

# FOREWORD

This manual provides information on the installation, maintenance and service of the Vortech supercharger kit expressly designed for this vehicle. 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 8:00am-4:30pm PST.



### Take note of the following before proceeding:

**1.** Proper installation of this supercharger kit 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 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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# **TABLE OF CONTENTS**

FOR	EWOR	Σ	. <i>ii</i>
		CONTENTS	
		Г NOTES	
		PPLY REQUIREMENTS	
		(2005-2006 Mustang GT, Standard)	
		(2005-2006 Mustang GT, Standard) Internally Lubricated	
		(2005-2006 Mustang GT, H.O.)	
		(2005-2006 Mustang GT, H.O.) Internally Lubricated	
		(2007-2008 Mustang GT, Standard)	
		(2007-2008 Mustang GT, Standard) Internally Lubricated	
		(2007-2008 Mustang GT, H.O.).	
		(2007-2008 Mustang GT, H.O.) Internally Lubricated	
		(2008 Mustang Bullitt) Internally Lubricated	
		(2010 Mustang GT, Standard) Internally Lubricated	
PAR1	IS LIST	(2010 Mustang GT, H.O.) Internally Lubricated	ххіі
1		ARATION/REMOVAL	1
1. 2.		EED INSTALLATION	
2. 3.		RAIN ASSEMBLY INSTALLATION	
3. 4.		ER STEERING RELOCATION	
4.1		ER STEERING RELOCATION (2010 Only)	
5.1		ANT TUBE RELOCATION (2005-2006 Only)	
5.2		MOSTAT HOUSING/RADIATOR HOSE MODIFICATION	.0
5.2		-2010 Model Year Only)	12
6.1		EY AND SPACER REPLACEMENT (Bullet/V-Power Only)	
6.2		RCHARGER MOUNTING PLATE INSTALLATION	
7.	THER	MOSTAT HOUSING RELOCATION (2005-2006 Only)	21
8.		RGE AIR COOLER INSTALLATION (H.O. Kits Only).	
	8.A	BUMPER COVER AND SPLASH PAN.	
	8.B	CHARGE AIR COOLER ASSEMBLY INSTALLATION (H.O. Kits Only)	26
	8.C	ENGINE COOLANT RESERVOIR INSTALLATION (2005-2006	
		Models Only)	34
	8.D	RADIATOR HOSE MODIFICATIONS (2005-2006 Models Only)	37
	8.E	ENGINE COOLANT RESERVOIR INSTALLATION (2007-2010	
		Models Only)	38
	8.F	COOLER CORE INSTALLATION	41
	8.G	COOLANT RESERVOIR FILL	42
8.1	2010	MUSTANG BUMPER TRIMMING (2010 Models Only)	43
8.2	COMF	PRESSOR BYPASS VALVE ASSEMBLY INSTALLATION	45
8.3	COMF	PRESSOR BYPASS VALVE ASSEMBLY INSTALLATION (V-Power/Bullitt)	46
9.		ISCHARGE ASSEMBLY (Non-cooled Kits Only)	
10.		PRESSOR BY-PASS VALVE INSTALLATION (Non-cooled kits only)	
11.		ANT RESERVOIR RE-INSTALLATION (Non-cooled Kits Only)	
12.		IK CASE BREATHER AND PCV INSTALLATION	
13.		NLET ASSEMBLY	
14.		PUMP UPGRADE	
15.		ASH COMPUTER	
16.	FINAL	_ CHECK	58



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# 2005-2010 Mustang GT Installation Instructions

# Congratulations on selecting the best performing and best backed automotive supercharger available today... the VORTECH® supercharger!

Before beginning this installation, please read through this entire instruction booklet and the Street Supercharger System Owner's Manual which includes the Limited Warranty Program, the Warranty Registration form and return envelope.

Vortech supercharger systems are performance improving devices. In most cases, increases in torque of 30-35% and horsepower between 35-45% can be expected with the boost levels specified by Vortech Engineering. This product is intended for use on healthy, well maintained engines. Installation on a worn-out or damaged engine is not recommended and may result in failure of the engine as well as the supercharger. Vortech Engineering is not responsible for engine damage.

Installation on new vehicles will not harm or adversely affect the break-in period so long as factory break-in procedures are followed.

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

- 1. Use only premium grade fuel 91 octane or higher (R+M/2).
- 2. The engine must have stock compression ratio.
- 3. If the engine has been modified in any way, check with Vortech prior to using this product.
- Always listen for any sign of detonation (pinging) and discontinue hard use (no boost) until problem is resolved.
   Perform an oil and filter change upon completion of this installation and prior to test driving
- 5. Perform an oil and filter change upon completion of this installation and prior to test driving your vehicle. Thereafter, always use a high grade SF rated engine oil or a high quality synthetic, and change the oil and filter at least every 3,000 miles. Never attempt to extend the oil change interval beyond 3,000 miles, regardless of oil manufacturer's claims as potential damage to the supercharger may result.
- 6. Before beginning installation, replace all spark plugs that are older than 1-year or 15,000 miles with original heat range plugs as specified by the manufacturer and reset timing to factory specifications (follow the procedures indicated within the factory repair manual and/ or as indicated on the factory underhood emissions tag). Do not use platinum spark plugs unless they are original equipment. Change spark plugs every 20,000 miles.

#### **TOOL & SUPPLY REQUIREMENTS**

- Factory repair manual
- 3/8" socket and drive set: SAE & metric
- 1/2" socket and drive set: SAE & metric
- 3/8"NPT tap, 3/8-18 tap & handle
- · Adjustable wrench
- Open end wrenches: 3/8", 7/16", 1/2", 9/16"
- Center punch and a 5/8" tapered punch
- 6 quarts (or what is specified in your owner's manual) SF rated quality engine oil, oil filter and wrench



If it has been 15,000 miles or more since your vehicle's last spark plug change, then you will also need:

- Spark plug socket
- NEW spark plugs



### 2005-2006 Mustang GT, Standard Part No. 4FU218-010SQ/018SQ

# **PARTS LIST**

#### ENGINEERING, LLC

PART NO.	DESCRIPTION	QTY.	PART N	UMBER	DESCRIPTION	QTY.	
2E229-230	V2-S SUPERCHARGER	ASY	1	7U133-050	1.5" X 90° H	OSE, LONG LEG	1
4FU130-036	OIL DRAIN ASSY		1	7U133-190	HOSE, COOLNT	DRIV SIDE 05 MUST	1
7U030-036	1/2" OIL DRAIN HOSE		2.5	7U038-000 7P375-075	3/4" HE 3/4" HOSE BA	ATER HOSE RB UNION, BRASS	3.5 1
7R001-008 7P375-017	#8 HOSE CLAMP 3/8NPT X 1/2 BEADED HSE	BRB	2 1	7R002-020	#20 H0	DSE CLAMP	4
4FU130-026	OIL FEED ASY	DILD	1	7R002-024		DSE CLAMP	2 1
7U250-090-260		90°	1	7P125-002 7R002-010		G, 1.25 DIA, .25 TAL DSE CLAMP	4
7P125-005	1/8 NPT STR. X -4 JIC FTG		1	7P125-016		IPT PLUG	1
7P250-091 7P250-034	1/4 NPT 90° X -4JIC FTG S 1/4 NPT X 1/4 NPT STRT		1	4FU110-010		RVOIR RELOCATION	1
4FU112-020	DISCHARGE ASY		1	7P375-075 7P375-050		RB UNION, BRASS UNION, BRASS	1 1
4FU012-020	DUCT, DISCH, MUST GT S		1	7R001-004	#4 HC	SE CLAMP	1 2 3 3 1
7S450-200 7S300-276	SLEEVE, 4 1/2 X 2, BLUI REDUCER, 3.0 X 2.75 X 2	= 51	1 1	7R001-008 7U038-030		SE CLAMP , P/S, 3/4 ID	2
7R002-044	#44 HOSE CLAMP	.02	1	7U032-016		JEL HSE HI-PSR	3
7R002-048 7R002-072	#48 HOSE CLAMP #72 HOSE CLAMP		1 2	7A250-075		75 SHCS PLTD	1
7R002-012	#16 HOSE CLAMP		4	7J250-001 7F250-021		ER, SAE, PLTD ( NUT ZINC PLATED	2 1
70030-046	5/32" VACUUM LINE		5	4FU010-010		RKT, 05 GT MUST	1
8D001-001 7U034-016	STD COMPRESS BYPASS V 1" GS HEATER HOSE	ALVE	1 1.25	7U100-055		P, 7.5" NYLON	4
7U034-016	1" GS HEATER HOSE		0.583	8F060-048		BLB EV6, OEM 03 COB	
7P218-156	VAC TEE, 7/32,7/32,5/32	2	1	008110		VER DIE CUT DECAL	2
4FU112-010 4FU012-010	AIR INTAKE ASY INLET DUCT,"A"		<b>1</b> 1	008444		WARRANTY PKG	1
4FU012-015	INLET DUCT, "B"		1	008130	LICENSE PL/	ATE FRAME, VORTECI	
7R002-056	#56 HOSE CLAMP		1	4FU020-010		AN 05-08 MUST GT	1
7S400-200 7S400-351	SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X	2.35L	2 1	5A003-035	PREDATO	R, 05-08 MUSTANG	1
7R002-064	#64 HOSE CLAMP		5	8F101-262 7U032-018		SY,05 MUST TWIN INT	
8H040-235 8A003-071	AIR FILTER, 4.0FLG X 7.0 MAF. 3.8 I.D. MUSTANG (		1 1	7U100-055		BLE EFI FUEL HOSE P, 7.5" NYLON	2.75 4
7P750-102	3/4NPT X 1" X 90° HSE F	IT	1	7R004-002	STEPLESS	ĆLAMP, 17.0-70	2 1
7P250-047 4FU010-071	1/4NPT TO 3/8"BARB 90 BRKT, INTAKE SUPPOR		1 1	8F001-255 7R002-044		FUEL PUMP '86-'97 DSE CLAMP	1
7U032-016	3/8" EFI FUEL HSE HI-PS		4	7R004-006	STEPLESS CLA	MP, 11.3 X 5MM WID	4 2
4FU013-010	COVER, AIR FILTER, MUST	ΓGT	1 2	5W001-022 5W001-009		NN,14-16 AWG SLIDE INSULATED	2 2
7C040-008	M47X8MM SCHD SS	ACV	2 1	5W001-080	FUSE, 20 A	MP. MINI BLADE	1
<b>4FU111-044</b> 4FU010-044	S/C MOUNTING BRKT S/C MOUNT PLT, MUST (		1	7P375-099 7U032-025		' BARBED TEFLON ID,3/8"OD, 1/32" W	1 0.125
4FU010-034	IDLER MOUNT PLATE, MU	JST	1	70032-023		_ 3/8" CUFF ID, 1' L	2
4FU017-011 2A017-750-05	SPACER, STUDDED MUST SPACER, .750 OD X 2.691 L		2 2	4FU101-001	MAF EXT	MOD 05+ MUSTANG	1
2A017-750-06	SPACER, .750 OD X 2.712 L	ONG	1	5W018-030		RD WIRE GREY	1
2A017-879-08 2A017-750-07	SPACER, .875 OD X 1.776 L SPACER, .750 OD X .097 L0		1	5W018-010 5W018-020		RD WIRE RED VIRE BLK, UL1015	1
4FU017-021	SPACER, IDLER, MUST (		1	5W018-080	18GA STRD	WIRE BLUE BULK	1
4PCS016-160 2A046-120	PULLEY, IDLER BELT, GATES K061203		1	5W018-090 5W018-100		/IRE BROWN BULK D WIRE PURPLE	1 1
7A375-375	3/8-16 X 3-3/4 HX HD		1	5W001-007	3/16" HEAT-	SHRINK TUBING	1.5
7C080-150	M8 X 1.25 X 150MM HXHD C		1	5W001-005 5W001-012	3/8" PLAST 18-22 GA BUT	TIC WIRE LOOM	1.5 12
7C080-140 7A375-100	M8 X 1.25 X 140 HXHD CL 3/8-16 X 1 G5 HHCS, PL		2 7	50001-012	10-22 OA DOT		12
7K312-030	5/16 AN WASHER, S.S.		2				
7K375-040	3/8 AN960 FLAT WASHR PL/	AIED	10				
4FU139-096 7P375-106	PCV MOD ASY PCV VALVE, FORD, 3/8" HO	OSE	<b>1</b> 1				
7P625-377	5/8" -3/8" REDUCER BARB U	NION	1				
7R004-002 7R004-004	STEPLESS CLAMP, 17.0- STEPLESS CLAMP, 1.0 OD H		2 3				
	STEPLESS CLAMP, 28.6 X 7M		1				
7U032-016	3/8" EFI FUEL HSE HI-PS	R	0.25				
7U033-020 <b>4FU214-021</b>	HOSE, 5/8"ID CLASS 1 EMISS COOL BYP HOSE RELO		0.66667 <b>1</b>				
	ASY, WATER OUTLET, 05 MU		1				
7J875-010	7/8 SEALING WASHER		1				
7F875-010	NUT, 7/8-14, SHORT/JAN	/1	1				

VORTEC		5-20	06 Mus	-	<b>T, Stan</b> FU218-010	
	ENGINEERING, LLC			P	ARTS L	<b>IS</b> 1
IMPORTANT:	Before beginning installation, verify aged parts immediately.	that all pa	arts are included	in the kit. Report	any shortages or o	dam-
ART NO.	DESCRIPTION QTY.	PART	NUMBER D	ESCRIPTION	QTY.	
ART NO. 008110 008130 008447 009035 2F329-010 4FU020-010 4FU10-010 7P375-075 7P375-050 7R001-004 7R001-008 7U032-016 7A250-075 7J250-001 7E250-021 4FU010-010 7U100-055 4FU11-044 4FU010-034 4FU010-034 4FU010-034 4FU010-034 4FU017-011 2A017-750-05 2A017-750-05 2A017-750-05 2A017-750-06 2A017-750-07 4FU017-021 4PCS016-160 2A046-120 7A375-375 7C080-150 7C080-140 7A375-300 4FU12-010 4FU012-015 7R002-064 8H040-235 7R002-064 8H040-235 7R002-064 8H040-235 7R002-064 8H040-235 7P250-047 4FU013-010	aged parts immediately. DESCRIPTION QTY. SMALL SILVER DIE CUT DECAL LICENSE PLATE FRAME 1 YR S/C WARRANTY PKG S/C LUBE, BOTTLED, 3-PACK V3 SUPERCHARGER ASY, STD INSTR MAN 05-08 MUST GT P/S RESERVOIR RELOCATION 3/4" HOSE BARB UNION, BRASS 3/8" HOSE CLAMP #8 HOSE CLAMP HOSE, P/S, 3/4 ID 3/8" EFI FUEL HSE HI-PSR 1/4-20 X .75 SHCS PLTD 1/4 WASHER, SAE, PLTD 1/4-20 NYLOCK NUT ZINC PLATED P/S RELOC BRKT, 05 GT MUST TIE WRAP, 7.5" NYLON S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUST SPACER, .750 OD X 2.691 LONG SPACER, .750 OD X 2.691 LONG SPACER, .750 OD X 2.712 LONG SPACER, .750 NOD X 2.751 J/4 NPT Y 0 3/8 BARB 90° BRKT, INTAKE SUPPORT 3/4 NPT X 1" X 90° HSE FIT 1/4 NPT YO 3/8 BARB 90° BRKT, INTAKE SUPPORT 3/6 FI FUEL HSE HI-PSR COVER, AIR FILTER, MUST GT	PART 2 1 1 1 1 1 1 1 1 1 2 2 3 3 1 2 1 1 1 1		JESCRIPTION 5/8" -3/8" REDU STEPLESS STEPLESS CLA 3/8" EFI FU HOSE, 5/8"ID C COOL BYF ASY, WATER OU 7/8 SEAL NUT, 7/8-1 1.5" X 90° H HOSE, COOLNT 3/4" HE 3/4" HOSE BA #20 HO #24 HO FREEZE PLUC #10 HO #10 HO #10 HO 1/8 N PREDATO FUEL PMP AS 3/8" SUBMERSII TIE WRAI STEPLESS 255 INTANK F #44 HO STEPLESS CLA T-TAP CO 16-14GA MALE FUSE, 20 AI Y-UNION, 3/8" HOSE, 5/16" I HOSE, SPIRAL MAF EXT I 18GA STRD V 18GA STRD V 18GA STRD V 18GA STRD V 18GA STRD V 18GA STRD V 18GA STRD V		1 2 3 0 0.25 0.666 1 1 1 1 1 1 1 3.5 1 4 2 1 4 2 1 4 2 1 1 0 <b>B 8</b> <b>8</b> <b>1</b> 1 1 1 2.75 4 2 2 1 1 1 0 2.25 0.666 1 1 1 1 1 1 1 2 2 1 0 0.666 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7C040-008 <b>FU112-020</b> 4FU012-020 7S450-200 7S300-276 7R002-044 7R002-048 7R002-048 7R002-016 7U030-046 8D001-001 7U034-016 7U034-016	M47X8MM SCHD SS DISCHARGE ASY DUCT, DISCH, MUST GT STD SLEEVE, 4 1/2 X 2, BLUE REDUCER, 3.0 X 2.75 X 2.5L #44 HOSE CLAMP #48 HOSE CLAMP #16 HOSE CLAMP 5/32" VACUUM LINE STD COMPRESS BYPASS VALVE 1" GS HEATER HOSE 1" GS HEATER HOSE	2 1 1 1 2 4 5 1 1.25 0.583				
7P218-156 <b>4FU139-096</b> 7P375-106	VAC TEE, 7/32,7/32,5/32 <b>PCV MOD ASY</b> PCV VALVE, FORD, 3/8" HOSE	1 <b>1</b> 1				



## 2005-2006 Mustang GT, H.O. Part No. 4FU218-020SQ PARTS LIST

ENGINEERING, LLC

	aged parts immediately.					
PART NO.	DESCRIPTION QTY.	PART	NUMBER	DESCRIPTION	QTY.	
008110	SMALL SILVER DIE CUT DECAL	2	7R004-00		AMP, 1.0 OD HOSE	3
008130	LICENSE PLATE FRAME	1	7R004-00		MP, 28.6 X 7MM WID	
008444	<b>3 YR S/C WARRANTY PKG</b>	1	7U032-01 7U033-02		JEL HSE HI-PSR CLASS 1 EMISSIONS	0.25 0.66667
2E229-240	V2-S SUPERCHARGER ASY, H.O.	1	4FU214-02	-	P HOSE RELOC ASY	1
4FU020-010	INSTR MAN 05-08 MUST GT	1	4FU114-0	21 ASY, WATER C	UTLET, 05 MUST GT	1
4FU110-010	<b>P/S RESERVOIR RELOCATION</b>	1	7J875-010 7F875-010		_ING WASHER 14, SHORT/JAM	1
7P375-075	3/4" HOSE BARB UNION, BRASS	1	7U133-05	0 1.5" X 90° ⊦	IOSE, LONG LEG	1
7P375-050 7R001-004	3/8" HOSE UNION, BRASS #4 HOSE CLAMP	1	7U133-19 7U038-00		T DRIV SIDE 05 MUST EATER HOSE	'1 3.5
7R001-008	#8 HOSE CLAMP	2 2 3	7P375-07		RB UNION, BRASS	1
7U038-030 7U032-016	HOSE, P/S, 3/4 ID 3/8" EFI FUEL HSE HI-PSR	3 3	7R002-02		OSE CLAMP	4
7A250-075	1/4-20 X .75 SHCS PLTD	1	7R002-02 7P125-00		OSE CLAMP G, 1.25 DIA, .25 TAL	2 1
7J250-001	1/4 WASHER, SAE, PLTD	2 1	7R002-01	0 #10 H	OSE CLAMP	4
7F250-021 4FU010-010	1/4-20 NYLOCK NUT ZINC PLATED P/S RELOC BRKT, 05 GT MUST	1	7P125-01		NPT PLUG	1
7U100-055	TIE WRAP, 7.5" NYLON	4	5A001-025			1
4FU111-044	S/C MOUNTING BRKT ASY	1	5A003-035		DR, 05-08 MUSTANG	1
4FU010-044 4FU010-034	S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUST	1 1	8F060-048		9LB EV6, OEM 03 CO	
4FU017-011	SPACER, STUDDED MUST GT	22	8F101-262 7U032-01		<b>SY,05 MUST TWIN IN'</b> IBLE EFI FUEL HOSE	<b>TA 1</b> 2.75
2A017-750-05 2A017-750-06	SPACER, .750 OD X 2.691 LONG SPACER, .750 OD X 2.712 LONG	2 1	7U100-05	5 TIE WRA	NP, 7.5" NYLON	4
2A017-879-08	SPACER, .875 OD X 1.776 LONG	1	7R004-00 8F001-25		CLAMP, 17.0-70 FUEL PUMP '86-'97	2
2A017-750-07 4FU017-021	SPACER, .750 OD X .097 LONG SPACER, IDLER, MUST GT	1 1	7R002-04		OSE CLAMP	1
4PCS016-160	PULLEY, IDLER	1	7R004-00		AMP, 11.3 X 5MM WID	4
2A046-120	BELT, GATES K061203 3/8-16 X 3-3/4 HX HD	1	5W001-02 5W001-00	22 1-TAP CC )9 16-14GA MALE	NN,14-16 AWG E SLIDE INSULATED	2 2
7A375-375 7C080-150	M8 X 1.25 X 150MM HXHD CL10.9	1 1	5W001-08	30 FUSE, 20 A	MP. MINI BLADE	1
7C080-140	M8 X 1.25 X 140 HXHD CL8.8	2	7P375-09 7U032-02		" BARBED TEFLON ID,3/8"OD, 1/32" W	1 0.125
7A375-100 7K312-030	3/8-16 X 1 G5 HHCS, PLT 5/16 AN WASHER, S.S.	7 2	7U032-03		L 3/8" CUFF ID, 1' L	2
7K375-040	3/8 AN960 FLAT WASHR PLATED	10	8N101-290	WEL	DED CORE ASY	1
4FU112-010		1	8N104-125		05-08 MUST GT CLR	G 1
4FU012-010 4FU012-015	INLET DUCT,"A" INLET DUCT,"B"	1 1	4FE014-0 5W001-00		PIPE-STAINLESS E SLIDE INSULATED	1
7R002-056	#56 HOSE CLAMP	1	5W001-01		G TERM .26" HOLE	1
7S400-200 7S400-351	SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X 2.35L	2 1	5W001-01 5W001-02		DE TYPE 20 AMP NN,14-16 AWG	1
7R002-064	#64 HOSE CLAMP	5	5W001-03	32 1/4" PLAS	TIC WIRE LOOM	60
8H040-235 8A003-071	AIR FILTER, 4.0FLG X 7.0L MAF, 3.8 I.D. MUSTANG GT	1 1	5W001-05 5W001-07		L INJ PLUG W/WIRES DER,16GA WIRE	; 1 1
7P750-102	3/4NPT X 1" X 90° HSE FIT	1	5W018-01	10 18GA ST	RD WIRE RED	5
7P250-047 4FU010-071	1/4NPT TO 3/8"BARB 90° BRKT, INTAKE SUPPORT	1 1	7A250-05 7A250-05	0 1/4-20 X .50	SHCS ZINC PLTD HHCS ZINC PLTD	3 2 2
7U032-016	3/8" EFI FUEL HSE HI-PSR	4	7A250-07	4 1/4-20 X .	75 HHCS PLTD	
4FU013-010 7C040-008	COVER, AIR FILTER, MUST GT M47X8MM SCHD SS	1 2	7F250-02 7J006-093		0 HEX NUT SHER, PLATED	2 5
4FU114-010	RAD PIPE RELOC ASY, MUST GT	2 1	7J250-00		IER, SAE, PLTD	э 4
4FU014-010 4FU014-010	RADIATOR PIPE, 05 GT MUST	1	7P156-08	2 5/	32 TEE	1
7R002-024	#24 HOSE CLAMP	2	7P218-15 7P375-07	5 3/4" HOSE BA	, 7/32,7/32,5/32 RB UNION, BRASS	1 4
4FU130-026		<b>1</b> 1	7P500-02	6 1/2NPT X 3/4	BARB 90° BRASS	4 2 2 4 2 2 2 1 2 16
7U250-090-260 7P125-005	) OIL FEED HOSE, 26" -4X90° 1/8 NPT STR. X -4 JIC FTG STL	1	7P500-07 7R002-01		4 HOSE FIT STRT OSE CLAMP	2
7P250-091	1/4 NPT 90° X -4JIC FTG STL	1	7R002-02	4 #24 H	OSE CLAMP	2
7P250-034	1/4 NPT X 1/4 NPT STRT T	1	7R002-04 7R002-07		OSE CLAMP OSE CLAMP	2
4FU130-036 7U030-036	OIL DRAIN ASSY 1/2" OIL DRAIN HOSE	<b>1</b> 2.5	7R003-01	6 ADEL	CLAMP, 1.0"	1
7R001-008	#8 HOSE CLAMP	2	7R003-02 7R007-00		P, 2-3/8" .26 HOLE CHET CLAMP 1-1/8"	2 16
7P375-017	3/8NPT X 1/2 BEADED HSE BRB	1	7S275-05		75 X 55° SILICONE	1
<b>4FU139-096</b> 7P375-106	PCV MOD ASY PCV VALVE, FORD, 3/8" HOSE	<b>1</b> 1	7S450-20 7U030-04	0 SLEÉVE,	4 1/2 X 2, BLUE	1
7P625-377	5/8" -3/8" REDUCER BARB UNION	1	7U030-04 7U030-06		ACUUM LINE BER HOSE, SHORT	5 1
7R004-002	STEPLESS CLAMP, 17.0-70	2	7U034-01		EATER HOSE	1



