

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 7:00am-3:30pm 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 (unmodified, 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, driveline 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.

©2022 VORTECH ENGINEERING, INC

All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, or translated into another language in any form, by any means without written permission of Vortech Engineering, Inc.

TABLE OF CONTENTS

FOREWORD	. ii
TABLE OF CONTENTS	.iii
NOTICE	.iv
TOOL & SUPPLY REQUIREMENTS	. v
PARTS LIST	.vi
1. BASIC COMPONENT REMOVAL	
2. COMPONENT MODIFICATIONS	10
3. MOUNTING BRACKET AND SUPERCHARGER INSTALLATION	15
4. CHARGE AIR COOLER INSTALLATION	
5. DISCHARGE ASSEMBLY INSTALLATION	20
6. AIR INLET ASSEMBLY INSTALLATION	24
7. COOLANT HOSE ASSEMBLY INSTALLATION	26
8. MAP / IAT INSTALLATION	27
9. GENERAL REASSEMBLY	
10. FINAL CHECK	31
APPX A. DIAGRAM, MOUNTING BRACKET ASSEMBLY	32
APPX B. DIAGRAM, AIR INLET ASSEMBLY	
APPX C. DIAGRAM, PCV ASSEMBLY	34
APPX D1-D2. DIAGRAM, DISCHARGE ASSEMBLY	35
APPX D3. DIAGRAM, RACE BOV UPGRADE ASSEMBLY	37
APPX E. DIAGRAM, COOLANT MOD ASSEMBLY	38
APPX F. DIAGRAM, SUPPORT ITEMS	39
APPX G. DIAGRAM, BELT ROUTING	40

NOTICE

This product is protected by state common law, copyright and/or patent. All legal rights therein are reserved. The design, layout, dimensions, geometry, and engineering features shown in this product are the exclusive property of Vortech Engineering, Inc. This product may not be copied or duplicated in whole or part, abstractly or fundamentally, intentionally or fortuitously, nor shall any design, dimension, or other information be incorporated into any product or apparatus without prior written consent of Vortech Engineering, Inc.

2021-2022 FORD F-150 5.0L Installation Instructions

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.
- 4. Always listen for any sign of detonation (pinging) and discontinue hard use (no boost) until problem is resolved.
- 5. 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 under hood emissions tag). Do not use platinum spark plugs unless they are original equipment. Change spark plugs every 15,000 miles.
- 6. Oil-Fed Units Only: 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 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.

Tool and supply requirements:

- 3/8" ratchet and socket set: SAE and metric
- 3/8" ratchet extensions
- 1/2" ratchet or breaker bar
- 1/4" and 3/8" torque wrenches
- Open end wrenches: SAE and metric
- Screwdriver set
- Hose cutters
- Utility knife
- Grinding tool (file, drum sander, dremel, etc.)
- Hex keys SAE
- 1/8", 11/64" & 1/4" drill bits
- Power Drill
- Heat Gun
- Medium Strength (Blue) threadlocker Medium Strength
- Thread sealant
- · Ramps or lift
- Clean coolant container

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

- Spark plug socket
- New spark plugs





2021-2022 FORD F-150 5.0L Tuner Kit Part No. 4FV218-110L / 114L / 118L PARTS LIST

