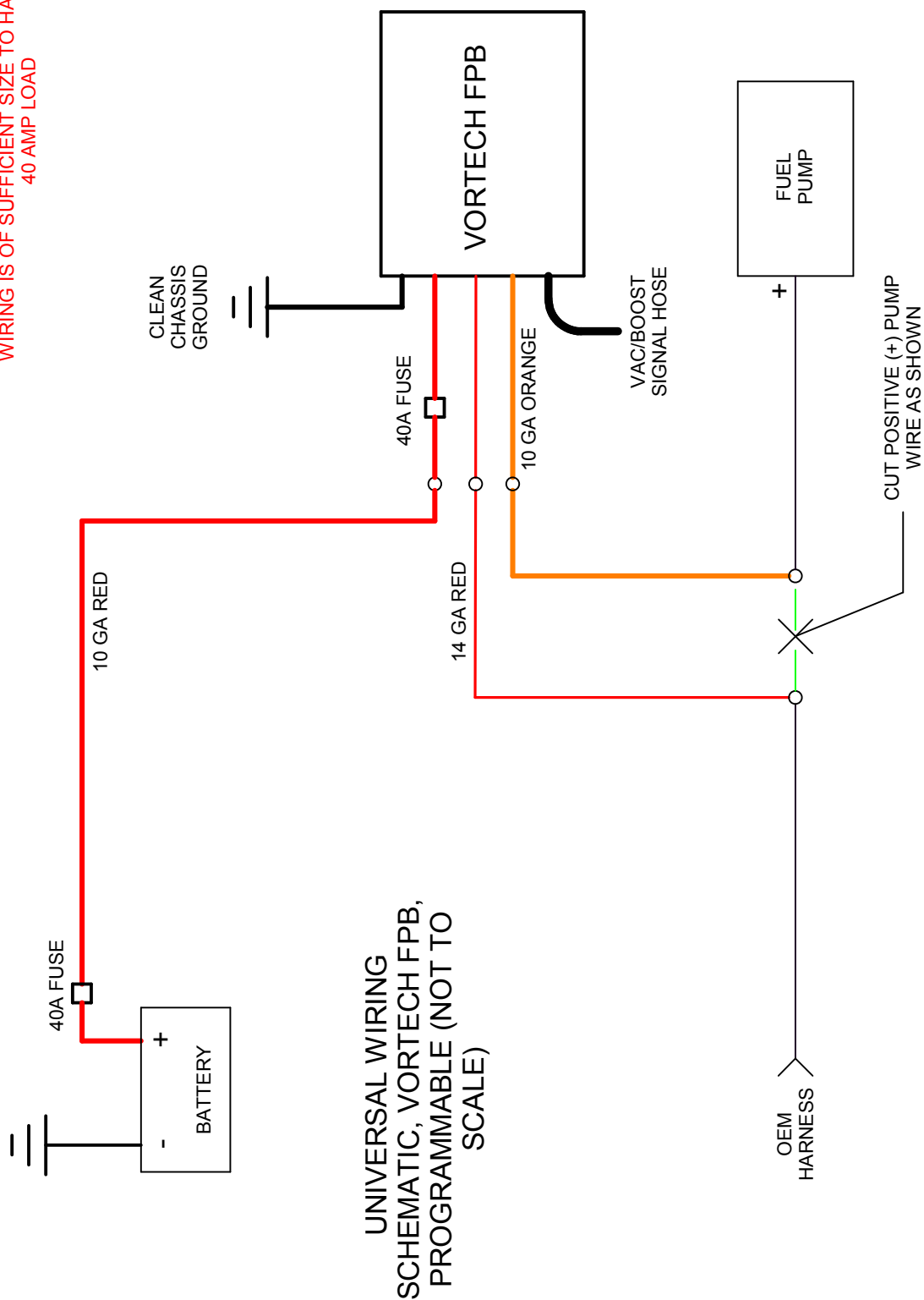
UNIVERSAL WIRING SCHEMATIC,
VORTECH FPB, NON-PROGRAMMABLE,
WITH OPTIONAL HOBBS SWITCH (NOT
TO SCALE)

WIRING SCHEMATIC EXAMPLE #4



BASIC UNIVERSAL WIRING SCHEMATIC --
RECOMMENDED ONLY IF OEM VEHICLE PUMP
WIRING IS OF SUFFICIENT SIZE TO HANDLE UP TO
40 AMP LOAD

WIRING SCHEMATIC EXAMPLE #5



UNIVERSAL WIRING
SCHEMATIC, VORTECH FPB,
PROGRAMMABLE (NOT TO
SCALE)

FINAL CHECK

WARNING: Do not attempt to operate the vehicle until ALL components are installed and ALL operations are completed including the final check.

- A. Confirm that all connections are properly insulated and secure from creating any shorts. Make sure all wires are properly secure with clamps or tie-wraps.
- B. Make sure all wires are routed away from hot, moving or sharp objects.
- C. Test drive the vehicle.
- D. Always listen carefully for engine detonation. Discontinue heavy throttle usage if detonation is heard.



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