PART NO.	DESCRIPTION	QTY.
7U034-016 7U038-000 7U038-012 7U038-020 7U100-055 7U375-054 8D001-001 8F001-403 8N010-160 8N010-220 8N055-050 8N056-061	1" GS HEATER HO 3/4" HEATER HO HOSE, 3/4"DIA 90°, 4X1 HOSE, Ø3/4 'S' MOLDEL HOSE, Ø3/4 'S' MOLDEL HOSE, 3/4"X150° MOLD TIE WRAP, 7.5" NY 3/4" VINYL CAF STD COMPRESS BYPAS PUMP, WATER, BO SURGE TANK BRKT, M HTG BRKT, 05-07 MUST E PLASTIC CAP, SURG SURGE TANK INTEGRA G	SE         12           2 LEGS         1           0 RUBBER         1           ED HOSE         1           LON         6           OS         1           SS VALVE         1           MUST GT         1           OSCH PMP         1           E TANK         1           SR MODIFIE         1
8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7F008-020 7J312-000 7A250-051 7J250-001	WATER CLR ASY, M WATER COOLR, FLDYN I BRACKET, DRVR SIDE CI BRACKET, PASS SIDE ( SPACER, PLT.BRG, HSC M8 X 1.25 X 30 HXHD NUT, M8 X 1.25 5/16 FLAT WASHER 1/4-20 X .50 HHCS ZIN 1/4 WASHER, SAE,	DUAL PASS         1           .R MNT,PLT         1           CLR MNT         1           5.,0.186"         4           CL10.9         6           5         6           C-SAE         12           IC PLTD         4
8N155-080 4FU010-051 4FU010-061 7A250-051 7C060-020 7J006-093 7J006-093 7P250-045 7P375-050 7R002-010 7R004-002 7U030-056 8N055-080 008341	COOLANT RES REL MTG BRKT A, RES REL BRKT B, COOL RES REL 1/4-20 X .50 HHCS ZIN M6 X 1.0 X 20MM HH 6MM WASHER, PL/ 6MM WASHER, PL/ 1/4 MALE NPT X 3/8 MA 3/8" HOSE UNION, B #10 HOSE CLAM STEPLESS CLAMP, 1 3/8 PCV/VAC RUBBER TANK, RAD OVERFLOW CHARGE COOLER	DC         MUST         1           OC         MUST         1           IC         PLTD         4           ICS         ZN         3           ATED         4           ATED         4           ATED         3           ILE         BARB         1           IRASS         1           IP         1           I7.0-70         3           R HOSE         2.5           V, MUST         1



### 2005-2006 Mustang GT, H.O. Part No. 4FU218-020L/028L

# **PARTS LIST**

**ENGINEERING, LLC** 

PART NO.	DESCRIPTION QTY.	PART N		DESCRIPTION	QTY.	
008110	SMALL SILVER DIE CUT DECAL	2	7J875-010 7F875-010		ING WASHER	1 1
008130	LICENSE PLATE FRAME	1	7U133-050		IOSE, LONG LEG	1
008341	CHARGE COOLER DECAL	1	7U133-190	HOSE, COOLNT	DRIV SIDE 05 MUST	1
008447	1 YR S/C WARRANTY PKG	1	7U038-000 7P375-075	3/4" HE 3/4" HOSE BA	ATER HOSE RB UNION, BRASS	3.5 1
009035	S/C LUBE, BOTTLED, 3-PACK	1	7R002-020	#20 H0	DSE CLAMP	
2F329-020	V3 SUPERCHARGER ASY, H.O.	1	7R002-024	#24 H0	DSE CLAMP	4 2 1
4FU020-010	INSTR MAN 05-08 MUST GT	1	7P125-002 7R002-010		G, 1.25 DIA, .25 TAL DSE CLAMP	4
4FU110-010	P/S RESERVOIR RELOCATION	1	7P125-016		NPT PLUG	1
7P375-075	3/4" HOSE BARB UNION, BRASS	1 1	5A001-025	DI	ABLO MAFIA	1
7P375-050 7R001-004	3/8" HOSE UNION, BRASS #4 HOSE CLAMP		5A003-035	PREDATO	R, 05-08 MUSTANG	1
7R001-008	#8 HOSE CLAMP	2 2 3	8F060-048	FUEL INJ, 39	BLB EV6, OEM 03 COE	8 8
7U038-030 7U032-016	HOSE, P/S, 3/4 ID 3/8" EFI FUEL HSE HI-PSR	3 3	8F101-262	FUEL PMP A	SY,05 MUST TWIN INT	A 1
7A250-075	1/4-20 X .75 SHCS PLTD	1	7U032-018		BLE EFI FUEL HOSE	2.75
7J250-001	1/4 WASHER, SAE, PLTD	2	7U100-055 7R004-002		.P, 7.5" NYLON CLAMP, 17.0-70	4 2
7F250-021 4FU010-010	1/4-20 NYLOCK NUT ZINC PLATED P/S RELOC BRKT, 05 GT MUST	1 1	8F001-255	255 INTANK I	FUEL PUMP '86-'97	1
7U100-055	TIE WRAP, 7.5" NYLON	4	7R002-044		DSE CLAMP MP, 11.3 X 5MM WID	1 4
4FU111-044	S/C MOUNTING BRKT ASY	1	7R004-006 5W001-022	2 T-TAP CO	NN,14-16 AWG	2 2
4FU010-044	S/C MOUNT PLT, MUST GT	1 1	5W001-009	9 16-14GA MALE	E SLIDE INSULATED	
4FU010-034 4FU017-011	IDLER MOUNT PLATE, MUST SPACER, STUDDED MUST GT		5W001-080 7P375-099		MP. MINI BLADE ' BARBED TEFLON	1 1
2A017-750-05	SPACER, .750 OD X 2.691 LONG	2 2	7U032-025	HOSE, 5/16"	ID,3/8"OD, 1/32" W	0.125
	SPACER, .750 OD X 2.712 LONG SPACER, .875 OD X 1.776 LONG	1 1	7U032-030	HOSE,SPIRA	L 3/8" CUFF ID, 1' L	2
2A017-750-07	SPACER, .750 OD X .097 LONG	1	8N101-290	WELI	DED CORE ASY	1
4FU017-021	SPACER, IDLER, MUST GT PULLEY. IDLER	1 1	8N104-125		05-08 MUST GT CLR	
4PCS016-160 2A046-120	BELT, GATES K061203	1	4FE014-01 5W001-009		PIPE-STAINLESS SLIDE INSULATED	1 1
7A375-375	3/8-16 X 3-3/4 HX HD	1	5W001-011	16-14 GA RIN	G TERM .26" HOLE	1
7C080-150 7C080-140	M8 X 1.25 X 150MM HXHD CL10.9 M8 X 1.25 X 140 HXHD CL8.8	1	5W001-015 5W001-022		DE TYPE 20 AMP NN,14-16 AWG	1 1
7A375-100	3/8-16 X 1 G5 HHCS, PLT	2 7	5W001-032	2 1/4" PLAST	FIC WIRE LOOM	60
7K312-030 7K375-040	5/16 AN WASHER, S.S. 3/8 AN960 FLAT WASHR PLATED	2 10	5W001-050		L INJ PLUG W/WIRES	1 1
4FU112-010		1	5W001-07 5W018-010		DER,16GA WIRE RD WIRE RED	
4FU012-010	INLET DUCT,"A"	1	7A250-050	1/4-20 X .50	SHCS ZINC PLTD	5 3 2 2 2 5 4 1
4FU012-015	INLET DUCT,"B"	1	7A250-051 7A250-074		HHCS ZINC PLTD 75 HHCS PLTD	2
7R002-056 7S400-200	#56 HOSE CLAMP SLEEVE, 4 X 2, BLUE	1 2	7F250-020	1/4-20	) HEX NUT	2
7S400-351	REDUCER SLV 4.00 X 3.5 X 2.35L	1	7J006-093 7J250-001		SHER, PLATED	5
7R002-064 8H040-235	#64 HOSE CLAMP AIR FILTER, 4.0FLG X 7.0L	5 1	7P156-082		IER, SAE, PLTD 32 TEE	4
8A003-071	MAF, 3.8 I.D. MUSTANG GT	1	7P218-156		, 7/32,7/32,5/32	1
7P750-102	3/4NPT X 1" X 90° HSE FIT	1 1	7P375-075 7P500-026		RB UNION, BRASS BARB 90° BRASS	4 2 2
7P250-047 4FU010-071	1/4NPT TO 3/8"BARB 90° BRKT, INTAKE SUPPORT	1	7P500-078	1/2NPT X 3/4	4 HOSE FIT STRT	
7U032-016	3/8" EÉI FUEL HSE HI-PSR	4	7R002-016 7R002-024		DSE CLAMP DSE CLAMP	4 2
4FU013-010 7C040-008	COVER, AIR FILTER, MUST GT M47X8MM SCHD SS	1 2	7R002-024		DSE CLAMP	2
4FU114-010	RAD PIPE RELOC ASY. MUST GT		7R002-072			2
4FU014-010	RADIATOR PIPE, 05 GT MUST	1	7R003-016 7R003-028		CLAMP, 1.0" P, 2-3/8" .26 HOLE	1 2
7R002-024	#24 HOSE CLAMP	2	7R007-001	NYLON RATC	HET CLAMP 1-1/8"	16
4FU139-096	PCV MOD ASY	1	7S275-055 7S450-200		75 X 55° SILICONE 4 1/2 X 2, BLUE	1 1
7P375-106 7P625-377	PCV VALVE, FORD, 3/8" HOSE 5/8" -3/8" REDUCER BARB UNION	1 1	7U030-046	5/32" V	ACUUM LINE	5
7R004-002	STEPLESS CLAMP, 17.0-70	2	7U030-065 7U034-016		BER HOSE, SHORT EATER HOSE	1 1
7R004-004 7R004-007	STEPLESS CLAMP, 1.0 OD HOSE STEPLESS CLAMP, 28.6 X 7MM WID	3 1	70034-016		EATER HOSE	1.25
7U032-016	3/8" EFI FUEL HSE HI-PSR	0.25	7U038-000	3/4" HE	ATER HOSE	12
7U033-020	HOSE, 5/8"ID CLASS 1 EMISSIONS	0.66667	7U038-012 7U038-020		IA 90°,4X12 LEGS ' MOLDED RUBBER	1 1
4FU214-021	COOL BYP HOSE RELOC ASY	1	7U038-150		50° MOLDED HOSE	1
4FU114-021	ASY, WATER OUTLET, 05 MUST GT	1				



# 2005-2006 Mustang GT, H.O. cont'd

Part No. 4FU218-020L/028L

# **PARTS LIST**

PART NO.	DESCRIPTION	QTY.
7U100-055 7U375-054 8D001-001 8F001-403 8N010-160 8N010-220 8N055-050 8N056-061	TIE WRAP, 7.5" N 3/4" VINYL CA STD COMPRESS BYPA PUMP, WATER, BC SURGE TANK BRKT, 1 MTG BRKT, 05-07 MUST I PLASTIC CAP, SURG SURGE TANK INTEGRA G	P 1 SS VALVE 1 DSCH 1 MUST GT 1 BOSCH PMP 1 E TANK 1
8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7F008-020 7J312-000 7A250-051 7J250-001	WATER CLR ASY, M WATER COOLR, FLDYN BRACKET, DRVR SIDE C BRACKET, PASS SIDE SPACER, PLT.BRG.HS M8 X 1.25 X 30 HXHE NUT, M8 X 1.2 5/16 FLAT WASHEF 1/4-20 X .50 HHCS ZII 1/4 WASHER, SAE,	DUAL PASS         1           LR MNT,PLT         1           CLR MNT         1           G.,0.186"         4           O CL10.9         6           5         6           R-SAE         12           NC PLTD         4
8N155-080 4FU010-051 4FU010-061 7A250-051 7C060-020 7J006-093 7J006-093 7P250-045 7P375-050 7R002-010 7R004-002 7U030-056 8N055-080	COOLANT RES REI MTG BRKT A, RES REL BRKT B, COOL RES REI 1/4-20 X .50 HHCS ZII M6 X 1.0 X 20MM HH 6MM WASHER, PL 6MM WASHER, PL 1/4 MALE NPT X 3/8 M/ 3/8" HOSE UNION, I #10 HOSE CLAIP, 3/8 PCV/VAC RUBBE TANK, RAD OVERFLO	OC         MUST         1           JOC         MUST         1           NC         PLTD         4           HCS         ZN         3           ATED         4         3           ATED         3         3           ALE         BARB         1           JBRASS         1         1           J7.0-70         3         R           HOSE         2.5         5



## 2007-2008 Mustang GT, Standard Part No. 4FU218-030SQ/038SQ

ENGINEERING, LLC

# **PARTS LIST**

PART NO.	DESCRIPTION QT	Y. PART NU	JMBER	DESCRIPTION	QTY.	
2E229-230 4FU130-036 7U030-036 7R001-008 7P375-017 4FU130-026 7U250-090-260 7P125-005 7P250-091	1/8 NPT STR. X -4 JIC FTG STL 1/4 NPT 90° X -4JIC FTG STL	<b>1</b> 2.5 2 1 <b>1</b> 1 1	4FU114-030 4FU014-05 4FU014-06 5W001-085 7C060-015 7C060-020 7J006-094 7R002-024 7U012-018 8F101-262	1 HOUSING, THRM 0 WATER PIPE, SLEEVE, FLE M6 X 1.0 X 16N M6 X 1. 6MM W #24 H0 O-RING, 07 ML	ASSY, 07-08 MUST G MST RELC 07 MUST G Ø1.5 x 90°,07 MUST X BRD Ø1.5" NOM. MM SHCS CL10.9+ Z 0 X 20MM HX /ASHER S.S. DSE CLAMP JST GT THERM HSG SY,05 MUST TWIN INT.	1 0.83 2 2 2 3 1
7P250-034 <b>4FU112-020</b> 4FU012-020 7S450-200 7S300-276 7R002-044 7R002-048 7R002-072 7R002-016 7U030-046 8D001-001 7U034-016 7U034-016 7U034-016	1/4 NPT X 1/4 NPT STRT T DISCHARGE ASY DUCT, DISCH, MUST GT STD SLEEVE, 4 1/2 X 2, BLUE REDUCER, 3.0 X 2.75 X 2.5L #44 HOSE CLAMP #48 HOSE CLAMP #72 HOSE CLAMP #72 HOSE CLAMP #72 HOSE CLAMP 5/32" VACUUM LINE STD COMPRESS BYPASS VALVE 1" GS HEATER HOSE 1" GS HEATER HOSE 1" GS HEATER HOSE 1" GS HEATER HOSE	1.25 0.583	7U032-018 7U100-055 7R004-002 8F001-255 7R002-044 7R004-006 5W001-022 5W001-009 5W001-080 7P375-099 7U032-025 7U032-030 5A003-035	3/8" SUBMERSI TIE WRA STEPLESS 255 INTANK I #44 H0 STEPLESS CLA T-TAP CC 16-14GA MALE FUSE, 20 A Y-UNION, 3/8 HOSE, 5/16" HOSE, SPIRA	BLE EFI FUEL HOSE P, 7.5" NYLON CLAMP, 17.0-70 FUEL PUMP '86-'97 DSE CLAMP MP, 11.3 X 5MM WID NN,14-16 AWG E SLIDE INSULATED MP. MINI BLADE ' BARBED TEFLON ID,3/8"CD, 1/32" W L 3/8" CUFF ID, 1' L <b>DR. 05-08 MUSTANG</b>	2.75 4 2 1 4 2 2 1 1 0.125 2 <b>1</b>
7P218-156 <b>4FU11-044</b> 4FU010-034 4FU017-011 2A017-750-05 2A017-750-06 2A017-879-08 2A017-879-08 2A017-750-07 4FU017-021 4PCS016-160 2A046-120 7A375-375 7C080-150 7C080-140 7K375-100 7K375-040	VAC TEE, 7/32,7/32,5/32 S/C MOUNTING BRKT ASY S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUST SPACER, STUDDED MUST GT SPACER, .750 OD X 2.691 LONG SPACER, .750 OD X 2.712 LONG SPACER, .750 OD X 1.776 LONG SPACER, .750 OD X .097 LONG SPACER, IDLER, MUST GT PULLEY, IDLER BELT, GATES K061203 3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL10.5 M8 X 1.25 X 140 HXHD CL8.8 3/8-16 X 1 G5 HHCS, PLT 5/16 AN WASHER, S.S. 3/8 AN960 FLAT WASHR PLATED	1 1 2 1 1 1 1 1 1 2 7 2	4FU112-010 4FU012-011 7R002-056 7S400-301 7R002-064 8H040-235 8A003-071 7P750-102 7P250-047 4FU010-07 7U032-016 4FU013-010 7C040-008 4FU101-001 5W018-030	0 INLE 5 INLE 5 REDUCER SL 864 H( AIR FILTEF MAF, 3.8 I.E 3/4NPT X 1/4NPT T( 1 BRKT, INT 3/8" EFI FL 0 COVER, AIR M47X81 MAF EXT	A INTAKE ASY T DUCT,"A" T DUCT,"B" DSE CLAMP A X 2, BLUE X 4.00 X 3.5 X 2.35L DSE CLAMP R, 4.0FLG X 7.0L DSE CLAMP CAMPER A VAFLG X 7.0L CAMPER A VAFLG X 7.0L C	<b>1</b> 1 1 2 1 5 1 1 1 1 1 4 1 2 <b>1</b> 1
4FU110-010 7P375-075 7P375-050 7R001-004 7R001-008 7U038-030 7U032-016 7A250-075 7J250-001 7F250-021	<ul> <li>3/8 AN900 PLAT WASHR PLATED</li> <li>P/S RESERVOIR RELOCATIO</li> <li>3/4" HOSE BARB UNION, BRASS</li> <li>3/8" HOSE UNION, BRASS</li> <li>#4 HOSE CLAMP</li> <li>#8 HOSE CLAMP</li> <li>HOSE, P/S, 3/4 ID</li> <li>3/8" EFI FUEL HSE HI-PSR</li> <li>1/4-20 X .75 SHCS PLTD</li> <li>1/4 WASHER, SAE, PLTD</li> <li>1/4-20 NYLOCK NUT ZINC PLATEI</li> <li>P/S RELOC BRKT, 05 GT MUST</li> <li>TIE WRAP, 7.5" NYLON</li> </ul>	N 1 1 2 2 3 3 1 2 0 1	5W018-010 5W018-020 5W018-020 5W018-090 5W018-100 5W001-007 5W001-007 5W001-012	18GA ST 18GA STRD \ 18GA STRD \ 18GA STRD \ 18GA STRD \ 3/16" HEAT 3/8" PLAS	WIRE RED MIRE BLK, UL1015 WIRE BLUE BULK VIRE BROWN BULK O WIRE PURPLE SHRINK TUBING FIC WIRE LOOM T CONN RED INSUL	1 1 1 1 1.5 1.5 12
7U032-016	PCV MOD ASY PCV VALVE, FORD, 3/8" HOSE 5/8" -3/8" REDUCER BARB UNION STEPLESS CLAMP, 17.0-70 STEPLESS CLAMP, 1.0 OD HOSE STEPLESS CLAMP, 28.6 X 7MM W 3/8" EFI FUEL HSE HI-PSR HOSE, 5/8"ID CLASS 1 EMISSION FUEL INJ, 39LB EV6, OEM 03 C SMALL SILVER DIE CUT DEC 3 YR S/C WARRANTY PKG LICENSE PLATE FRAME, VORT	2 3 ID 1 0.25 S 0.6667 COB 8 AL 2 1				
4FU020-010	INSTR MAN 05-08 MUST GT					



## 2007-2008 Mustang GT, Standard Part No. 4FU218-030L/038L PARTS LIST

	aged parts inimediately.						
PART NO.	DESCRIPTION	QTY.	PART NU	MBER	DESCRIPTION	QTY.	
008110 008130	SMALL SILVER DIE CUT DE LICENSE PLATE FRAMI		2 1	5W001-08 7C060-015 7C060-020	5 M6 X 1.0 X 16N	X BRD Ø1.5" NOM. MM SHCS CL10.9+ Z X 20MM HX	0.83 2 2
008447	1 YR S/C WARRANTY P	٨G	1	7J006-094		ASHER S.S.	2
009035	S/C LUBE, BOTTLED, 3-PA		1	7R002-024	#24 H0	DSE CLAMP	3
2F329-010	V3 SUPERCHARGER ASY,		1	7U012-018		IST GT THERM HSG	1
4FU020-010	INSTR MAN 05-08 MUST		1	4FU139-096 7P375-106		FORD, 3/8" HOSE	<b>1</b> 1
4FU110-010	P/S RESERVOIR RELOCAT		1	7P625-377	7 5/8" -3/8" REDI	JCER BARB UNION	1
7P375-075	3/4" HOSE BARB UNION, BRA		1	7R004-002		CLAMP, 17.0-70 AMP, 1.0 OD HOSE	2 3
7P375-050 7R001-004	3/8" HOSE UNION, BRASS #4 HOSE CLAMP		1	7R004-004 7R004-007		MP, 28.6 X 7MM WID	3 1
7R001-008	#8 HOSE CLAMP		2	7U032-016	3/8" EFI FL	IEL HSE HI-PSR	0.25
7U038-030	HOSE, P/S, 3/4 ID		2 2 3 3	7U033-020	,	LASS 1 EMISSIONS	0.6667
7U032-016 7A250-075	3/8" EFI FUEL HSE HI-PSR 1/4-20 X .75 SHCS PLTD		3 1	5A003-035		R, 05-08 MUSTANG	1
7J250-001	1/4 WASHER, SAE, PLTD		2	8F060-048		LB EV6, OEM 03 CO	
7F250-021 4FU010-010	1/4-20 NYLOCK NUT ZINC PLAT P/S RELOC BRKT, 05 GT MUS		1 1	8F101-262 7U032-018		<b>SY,05 MUST TWIN IN1</b> BLE EFI FUEL HOSE	<b>FA 1</b> 2.75
7U100-055	TIE WRAP, 7.5" NYLON	- 1	4	7U100-055	5 TIE WRA	P, 7.5" NYLON	4
4FU111-044	S/C MOUNTING BRKT AS		1	7R004-002		CLAMP, 17.0-70 UEL PUMP '86-'97	2 1
4FU010-044 4FU010-034	S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUS		1 1	8F001-255 7R002-044		OSE CLAMP	1
4FU017-011	SPACER, STUDDED MUST G		2	7R004-006		MP, 11.3 X 5MM WID	4
2A017-750-05	SPACER, .750 OD X 2.691 LON SPACER, .750 OD X 2.712 LON	١G	2 1	5W001-022 5W001-009		NN,14-16 AWG SLIDE INSULATED	2 2
2A017-750-06 2A017-879-08			1	5W001-08	0 FUSE, 20 A	MP. MINI BLADE	1
2A017-750-07	SPACER, .750 OD X .097 LON	IG	1	7P375-099 7U032-025		BARBED TEFLON	1 0.125
4FU017-021 4PCS016-160	SPACER, IDLER, MUST GT PULLEY, IDLER		1 1	70032-023		3/8" CUFF ID, 1' L	2
2A046-120	BELT, GATES K061203		1	4FU101-001		MOD 05+ MUSTANG	1
7A375-375 7C080-150	3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL1	0 9	1 1	5W018-030 5W018-010		RD WIRE GREY RD WIRE RED	1 1
7C080-140	M8 X 1.25 X 140 HXHD CL8.8		2	5W018-010 5W018-020		VIRE BLK, UL1015	1
7A375-100 7K312-030	3/8-16 X 1 G5 HHCS, PLT		7 2	5W018-08			1
7K375-040	5/16 AN WASHER, S.S. 3/8 AN960 FLAT WASHR PLAT	ED	2 10	5W018-090 5W018-100		/IRE BROWN BULK ) WIRE PURPLE	1 1
4FU112-010	AIR INTAKE ASY		1	5W001-00	7 3/16" HEAT-	SHRINK TUBING	1.5
4FU012-010			1 1	5W001-00 5W001-012		TIC WIRE LOOM	1.5 12
4FU012-015 7R002-056	INLET DUCT,"B" #56 HOSE CLAMP		1				
7S400-200	SLEEVE, 4 X 2, BLUE	251	2				
7S400-351 7R002-064	REDUCER SLV 4.00 X 3.5 X 2.3 #64 HOSE CLAMP	JCC	1 5				
8H040-235	AIR FILTER, 4.0FLG X 7.0L		1				
8A003-071 7P750-102	MAF, 3.8 I.D. MUSTANG GT 3/4NPT X 1" X 90° HSE FIT		1 1				
7P250-047	1/4NPT TO 3/8"BARB 90°		1				
4FU010-071 7U032-016	BRKT, INTAKE SUPPORT 3/8" EFI FUEL HSE HI-PSR		1 4				
4FU013-010	COVER, AIR FILTER, MUST C	ЭT	1				
7C040-008	M47X8MM SCHD SS		2				
4FU112-020 4FU012-020	DISCHARGE ASY DUCT. DISCH. MUST GT STI	r	<b>1</b>				
4F0012-020 7S450-200	SLEEVE, 4 1/2 X 2, BLUE		1				
7S300-276	REDUCER, 3.0 X 2.75 X 2.5L	-	1				
7R002-044 7R002-048	#44 HOSE CLAMP #48 HOSE CLAMP		1				
7R002-072	#72 HOSE CLAMP		2				
7R002-016 7U030-046	#16 HOSE CLAMP 5/32" VACUUM LINE		4 5				
8D001-001	STD COMPRESS BYPASS VAL		1				
7U034-016 7U034-016	1" GS HEATER HOSE 1" GS HEATER HOSE		.25 .583				
70034-016 7P218-156	VAC TEE, 7/32,7/32,5/32	0.	.565 1				
4FU114-030	WATER PIPE ASSY, 07-08 MU		1				
	HOUSING, THRMST RÉLC 07 ML		1 1				
4FU014-060	WATER PIPE, Ø1.5 X 90°,07 MU	101	I				