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

PART NO. DESCRIPTION QT. PART NUMBER DESCRIPTION 008130 SMALL SILVER DIE CUT DECAL LICENSE PLATE FRAME, VORTECH 090353 4 APV010-00 BBRT, SUPPORT, ISSCHARE FUEL, 201 F10 000100 009303 SC LUBE, BOTTLED, 3-PACK 4 APV010-00 BBRT, SUPPORT, ISSCHARE FUEL, 201 F10 000100 2F328-2507254/258 VS SIC ASY, 2021 F150 S-L, 1X205 FORD TRUCK, 50 1 474010-00 BBRT, SUPPORT, ISSCHARE FUEL, 201 F10 07777500 3/2457100 3/2457100 3/2457100 4FV0120-010 INSTE MAN, SIC BRACKET, 2021 FORD TRUCK, 5.0 1 3/258100 1/440 X184, SR PHT BRUT, SIGHARE FUEL, 201 F10 07775000 3/2458100 1/440 X184, SR PHT 07775000 3/24581000000000000000000000000000000000000		parts	immediately.						-	
008130 LICENSE PLATE FRAME, VORTECH 1 2021 FORD TRUCK 008437 1 YR S/C STRT INFO PKG VORT 44700300 BRRT, UNREC DOCL, LIFT, TUS, 2021 2A0464837 BELT, GATES K050637 44700300 BRRT, CHARGE COCK, LIFT, TUS, 2021 2F329-250/254/256 V3 S/C ASY, 2021 FORD 50, 0.0., SAT / BLK / FOLD 74751000 BRRT, CHARGE COCK, LIFT, TUS, 2021 4FV020-010 INSTE MARK, SCRW 7737500 1 /// AVAINES, ASK, PL 7737500 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, S.0 1 7737500 1 /// AVAINES, ASK, PLTO 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, S.0 1 4FV139-096 PCV ASSY, 50.L 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, S.0 1 4FV139-096 PCV ASSY, 50.L 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, S.0 1 4FV139-096 PCV ASSY, 50.L 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, S.0 1 1 /// HV13848 ERAND, 75 NOM. 4FV112-V100400 S/C ASE FLATE FRANK, 10 KER PULLY, 33 '// NA MARK, 14 KER PULLY, 33 '// NA MARK, 1	ART NO.		DESCRIPTION	QT	FY.	PART NU	MBER	DESCRIPTION	QTY.	
2008130 LICENSE PLATE FRAME, VORTECH 1 2021 FORD TRUCK 008437 1 YR S/C STRT INFO PKG VORT 4 47010-030 BRT, CHARCECOLR, LIFT, TJD, 2021 2A046-837 BELT, GATES K060837 1 47010-030 BRT, CHARCECOLR, LIFT, TJD, 2021 2F329-250/254/258 V3 S(C. CASY, 2022 F150 5.0.L, SAT / BLK / POL 1 7275-001 1 4FV020-010 INSTT MAN, S/C BRACKET, 2021 FORD TRUCK, 5.0 1 7775-021 3/476 X16 KHCS, RT 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, 5.0 1 7775-021 3/476 X16 KHCS, RT 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, 5.0 1 4FV139-096 PCV ASSY, 5.0L 4FV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, 5.0 1 4FV139-096 PCV ASSY, 5.0L 4FV1139-0198 SERFAIR FRONT, 100, LIE RULEY, 3.0L 1 1/7776573 1/7808001 1/777785741 200175974 SNODOFL3971, D.BRY, D.B	008110	<u>e</u>	MALL SILVER DIE CUT DEC	CAL	2	4FV115-01	0	SUPPORT ITEMS. CAC SYS.		