## 2007-2008 Mustang GT, H.O. Part No. 4FU218-040SQ/048SQ PARTS LIST

PART NO.	DESCRIPTION QTY.	PART NU	IMBER	DE	ESCRIPTION	QTY.	
008110	SMALL SILVER DIE CUT DECAL	2	7U030-			DRAIN HOSE	2.5
008130	LICENSE PLATE FRAME	1	7R001- 7P375-			OSE CLAMP 2 BEADED HSE BRB	2 1
008444	3 YR S/C WARRANTY PKG	1	4FU139-			CV MOD ASY	1
2E229-240	V2-S SUPERCHARGER ASY, H.O.	1	7P375-	-106	PCV VALVE	, FORD, 3/8" HOSE	1
4FU020-010	INSTR MAN 05-08 MUST GT	1	7P625- 7R004-			OUCER BARB UNION S CLAMP, 17.0-70	1 2
4FU110-010	P/S RESERVOIR RELOCATION	1	7R004	-004	STEPLESS C	LAMP, 1.0 OD HOSE	3
7P375-075 7P375-050	3/4" HOSE BARB UNION, BRASS 3/8" HOSE UNION, BRASS	1 1	7R004- 7U032-			AMP, 28.6 X 7MM WID UEL HSE HI-PSR	1 0.25
7R001-004	#4 HOSE CLÁMP	2	70033			CLASS 1 EMISSIONS	0.6667
7R001-008 7U038-030	#8 HOSE CLAMP HOSE, P/S, 3/4 ID	2 3	5A001-0	25	D	IABLO MAFIA	1
7U032-016	3/8" EFI FÚEL ÁSE HI-PSR	3 1	5A003-0	35	PREDAT	OR, 05-08 MUSTANG	1
7A250-075 7J250-001	1/4-20 X .75 SHCS PLTD 1/4 WASHER, SAE, PLTD	2	8F060-04	48	FUEL INJ, 3	9LB EV6, OEM 03 COE	8 8
7F250-021	1/4-20 NYLOCK NÚT ZIŃC PLATED	1	8F101-2			SY,05 MUST TWIN INT	
4FU010-010 7U100-055	P/S RELOC BRKT, 05 GT MUST TIE WRAP, 7.5" NYLON	1 4	7U032- 7U100-			SIBLE EFI FUEL HOSE AP. 7.5" NYLON	2.75 4
4FU111-044	S/C MOUNTING BRKT ASY	1	7R004	-002	STEPLES	S ĆLAMP, 17.0-70	2
4FU010-044	S/C MOUNT PLT, MUST GT	1	8F001- 7R002-			FUEL PUMP '86-'97 IOSE CLAMP	1 1
4FU010-034 4FU017-011	IDLER MOUNT PLATE, MUST SPACER, STUDDED MUST GT	1 2	7R004	-006	STEPLESS CL	AMP, 11.3 X 5MM WID	4
2A017-750-05	SPACER, .750 OD X 2.691 LONG	2	5W001 5W001			ONN,14-16 AWG E SLIDE INSULATED	2 2
2A017-750-06 2A017-879-08	SPACER, .750 OD X 2.712 LONG SPACER, .875 OD X 1.776 LONG	1 1	5W001	-080	FUSE, 20 /	AMP. MINI BLADE	1
2A017-750-07	SPACER, .750 OD X .097 LONG	1	7P375- 7U032-			BRRBED TEFLON D,3/8"OD, 1/32" W	1 0.125
4FU017-021 4PCS016-160	SPACER, IDLER, MUST GT PULLEY, IDLER	1	7U032			AL 3/8" CUFF ID, 1' L	2
2A046-120	BELT, GATES K061203	1	8N101-2	90	WEL	DED CORE ASY	1
7A375-375 7C080-150	3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL10.9	1	8N104-1			, 05-08 MUST GT CLR	G 1
7C080-140	M8 X 1.25 X 140 HXHD CL8.8	2	4FE014 5W001			E SLIDE INSULATED	1
7A375-100 7K312-030	3/8-16 X 1 G5 HHCS, PLT 5/16 AN WASHER, S.S.	7 2	5W001			NG TERM .26" HOLE	1
7K375-040	3/8 AN960 FLAT WASHR PLATED	10	5W001 5W001			NDE TYPE 20 AMP ONN,14-16 AWG	1 1
4FU112-010		1	5W001		1/4" PLAS	TIC WIRE LOOM	60
4FU012-010 4FU012-015	INLET DUCT,"A" INLET DUCT,"B"	1 1	5W001 5W001			EL INJ PLUG W/WIRES	1 1
7R002-056	#56 HOSE CLAMP	1	5W018			TRD WIRE RED	5
7S400-200 7S400-351	SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X 2.35L	2 1	7A250- 7A250-			) SHCS ZINC PLTD ) HHCS ZINC PLTD	3 2 2 5 4
7R002-064	#64 HOSE CLAMP	5 1	7A250-			.75 HHCS PLTD	2
8H040-235 8A003-071	AIR FILTER, 4.0FLG X 7.0L MAF, 3.8 I.D. MUSTANG GT	1	7F250- 7J006-			20 HEX NUT SHER, PLATED	5
7P750-102	3/4NPT X 1" X 90° HSE FIT 1/4NPT TO 3/8"BARB 90°	1 1	7J250-			HER, SAE, PLTD	4 1
7P250-047 4FU010-071	BRKT, INTAKE SUPPORT	1	7P156- 7P218-			5/32 TEE E, 7/32,7/32,5/32	1
7U032-016 4FU013-010	3/8" EFI FUEL HSE HI-PSR COVER, AIR FILTER, MUST GT	4 1	7P375- 7P500-			ARB UNION, BRASS 4 BARB 90° BRASS	4 2
7C040-008	M47X8MM SCHD SS	2	7P500-			4 HOSE FIT STRT	2
4FU114-030	WATER PIPE ASSY, 07-08 MUST GT	1	7R002- 7R002-			IOSE CLAMP	4
4FU014-051 H 4FU014-060	HOUSING, THRMST RELC 07 MUST G WATER PIPE, Ø1.5 X 90°,07 MUST	1 1	7R002			IOSE CLAMP	2 2
5W001-085	SLEEVE, FLEX BRD Ø1.5" NOM.	0.83	7R002- 7R003-			OSE CLAMP CLAMP, 1.0"	2 2 1
7C060-015 7C060-020	M6 X 1.0 X 16MM SHCS CL10.9+ Z M6 X 1.0 X 20MM HX	2 2	7R003			1P, 2-3/8" .26 HOLE	2
7J006-094	6MM WASHER S.S.	2	7R007- 7S275-			CHET CLAMP 1-1/8" .75 X 55° SILICONE	16 1
7R002-024 7U012-018	#24 HOSE CLAMP O-RING, 07 MUST GT THERM HSG	3 1	7S450-	-200	SLEÉVE,	4 1/2 X 2, BLUE	1
4FU130-026	OIL FEED ASY	1	7U030- 7U030-			ACUUM LINE	5 1
7U250-090-26	0 OIL FEED HOSE, 26" -4X90°	1	7U034-	-016	1" GS F	IEATER HOSE	1
7P125-005 7P250-091	1/8 NPT STR. X -4 JIC FTG STL 1/4 NPT 90° X -4JIC FTG STL	1 1	7U034- 7U038-			IEATER HOSE EATER HOSE	1.25 12
7P250-034	1/4 NPT X 1/4 NPT STRT T	1	7U038-	-012	HOSE,3/4"E	DIA 90°,4X12 LEGS	1
4FU130-036	OIL DRAIN ASSY	1	7U038-	-020	HOSE, Ø3/4 'S	S' MOLDED RUBBER	1



PART NO.	DESCRIPTION QTY.	
7U038-150 7U100-055 7U375-054 8D001-001 8F001-403 8N010-160 8N010-220 8N055-050 8N056-061	HOSE, 3/4"X150° MOLDED HOSE TIE WRAP, 7.5" NYLON 3/4" VINYL CAP STD COMPRESS BYPASS VALVE PUMP, WATER, BOSCH SURGE TANK BRKT, MUST GT MTG BRKT, 05-07 MUST BOSCH PMP PLASTIC CAP, SURGE TANK SURGE TANK INTEGRA GSR MODIFIE	1 1 1 1 1
8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7F008-020 7J312-000 7A250-051 7J250-001	WATER CLR ASY, MUST GEN.II WATER COOLR, FLDYN DUAL PASS BRACKET, DRVR SIDE CLR MNT,PLT BRACKET, PASS SIDE CLR MNT SPACER,PLT.BRG.HSG.,0.186" M8 X 1.25 X 30 HXHD CL10.9 NUT, M8 X 1.25 5/16 FLAT WASHER-SAE 1/4-20 X .50 HHCS ZINC PLTD 1/4 WASHER, SAE, PLTD	<b>1</b> 1 4 6 12 4 4
8N155-082 4FU010-061 4FU010-091 7A250-074 7F250-074 7F250-021 7J006-093 7P100-076 7P250-045 7P375-050 7R002-010 7R002-010 7R004-002 7U030-056 7U038-000 8N055-080 008341	COOLANT RES RELOC, 07-08 MUST BRKT B, COOL RES RELOC MUST BRKT, COOL RES RELOC, 07 GT 1/4-20 X. 50 HHCS ZINC PLTD 1/4-20 X. 75 HHCS PLTD 1/4-20 NYLOCK NUT ZINC PLATED 6MM WASHER, PLATED HOSE REDUCER, 1"->3/4" PLSTC 1/4 MALE NPT X. 3/8 MALE BARB 3/8" HOSE UNION, BRASS #10 HOSE CLAMP STEPLESS CLAMP, 17.0-70 3/8 PCV/VAC RUBBER HOSE 3/4" HEATER HOSE TANK, RAD OVERFLOW, MUST VORTECH CHARGE COOLER DECAM	1 4 3 10 1 1 2 3 2.5 1.83 1



## 2007-2008 Mustang GT, H.O. Part No. 4FU218-040L/048L PARTS LIST

PART NO.	DESCRIPTION Q	TY.	PART NUI	MBER	DESCRIPTION	QTY.	
008110 008130 008341 008447 009035 2F329-020	SMALL SILVER DIE CUT DEC LICENSE PLATE FRAME, VOR VORTECH CHARGE COOLER D 1 YR S/C WARRANTY PKO S/C LUBE, BOTTLED, VORT 3- V3 SUPERCHARGER ASY, H	TECH ECAL G PACK	2 1 1 1 1	4FU139-09 7P375-10 7P625-33 7R004-00 7R004-00 7R004-00 7R004-00 7U032-0 7U033-02	06 PCV VALV 77 5/8" -3/8" RE 02 STEPLES 04 STEPLESS C 07 STEPLESS C 16 3/8" EFI	PCV MOD ASY E, FORD, 3/8" HOSE DUCER BARB UNION SS CLAMP, 17.0-70 CLAMP, 1.0 OD HOSE LAMP, 28.6 X 7MM WID FUEL HSE HI-PSR O CLASS 1 EMISSIONS	<b>1</b> 1 2 3 1 0.25 0.6667
4FU020-010	INSTR MAN 05-08 MUST G		1	5A001-025	5 1	DIABLO MAFIA	1
4FU110-010 7P375-075 7P375-050 7R001-004 7R001-008 7U038-030 7U032-016 7A250-075 7J250-001 7F250-021 4FU010-010 7U100-055	P/S RESERVOIR RELOCATIO 3/4" HOSE BARB UNION, BRASS 3/8" HOSE UNION, BRASS #4 HOSE CLAMP #8 HOSE CLAMP HOSE, P/S, 3/4 ID 3/8" EFI FUEL HSE HI-PSR 1/4-20 X .75 SHCS PLTD 1/4 WASHER, SAE, PLTD 1/4-20 NYLOCK NUT ZINC PLATE P/S RELOC BRKT, 05 GT MUST TIE WRAP, 7.5" NYLON	S	<b>1</b> 1 2 2 3 3 1 2 1 4	5A003-035 8F060-048 8F101-262 7U032-0 7U100-03 7R004-00 8F001-25 7R002-0 7R002-0 7R004-00 5W001-0 5W001-0	FUEL INJ,           FUEL PMP           18         3/8" SUBMER           55         TIE WF           02         STEPLES           55         255 INTANH           44         #44           06         STEPLESS C           122         T-TAP (           129         16-14GA MA	TOR, 05-08 MUSTANG 39LB EV6, OEM 03 COI ASY,05 MUST TWIN INT SIBLE EFI FUEL HOSE RAP, 7.5" NYLON SS CLAMP, 17.0-70 K FUEL PUMP '86-'97 HOSE CLAMP HOSE CLAMP LAMP, 11.3 X 5MM WID CONN,14-16 AWG LE SLIDE INSULATED	<b>FA 1</b> 2.75 4 2 1 1 4 2 2 2
<b>4FU11-044</b> 4FU010-044 4FU010-034 4FU017-011 2A017-750-05	S/C MOUNTING BRKT AS S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUST SPACER, STUDDED MUST GT		<b>1</b> 1 1 2 2	5W001-0 7P375-09 7U032-03 7U032-03 8N101-290	99 Y-UNION, 3 25 HOSE, 5/16 30 HOSE,SPIR	) AMP. MINI BLADE /8" BARBED TEFLON 5" ID,3/8"OD, 1/32" W AL 3/8" CUFF ID, 1' L <b>:LDED CORE ASY</b>	1 1 0.125 2 <b>1</b>
2A017-750-06 2A017-879-08 2A017-750-07 4FU017-021 4PCS016-160 2A046-120 7A375-375 7C080-150 7C080-140 7A375-100 7K312-030 7K375-040	SPACER, 750 OD X 2.712 LONG SPACER, 875 OD X 1.776 LONG SPACER, 750 OD X 0.097 LONG SPACER, IDLER, MUST GT PULLEY, IDLER BELT, GATES K061203 3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL10 M8 X 1.25 X 140 HXHD CL8.8 3/8-16 X 1 G5 HHCS, PLT 5/16 AN WASHER, S.S. 3/8 AN960 FLAT WASHR PLATER	.9	1 1 1 1 1 1 2 7 2 10	8N104-125 4FE014-( 5W001-0 5W001-0 5W001-0 5W001-0 5W001-0 5W001-0 5W001-0 5W001-0 7A250-09 7A250-09 7A250-00	010         RADIATO           109         16-14GA MA           111         16-14 GA R           125         FUSE, BL           122         T-TAP (           133         1/4" PLA           150         HARNESS, FL           171         FUSE HA           170         HARNESS, FL           171         FUSE HA           150         1/4-20 X .5	S, 05-08 MUST GT CLR R PIPE-STAINLESS LE SLIDE INSULATED ING TERM .26" HOLE ADE TYPE 20 AMP CONN,14-16 AWG STIC WIRE LOOM JEL INJ PLUG W/WIRES DLDER,16GA WIRE STRD WIRE RED 50 SHCS ZINC PLTD 50 HHCS ZINC PLTD K .75 HHCS PLTD	1 1 1 1 60
4FU112-010 4FU012-010 4FU012-015 7R002-056 7S400-200 7S400-351 7R002-064 8H040-235 8A003-071 7P750-102 7P250-047 4FU010-071 7U032-016 4FU013-010 7C040-008 4FU014-051 4FU014-060 5W001-085 7C060-015 7C060-020 7J006-094 7R002-024 7U012-018	AIR INTAKE ASY INLET DUCT,"A" INLET DUCT,"B" #56 HOSE CLAMP SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X 2.35 #64 HOSE CLAMP AIR FILTER, 4.0FLG X 7.0L MAF, 3.8 I.D. MUSTANG GT 3/4NPT X 1" X 90° HSE FIT 1/4NPT TO 3/8"BARB 90° BRKT, INTAKE SUPPORT 3/8" EFI FUEL HSE HI-PSR COVER, AIR FILTER, MUST GT M47X8MM SCHD SS WATER PIPE ASSY, 07-08 MUS HOUSING, THRMST RELC 07 MUS SLEEVE, FLEX BRD Ø1.5" NOM M6 X 1.0 X 16MM SHCS CL10.9+ M6 X 1.0 X 10MM HX 6MM WASHER S.S. #24 HOSE CLAMP O-RING, 07 MUST GT THERM HS	<b>T GT</b> T G T . ( Z	<b>1</b> 1 1 2 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	7F250-02 7J006-09 7J250-00 7P156-08 7P218-11 7P375-00 7P500-02 7F002-00 7R002-00 7R002-00 7R002-00 7R002-00 7R002-00 7R002-00 7R003-00 7R003-00 7R003-00 7U030-00 7U034-00 7U038-00 7U038-00 7U038-00	20         1/4           33         6MM W           301         1/4 WAS           32         56           56         VAC TE           75         3/4" HOSE F           26         1/2NPT X           78         1/2NPT X           78         1/2NPT X           76         4/4           72         #72           16         ADEL           28         ADEL CLA           01         NYLON RA           55         ELBOW, ØZ           00         SLEEVE           46         5/32"           65         3/4"X90° RU           16         1" GS           16         1" GS           16         1" GS           17         HOSE,3/4"	A.7.5 HITCS FET 20 HEX NUT ASHER, PLATED SHER, SAE, PLTD 5/32 TEE E, 7/32,7/32,5/32 BARB UNION, BRASS 3/4 HOSE FIT STRT HOSE CLAMP HOSE CLAMP	2254114224222121611511511 1.2212121611151115111511151115111511151115



PART NO.	DESCRIPTION	QTY.	PART NUMBER	DESCRIPTION	QTY.
7U038-150 7U100-055 7U375-054 8D001-001 8F001-403 8N010-160 8N010-220 8N055-050 8N055-050	HOSE, 3/4"X150° MOLDED HOS TIE WRAP, 7.5" NYLON 3/4" VINYL CAP STD COMPRESS BYPASS VALV PUMP, WATER, BOSCH SURGE TANK BRKT, MUST G MTG BRKT, 05-07 MUST BOSCH PLASTIC CAP, SURGE TANK SURGE TANK INTEGRA GSR MOI	/E T PMP	1 6 1 1 1 1 1		
8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7F008-020 7J312-000 7A250-051 7J250-001	WATER CLR ASY, MUST GI WATER COOLR, FLDYN DUAL P BRACKET, DRVR SIDE CLR MNT BRACKET, PASS SIDE CLR MN SPACER, PLT.BRG.HSG.,0.186 M8 X 1.25 X 30 HXHD CL10.9 NUT, M8 X 1.25 5/16 FLAT WASHER-SAE 1/4-20 X .50 HHCS ZINC PLTE 1/4 WASHER, SAE, PLTD	ASS .PLT IT "	<b>1</b> 1 1 4 6 6 12 4 4		
8N155-082 4FU010-091 7A250-051 7A250-074 7F250-021 7J006-093 7P100-076 7P250-045 7P375-050 7R002-010 7R004-002 7U030-056 7U038-000 8N055-080	COOLANT RES RELOC, 07-08 BRKT B, COOL RES RELOC MU BRKT, COOL RES RELOC, 07 ( 1/4-20 X .50 HHCS ZINC PLTD 1/4-20 NYLOCK NUT ZINC PLAT 6MM WASHER, PLATED HOSE REDUCER, 1"->3/4" PLS' 1/4 MALE NPT X 3/8 MALE BAF 3/8" HOSE UNION, BRASS #10 HOSE CLAMP STEPLESS CLAMP, 17.0-70 3/8 PCV/VAC RUBBER HOSE 3/4" HEATER HOSE TANK, RAD OVERFLOW, MUS	IST GT ED FC RB	<b>1</b> 1 4 3 3 10 1 1 2 3 2.5 1.83 1		



## 2008 Mustang Bullitt Part No. 4FU218-050L/058L PARTS LIST

ENGINEERING, LLC

PART NO.	DESCRIPTION QTY	. Par	T NUMBER	DESCRIPTION	QTY.	
2F329-070	V3 SUPERCHARGER ASY	1	7C040-0	008 M47X8	MM SCHD SS	2
008110	SMALL SILVER DIE CUT DECA	L 2	4FU114-0		ASSY, 07-08 MUST G	
008130	LICENSE PLATE FRAME	1	4FU014 4FU014		MST RELC 07 MUST G Ø1.5 X 90°,07 MUST	1
008341	CHARGE COOLER DECAL	1	5W001-	-085 SLEEVE, FLE	EX BRD Ø1.5" NOM.	0.83
008447	1 YR S/C WARRANTY PKG	1	7C060-0 7C060-0		MM SHCS CL10.9+ Z .0 X 20MM HX	2 2
009035	S/C LUBE, BOTTLED, 3-PACK	1	7J006-0		VASHER S.S.	2
4FU020-010	INSTR MAN 05-08 MUST GT	1	7R002-0 7U012-0	024 #24 H	OSE CLAMP UST GT THERM HSG	2 3 1
4FU110-010	P/S RESERV RELOC MUST GT		4FU139-0		IOD ASSY, 05 GT	1
7P375-075 7P375-050	3/4" HOSE BARB UNION, BRASS 3/8" HOSE UNION. BRASS	1 1	7P375-	106 PCV VALVE	, FORD, 3/8" HOSE	1
7R001-004	#4 HOSE CLAMP	2	7P625-3	377 5/8" -3/8" RED	UCER BARB UNION	1
7R001-008	#8 HOSE CLAMP	2 2 3	7R004-( 7R004-(		S CLAMP, 17.0-70 LAMP, 1.0 OD HOSE	2 3
7U038-030 7U032-016	HOSE, P/S, 3/4 ID 3/8" EFI FUEL HSE HI-PSR	3	7R004-0	007 STEPLESS CL	AMP, 28.6 X 7MM WID	1
7A250-075	1/4-20 X .75 SHCS PLTD	1	7U032-0		UEL HSE HI-PSR	0.25
7J250-001 7F250-021	1/4 WASHER, SAE, PLTD 1/4-20 NYLOCK NUT ZINC PLATED	2 1	7U033-( <b>5A001-02</b>		CLASS 1 EMISSIONS	0.6667 <b>1</b>
4FU010-010	P/S RELOC BRKT	1	5A001-02		•	1
7U100-055	TIE WRAP, 7.5" NYLON	4			OR, 05-08 MUSTANG	
4FU111-051 4FU010-044	S/C MTG BRKT ASSY, V-PWR S/C MOUNT PLT	<b>1</b> 1	8F060-06 8F101-26		60 LB LONG, US CAR,	
4FU010-034	IDLER MOUNT PLATE	1	7U032-0		ISY,05 MUST TWIN INT	2.75
4FU017-041	SPCR, STD BLT BRNG PLT 1.597"	2	7U100-0	055 TIE WRA	AP, 7.5" NYLON	4
2A017-750-05 2A017-750-06		2 1	7R004-0 8F001-2		S CLAMP, 17.0-70 FUEL PUMP '86-'97	2 1
2A017-879-07	SPACER, .875 OD X 1.597 LNG	1	7R002-0		OSE CLAMP	1
2A017-750-07 4FU017-031	SPACER, .750 OD X .097 LONG SPACER, IDLR 10D X .375 ID X .	1 1	7R004-0		AMP, 11.3 X 5MM WID	4
4FU016-021	PULLEY, IDLR 3.5" 8-RIB (SMOOT	1	5W001- 5W001-		ONN,14-16 AWG E SLIDE INSULATED	2 2
2A048-121	BELT, DAYCO-5081213, 8-RIB	1	5W001-	-080 FUSE, 20 /	AMP. MINI BLADE	1
7A375-375 7C080-150	3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL10.9	1 1	7P375-0 7U032-0		" BARBED TEFLON ID,3/8"OD, 1/32" W	1 0.125
7C080-140	M8 X 1.25 X 140 HXHD CL8.8		70032-0		L 3/8" CUFF ID, 1' L	2
7A375-100 7A375-124	3/8-16 X 1 G5 HHCS, PLT	2 2 5 5 2	8N104-16	SUPPORT P	CS, LG, 05+ MUST GT	V 1
2A017-878-08	3/8-16 X 1-1/4 HHCS, G5, PLATE SPACER, 8750D X .406 ID X .280	5	4FE014		PIPE-STAINLESS	1
7K312-030	5/16 AN WASHER, S.S.	2	5W001- 5W001-		E SLIDE INSULATED	1 1
7K375-040 4FR016-021	3/8 AN960 FLAT WASHR PLATED PULLEY,8 RIB A/C PLY 03 COBRA	10 1	5W001-	-015 FUSE, BLA	DE TYPE 20 AMP	1
4FR016-031	PULLÉY, 8 RIB P/S 03 COBRA	1	5W001- 5W001-		DNN,14-16 AWG TIC WIRE LOOM	1 60
4FR016-041 4FU016-011	DAMPER, CRANK, 8 RIB 03 COBRA PULLEY, FORD, ALT, 8-RIB, 2.5" OD	\ 1 1	5W001-		EL INJ PLUG W/WIRES	1
7G016-150	NUT, M16 X 1.50 FLANGED	1	5W001- 5W018-		.DER,16GA WIRE TRD WIRE RED	1
4FU016-021	PULLEY, IDLR 3.5" 8-RIB (SMOOT PULLEY, IDLR 3.5" 8-RIB (RIBD)	2 1	7A250-0		SHCS ZINC PLTD	3
4FU016-041 2A017-882-02		3	7A250-0		HHCS ZINC PLTD	2
	4 SPACER .75"OD X .328"ID X.140"	3 3 3	7A250-0 7F250-0		.75 HHCS PLTD 0 HEX NUT	5 3 2 2 2
7C080-041 7J312-000	M8 X 1.25 X 40 HXHD ZINC 5/16 FLAT WASHER-SAE	3	7J006-0	093 6MM WA	SHER, PLATED	5
4FU116-031	IDLER ASSY, 3" 8-RIB (SMOOTH)	1	7J250-0 7P156-0		HER, SAE, PLTD /32 TEE	4 1
4FU112-010	AIR INLET ASSY, 05 MUST GT		7P175-1	100 COMP BYPA	SS "Y", 1.75 X 1.00	1
4FU012-010 4FU012-015	INLET DUCŤ,"A" INLET DUCT,"B"	1 1	7P218-1		E, 7/32,7/32,5/32	1
7R002-056	#56 HOSE CLAMP	1	7P375-0 7P500-0		ARB UNION, BRASS 4 BARB 90° BRASS	4 3 1
7\$400-200	SLEEVE, 4 X 2, BLUE	2	7P500-0	078 1/2NPT X 3/	4 HOSE FIT STRT	
7S400-351 7R002-064	REDUCER SLV 4.00 X 3.5 X 2.35L #64 HOSE CLAMP	1 5	7P750-* 7R002-(		1" X 90° HSE FIT OSE CLAMP	1 10
8H040-235	AIR FILTER, 4.0FLG X 7.0L	1	7R002-0	024 #24 H	OSE CLAMP	2
8A003-071 7P750-102	MAF, 3.8 I.D., 05 MUSTANG GT, 3/4NPT X 1" X 90° HSE FIT	1 1	7R002-0 7R002-0		OSE CLAMP OSE CLAMP	2 2 1
7P250-047	1/4NPT TO 3/8"BARB 90°	1	7R002-0 7R002-0		OSE CLAMP	1
4FU010-071	BRKT, INTAKE SUPPORT	1	7R002-0	072 #72 H	OSE CLAMP	2 1
7U032-016 4FU013-010	3/8" EFI FUEL HSE HI-PSR COVER, AIR FILTER, MUST GT	4 1	7R003-( 7R003-(		CLAMP, 1.0" IP, 2-3/8" .26 HOLE	1 2
010-010		ı	1 KUU3-1	UZU ADEL GLAIV	11, 2-3/0 .20 HULE	2



### 2008 Mustang Bullitt cont'd Part No. 4FU218-050L/058L

# **PARTS LIST**

ENGINEERING, LLC

PART NO.	DESCRIPTION	QTY.
7R007-001 7S175-400 7S300-055 7S450-200 7U030-046 7U030-065 7U038-000 7U038-012 7U038-150 7U100-055 7U375-054 8D204-001 8F001-403 8N010-160 8N010-220 8N055-050 8N055-050	NYLON RATCHET CLAM SLEEVE, Ø1.75" X 4", SLEEVE, 3.0 X 55 SILH SLEEVE, 4 1/2 X 2, B 5/32" VACUUM LIN 3/4"X90° RUBBER HOSE 1" GS HEATER HOS 3/4" HEATER HOS 3/4" HEATER HOS 3/4" HEATER HOS 3/4" TIA 90°,4X12 HOSE, 3/4"X150° MOLDE TIE WRAP, 7.5" NYL 3/4" VINYL CAP RACE BYPASS VALVE-BLI PUMP, WATER, BOS SURGE TANK BRKT, MI MTG BRKT, 05-07 MUST BO PLASTIC CAP, SURGE SURGE TANK	BLUE         1           CONE         1           CONE         1           IE         5           , SHORT         1           SE         3           IE         12           LEGS         2           D HOSE         1           UE/SATIN         1           SCH         1           JST GT         1           DSCH PMP         1
8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7F008-020 7J312-000 7A250-051 7J250-001	WATER CLR ASY, 05 M WATER COOLR, FLDYN DI BRACKET, DRVR SIDE CLF BRACKET, PASS SIDE C SPACER, PLT.BRG.HSG M8 X 1.25 X 30 HXHD ( NUT, M8 X 1.25 5/16 FLAT WASHER 1/4-20 X .50 HHCS ZIN( 1/4 WASHER, SAE, F	UAL PASS 1 R MNT,PLT 1 ,0.186" 4 CL10.9 6 SAE 12 C PLTD 4
8N155-082 4FU010-061 4FU010-091 7A250-051 7A250-074 7F250-021 7J006-093 7P100-076 7P250-045 7P375-050 7R002-010 7R002-010 7R004-002 7U030-056 7U038-000 8N055-080 8N201-200	COOLANT RES RELOC, BRKT B, COOL RES RELO BRKT, COOL RES RELO 1/4-20 X .50 HHCS ZINO 1/4-20 X .75 HHCS P 1/4-20 NYLOCK NUT ZINO 6MM WASHER, PLA HOSE REDUCER, 1"->3/4 1/4 MALE NPT X 3/8 MAL 3/8" HOSE UNION, BF #10 SAE TYPE F SS HOS STEPLESS CLAMP, 17 3/8 PCV/VAC RUBBER 3/4" HEATER HOS TANK, RAD OVERFLOW CAC ASSY, LARGE, 05+	DC MUST         1           C, 07 GT         1           C PLTD         4           'LTD         3           C PLATED         3           TED         10           'PLSTC         1           LE BARB         1           RASS         1           E CLAMP         2           7.0-70         3           HOSE         2.5           E         1.83           /, MUST         1



## 2010 Mustang GT, Standard Part No. 4FU218-080L/088L PARTS LIST

ENGINEERING, LLC

PART NO.	DESCRIPTION	QTY. PAR		DESCRIPTION	QTY.	
008110 008130 008447	SMALL SILVER DIE CUT D LICENSE PLATE FRAM 1 YR S/C WARRANTY P	IE 1 VKG 1	7C060-015 7C060-020 7J006-094 7R002-024 7U012-018	M6 X 1 6MM V #24 H	MM SHCS CL10.9+ Z .0 X 20MM HX VASHER S.S. OSE CLAMP JST GT THERM HSG	2 2 3 1
009035 2F329-010 4FU020-010 4FU010-101 7A250-075 7F250-021 7J250-001 7P375-050 7P375-075 7R004-002 7R004-007 7U032-016 7U038-030 4FU111-044 4FU010-034 4FU010-034 4FU010-034 4FU017-750-05 2A017-750-05 2A017-750-06 2A017-750-06 2A017-750-07 4FU017-021 4PCS016-160 2A046-120 7A375-375 7C080-150 7C080-140 7A375-100 7K312-030	SPACER, .750 OD X 2.712 LC SPACER, .875 OD X 1.776 LC SPACER, .750 OD X .097 LOI SPACER, IDLER, MUST G PULLEY, IDLER BELT, GATES K061203 3/8-16 X 3-3/4 HX HD M8 X 1.25 X 150MM HXHD CL M8 X 1.25 X 140 HXHD CL8 3/8-16 X 1 G5 HHCS, PLT 5/16 AN WASHER, S.S.	STD         1           GT         1           GT         1           I         1           I         1           I         1           I         2           I         2           I         3           I         4           I         4           SS         2           I         4           SSS         2           I         4           ST         1           ST         2           ING         1           ING         1           ING         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1           I         1          I         1<	4FU139-096 7P375-106 7P625-377 7R004-002 7R004-002 7R003-016 7U032-016 7U033-020 5A003-035 8F060-048 8F101-262 7U032-018 7U100-055 7R004-002 8F001-255 7R004-002 8F001-255 7R002-044 7R002-044 7R002-044 7R002-044 7R002-044 7R002-044 7R002-044 7R002-044 7R002-044 7R002-045 5W001-022 5W001-022 5W001-022 5W001-022 5W001-022 5W001-022 5W001-022 5W001-022 5W018-030 5W018-030 5W018-030 5W018-030 5W018-030 5W018-030 5W018-030	PCV VALVE, 5/8" -3/8" RED STEPLESS CL STEPLESS CL 3/8" EFI FI HOSE, 5/8"ID ( <b>PREDATO</b> <b>FUEL INJ, 3</b> <b>FUEL PMP A</b> 3/8" SUBMERS TIE WRA STEPLESS 255 INTANK #44 H STEPLESS CL T-TAP CO 16-14GA MALI FUSE, 20 / Y-UNION, 3/8 HOSE, 5/16" HOSE, 5/16" HOSE, 5/16" HOSE, S/16" HOSE, S/16" HOS	CV MOD ASY FORD, 3/8" HOSE UCER BARB UNION S CLAMP, 17.0-70 LAMP, 10. OD HOSE AMP, 28.6 X 7MM WID UEL HSE HI-PSR CLASS 1 EMISSIONS DR, 05-08 MUSTANG 9LB EV6, OEM 03 COE SY,05 MUST TWIN INT IBLE EFI FUEL HOSE AP, 7.5" NYLON S CLAMP, 17.0-70 FUEL PUMP '86-'97 OSE CLAMP AMP, 11.3 X 5MM WID DNN, 14-16 AWG E SLIDE INSULATED AMP. MINI BLADE "" BARBED TEFLON ID,3/8"OD, 1/32" W LI, 3/8" CUFF ID, 1' L MOD 05+ MUSTANG RD WIRE GREY "RD WIRE BLUE BULK WIRE BLUE BULK	1 1 2 3 1 0.25 0.6667 1 3 8 7 1 2.75 4 2 1 1 0.125 2 1 0.125 2 1 0.125 2 1 1 0.125 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1
7K375-040 4FU012-010 4FU012-015 7R002-056 7S400-200 7S400-351 7R002-064 8H040-235 8A003-071 7P750-102 7P250-047 4FU010-071 7U032-016 4FU013-010 7C040-008 4FU112-020 7S450-200 7S450-200 7S300-276 7R002-048 7R002-048 7R002-072 7R002-016 7U030-046 8D001-001 7U034-016 7P218-156 4FU114-030 4FU014-051 4FU014-060 5W001-085	3/8 AN960 FLAT WASHR PLAT AIR INTAKE ASY INLET DUCT,"A" INLET DUCT,"B" #56 HOSE CLAMP SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X 2 #64 HOSE CLAMP AIR FILTER, 4.0FLG X 7.00 MAF, 3.8 I.D. MUSTANG G 3/4NPT X 1" X 90° HSE FIT 1/4NPT TO 3/8"BARB 90° BRKT, INTAKE SUPPORT 3/8" EFI FUEL HSE HI-PSF COVER, AIR FILTER, MUST M47X8MM SCHD SS <b>DISCHARGE ASY</b> DUCT, DISCH, MUST GT ST SLEEVE, 4 1/2 X 2, BLUE REDUCER, 3.0 X 2.75 X 2.5 #44 HOSE CLAMP #16 HOSE CLAMP #16 HOSE CLAMP #16 HOSE CLAMP #16 HOSE CLAMP 5/32" VACUUM LINE STD COMPRESS BYPASS VA 1" GS HEATER HOSE 1" GS HEATER HOSE 1" GS HEATER HOSE VAC TEE, 7/32,7/32,5/32 WATER PIPE ASSY, 07-08 M HOUSING, THRMST RELC 07 M WATER PIPE, Ø1.5 X 90°,07 M SLEEVE, FLEX BRD Ø1.5" NO	1 1 1 1 2 35L 1 5 - 1 1 4 GT 1 1 4 GT 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5W018-100 5W001-005 5W001-012	3/16" HEAT 3/8" PLAS	D WIRE PURPLE -SHRINK TUBING TIC WIRE LOOM T CONN RED INSUL	1 1.5 1.5 12



## 2010 Mustang GT, H.O. Part No. 4FU218-100L/108L PARTS LIST

ENGINEERING, LLC

PART NO.	DESCRIPTION QTY.	PART N	UMBER	DESCRIPTION	QTY.	
008110 008130 008341 008447 009035 2F329-020	SMALL SILVER DIE CUT DECAL LICENSE PLATE FRAME, VORTEC VORTECH CHARGE COOLER DEC/ 1 YR S/C WARRANTY PKG S/C LUBE, BOTTLED, VORT 3-PAC V3 SUPERCHARGER ASY, H.O.	AL 1 1	4FU139-( 7P375- 7P625- 7R004- 7R004- 7R004- 7R004- 7U032- 7U033-	106         PCV VALVI           377         5/8" -3/8" RE           002         STEPLES           004         STEPLESS           007         STEPLESS           007         STEPLESS           006         3/8" EFI	PCV MOD ASY E, FORD, 3/8" HOSE DUCER BARB UNION SS CLAMP, 17.0-70 CLAMP, 1.0 OD HOSE AMP, 28.6 X 7MM WID FUEL HSE HI-PSR CLASS 1 EMISSIONS	<b>1</b> 1 2 3 1 0.25 0.6667
4FU020-010	INSTR MAN 05-10 MUST GT	1	5A001-02	25 E	DIABLO MAFIA	1
4FU110-101 4FU010-101 7A250-075 7F250-021 7J250-001 7P375-050 7P375-075 7R004-002 7R004-007 7U032-016 7U038-030 4FU111-044	P/S RELOCATE ASSY BRACKET P/S 2010 GT 1/4-20 X .75 SHCS PLTD 1/4-20 NYLOCK NUT ZINC PLATED 1/4 WASHER, SAE, PLTD 3/8" HOSE UNION, BRASS 3/4" HOSE BARB UNION, BRASS STEPLESS CLAMP, 17.0-70 STEPLESS CLAMP, 28.6 X 7MM WID 3/8" EFI FUEL HSE HI-PSR HOSE, P/S, 3/4 ID S/C MOUNTING BRKT ASY	1 1 2 1 2 2 4 3FT 4FT <b>1</b>	5A003-03 8F060-04 8F101-26 7U032- 7U100- 7R004- 8F001-2 7R004- 5W001- 5W001- 5W001-	I8         FUEL INJ,           52         FUEL PMP           018         3/8" SUBMER           055         TIE WF           002         STEPLES           255         255 INTANH           044         #44           006         STEPLESS C           -022         T-TAP C           -009         16-14GA MA	TOR, 05-08 MUSTANG 39LB EV6, OEM 03 COI ASY,05 MUST TWIN INT SIBLE EFI FUEL HOSE RAP, 7.5" NYLON 3S CLAMP, 17.0-70 ( FUEL PUMP '86-'97 HOSE CLAMP LAMP, 11.3 X 5MM WID CONN,14-16 AWG LE SLIDE INSULATED AMP MINI BI ADE	<b>A 1</b> 2.75 4 2 1 1 4 2 2 2
4FU010-044 4FU010-034 4FU017-011 2A017-750-05 2A017-750-06	S/C MOUNT PLT, MUST GT IDLER MOUNT PLATE, MUST SPACER, STUDDED MUST GT SPACER, .750 OD X 2.691 LONG SPACER, .750 OD X 2.712 LONG SPACER, .875 OD X 1.776 LONG SPACER, .750 OD X .097 LONG SPACER, IDLER, MUST GT	1 1 2 2 1 1 1 1 1 1 2 7 2 10	5W001. 7P375-1 7U032- 7U032- 8N101-29 8N104-12 4FE014 5W001. 5W001. 5W001. 5W001. 5W001. 5W001. 5W001. 5W001. 5W001. 5W001. 5W001.	099         Y-UNION, 3,           025         HOSE, 5/16           030         HOSE, SPIR           00         WE           25         SUPRT PC           14-010         RADIATOI           -009         16-14 GA MA           -011         16-14 GA RI           -015         FUSE, BL           -022         T-TAP C           -032         1/4" PLA           -050         HARNESS, FU           -071         FUSE HC           -071         18GA S           050         1/4-20 X .5	AMP. MINI BLADE (8" BARBED TEFLON (8" BARBED TEFLON (9" ID,3/8" OD, 1/32" W AL 3/8" CUFF ID, 1' L LDED CORE ASY (5, 05-08 MUST GT CLR R PIPE-STAINLESS LE SLIDE INSULATED NG TERM .26" HOLE ADE TYPE 20 AMP CONN,14-16 AWG STIC WIRE LOOM EL INJ PLUG W/WIRES DLDER,16GA WIRE STRD WIRE RED 0 SHCS ZINC PLTD	1 1 1 60 1 1 5
4FU112-010 4FU012-015 7R002-056 7S400-200 7S400-351 7R002-064 8H040-235 8A003-071 7P750-102 7P250-047 4FU010-071 7U032-016 4FU013-010 7C040-008 4FU114-030 4FU014-051 4FU014-051 4FU014-051 7C060-015 7C060-015 7C060-020 7J006-094 7R002-024 7U012-018	AIR INTAKE ASY INLET DUCT,"A" INLET DUCT,"B" #56 HOSE CLAMP SLEEVE, 4 X 2, BLUE REDUCER SLV 4.00 X 3.5 X 2.35L #64 HOSE CLAMP AIR FILTER, 4.0FLG X 7.0L MAF, 3.8 I.D. MUSTANG GT 3/4NPT X 1" X 90° HSE FIT 1/4NPT TO 3/8"BARB 90° BRKT, INTAKE SUPPORT 3/8" EFI FUEL HSE HI-PSR COVER, AIR FILTER, MUST GT M47X8MM SCHD SS WATER PIPE ASSY, 07-08 MUST G HOUSING, THRMST RELC 07 MUST G WATER PIPE, Ø1.5 X 90°,07 MUST SLEEVE, FLEX BRD Ø1.5" NOM. M6 X 1.0 X 16MM SHCS CL10.9+ Z M6 X 1.0 X 20MM HX 6MM WASHER S.S. #24 HOSE CLAMP O-RING, 07 MUST GT THERM HSG	1 1 1 2 1 5 1 1 1 1 1 1 2 T 1 0.83 2 2 3 1	7A250- 7A250- 7F250- 7J006-( 7J156- 7P218- 7P500- 7P500- 7R002- 7R002- 7R002- 7R002- 7R003- 7R003- 7R003- 7R003- 7R003- 7R003- 7U030- 7U030- 7U030- 7U034- 7U038- 7U038- 7U038- 7U038-	074         1/4-20 >           020         1/4.           093         6MM W           001         1/4 WAS           082         1/4 WAS           085         VAC TE           075         3/4" HOSE E           026         1/2NPT X 3           078         1/2NPT X 3           076         3/4" #44           072         #72           016         ADE           028         ADEL CLA           001         NYLON RAZ           055         ELBOW, ØZ           046         5/32"           065         3/4"X90° RU           016         1" GS           000         3/4" HOSE, 3/4"	0 HHCS ZINC PLTD (.75 HHCS PLTD 20 HEX NUT ASHER, PLATED 5/32 TEE E, 7/32,7/32,5/32 3ARB UNION, BRASS 3/4 HOSE FIT STRT HOSE CLAMP HOSE CLAMP TORE CLAMP HOSE CLAMP H	3 2 2 2 5 4 1 1 4 2 2 4 2 2 2 1 2 16 1 1 5 1 1 25 1 1 1.22 1 2 1 2 16 1 1 5 1 1 1.22 1 1



## 2010 Mustang GT, H.O. cont'd Part No. 4FU218-108L/108L PARTS LIST

PART NO.	DESCRIPTION	QTY.	PART NU	MBER	DESCRIPTION	QTY.	
7U038-150 7U375-054 8D001-001 8F001-403 8N010-160 8N010-220 8N055-050 8N056-061 8N106-135 8N006-020 8N010-171 8N010-173 2A017-036 7C080-030 7J312-000 7J312-000 7J312-000 7J312-000 7J312-000 7J312-000 7J312-000 7J312-000 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7A250-051 7B004-002 7U030-056 7U038-000 8N055-080 8N104-127 4FE014-010 5W001-015 5W001-015 5W001-032	HOSE, 3/4"X150° MOLDED TIE WRAP, 7.5" NYLO 3/4" VINYL CAP STD COMPRESS BYPASS PUMP, WATER, BOSC SURGE TANK BRKT, MUS MTG BRKT, 05-07 MUST BOS PLASTIC CAP, SURGE T SURGE TANK INTEGRA GSR WATER CLR ASY, MUS WATER COOLR, FLDYN DU/ BRACKET, DRVR SIDE CLE BRACKET, DRVR SIDE CLE SPACER, PLT.BRG.HSG.,C M8 X 1.25 X 30 HXHD CL NUT, M8 X 1.25 5/16 FLAT WASHER, SA 1/4-20 X. 50 HHCS ZINC 1 1/4 WASHER, SAE, PL COOLANT RES RELOC, 0 BRKT B, COOL RES RELOC BRKT COOL RES RELOC BRKT COOL RES RELOC 0 BRKT B, COOL RES RELOC 0 BRKT B, COOL RES RELOC 1/4-20 X. 50 HHCS ZINC 1 1/4-20 X. 50 HHCS ZINC 1 1/4-20 X. 75 HHCS PLT 1/4-20 REDUCER, 1"->3/4" 1/4 MALE NPT X 3/8 MALE 3/8" HOSE UNION, BRA #10 HOSE CLAMP STEPLESS CLAMP, 17.C 3/8 PCV/VAC RUBBER H 3/4" HEATER HOSE TANK, RAD OVERFLOW, SUPRT PCS, 2010 MUST RADIATOR PIPE-STAINL 16-14 GA RING TERM .26" FUSE, BLADE TYPE 20 / T-TAP CONN, 14-16 AW 1/4" PLASTIC WIRE LO HARNESS, FUEL INJ PLUG V	HOSE N VALVE H ST GT CH PMP ANK MODIFIE T GEN.II AL PASS MNT.PLT R MNT .186" .10.9 AE PLTD TD 7-08 MUST OT PLTD TD VLATED D PLSTC BARB SS I-70 OSE MUST GT CLR ESS LATED HOLE AMP I'G OM	1 6 1 1 1 1 1 1 1 1 1 1 1 4 6 6 12 4 4	7S450-200 7U030-046 7U030-065 7U034-016 7U038-012 7U038-020 7U038-020 7U038-150 7U100-055 7U375-054 8D001-001 8N010-340 7L133-060 7A250-376 7F250-021 7F008-023 7A250-376 7F250-021	SLEEVE, 4 1/2 5/32" VACU HOSE, 3/4 X 90° R 1" GS HEAT 3/4" HEATE HOSE, 3/4 DIA 90 HOSE, 3/4 DIA 90 HOSE, 3/4 DIA 'S'M HOSE, 3/4 D X 150° TIE WRAP, 7 3/4" VINY STD COMPRESS PUMP, WATE SURGE TANK BRH PLASTIC CAP, S SURGE TANK INTEG MTG BRKT 2010 MU 3/4" X 90° HOSE 1/4-20 X 3/4 SHOUI 1/4-20 NYLOCK NU M8 X 1.25 X	2 X 2, BLUE UM LINE UBBER, SHORT ER HOSE ER HOSE R HOSE ", 4 X 12 LEGS MOLDED RUBBE MOLDED HOSE 5" NYLON L CAP BYPASS VALVE R, BOSCH T, 05 MUST GT SURGE TANK RA GSR MODIFIE ST GT BOSCH PM 5"X3.5" LEGS DER SHCS NYL T ZINC PLATED 75 STUD X .880 LONG WASHERS VYLOCK NUT DER SHCS NYL	1 5FT 1 1ETT 1.25FT 12FT 1 1 1 1 1 1 1 1 1 1 2 2 4 4 4 8 2 2
50001-050 5001-050 7A250-050 7A250-051 7A250-051 7A250-074 7F250-020 7J006-093 7J250-001 7P156-082 7P218-156 7P375-075 7P500-026 7P500-078 7R002-016 7R002-024 7R002-024 7R002-024 7R003-016 7R003-028 7R007-001 7S275-055	FUSE HOLDER, 16GA W FUSE HOLDER, 16GA W 18GA STRD WIRE RE 1/4-20 X .50 SHCS GR8 ZII 1/4-20 X .50 HHCS GR5 ZII 1/4-20 HEX NUT 6MM WASHER, PLATE 1/4 WASHER, SAE, PL 5/32 TEE VAC TEE, 7/32,7/32,5/3 3/4" HOSE BARB UNION, E 1/2NPT X 3/4 BARB 90° BI 1/2NPT X 3/4 HOSE FIT S #16 SAE TYPE F SS HOSE #24 SAE TYPE F SS HOSE #24 SAE TYPE F SS HOSE #44 SAE TYPE F SS HOSE #72 SAE TYPE F SS HOSE ADEL CLAMP, 2-3/8" .26 H NYLON RATCHET CLAMP ELBOW, °2.75 X 55° SILIC	IRE D IC PLT IC PLT TD ID ID ID ID IC IC IC IC IC IC IC IC IC IC IC IC IC	-1 5FT 32225411522422212811				

#### 1. **PREPARATION/REMOVAL**

- A. Disconnect the battery before proceeding.
- B. Loosen the hose clamp at the throttle body. Disconnect the plastic 3/8" tube assembly attached to the passenger's side valve cover. Remove the plastic 3/8" x 90° connector from the plastic tube that was connected at the passenger's side valve cover. Set this connector aside to be re-used in a later step. Discard the remainder of the hose assembly, as it will not be re-used. (See Fig. 1-c.)

NOTE: The preferred method of removing the 90° connector from its original plastic tube is to apply a small amount of heat to the tube and slide the connector free.

- C. Disconnect the mass air flow (MAF) sensor plug and remove the inlet duct and upper air filter cover from the car if applicable. (See Figs. 1-a, 1-b, 1-c.)
- D1. Remove the 10mm headed bolt (located next to the inner fender) which secures the lower portion of the air filter enclosure. Remove the lower portion from the car - it will not be reused. (See Fig. 1-d.)
- D2. (Bullitt Only) Remove silver nut washer securing the front of the intake shroud. (see Fig 1-d1.)
- E. Remove the six plastic push pins securing the radiator cover. Remove the cover and set aside to be reinstalled later. (See Fig. 1-e.)

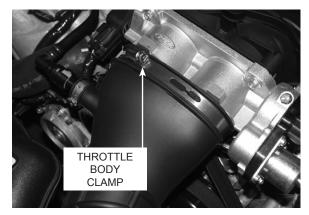


Fig. 1-a



Fig. 1-b





Fig. 1-d1 (Bullitt Only)



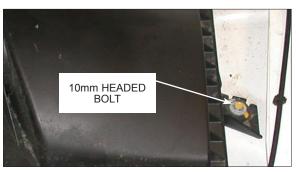


Fig. 1-d

### 1. PREPARATION/REMOVAL, cont'd

F. Locate the coolant drain plug on the passenger's side of the radiator. Next drain the coolant into a clean container. This coolant will be reused in a later step.

NOTE: Loosening the coolant reservoir cap will allow for coolant to drain more freely.

- **G.** Remove the two 8mm headed bolts securing the coolant overflow reservoir to the plastic fan shroud. (See Fig. 1-f.)
- H. Disconnect the small overflow hose (running across the top of the radiator) from the overflow reservoir. (See Fig. 1-f.)
- **I.1** (2007-2010 Models and Bullitt Only) Remove the large hose connected to the bottom of the coolant overflow reservoir. (See Fig. 1-g.)
- **I.2** (2005-2006 Only) Remove the large hose connecting the thermostat housing to the bottom of the overflow reservoir. Set the hose and reservoir aside to be reinstalled in a later step. (See Fig. 1-g.)

NOTE: If you are installing H.O. (charge cooled) kit, the coolant reservoir will not be reused. Retain only the fill cap for reuse.

- **J.1**. (2005-2006 Only) Remove the two upper radiator hoses from the engine coolant crossover tube and set aside. The radiator hose located on the driver's side will not be reused. (See Fig. 1-g.)
- **J.2**. (2007-2010 Only) Remove single upper radiator hose. This host will be reused in a later step.
- K. (2005-2006 Only) Remove the thermostat housing from the large formed hose leading to the engine block and the lower outlet of the radiator. (See Fig. 1-h.) Set the thermostat housing aside to be reinstalled in a later step.
- L. (2005-2006 Only) Remove the lower hose on the radiator and set the hose aside, as it will not be reused.
- **M**. Drain and remove the power steering reservoir. This reservoir will be relocated in a later step.
- N.1 Disconnect and remove the factory 5/8" plastic breather hose assembly attached to the driver's side valve cover and intake manifold. Remove the two fittings from the ends of the plastic tube for reuse. Discard the striped plastic tube. (See Fig. 1-i.)
- **N.2** (Bullitt Only) Remove strut tower brace two nuts each side with a 13mm socket.

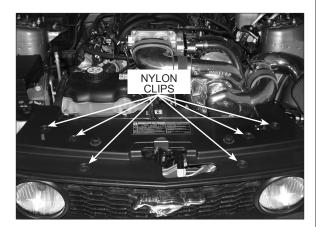


Fig. 1-e

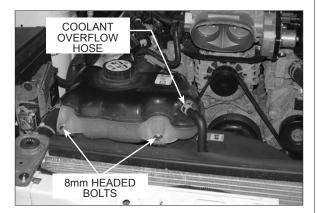


Fig. 1-f

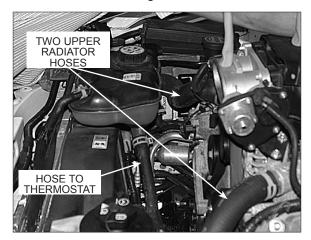


Fig. 1-g

#### 1. **PREPARATION/REMOVAL**, cont'd

- **O.** The installation of this supercharger system requires the removal, in part or whole, of the intake manifold so that modifications can be made to the coolant crossover tube or thermostat housing depending on year of application:
  - 1. (2005-2006 Only) Unplug the wire connectors from each of the eight injectors. Remove all of the vacuum hoses and connectors located at the front and rear of the intake manifold. Remove the connector attached to the intake manifold runner control (*IMRC*) unit located at the rear of the manifold on the passeger's side.
  - 2. (2007-2010 Only): Unplug the wire connectors from each of the eight injectors.
  - **3.** Remove the four 8mm headed bolts securing the injector rails to the intake manifold. Do not remove the small clips that retain the injectors to the fuel rails. Using a 5/8" spring lock tool, disconnect the fuel feed line from the fuel rail. Remove the vacuum line from the fuel regulator. Remove the rails and injectors as a complete unit and set aside. New injectors will be installed in a later step. (See *Figs. 1-i, 1-j.*)
  - **4.** Locate and remove the remaining 10mm headed bolts retaining the intake manifold to the cylinder heads. There are **five** on each side.
  - 5. (2005-2006 Only): Remove the intake manifold and set aside so it can be reinstalled after modifications to the coolant crossover tube are made.

NOTE: Modification to the crossover tube will be completed in a later step

6. (2007-2010 Only): It is not necessary to remove the intake manifold from the vehicle completely. Raise the front of the manifold 3-4" and support between the throttle-body and alternator.

NOTE: Modification to the thermostat will be completed in a later step.

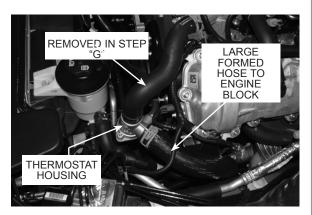


Fig. 1-h

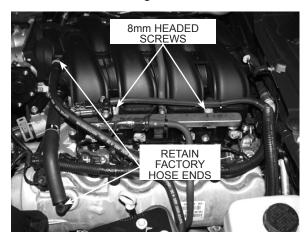


Fig. 1-i



Fig. 1-j

#### 1. PREPARATION/REMOVAL, cont'd

- **P.** Using a 1/2" ratchet, release the tension from the accessory drive belt and remove it from the car. This drive belt will be replaced with a longer one later in the installation.
- **Q.** Locate and remove the stud bolt that secures the alternator in place as well as the bolt located to the right of the alternator. (See *Fig. 1-o.*) Using a 15mm socket or wrench, remove the nut that secures the capacitor, resistor and coolant hose support bracket to the stud bolt. Using an 18mm socket or wrench, remove the stud bolt, it will be modified and replaced in a later step.

On **2010 Models**, no coolant hose support bracket is used.

- **R.** There is a small tab that secures the wiring harness in place on the valve cover that will need to be removed to gain clearance for the supercharger belt. This tab is best removed with a small air saw but a grinder will work. After removal, smooth the area to prevent damage to the belt. (See *Figs. 1-r, 1-r1.*)
- **S.** As seen in *Fig. 1-o*, the upper bolt is removed from the timing chain cover. This bolt will have to be modified by cutting off the threaded end where the resistor attaches. Modify and reinstall the bolt. (See *Fig. 1-s.*)
- T. Disconnect the plug to the cam position sensor. Remove the wiring harness from the retaining clips that hold it to the valve cover. Move the harness out of the way. This harness will have to be relocated to gain clearance for the supercharger.

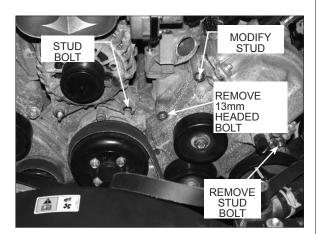


Fig. 1-o



Fig. 1-r

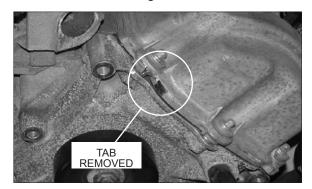


Fig. 1-r1

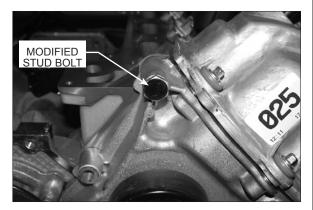


Fig. 1-s

# 2. OIL FEED INSTALLATION (Engine oil-fed kits only. Applications with V-3 superchargers skip ahead to step 4.)

- A. Locate the factory oil sensor on the driver's side of the vehicle near the oil filter.
- **B.** Remove the sending unit and set aside.
- **C.** Locate the supplied 1/4"NPT street TEE fitting. Install the TEE in the same location as the factory sending unit with the 1/4" x –4 x 90° installed on the TEE at the location noted. (See *Fig. 2-a.*)
- **D.** Attach the stainless steel –4 hose to the –4 fitting installed in the street TEE. (See *Fig. 2-a.*)
- E. Route the hose away from hot, sharp or moving parts and move to the top of the engine where it will be attached to the supercharger oil feed.
- **F.** Reinstall the factory sensor in the branch of the TEE as shown. (See *Fig. 2-a.*)

NOTE: The oil feed hose to the S/C will be installed in a later step of the installation. Temporarily cap the open end of the hose to prevent contamination to the inside of the hose.



Fig. 2-a

#### 3. OIL DRAIN ASSEMBLY INSTALLATION (Engine oil-fed kits only. Applications with V-3 superchargers skip ahead to step 4.)

- A. To provide an oil drain for the supercharger, it is necessary to make a hole in the oil pan. It is best to *punch* the hole rather than to drill it.
- **B.** Remove paint from the area around the hole.
- C. Mark the oil pan 5/8" down from the oil pan mounting rail on the driver's side of the engine. Measure forward 3/4" from the first bolt on the side of the oil pan. (See *Fig. 3-a.*)
- D. Use a small center punch to perforate the pan and expand the hole. Switch to a larger diameter punch and expand the hole further to approximately Ø9/16". Most punches are made from hexagon material and may be placed in a socket with an extension to make this procedure easier.
- E. Tap the hole with a 3/8"NPT tap approximately 1/4" deep. Pack the flutes of the tap with heavy grease to hold chips. Use a small magnet to check for any stray chips.

NOTE: This method of rolling over the lip of the hole and tapping it works very well if carefully done and should cause no problems.

- F. Thoroughly clean the threaded area. Apply a small amount of silicone sealer or teflon paste to the new threads. Apply more sealer to the 3/8"NPT hose fitting and secure in the hole. Make sure a seal is formed all around the fitting. (See *Fig. 3-b.*)
- **G.** Drain the engine oil and change the filter.

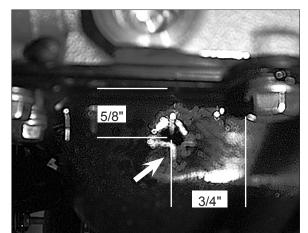


Fig. 3-a



Fig. 3-b

#### 4. **POWER STEERING RELOCATION** (2010 Models Skip to Step 4.1)

- **A.** Locate the power steering assembly 4FU110-010.
- **B.** Attach the power steering (*P*/S) relocation bracket 4FU010-010 with the hardware provided to the P/S reservoir removed in an earlier section. (See *Fig.4-a.*)
- **C.** Attach the 3/4" P/S hose along with the 3/8" P/S hose to the outlets of the reservoir with the clamps provided. (See *Fig. 4-b*.)
- **D.** Attach the 3/4" and the 3/8" hose barb unions to the factory hoses using the factory clamps.
- E. Attach the reservoir to the passenger's side radiator core support using one of the factory ground strap retaining bolts. (See *Fig. 4-c.*)
- F. Attach the hoses from the reservoir to the factory P/S hoses and secure with the supplied clamps. Trim for best fit. Secure the hose to the fan shroud away from heat and moving objects.
- **G.** It will be necessary to trim the corner of the radiator core support cover to clear the relocated P/S reservoir. (See *Fig. 4-d*)



Fig. 4-b



Fig. 4-a



Fig. 4-c



Fig. 4-d

#### 4.1 POWER STEERING RELOCATION (2010 Models Only)

- A. Locate the power steering assembly 4FU110-010.
- B. Attach the power steering (P/S) relocation bracket P/N 4FU010-101 (R) with the hardware provided to the P/S reservoir removed in an earlier section.
- C. Locate the factory 3/4" PS hose and cut off the 90° bend as shown. See fig 4.1a.
- D. Using a 3/4" brass union and two stepless clamps, attach the 90° bend to a length of supplied 3/4" hose as shown. See fig 4.1b.
- E. Attach 90° 3/4" and a length of supplied 3/8" hose to reservoir using the factory clamps. Remove the inboard 13mm headed strut mount nuts and install PS reservoir assembly in location shown. See fig 4.1c.
- F. Route hoses towards front of vehicle away from exhaust and moving objects.
- G. Connect previously installed PS hoses from reservoir to the factory PS hoses using the appropriate brass unions and hose clamps. See fig 4.1d.

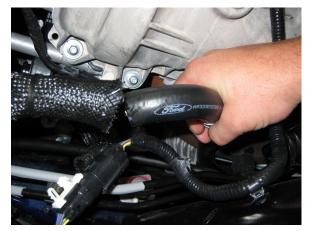


Fig. 4.1a



Fig. 4.1b



Fig. 4.1d



Fig. 4.1c

#### 5.1 COOLANT TUBE RELOCATION (2005-2006 Models Years Only)

NOTE: For 2007-2010 Models skip to Section 5.2.

- A. Locate assembly 4FU214-021.
- **B.** Remove the hose connected to the back, lower portion of the engine coolant crossover tube. (See *Fig. 5.1-a.*)
- **C.** Remove the nylon clip retaining the wire harness to the alternator brace and the four 10mm headed bolts securing the alternator brace. Set the brace aside to be reinstalled. (See *Fig. 5.1-b.*)
- **D.** Remove the factory coolant bleed plug and set the plug aside. It will not be reused. (See *Fig. 5.1-c.*)
- **E.** Remove the remaining two 10mm head bolts securing the crossover tube to the cylinder heads.

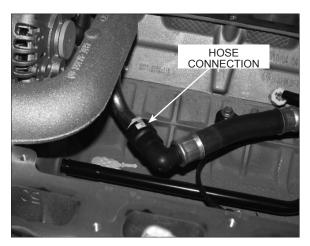


Fig. 5.1-a

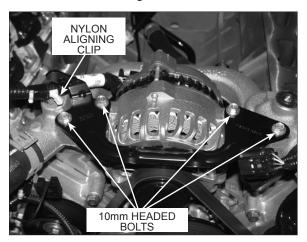


Fig. 5.1-b

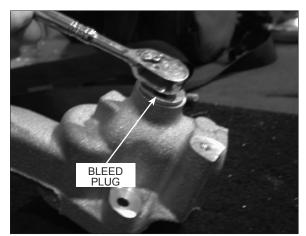
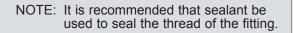


Fig. 5.1-c

#### 5.1 COOLANT TUBE RELOCATION (2005-2006 Models Years Only), cont'd

- F. Remove the factory O-ring type gaskets to prevent damage from heat. Clamp the steel hose barb end of the coolant crossover tube in a vise as shown. Using a small amount of heat, heat the aluminum crossover tube. Using a twisting motion, remove the steel insert. (See *Fig. 5.1-d.*) Penetrating oil will also aid in this step.
- **G.** Locate the supplied 1-1/4" expansion plug (7P125-002).
- **H.** Coat the expansion plug with sealant. Using a tube or socket that matches the recessed diameter of the plug, install the plug flush with the machined surface sealing the outlet of the crossover tube. (See *Figs. 5.1-e, 5.1-f.*)
- I. Locate the supplied coolant relocation fitting, sealing nut and O-ring washer. (See *Fig. 5.1-g.*)
- J. Install the fitting in the location of the factory coolant bleed plug. (See *Fig. 5.1-h.*) Screw the jam nut all the way onto the fitting. Tighten the fitting in the position shown. (See *Fig. 5.1-h.*) Secure with the jam nut.



- **K.** Reinstall the factory O-ring gaskets to the crossover tube.
- L. Set the coolant crossover tube back in its original location.
- M. Reinstall the two 10mm headed bolts through the crossover tube into the cylinder heads. Temporarily install two intake manifold retaining bolts through the crossover tube into the cylinder heads, where the manifold will be secured. Leave these loose as they are there only as a pilot for the crossover tube.
- **N.** Tighten the crossover tube retaining bolts, and remove the two manifold retaining bolts.



Fig. 5.1-d



Fig. 5.1-e



Fig. 5.1-f

#### 5.1 COOLANT TUBE RELOCATION (2005-2006 Models Years Only), cont'd

- **O.** Reconnect the coolant crossover tube hose at the lower rear portion of the coolant crossover tube. Remove any coolant that may have spilled into the engine valley.
- P. Reinstall the alternator support bracket and the four 10mm headed retaining bolts removed earlier. Attach the capacitor resistor removed from the stud bolt on the front cover to one of the 10mm bracket retainers. Route the resistor and its wire away from moving parts.

NOTE: Leave two 10mm headed bolts that attach the bracket to the crossover tube loose.

- **Q.** Reinstall the Intake Manifold removed in a previous step. Check to see that the rubber intake runner gaskets are in place and undamaged. Make sure the cylinder head surface is clean.
- **R.** Lower the intake manifold onto the cylinder heads.
- **S.** Install the ten factory 10mm headed manifold retainers and tighten to factory specifications. Tighten the two 10mm headed bracket bolts that were previously left loose.
- **T.** Reconnect the IMRC control unit at the rear of the manifold along with the vacuum hose.
- U. Remove the small clips that retain the factory fuel injectors to the fuel rail. Remove the factory fuel injectors and set aside they will not be reused.
- V. Locate the supplied fuel injectors. Lubricate the injector O-rings with clean motor oil and install into the fuel rail. Reinstall the small retaining clips onto the injectors.
- **W.** Lower the fuel rail/injector assembly onto the manifold, making sure that the injectors seat properly into the manifold. Secure with the four factory 8mm headed bolts.
- X. Reconnect the fuel injector plugs and all other connections and vacuum lines previously removed from the manifold assembly.



Fig. 5.1-g

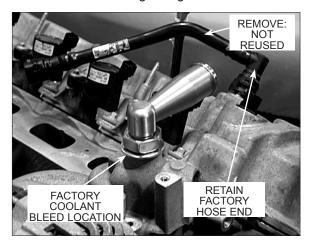


Fig. 5.1-h

# 5.2 THERMOSTAT HOUSING/RADIATOR HOSE MODIFICATION (2007-2010 Model Year Only)

- A. Using an 8mm socket, remove the two 6mm screws that retain the thermostat housing. Set the housing aside to be reused later. Leave the factory thermostat and O-ring seal in place as they will be reused (*provided they are in good condition*). (See *Fig. 5.2-a.*)
- **B.** Locate the supplied thermostat housing adaptor and hardware. Using the two 6mm socket-head screws, install the housing adaptor as shown. (See *Fig. 5.2-b.*)
- **C.** Using the 6mm hardware, washers and O-ring provided, reinstall the thermostat housing. Attach the previously removed resistor to the housing as shown. (See *Fig. 5.2-c.*)
- **D.** Reinstall the intake manifold removed in a previous step. Check to see that the rubber intake runner gaskets are in place and *undamaged*. Make sure the cylinder head surface is clean.
- **E.** Lower the intake manifold onto the cylinder heads.
- **F.** Install the ten factory 10mm headed manifold retainers, and tighten to factory specifications.
- **G.** Remove the small clips that retain the factory fuel injectors to the fuel rail. Remove the factory fuel injectors and set aside. These will not be reused.
- H. Locate the supplied fuel injectors. Lubricate the injector O-rings with clean motor oil and install into the fuel rail. Reinstall the small retaining clips onto the injectors.
- I. Lower the fuel rail/injector assembly onto the manifold, making sure that the injectors seat properly into the manifold. Secure with the four factory 8mm headed bolts.
- J. Reconnect the fuel injector plugs, all other connections and vacuum lines previously removed from the manifold assembly.
- K. Locate the 4FU114-030 water pipe assembly.

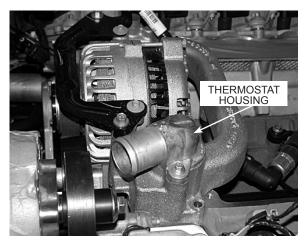


Fig. 5.2-a

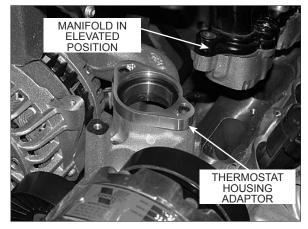


Fig. 5.2-b

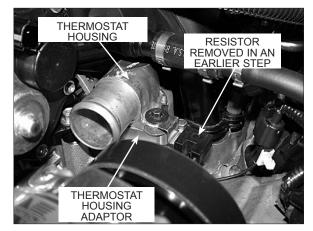


Fig. 5.2-c

# 5.2 THERMOSTAT HOUSING/RADIATOR HOSE MODIFICATION (2007-2010 Model Year Only), cont'd

- L. Cut approximately 2.25" off the short 90° end of the factory radiator hose and set aside. (See *Fig. 5.2-I*.)
- **M.** Cut the remainder of the short 90° bend from the factory radiator hose, approximately half way between the 90° bend and the 45° bend, and discard. (See *Fig. 5.2-I*.)
- N. Using the 2.25" section of radiator hose cut previously and two #24 hose clamps provided, install the short end of the 90° stainless tube (4FU014-060) onto the repositioned thermostat housing. (See Fig. 5.2-n.)
- **O.** Slide the protective sleeve provided over the modified hose. Install the remainder of the factory radiator hose using one factory hose clamp and one #24 hose clamp. (See *Fig. 5.2-o.*)

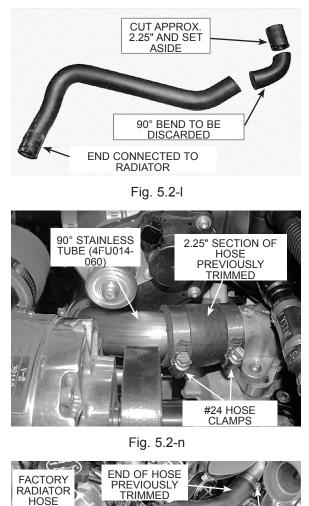




Fig. 5.2-o

#24 HOSE CLAMP

# 6.1 PULLEY AND SPACER REPLACEMENT (Bullitt/V-Power/8-Rib Kits Only - All others skip to step 6.2)

- A. Unplug the cam sensor connector.
- **B.** Tensioner modification (skip to step c. if installing belt tensioner assist):
  - 1. Remove the three screws retaining the factory spring tensioner to the front of the engine. Remove the factory steel idler from the tensioner and replace with the supplied 3" idler (4FU116-031) using the factory hardware. (See *Fig. 6.1-a.*)
  - 2. Install the three M8 x 40mm bolts w/washers through the tensioner mounting holes.
  - **3.** Slide the three .75"OD x .328"ID x .140" spacers onto the three bolts protruding through the tensioner. (See *Fig. 6.1-a.*)
  - 4. Secure the tensioner assembly to the front of the engine. Use *Fig. 6.1-a* as guide for spacer placement.

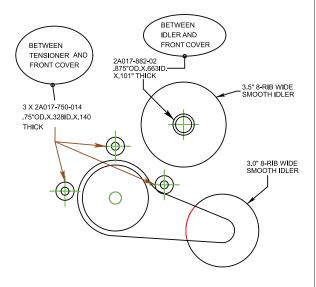


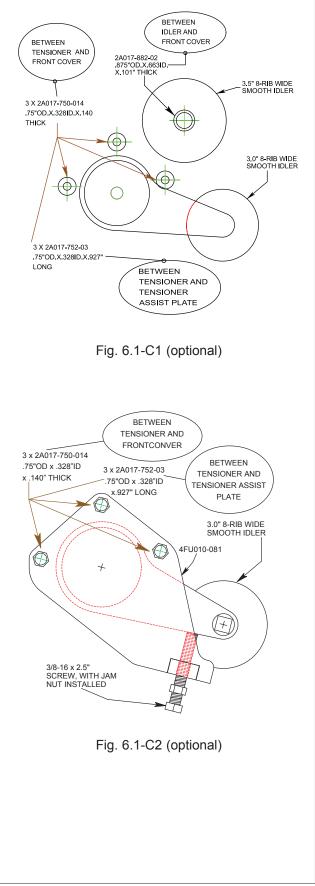
Fig. 6.1-a

# 6.1 PULLEY AND SPACER REPLACEMENT (Bullitt/V-Power/8-Rib Kits Only - All others skip to step 6.2)

- C. OPTIONAL Belt tensioner assist up-grade:
  - 1. Remove the three screws retaining the factory spring tensioner to the front of the engine. Remove the factory steel idler from the tensioner and replace with the supplied 3" idler (4FU116-031) using the factory hardware. (See *Fig. 6.1-C1.*)
  - 2. Locate the supplied tensioner assist plate. Install the supplied 3/8-16 x 2.5" screw and 3/8-16 jam nut into the plate. Install the three M8 x 55mm bolts w/washers through the plate. Slide the three .75"OD x .328"ID x .927" long spacers onto the previously installed hardware. (See *Fig. 6.1-C2.*)
  - **3.** Install the plate, hardware and spacers onto the factory spring tensioner. Slide the three .75"OD x .328"ID x .140" spacers onto the three bolts protruding through the tensioner. (See *Fig. 6.1-C2.*)
  - 4. Secure the tensioner assembly to the front of the engine. Use *Figs. 6.1-C1, 6.1-C2* as guides for spacer placement.

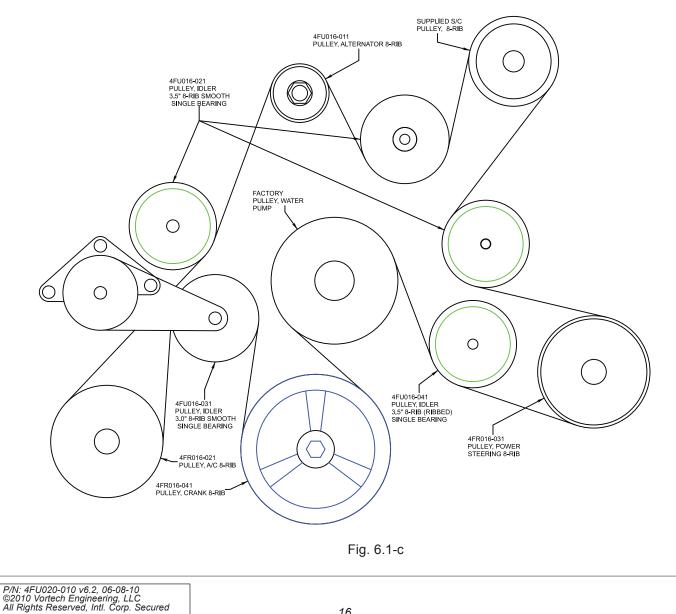
NOTE: Leave the 3/8" screw and jam nut loose at this time.

- D. Remove the factory idler pulley located just above the spring tensioner location. Replace with the supplied 3.5" idler (4FU016-021) and .875"OD x .663"ID x .101" thick spacer (2A017-882-02) using the factory hardware. (See *Fig. 6.1-a.*)
- E. Replace the alternator pulley:
  - 1. First remove the plastic cap from the end of the alternator pulley to reveal the splined hub.
  - 2. Rotate the pulley so that a round punch can be inserted through the front of the alternator into the alternator-cooling fan. This will hold the alternator assembly from turning. Using the appropriate splined hub tool (*see notes on page iv*), loosen and remove the alternator pulley. The threads are standard.
  - Install the supplied 8-rib alternator pulley (4FU016-011) and secure using the M16 x 1.50" flanged nut provided.

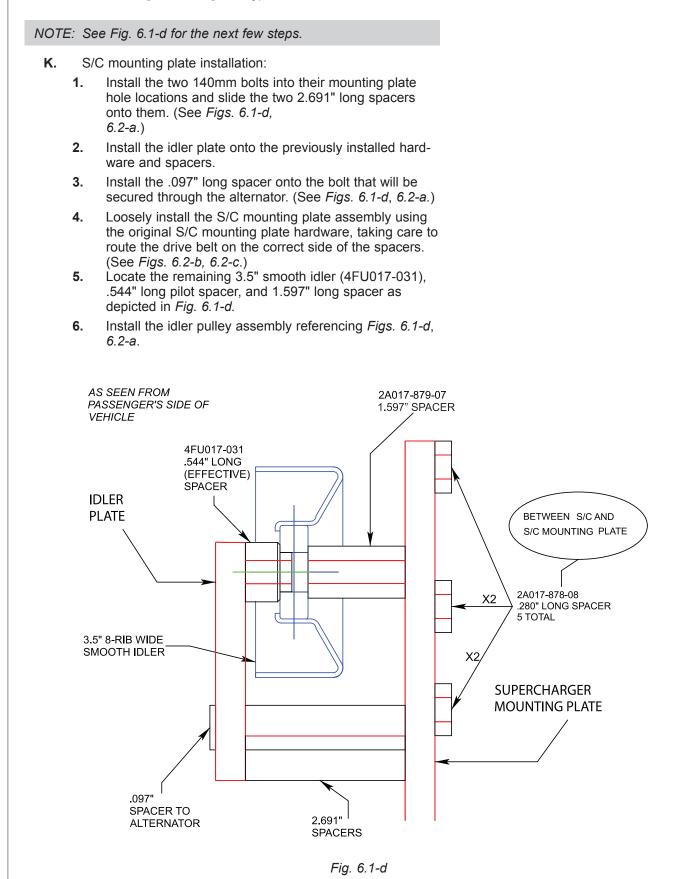


## 6.1 PULLEY AND SPACER REPLACEMENT (Bullitt/V-Power/8-Rib Kits Only - All others skip to step 6.2), cont'd

- F. Remove the two bolts that retain the factory idlers to the front cover. Discard the idlers and bolts. Replace the top idler with the 3.5" smooth idler (4FU016-021) .875"OD x .663"ID x .101" spacer and stud bolt provided. Replace the lower idler with the 3.5" ribbed idler (4FU016-041) .875"OD x .663"ID x .101" spacer and stud bolt provided. (See Fig. 6.1-c.)
- G. Using the appropriate pulley puller, remove the factory power steering pulley and discard. Replace with the supplied 8-rib power steering pulley with the appropriate installer tool.
- H. Remove the A/C clutch retaining screws. Carefully remove the clutch and set aside with the hardware and small spacer located between tip of A/C compressor drive shaft and A/C clutch spline. Replace with the supplied 8-rib A/C pulley (4FR016-021), and secure using the factory hardware and spacer.
- I. Remove the crank pulley retaining bolt. Using the appropriate pulley puller, remove the crank pulley and discard. Install the supplied 8-rib crank pulley using the factory retaining bolt. (Thread locking compound must be applied to the screw threads.)
- J. Loosely install the 8-rib drive belt provided using Fig. 6.1-c for belt route reference. Not all pulleys are installed at this time.



# 6.1 PULLEY AND SPACER REPLACEMENT (Bullitt/V-Power/8-Rib kits Only - All others skip to step 6.2), cont'd



## 6.2 SUPERCHARGER MOUNTING PLATE INSTALLATION

- A. The mounting plate is provided with the spacers and bolts as they would be installed on the vehicle. *Keep these bolts and spacers marked as to their locations*. They are all different in size and mismatching them will result is misalignment of the mounting plate.
- B. (Non V-Power/Bullitt Kits only) Locate the two supplied stud-bolt spacers (see *Figs. 6.2-b, 6.2-c*) in the S/C mounting plate assembly. Remove the factory screws retaining the idler pulleys on the driver's side of the engine and replace with the stud spacers.
- **C.** It is necessary to install the supercharger accessory drive belt and loosely route it following *Fig. 6.2-c*, as not all pulleys are currently in place.
- D. Locate the supercharger mounting plate 4FU010-044 from the supercharger mounting plate assembly. (See Fig. 6.2-a.)
- E. (Non V-Power/Bullitt Kits only) Locate the two 8mm x 140mm long bolts and washers from the mounting bracket assembly and install in the locations noted. (See *Fig. 6.2-a.*)
- **F.** Slide the two long spacers onto the bolts previously installed. (See *Fig. 6-f.*) Install the small triangle-shaped idler pulley mounting bracket to the spacers. Install the .093" spacer onto the bolt that will be attached in the alternator location.
- **G.** Lower the mounting plate assembly into position on the front of the engine. Be sure to route the drive belt on the correct side of the idler bracket and spacers. (See *Fig. 6.2-g.*)
- Loosely attach the plate using the previously installed 140mm hardware. Locate the two 3/8-16 x 1.0" bolts and washers and install through the plate into the two stud bolt spacers retaining the factory idlers. (See *Figs. 6.2-a, 6.2-c.*)
- I. Locate the 8mm x 150mm bolt and washer. Loosely install the bolt through the mounting plate and remaining long spacer into the engine cover using *Fig. 6.2-a* for location reference.
- J. (Non V-Power/Bullitt Kits only) Locate the supplied idler, 1.776" idler spacer, idler pilot spacer, 3/8-16 x 3.75" long bolt and washer. Install the bolt/washer through the mounting plate, 1.776" spacer, supplied idler, idler pilot spacer and into the triangleshaped bracket. (See *Figs. 6.2-f to 6.2-h* for assistance.)

NOTE: If installing a standard output kit (noncooled), the 3/8" x 3.75" bolt will be installed in the upper hole location. H.O. kits install in the lower hole.

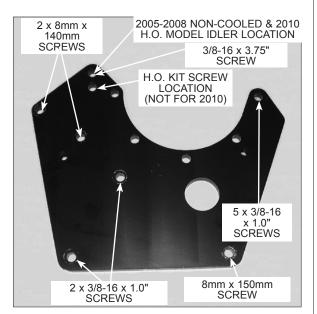


Fig. 6.2-a 2005-2008 NON-COOLED & 2010 H.O. MODEL IDLER LOCATION

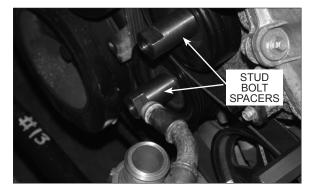


Fig. 6.2-b

NOTE: This figure is just for reference. The small idler pulley mounting bracket will need to be installed at the same time as the supercharger (S/C) Mounting Plate. (See *Fig.* 7-d.)

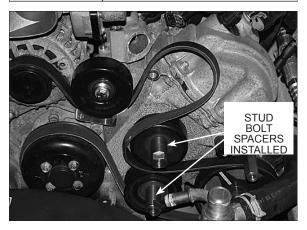
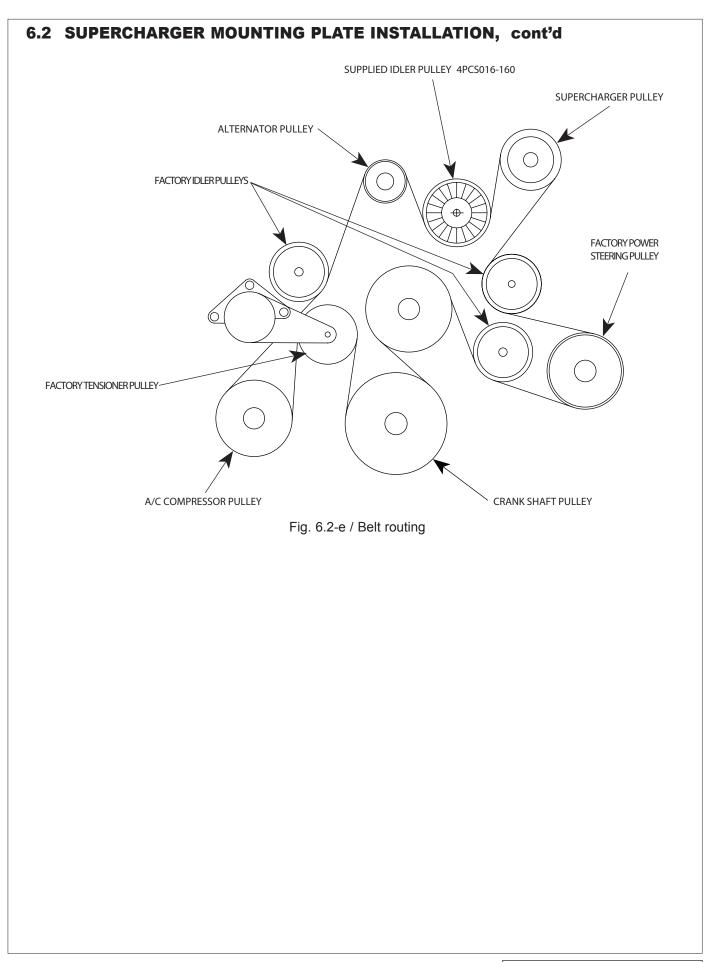


Fig. 6.2-c



## 6.2 SUPERCHARGER MOUNTING PLATE INSTALLATION, cont'd

- **K.** Tighten all mounting plate hardware, making sure the drive belt is properly routed and no wiring or hoses are caught between the mounting surfaces. (See *Fig. 6.2-g.*)
- **L1.** (Non V-Power/Bullitt Kits only) Install the five 3/8-16 x 1.0" bolts and washers through the back side of the mounting plate. (See *Fig. 6.2-h*.)
- L2. (V-Power/Bullitt Kits only) Install the five 3/8-16 x 1.5" supplied bolts and washers through the back side of the mounting plate. Install the five .280" long spacers (2A017-878-08) onto the previously installed hardware. (See Fig 6.1-d)
- \*M. Attach the supplied length of 1/2" oil drain line hose, and one #8 hose clamp from the previously installed oil drain assembly, to the 1/2" barbed fitting in the supercharger.
- **\*N.** Install the supplied 1/8"NPT x -4 straight fitting from assembly 4FU130-026 to the oil feed fitting on the supercharger.
- NOTE: Use only clean engine oil on the pipe threads. Teflon tape or pipe sealant is not recommended as it might loosen and cause blockage of the small oil feed orifice resulting in possible supercharger failure.
- **O.** Attach the supercharger assembly to the mounting plate using the previously installed hardware. A 9/16" ratcheting end wrench will greatly aid in this step.
- \*P. Secure the oil drain hose to the prevously installed brass fitting in the oil pan, making sure to route in a smooth *downward* manner and *away* from moving or hot objects.
- NOTE: Any dips, "uphill" sections, kinks or restrictions may cause drainage problems and possible supercharger failure.
- \*Q. Attach the -4 oil feed hose to the straight -4 fitting previously installed in the supercharger. Secure away from moving or hot objects.
- **R.** Using a 1/2" ratchet, rotate the factory spring tensioner clockwise and install the accessory drive belt. (Refer to *Fig. 6.2-e for proper belt routing.*)
- S. Optional belt tensioner assist upgrade only: Once the drive belt has been installed, snug the tensioner assist bolt. Lock in place with the previously installed jam nut.

NOTE: Do not overtension the tensioner assist bolt, as damage may occur to the OEM tensioner..

- T. Reconnect the cam sensor plug.
- \*\*U. Secure the remote drain hose away from the belt and other hoses using tie-wraps



Fig. 6.2-f

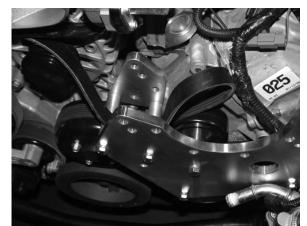


Fig. 6.2-g

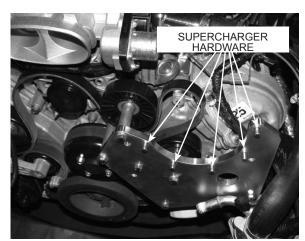


Fig. 6.2-h

\* Applies to "engine oil-fed" units only. V-3 applications skip these steps

\*\* Applies to V-3 applications only

#### 7. THERMOSTAT HOUSING RELOCATION (2005-2006 Only)

- Α. It will be necessary to relocate the thermostat housing to gain clearance for the supercharger mounting bracket.
- Β. Locate hose 7U133-050. This hose will be modified and replace the factory lower radiator hose removed in a previous step. (See Fig. 7-a.)
- С. Modify the supplied hose as seen in the figures below. (See Figs. 7-b, 7-c.)
- D. Trim approximately 5" off of the 9" end of the hose and 5-1/4" off the 13" end. (See Fig. 7-c.)

NOTE: Because of manufacturing tolerances, it is best to leave this hose long and trim to fit.

- E. Install the long end of the modified hose to the outlet of the radiator with a #24 hose clamp. Leave the clamp loose for adjustment.
- F. Install the thermostat housing to the open end of the new, lower radiator hose and the large formed factory hose. Adjust the thermostat's location making sure it clears any moving parts.

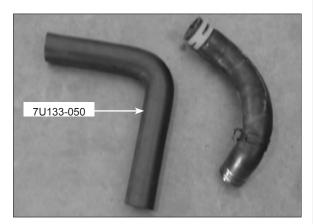
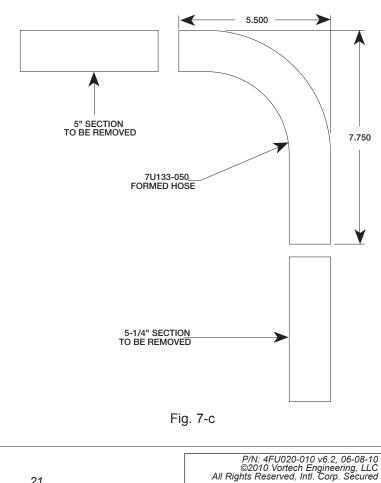


Fig. 7-a



Fig. 7-b



## 7. THERMOSTAT HOUSING RELOCATION (2005-2006 Only), cont'd

NOTE: The hose clamps will be left loose for adjustment of the thermostat's location until after the installation of the supercharger and supercharger mounting bracket.

- **G.** Locate the 7U133-190 molded coolant hose. (See *Fig. 7-c.*)
- **H.** Install the end with the 90° bend onto the thermostat housing.
- I. Install the opposite end to the previously modified coolant crossover tube. Secure using the #20 hose clamps provided. (See *Fig. 7-c.*)



Fig. 7-d

NOTE: For non-cooled kits skip this section and proceed to Section 9.

#### A. BUMPER COVER AND SPLASH PAN

- 1. Raise the vehicle with a floor jack and set on jack stands.
- 2. Remove the seven 5.5mm headed screws retaining the lower splash panel. (See *Fig.* 8A-a.)
- 3. Remove the six Phillips-head screws (*three* on each side) from the lower portions of the plastic innner fender liners. (See Fig. 8A-b.).

On **2010 Models**, remove the four 7mm headed screws (2 per side) from the lower portions of the plastic inner fender liner.

- 4. Remove the five plastic clips retaining the front portion of the fender liner. Both sides need to be removed. (See *Fig. 8A-c.*)
- 5. Remove the four 10mm nuts (*two on each side*) retaining the bumper cover to the fenders. (See *Fig. 8A-d.*)

**2010 models** do not use the bracket depicted in Fig.8A-d. Pull outward from rear most portion of the bumper where it attaches to the inner fender to unsnap from retainers. The bumper detaches along the bumper to fender body line and underneath the headlights.

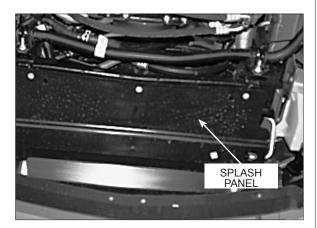


Fig. 8A-a

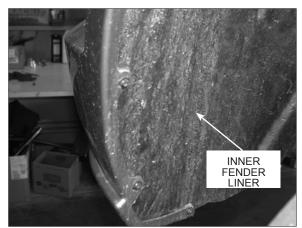
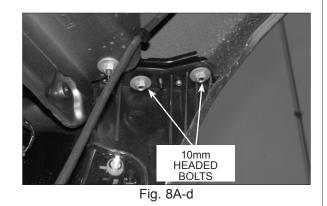


Fig. 8A-b



Fig. 8A-c



#### A. BUMPER COVER AND SPLASH PAN, cont'd

- 6. Disconnect the connectors on the parking and the lower fog lights. (See *Fig. 8A-e.*)
- 7. Remove the six nylon clips retaining the upper radiator core support cover. (See *Fig. 8A-f.*)
- 8. Remove the two 10mm headed bolts (*one on each side in the upper portion of the grill*). (See *Fig. 8A-g.*)

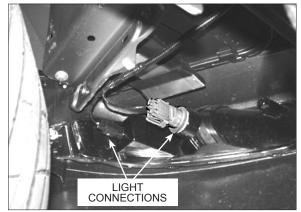


Fig. 8A-e

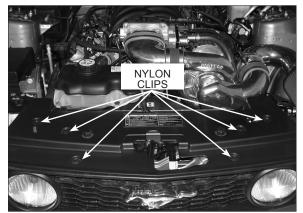


Fig. 8A-f



Fig. 8A-g

## A. BUMPER COVER AND SPLASH PAN, cont'd

- **9.** Lift up on the tabs releasing them from the clips. (See *Fig. 8A-h*.)
- **10.** Pull out on the bumper cover
- **11.** Remove the connector to the driving light in the grill (*if equipped*).
- **12.** Remove the bumper cover and set aside. (See *Fig. 8A-i*.)

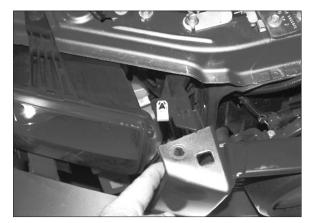


Fig. 8A-h

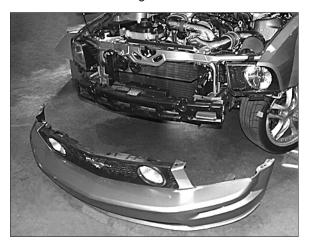


Fig. 8A-i

#### B. WATER COOLER ASSEMBLY INSTALLATION

NOTE: Refer to Fig. 8B-q throughout the following steps:

- 1. Locate the water cooler assembly 8N106-135.
- 2. Install the two mounting bracket 8N010-171 and 8N010-173 to the water cooler using the supplied 1/4-20 x 1/2" screws, washers. (See *Fig. 8B-a.*)

NOTE: Leave these screws loose for adjustment when attaching the assembly to the vehicle.

- **3.** Remove four nylon push pins from the styrofoam bumper support and set the support and the pins aside to be reinstalled. (See *Fig. 8B-b.*)
- 4. Remove six of the eight 13mm headed inset bolts retaining the metal bumper support. (See *Fig. 8B-c.*)
- 5. 2005-2009 models: Replace the bolts previously removed with the six 8mm x 1.25" x 35mm long bolts and washers provided.

**2010 models:** install four M8x1.25x75mm studs into the four inner bumper bolt holes.

6. 2005-2009 models: Install the four 2A017-036 spacers (*two each side*) onto the bolts that will secure the water cooler. (See *Fig. 8B-d.*)

**2010 models:** use four 2A017-753-02 spacers (slightly longer than those depicted in Fig. 8B-d) four 5/16" fender washers, and four nylock nuts



Fig. 8B-a

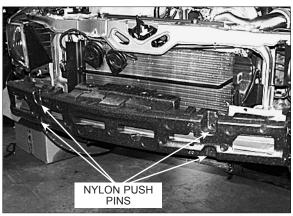


Fig. 8B-b

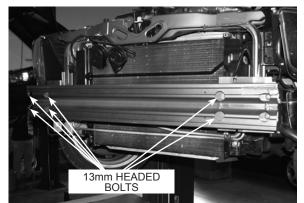


Fig. 8B-c

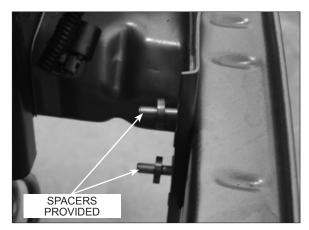


Fig. 8B-d

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

7. Attach the previously assembled water cooler to the bolts and spacers and secure with the 8mm nuts and washers provided. Tighten all cooler hardware at this time. (See *Fig. 8B-e.*)

NOTE: When installing the cooler, make sure that the water ports are configured as shown in Figs. 8B-a, 8B-q. The "top cooler port" must be the highest point on the cooler for proper air purging.

- 8. Attach the supplied short 90° hose (7U030-065) to the top port on the CAC cooler as shown. (See *Fig. 8B-f.*)
- **9.** Install one of the supplied 3/4" hose unions into the open end of the previously installed 90° hose and secure. (See *Figs. 8B-f, 8B-q.*)

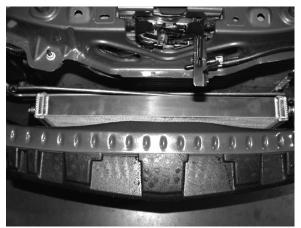


Fig. 8B-e

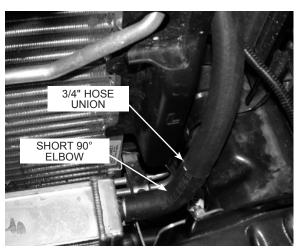


Fig. 8B-f

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

- 2005-2009 models: Locate assembly 8N104-125. Confirm that the assembly is complete.
   2010 Models: use assembly 8N104-127.
- **11.** Attach the provided ring terminal to the ground wire on the suplied water pump plug harness. Connect the supplied length of 16GA wire to the positive wire using the supplied butt connector. Connect the water pump harness to the water pump.
- **12.** Locate the supplied water pump (8F001-403), two 2-3/8" adel clamps, and water pump mounting bracket. Place the adel clamps on the water pump. Using the supplied 1/4-20 hardware, secure the water pump and clamps to the mounting bracket. When installing, attach the water pump ground wire to one of the water pump mounting clamps using the previously installed ring terminal. (See *Fig. 8B-g.*)

**2010 Models:** use water pump bracket depicted in Fig. 8B-g2.

13. Attach the pump assembly to the two 8mm x 35mm long bolts previously installed and secure using the 8mm nuts and washers provided. (See *Fig. 8B-h.*)
2010 Models: see Fig. 8B-h2

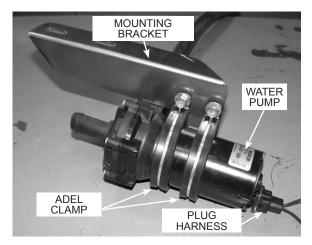


Fig. 8B-g



Fig. 8B-g2 (2010 Models)



Fig. 8B-h2 (2010 Models)

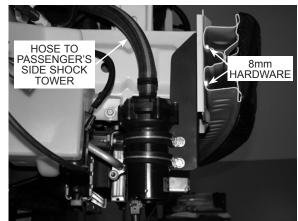


Fig. 8B-h (2005-2009 Models)

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

- **14.** Route the positive wire up towards the driver's side valve cover.
- **15.** Locate the ballast resistor plug. Install the supplied T-tap connector, cut the water pump positive wire (*from the water pump*) for best fit, attach the supplied male spayed connector and attach to the wire T-tap connnector. (See *Fig., 8B-i.*)
- **16.** Cut the water pump positive wire and install the inline fuse holder and fuse. Install the wire loom provided and secure away from heat and moving parts. (See *Fig. 8B-i.*)

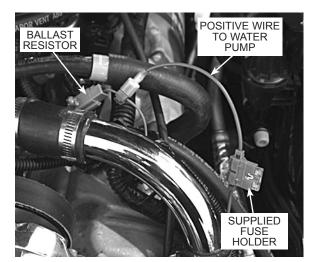


Fig. 8B-i

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

17. Locate the 3/4" x 150° molded rubber hose (7U038-150). Connect the short end of the 3/4" x 150° hose to the lower port on the previously installed water cooler. Install one of the provided 3/4" hose unions into the open end of the 150° hose. Attach a length of 3/4" hose approximately 24" between the hose union and the previously installed water pump discharge. Secure all hose connections using the nylon ratchet clamps provided. (See Fig. *8B-j.*)

**2010 models** will require the passenger side air diverter to be trimmed where the power steering cooler line passes through. Enlarge the bottom of this notch  $1-1/2^{"}$  for  $3/4^{"}$  hose to pass through

**18.** Attach a length of 3/4" hose approximatelly 48" long to the previously installed water pump feed port and secure. Route the open end of the installed hose toward the passenger's side shock tower. This hose will be connnected in later step. (See Fig. 8B-h.)

NOTE: The installation of this hose section should maintain an "uphill" routing wthout dips or kinks.

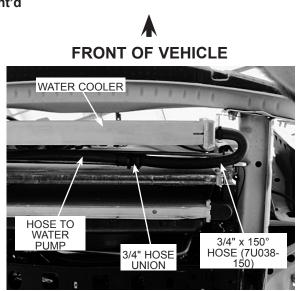


Fig. 8B-j | Viewed From Below

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

- **19.** Assemble the surge tank reservoir 8N056-060 install a 1/2"NPT x 3/4" straight barbed fitting in the bottom of the surge tank and one 1/2"NPT x 3/4" x 90° in the side. (See *Fig. 8B-k*.)
- **20.** Locate and attach the surge tank mounting bracket 8N010-160. Attach the bracket with two 1/4-20 x 1/2" socket head cap screws and washers. (See *Fig. 8B-I.*)



Fig. 8B-k

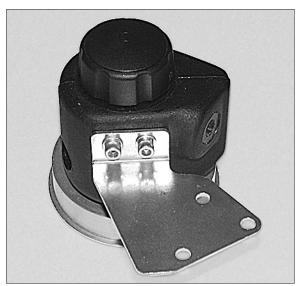


Fig. 8B-I

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

- 21. On the passenger's side of the engine, attached to the valve cover, is a large wire harness. The harness will have to be relocated to gain clearance for the surge tank and the radiator overflow reservoir. (See *Figs. 8B-n*, *8B-m*.)
- **22.** Detach the wiring harness from the retaining clips and move the harness to the shock tower. Secure the harness to the A/C line with wire ties. (See *Fig. 8B-n*.)
- **23.** Remove the small clip retaining the small wiring harness to the shock tower. (See *Fig. 8B-n.*)
- **24.** Attach the small harness to the large harness with wire ties.
- **25.** To gain clearance for the coolant reservoir, the A/C line will need to be bent slightly towards the passenger's side fender. (See *Fig. 8B-n.*)

NOTE: A/C line is under high pressure. Use caution not to kink or damage the line.

- (2005-2006 Only)
- **26.** Remove the 10mm headed screw retaining the ground strap to the bracket on the strut tower. (See *Fig. 8B-o.*)

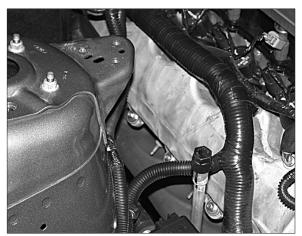


Fig. 8B-m

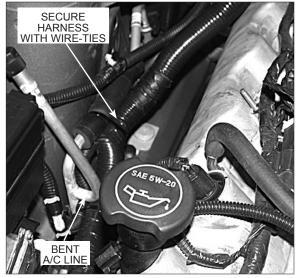


Fig. 8B-n

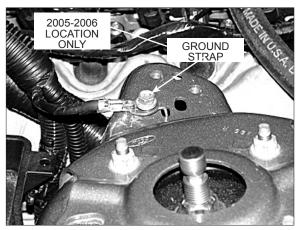


Fig. 8B-o

#### B. WATER COOLER ASSEMBLY INSTALLATION, cont'd

**27.** Attach the 3/4" hose previously installed to the straight 1/2"NPT x 3/4" barb at the bottom of the surge tank reservoir. Secure with a nylon clamp. (See *Fig. 8C-p.*)

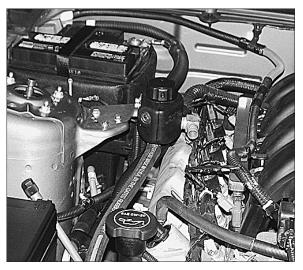
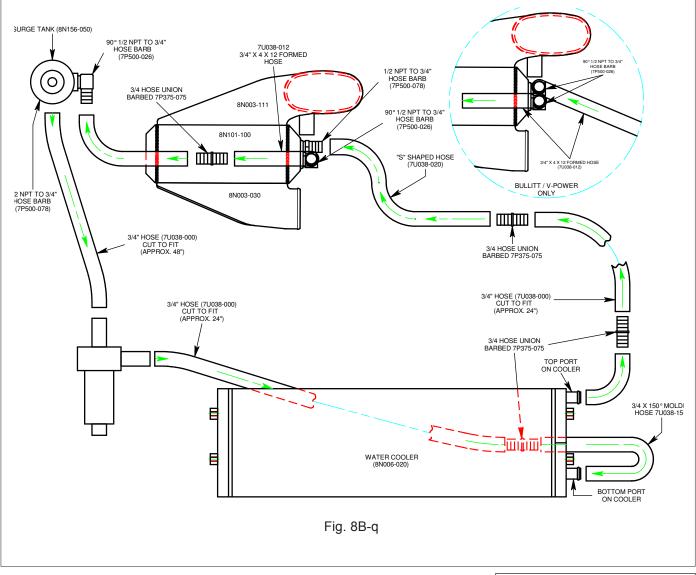


Fig. 8B-p



## C. ENGINE COOLANT RESERVOIR INSTALLATION (2005-2006 Models Only)

NOTE: For 2007-2010 models skip to Section 8.E.

- 1. Locate assembly 8N155-080.
- 2. Attach the rear reservoir mounting bracket 4FU010-051 to the reservoir with the 1/4-20 x 1/2" long bolts and washers provided. (See *Fig. 8C-a.*)
- **3.** Attach bracket 4FU010-061 to the front of the reservoir with the hardware provided. (See *Fig. 8C-b.*)
- **4.** Locate and install 1/4"NPT x 3/8" barbed fitting in the tapped hole just above the previously installed mounting bracket. This hole may have to be opened using the appropriate drill bit. (See *Fig. 8C-c.*)



Fig. 8C-a



Fig. 8C-b

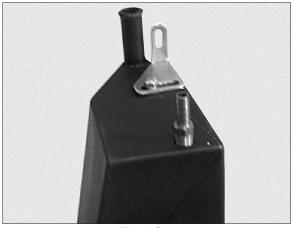


Fig. 8C-c

#### C. ENGINE COOLANT RESERVOIR INSTALLATION (2005-2006 Models Only), cont'd

- 5. Remove the 10mm headed bolt that secures the back of the ECU and the power distribution box. (See *Fig. 8C-d.*)
- 6. Install the coolant reservoir. Secure the front of the reservoir with the factory fastener removed previously. (See *Fig.* 8*C*-*e*.)

NOTE: Leave this bolt loose for final adjustment in a later step.

7. Attach the rear mounting bracket with the surge tank mounting bracket to the strut tower with the 6mm x 20mm long screws and washer provided. (See *Fig. 8C-f.*)

NOTE: Reinstall the factory ground wire with one of the 6mm screws and washers.

8. Attach a length of 3/4" hose (*approximately 3' long*) to the 3/4" bung on the front of the coolant reservoir. Route the hose to the 3/4" outlet on the thermostat housing secure the hose with the clamps provided. (See *Fig. 8C-g.*)

NOTE: A/C line on the passenger side must be bent away from block for reservoir clearance. This can be done with a large screwdriver as depicted in figure 8C-g2.

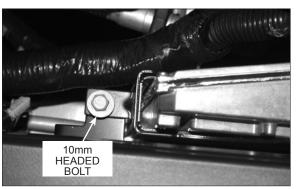


Fig. 8C-d

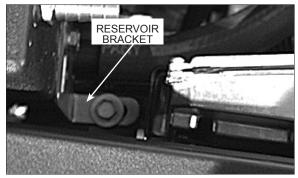


Fig. 8C-e

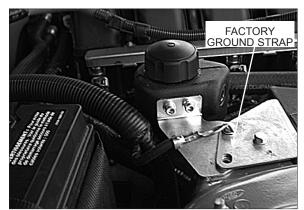




Fig. 8C-g2





Fig. 8C-g

- C. ENGINE COOLANT RESERVOIR INSTALLATION (2005-2006 Models Only), cont'd
  - **9.** Modify the small hose removed from the factory coolant overflow reservoir. By cutting the "S" bend off the hose end. (See *Fig. 8C-h.*)
  - **10.** Install a 3/8" union and a #17 stepless clamp. Secure the clamp. Using a length of 3/8" (*approximately 40" long*) hose that is provided, secure the hose to the union with a #17 stepless clamp. (See *Fig. 8C-i.*)
  - **11.** Route the overflow hose across the radiator and under the radiator retaining bracket to the 1/4"NPT x 3/8" hose barb fitting in the coolant reservoir securing with a clamp. (See *Fig.* 8*C*-*j*.)



Fig. 8C-h



Fig. 8C-i



Fig. 8C-j

## D. RADIATOR HOSE MODIFICATIONS ('05-'06 Models Only)

- 1. Remove the passenger's side upper radiator hose. (See *Fig. 8D-a.*)
- 2. Modify the upper hose by cutting the hose just after the bend. (See *Fig. 8D-b.*)
- **3.** Attach the hose to the formed stainless tube 4FU014-010 with a #24 hose clamp.
- **4.** A section of 1-1/2"ID hose left from the coolant tube relocation will be cut to approximately 2-3/4" long and attached to the outlet of the radiator reusing the factory spring clamp to secure the hose to the outlet.
- 5. Install the formed coolant tube to the inlet on the engine and to the radiator. Secure with hose clamps. (See *Fig. 8D-c.*)



Fig. 8D-a



Fig. 8D-b



Fig. 8D-c

#### E. ENGINE COOLANT RESERVOIR INSTALLATION (2007-2010 Models Only)

- 1. Locate assembly 8N155-082.
- 2. Attach the rear reservoir mounting bracket 4FU010-091 to the reservoir with the 1/4-20 x 1/2" long bolts and washers provided. (See *Fig. 8E-a.*)
- **3.** Attach bracket 4FU010-061 to the front of the reservoir with the hardware provided. (See *Fig. 8E-b.*)
- **4.** Locate and install 1/4"NPT x 3/8" barbed fitting in the tapped hole just above the previously installed mounting bracket. This hole may have to be opened using the approppriate drill bit. (See *Fig. 8E-c.*)



Fig. 8E-a



Fig. 8E-b

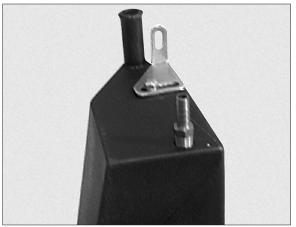


Fig. 8E-c

- E. ENGINE COOLANT RESERVOIR INSTALLATION (2007-2010 Models Only), cont'd
  - 5. Remove the 10mm headed bolt that secures the back of the ECU and the power distribution box. (See *Fig. 8E-d*.)
  - 6. Install the coolant reservoir. Secure the front of the reservoir with the factory fastener removed previously. (See *Fig.* 8*E*-*e*.)

NOTE: Leave this bolt loose for final adjustment in a later step.

- 7.1 Attach the rear mounting bracket with the surge tank mounting bracket to the strut tower using the factory strut mounting hardware. (See *Fig. 8E-f.*)
- **7.2** (Bullitt Only) Attach bracket 4FU010-061 on the underside of the 4FU010-091 reservoir bracket to ensure clearance from strut tower brace.
- 8. Attach a length of 3/4" hose (approximately 22" long) to the 3/4" bung on the front of the coolant reservoir. Secure using one of the #10 hose clamps provided. Route the open end of the hose to the 1" hose previously connected to the factory coolant reservoir. Connect and secure the two hoses using the 3/4" x 1" hose union, the factory 1" spring clamp and the #10 hose clamp provided.

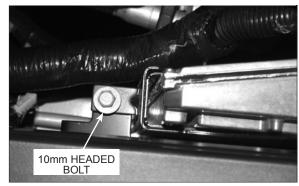


Fig. 8E-d

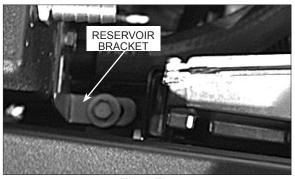


Fig. 8E-e

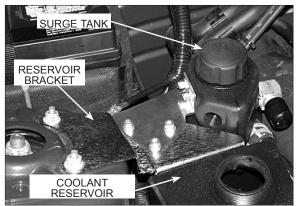


Fig. 8E-f

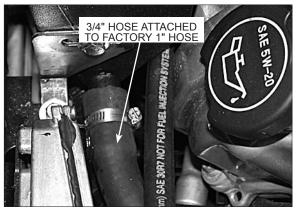


Fig. 8E-g

#### E. ENGINE COOLANT RESERVOIR INSTALLATION (2007-2010 Models Only), cont'd

- **9.** Modify the small hose removed from the factory coolant overflow reservoir. By cutting the "S" bend off the hose end. (See *Fig. 8E-h.*)
- **10.** Install a 3/8" union and a #17 stepless clamp. Secure the clamp. Using a length of 3/8" (*approximately 40" long*) hose that is provided, secure the hose to the union with a #17 stepless clamp. (See *Fig. 8E-i*.)
- **11.** Route the overflow hose across the radiator and under the radiator retaining bracket to the 1/4"NPT x 3/8" hose barb fitting in the coolant reservoir securing with a clamp. (See *Fig.* 8*E*-*j*.)



Fig. 8E-h



Fig. 8E-i



Fig. 8E-j

#### F. COOLER CORE INSTALLATION

- **1.** Locate the charge air cooler assembly.
- **2.** Attach the 4.5" x 2" sleeve to the throttle body and secure with a #72 hose clamp.
- **3.a** (Non-V-Power/Bullitt Kits only) Install the 1/2"NPT x 3/4" barb 90° and straight fittings into the charge cooler as shown. (See *Fig. 8F-a.*)
- **3.b** (V-Power/Bullitt Kits only) Install the two 1/2" NPT x 3/4" barb 90° fittings into the charge cooler as shown (See Fig. 8F-b)
- 4. Attach the long end of the 2.75" (3" if V-Power) silicone elbow to the cooler inlet and loosely install a #44 (#48 on V-Power cars) hose clamp. The open end of the elbow should be facing up as it will be attached to the supercharger discharge.
- **5.** Lower the cooler assembly into position. Attach the open end of the previously installed 2.75" elbow to the supercharger discharge and loosely install a #44 hose clamp.
- 6. Attach the cooler discharge to the previously installed sleeve on the throttle body. Secure with a #72 hose clamp.
- 7. Tighten all cooler clamps at this time.
- Locate one of the remaining 3/4" molded 90°. Trim approximately 5" from the long end and attach the short end to the forward most 3/4" x 90° fitting previously installed in the cooler. Secure with the nylon ratchet clamp provided.
- **9.** Install a 3/4" hose union into the open end of the previously installed hose. Attach a section of 3/4" hose approximately 32" long to the union. Route the open end of the hose to the surge tank. Using the remaining adel clamp and factory hardware, secure the hose to the factory coolant reservoir mounting location. (See *Figs. 8B-q, 8F-c* for assistance.) Secure all hose connections with the supplied nylon ratchet clamps.
- **10a.** (Non-V-Power/Bullitt Kits only) Locate the supplied "S" shaped hose. Trim approximately 1" from the short end and attach it to the straight fitting previously installed in the cooler. Install a 3/4" hose union into the open end of the "S" hose. Attach a section of 3/4" hose approximately 24" long to the union and route to the driver's side and down to the water cooler. Trim for best fit and connect to the 3/4" hose union previously installed in the 90° short rubber hose attached to the top water port on the CAC cooler.

NOTE: The installation of this hose section should maintain an "uphill" routing without dips or kinks.

10b (V-Power/Bullitt Kits only) Locate the remaining 3/4" molded 90° hose and install on the rear most 3/4" x 90° fitting previously installed in the CAC. Secure with the nylon ratchet clamp provided. Trim as required. Using the supplied 3/4" barb union connect the other end of the molded 90° hose to a section of 3/4" hose approximately 24" long routed to the driver side and down to the top of the water cooler. trim for best fit and connect to the 3/4" hose union previously installed in the 90° short rubber hose attached to

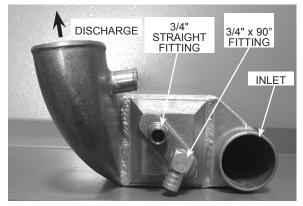


Fig. 8F-a

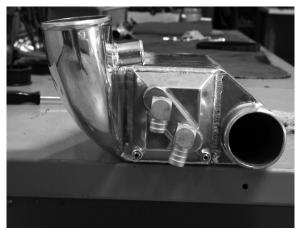


Fig. 8F-b

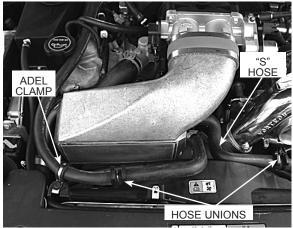


Fig. 8F-c

the top port on the CAC water cooler.

- **11.** At this time, verify that all hose connections are secure using the nylon ratchet clamps provided.
- (2007-2010 Models Only) To provide additional clearance for the CAC, you will need to cut the factory radiator hose approximately 4" from its connection at the radiator. Install the supplied Ø1.5" x 4" hose union and two #24 hose clamps. Adjust to allow CAC clearance and secure. (See Fig. 8F-c.)

#### G. COOLANT RESERVOIR FILL

- 1. Check to make sure all previously installed hose connections are secure.
- 2. Fill the engine cooling system through the Vortech supplied coolant reservoir using the factory coolant previously drained.
- **3.** Locate the factory coolant reservoir cap removed in section 1 and install it on the Vortech supplied reservoir.
- **4.** (2005-2006 Only) Once the coolant system is filled and all trapped air expelled, install the 1/8"NPT plug provided in the previoisly installed cross-over tube. Thread sealant should be used.
- 5. CAC cooling system.
  - **a.** Temporarily remove the 3/4" hose attached to the 3/4" x 90° fitting on the CAC surge tank.
  - **b.** Cap the open end of the 3/4" x 90° fitting using the provided vinyl cap.
  - **c.** Fill the CAC system using a 25%/75% antifreeze/water mix. Using a funnel, fill through the 3/4" hose removed from the surge tank fitting.
  - **d.** Fill the system until the coolant level reaches the surge tank.
  - e. Remove the vinyl cap from the surge tank fitting and reinstall the 3/4" hose previously removed and secure with the nylon ratchet clamp.
- 6. Reinstall the front bumper assembly including the foam inner bumper, all plastic splash panels and light connections in the reverse order removed.

**2010 Models** skip this step and see section 8H.

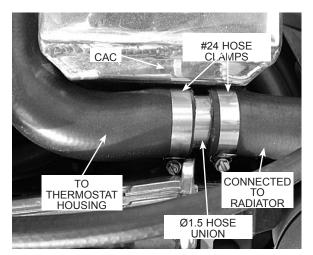


Fig. 8F-c (2007-10 MODELS ONLY)

#### H. BUMPER COVER MODIFICATION (2010 MODELS ONLY)

- 1. 2010 Models will require the removal of the lower grill uprights and certain surronding areas to clear the water cooler. (See Fig. 8H-a)
- 2. Cut out vertical supports in lower grill opening. the upper lip of the grill should be trimmed back to approximately 4-1/4" when measured from the back side of the grill. (See Fig. 8H-b)
- **3.** The lower lip should be trimmed back approxi mately 4-1/4" measured from the front of the grill. (See Fig. 8H-c)



Fig. 8H-a



Fig. 8H-b

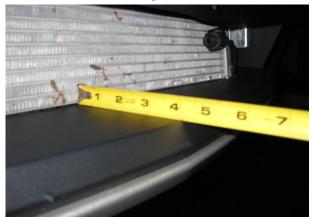


Fig. 8H-c

#### H. BUMPER COVER MODIFICATION (2010 MODELS ONLY) con'td

- **4.** Trial fit bumper and check for interference against intercooler. Additional removal of mate rial may be required to clear the intercooler end tanks and brackets (See Fig 8H-d,e).
- 5. Remove bumper and mark on upper lip supports 1" from edge. Drill a 1/4 " hole from the top of the support through the lip of the grill. From the bottom drill a 5/16" hole through the lip only, being careful not to drill through the support. An angle drill using the shortest bit possible is recommended.
- Install the supplied 1/4-20 Nylon shouldered bolts from the lip side so that the threads pro trude through the supports and attach with the supplied 1-4/20 Nylock nut (See Fig. 8H-f). Do not over tighten nuts.
- 6. Reinstall the front bumper assembly including the foam inner bumper, all plastic splash panels and light connections in the reverse order removed. See Fig. 8H-g for final installation reference.



Fig. 8H-d



Fig. 8H-e



Fig. 8H-g



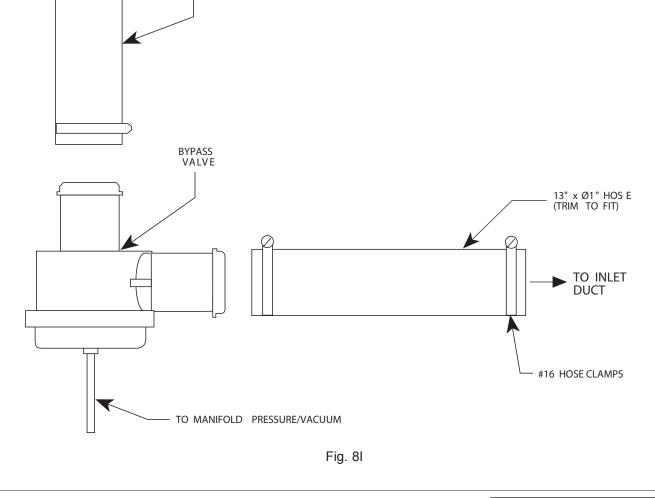
Fig. 8H-f

#### I. COMPRESSOR BYPASS VALVE INSTALLATION (V-POWER/BULLIT KITS SKIP TO 8J)

- Assemble the bypass using a piece of 1" hose cut to 11" long and a piece cut to 13" long and four #16 hose clamps.
- **2.** Attach the 11" piece of hose to the inlet of the bypass and secure with a clamp.
- **3.** Secure the 13" piece to the outlet of the valve, securing it with a clamp. (See *Fig. 81*.)
- 4. Attach the bypass assembly to the charge cooler. The 11" long piece will be attached to the charge cooler. Secure with clamps. Leave the 13" long section open for future attachement to the air inlet.
- **5.** Attach a length of 5/32" vacuum hose to the bypass valve and route to the vacuum port of the fuel rail sensor.

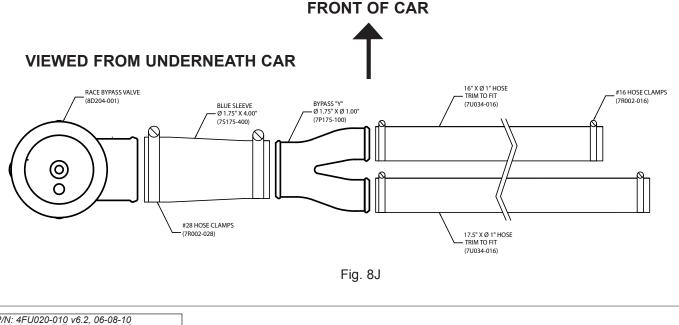
11" x Ø1" HOS E (TRIM TO FIT) TO DISCHARGE TUBE

- 6. Cut a section of the factory hose and install the vacuum TEE that is provided. (See *Fig. 10-b*)
- 7. Attach the vacuum hose from the bypass valve to the TEE.



## J. V-POWER/BULLIT COMPRESSOR BYPASS VALVE INSTALLATION

- Assemble the bypass using the supplied Maxflow Race Bypass valve, Ø 1.75" silicone coupler with two #28 hose clamps, Bypass "Y", and two lengths of 1" hose cut to lengths of 16" and 17.5" with four #16 hose clamps. (See Fig. 8J)
- 2. Attach the Maxflow Race Bypass Valve to the flange located on the lower duct of the CAC using the supplied hardware and gasket.
- **3.** Attach one end of the Ø 1.75" silicone coupler to the outlet of the bypass valve and secure with #28 hose clamp.
- **4.** Insert the Ø 1.75" side of the bypass "Y" into the open end of the Ø 1.75" silicone coupler and secure with #28 hose clamp.
- 5. Secure the two lengths of 1" hose cut to 16" and 17.5" to the two outlets on the bypass "Y" with #16 hose clamps (See Figure 8I-a for orientation).
- **6.** Leave the opposite ends of the 1" hose open for future attachment to the air inlet box.
- 7. Attach a length of 5/32" vacuum hose to the bypass valve and route to the vacuum port of the fuel rail sensor.
- Cut a section of the factory hose and install the vacuum TEE that is provided (See Fig. 10-b).
- **9.** Attach the vacuum hose from the bypass valve to the TEE



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## 9. AIR DISCHARGE ASSEMBLY (Non-cooled kits only)

- **A.** Attach the 4.5" sleeve to the discharge duct with the #72 clamps provided.
- **B.** Install the 3.0" x 2.75" reducer to the inlet of the discharge duct and secure the #48 hose clamp provided.
- **C.** Install the duct to the inlet of the throttle body and the outlet of the supercharger Secure the remaining #72, and #44 hose clamps provided. (See *Fig. 9-a.*)

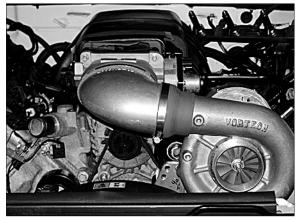


Fig. 9-a

## 10. COMPRESSOR BY-PASS VALVE INSTALLATION (Non-cooled kits only)

- A. Assemble the compressor by-pass valve by using a piece of 1" hose cut 15" long and a piece cut to 4.25" long, and four #16 hose clamps.
- **B.** Attach the 4.25" piece of hose to the inlet of the bypass and secure with a #16 clamp.
- **C.** Secure the 15" piece to the by-pass valve outlet using a #16 hose clamp. (See *Fig. 10-a*.)
- D. Attach the open end of the 4.25" hose to the boss on the air discharge duct. Secure with a #16 hose clamp. The open end of the 15" long hose will be connected to the air inlet in a future step.
- E. Secure all hoses with the clamps provided.
- F. Connect the supplied length of 5/32" vacuum to the port on the bypass valve. Route the line to the fuel regulator vacuum hose. Using the supplied vacuum TEE, connect the bypass vacuum line. (See Figs. 10-a, 10-b, for assistance.)

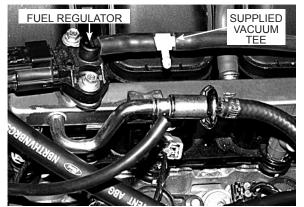
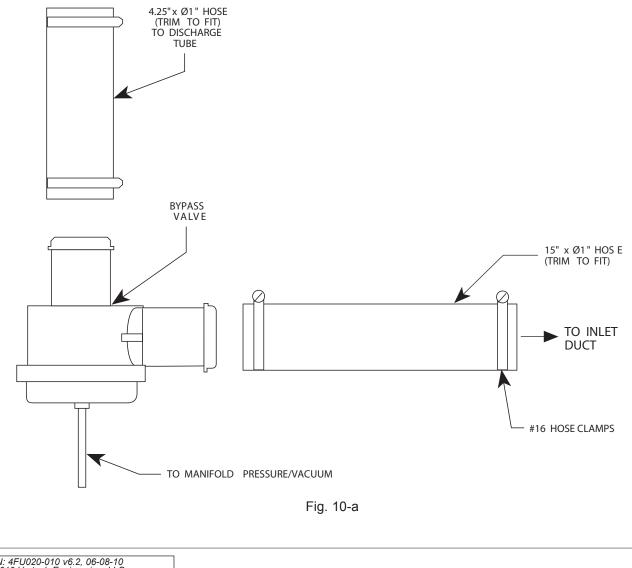


Fig. 10-b



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## 11. COOLANT RESERVOIR RE-INSTALLATION (Non-cooled kits only)

- **A.** Reinstall the factory coolant reservoir using factory hardware to secure.
- **B.** Reattach the large hose at the bottom of the reservoir using the factory hose clamp.
- **C.** Reconnect the small overflow hose at the top using the factory clamps.
- **D.** Check all cooling system hose connections to make sure they are secured with the appropriate hose clamps.
- **E.** Refill the cooling system using the previously drained coolant.
- **F.** (2005-2006 Only) Once the coolant system is filled and all trapped air expelled, install the 1/8"NPT plug provided in the previously installed crossover tube. Thread sealant should be used.

## **12. CRANK CASE BREATHER AND PCV INSTALLATION**

- A. Locate PVC/MAF assembly 4FU139-096.
- B. Install the hose assembly between the driver's side valve cover and the intake manifold. Secure hose connections as necessary using the supplied stepless clamps.
   (See Figs. 12-a, 12-b for assistance.)
- **C.** Locate the factory 3/8" x 90° fitting removed from the passenger's side valve cover in a previous step.
- **D.** Connect the remainder of the supplied 3/8"ID hose to the 90° fitting and connect to the passenger's side valve cover. (See *Fig. 12-c.*)
- E. Route the open end of the 3/8" hose behind the alternator and across to where the air inlet duct will be located.



Fig. 12-a

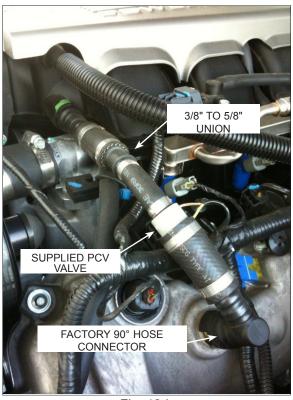


Fig. 12-b

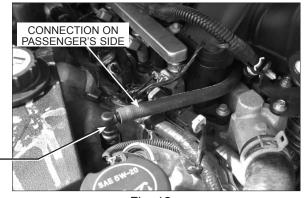


Fig. 12-c

FACTORY 90° HOSE CONNECTOR

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## **13. AIR INLET ASSEMBLY**

- A. Locate assembly 4FU112-010.
- **B.** Remove two of the 3/8-16 x 1" bolts securing the supercharger in place. Install the air inlet support bracket and secure with the 3/8" bolts removed from the supercharger mounting plate. (See *Fig. 13-a.*)
- **C.** Install the 3/4"NPT x 1" x 90° plastic fitting to the air inlet duct. (See *Fig. 13-b.*)
- **D.** Install the 1/4"NPT x 3/8" hose barb fitting in the location noted. (See *Fig. 13-c*.)
- D.2 (V-Power/Bullitt Kits Only) Drill out the second 3/4" NPT location on the air inlet duct using caution not to damage the threads and install the second 3/4" NPT x 1 x 90° plastic fitting to the air inlet duct. Orient both fittings as shown in Fig 13-d2.
- E. Attach the 4.0" x 3.5" reducer sleeve to the inlet duct. Secure the sleeves with the clamps provided. (See *Fig. 13-d*.)

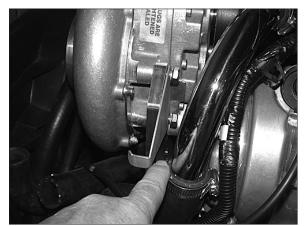


Fig. 13-a

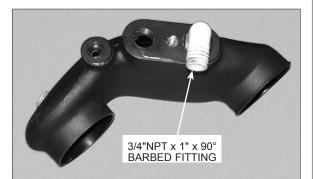


Fig. 13-b



Fig. 13-c



Fig. 13-d2 (V-Power/Bullitt Kits Only)



Fig. 13-d

## 13. AIR INLET ASSEMBLY, cont'd

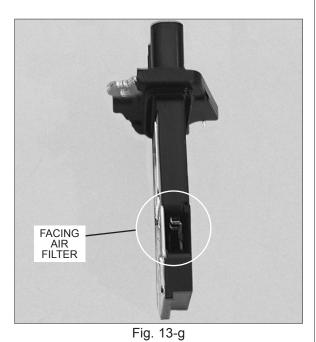
- F. Attach the 3/8" hose previously connected to the passenger's side valve cover, to the 1/4"NPT x 3/8" hose x 90° fitting installed in a previous step.
- **G.** Attach the 1" bypass outlet hose to the 90° plastic fitting and secure the hose with a #16 hose clamp.
- **H.** Install the duct to the inlet of the supercharger and secure in place with the clamps provided.
- I. Locate and install a 4.0" x 2.0" long sleeve to the inlet of duct 4FU012-010 and secure with two #64 clamps. (See *Fig. 13-e.*)
- **J.** Remove the Factory MAF sensor element from the top portion of the air filter housing.
- K. Install the element using the 4mm hardware provided to the supplied MAF tube. (See *Figs. 13-f, 13-g.*)



Fig. 13-e



Fig. 13-f



NOTE: Install the MAF sensor element so the inlet of the sensor faces the air filter. (See Fig. 10-h.)

- L. Install the MAF sensor and air filter to the 180° duct. (See *Fig. 13-h*.)
- Install the 180° duct and the MAF sensor with filter to the inlet duct leading to the Supercharger. (See Fig. 13-i.) Clock the MAF exactly as shown. (See Fig. 13-i.)
- N. Secure the rear clamp at the inlet duct union to the previously installed support bracket. (See *Fig. 13-i.*)
- **O.** MAF (*Mass Air Meter*) (*Non-Cooled Kits Only*) Harness Extension:
  - 1. Locate the supplied wire and butt connectors in assembly 4FU101-001.

## 13. AIR INLET ASSEMBLY, cont'd

NOTE:	It is strongly recommended that the
	wires be soldered. Temporary sol-
	derless connectors have been pro-
	vided in case you are unable to sol-
	der.

- 2. Remove the split loom from the factory wires on the MAF sensor.
- **3.** Cut the wires to the connector approximately 2" from the plug.
- **4.** Using the supplied connectors and wire, extend the connector to the MAF.
- **5.** Install the supplied 3/8" split-loom to the extended sensor plug harness. Secure the split-loom with wire-ties or tape.
- 6. Route the lengthened wires and connector to the MAF, keeping the wires away from hot or moving parts.
- P. MAF Interface Adapter Installation (Charge Cooled kits only)
  - **1.** Locate the MAFia (*Interface Adapter*) box.
  - 2. Plug the MAFia in between the factory MAF connector and the MAF sensor.
  - **3.** Remove the small red cover in the middle of the supplied MAFia box.
  - 4. Verify that the MAFia box is set on number "2".
  - 5. If you find that the MAFia box is not set, use the tool that is provided with the MAF Interface Adapter box and set to the number "2".
  - 6. Replace the cover and secure the MAFia box and set to the number "2".

NOTE: It is critical that the MAF Interface Adapter box be set on number "2", The calibration that is provided with this kit has been created to work at this setting. Any change to the MAF Interface Adapter box by setting it to a higher or lower number could cause damage to the engine.

Q. On 2010 models it will be neccesary to bend the hood latch cable bracket 90° for air filter clearence.(See Fig 13-j)



Fig. 13-h



Fig. 13-i

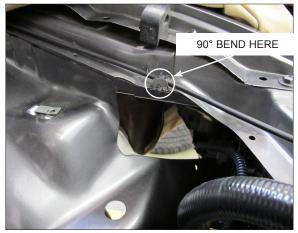


Fig. 13-j

## **14. FUEL PUMP UPGRADE**

NOTE: This section is best performed with the fuel level BELOW half a tank.

- A. Remove the rear seat by depressing the two release buttons at the front edge of the seat. (See *Fig. 14-a.*)
- **B.** Remove the round plastic inspection cover on the driver's side. (See *Fig.14-b*.)
- **C.** Unplug the sending unit harness and disconnect the fuel line connection.
- D. Using a small screwdriver or chisel and hammer, tap the retaining ring in a counter clockwise direction. Remove the retaining ring and set aside. (See Fig. 14-b.)
- **E.** Slowly pull the fuel pump assembly up. Locate the crossover fuel line connection on the fuel pump assembly and disconnect. (See *Fig. 14-c.*)
- **F.** Remove the pump assembly from the tank being careful not to damage or lose the rubber O-ring.
- **G.** Carefully cut the step-less clamps securing the short corrugated fuel line between the fuel pump outlet and distribution rail. Remove the fuel line and discard. (See *Fig. 14-d.*)

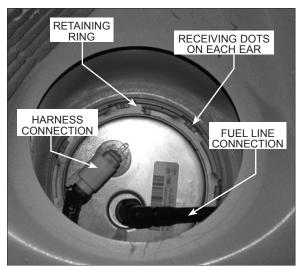


Fig. 14-b



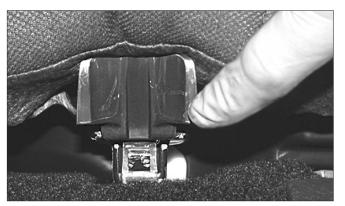


Fig. 14-a

Fig. 14-c

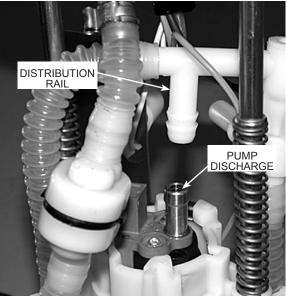


Fig. 14-d

## 14. FUEL PUMP UPGRADE, cont'd

- H. Using the supplied 17.0 stepless clamps and 2.75" length of Ø3/8" rubber hose, connect the supplied "Y" fitting to the distribution rail. (See *Fig. 14-e.*)
- I. Locate the supplied fuel pump and pump inlet screen. Attach the pump inlet screen to the pump and orient exactly as shown. (See *Fig. 14-f.*)
- J. Secure the supplied fuel pump to the side of the factory pump assembly using the #44 hose clamp supplied. Verify that the hose clamp is routed inside of the metal posts so that they can be pushed down without restriction. (See *Fig. 14-f.*)
- K. Slide the two supplied .75" long teflon sleeves over the discharge of each fuel pump. (See *Fig. 14-g.*)

NOTE: The supplied 1.5" long Teflon tube will need to be cut into two .75" long pieces.

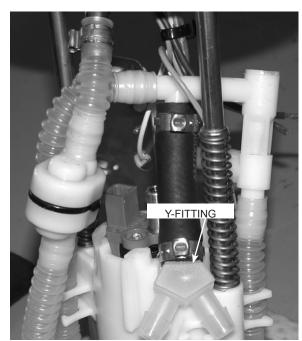
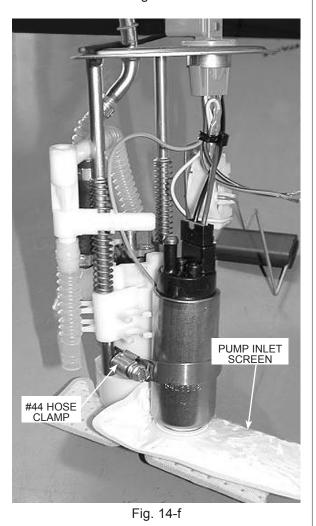


Fig. 14-e



## 14. FUEL PUMP UPGRADE, cont'd

- L. Slide the supplied 11.3 stepless clamps onto the two open legs of the Y-fitting. Connect the discharge of both pumps to the previously installed "Y" fitting using the two supplied Ø3/8" corrugated teflon hoses. Secure the remaining hose ends using the supplied 11.3 stepless clamps. (See *Fig. 14-h.*)
- M. Secure all hoses to the fuel pump assembly using the supplied ties. Make sure the lid is able to spring up and down without restriction and that the hoses do not kink. (See Fig. 14-h.)
- **N.** Use the supplied T-splice and slide connectors to connect the black and red wires from the supplied pump to the corresponding power and ground on the factory pump. (See *Fig. 14-h*.)
- **O.** Reinstall the fuel pump assembly into the fuel tank in the reverse order of removal. Ensure that the fuel hoses do not rub on the sharp edges of the fuel tank. Take care not to damage the assembly. *INSTALLATION WILL BE TIGHT*. Connect all fuel and electrical connections. Verify that the fuel gauge float is able to move freely. Make sure the O-ring seal is in place and not damaged. There is an alignment arrow on the pump assembly top that will need to be aligned with the dot on the fuel tank. (See *Fig. 14-b.*)

NOTE: Retaining ring indents must engage their receivers for proper seal. (See Fig. 14-b.)

- P. Locate the power distribution box located on the passenger's side of the engine compartment. Verify the #41 fuse is for the fuel pump.(2010 Model year uses #13) Replace the factory 15AMP fuse with the supplied 20AMP fuse.
- **Q.** Cycle the ignition key and check for any fuel leaks, verify proper fuel gauge operation.
- **R.** Reinstall the plastic inspection cover and rear seat.



Fig. 14-g

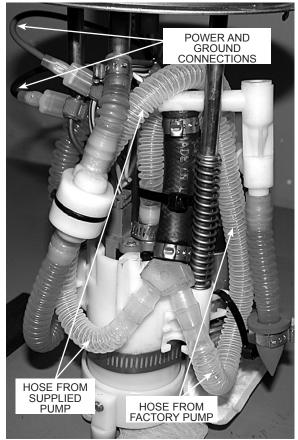


Fig. 14-h

## **15. REFLASH COMPUTER**

IMPORTANT! To ensure trouble-free programming of your vehicle's computer:

- Make sure the vehicle's battery is sufficiently charged.
- Turn off all accessories and close doors to prevent unnecessary drain on the battery.
- Do not attempt to program your vehicle while a battery charger is connected.
  - Improper battery voltage will result in failure of the programming process.
  - Do not disconnect the cable or turn off the ignition during programming.
- **A.** Reconnect the battery.
- **B.** Locate the vehicle's OBD2 connector located in the lower left hand corner of the dash on the driver's side of the vehicle. (See *Fig 15-a*.)
- **C.** Attach the OBD2 connector from the Flash tool (*provided in the kit*) to the vehicle's OBD2 port. (See *Fig 15-b.*) Make sure this connector is seated all the way into the vehicle's OBD2 port. You do not want this connector coming out during programming or damage may occur to the vehicle's ECM.
- **D.** The Reflash tool should power up and display three parameters:
  - 1. Performance Tune
  - 2. Diagnostics
  - 3. Options
- E. Select "Performance Tune" and press the enter button in the middle of the arrow keys. (See *Fig 15-c*.)
- **F.** Read the disclaimer entirely, then select agree and press ENTER.
- **G.** At this point please read the screen displayed on the reflash tool. If you have any questions, either refer to the manual provided with the reflash tool or contact our service department for further assistance.
- **H.** Turn the ignition on (*do not start the vehicle*). Set the parking brake and press the "ENTER" button to continue.
- I. "SELECT TUNE" will be displayed at the top of the screen. Use the arrow keys to select the appropriate tune for your vehicle and press the ENTER button. You will have four choices to select from:
  - **1.** STD OUTPUT (non charge-cooled)
  - 2. Charge-cooled, air/water
  - **3.** Charge-cooled, air/air (*this option is NOT used in this application*)
  - 4. Original Backup
- J. Continue to follow the screen and when finished unplug the reflash tool from the vehicles OBD2 port.

NOTE: Do not disturb the cable, or turn the ignition off during this time. If the programming is disrupted, the computer will not start or run your vehicle!



Fig. 15-a



Fig. 15-b



## 16. 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. If your vehicle has gone over 15,000 miles since its last spark plug change, you will need to change the spark plugs now *before* test driving the vehicle.
- B. Check all fittings, nuts, bolts and clamps for tightness. Pay particular attention to oil and fuel lines around moving parts, sharp edges and exhaust system parts. Make sure all wires and lines are properly secured with clamps or tie-wraps.
- **C.** Check all fluid levels, making sure that your tank(s) is/are filled with 91 octane or higher fuel before commencing test drive.
- **D.** Start the engine and allow to idle a few minutes, then shut off.

#### H.O Charge Cooled Kits Only

- NOTE: Check to see that CAC coolant is flowing through the surge tank. If coolant is not flowing, remove the 3/4" rubber hose from the side of the surge tank and apply light suction in an attempt to pass any trapped air in the system. Reconnect the hose and recheck coolant flow.
- E. Recheck to be sure that no hoses, wires, etc. are near exhaust headers or moving parts. Look also for any signs of fluid leakage.
- F. PLEASE TAKE SPECIAL NOTE: Operating the vehicle without ALL the subassemblies completely and properly installed may cause FAILURE OF MAJOR COMPONENTS.
- **G.** Test drive the vehicle.
- H. Always listen carefully for engine detonation. Discontinue heavy throttle usage if detonation is heard.
- I. Read the STREET SUPERCHARGER SYSTEM OWNER'S MANUAL AND RETURN THE WARRANTY REGISTRATION FORM within thirty (30) days of purchasing your supercharger system to qualify.

## For internally lubricated V3 units only

This supercharger has been factory pre-filled with special Vortech synthetic lubricant. Oil does not need to be added to a brand new unit; however a fluid level check should be performed.

Prior to operating the supercharger on the vehicle and after installation onto the vehicle:

Remove the factory installed flat-head brass shipping plug (not the dipstick) from the top of the supercharger case. Replace the sealed shipping plug with the supplied "vented" plug. Do not operate the supercharger without it. Check the supercharger fluid level.

#### Fluid level checking procedure:

- 1. Ensure that the .06" copper sealing washer is located on the dipstick base.
- 2. Thread the clean dipstick into the unit until it seats.
- 3. Once the dipstick has seated, remove the dipstick from the unit. Fluid should register in the crosshatched area on the dipstick.
- 4. DO NOT OVERFILL!!! Drain excess fluid from the unit if it is above the maximum level on the dipstick.

Check the fluid level using the dipstick at least every 2,500 miles.

Initial supercharger fluid change must be performed at 2,500 miles. The supercharger fluid must be changed at least every 7,500 miles.

Drain the fluid, refill the unit with 4 oz. of Vortech V3 lubricating fluid and then confirm proper oil level using the dipstick. DO NOT OVERFILL!!!

WARNING: Use of any other fluid other than the special Vortech lubricant will void the warranty and may cause component failure.



**ENGINEERING, LLC** 

1650 Pacific Avenue, Channel Islands CA 93033-9901 • Phone: 805 247-0226 Fax: 805 247-0669 • www.vortechsuperchargers.com • M-F 8:00AM - 4:30PM (PST)