008447 1 YR S/C STRT INFO P/KG VORT 1 4700.020 BRT, CLADE, 2021 F100 008033 S/C LUBE, BOTTLED, 3-PACK 4700.020 BRT, CLARGE COURS, ET, T193, 2021 2F329-250/254250 Y S/C ASY, 2021 F100 5.0.1, SAT, 718/KL POD 1 47000.020 BRT, CLARGE COURS, ET, T193, 2021 2F329-250/254250 Y S/C ASY, 2021 F100 5.0.1, SAT, 718/KL POD 1 74350.01 1/4-20 XI INFCS, RET, T193, 2021 4FV10-044 INSTR MAN, S/C BRACKET, 2021 FORD TRUCK, 5.0 1 7723-00 1/4-20 XI INFC, RET, T193, 2021 4FV110-044 MTING BRKT ASSY, 2021 FORD TRUCK, 5.0 1 7723-00 3/5 SK WASHE, PITO 7727-00 4FV110-044 MTING BRKT ASSY, 2021 FORD TRUCK, 5.0 1 7723-00 3/6 SK WASHE, PITO 7727-00 4FV110-050 STANDOF, 3071 0, 0.103*1 1 7725-00 1/2* WHIS MEETING, SK WASHE, PITO 7700-00 4FV110-001 STARE FLARE FLAR, 70, 70, 0.105*1 1 7725-00 1/2* HAT SHRM, WIS MEETING, SK WASHE, PITO 7700-70 4FV110-001 STARE FLARE FLARE AND THO NAW, INCK POUND, 0.5* 1 7700-70 7700-70 4FV110-001 STARE FLARE FLARE AND THO NAW, INCK POUND, 0.5* 1							-			
D09035 S/C LUBE, BOTTLED, 3-PACK 1 4 *V00-00 BKK, CHARGE CODER, MRHT, F130, 2021 2A046-837 BELT, GATES KO60837 1 4 *V00-00 BKK, CHARGE CODER, MRHT, F130, 2021 2F232-250/250/254/258 V3 S/C ASY, 2021 F150 5.0L, SAT, YELK / POL 3 // 8 ISK UNER CODER, MRHT, F130, 2021 4FV020-010 INSTER MAN, S/C BARCKET, 2021 FORD TRUCK 1 7/77500 4FV110-044 MTHO BRITLASSY, 2021 FORD TRUCK, 5.0 1 7/77500 4FV110-044 MTHO BRITLASSY, 2021 FORD TRUCK, 5.0 1 7/77500 4FV110-044 MTHO BRITLASSY, 2021 FORD TRUCK, 5.0 1 7/77500 4FV110-044 MTHO BRITLASSY, 2021 FORD TRUCK, 5.0 1 7/77500 4FV110-044 MTHO BRITLASSY, 2021 FORD TRUCK, 5.0 1 7/77500 14707380.07 STORDET, 3010, 2037 (10, 4357) L 1 7/77500 147017480.07 STORDET, 3010, 2037 (10, 4357) L 1 7/77500 147017480.07 STORDET, 3000, 2037 (10, 10, 37) L 1 7/77500 147017481 AFR SIMMANG SUPPORT, 17 MM, DIER PULTY, 3310 (1357) L 1 7/702500 SR FISC SIMP, 26X 770MM, 700 (137			•							
Display Display Display Display Display Display 2F329-250/254/258 VS S/C ASY, 2021 F150 S.0., SAT / BLK / DOL 1 4/V020-000 14/20 XH INCS 2002 F170 J.2021 2F329-250/254/258 VS S/C ASY, 2021 F150 S.0., SAT / BLK / DOL 1 7/010-001 1/4/20 XH INCS 2002 F170 J.2021 2F329-250/254/258 VS S/C ASY, 2021 F07D TRUCK 1 7/010-01 1/4/20 XH INCS 2002 F170 J.2021 4FV110-044 MTNO ERRY ASSY, 2021 F07D TRUCK, 5.0 1 7/010-01 1/4/20 XH INCS 2002 F170 J.2021 4FV110-044 MTNO ERRY ASSY, 2021 F07D TRUCK, 5.0 1 7/010 J.2021 1/4/20 XH INCS 2002 F170 J.2021 4FV110-044 MTNO ERRY ASSY, 2021 F07D TRUCK, 5.0 1 7/010 J.2021 1/4/20 XH INCS 2002 F170 J.2021 1/010-051 MINOUS MINING F1700 J.2021 1/4/20 XH INCS 2002 F170 J.2021 1/4/20 XH INCS 2002 F170 J.2021 1/010-051 TRUEM DRUCK, 5.0 1 1/7/270 J.2021 1/4/20 XH INCS 2002 F170 J.2021 1/010-051 TRUEM DRUCK, 5.0 1 1/4/20 XH INCS 2002 F170 J.2021 1/4/20 XH INCS 2002 F170 J.2021 1/010-051 TRUEM DRUCK, 5.0 1/4/20 XH INCS 2002 F1	08447	1	YR S/C STRT INFO PKG VO	RT	1					
2A046-337 BELT, GATES K060037 1 7,7375010 1,42 bit Mics Zink ratio PF022-250/254/258 V3 SC GASY, 2021 F165 0.50L, SAT, BLK / POL 7,775021 7,745 100 1,42 bit Mics Zink ratio FFV020-010 INSTE MAN, SIC BRACKET, 2021 FORD TRUCK, 5.0 1 1,775 021 3,48 is NILOCK HUT AND PLATED SFV110-044 MTNG BRKT ASSY, 2021 FORD TRUCK, 5.0 1 775 021 3,48 is NILOCK HUT AND PLATED 70002-051 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 770002 001 1,42 W SHRMER, S.6, PID 70002-051 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 770001 001 1,42 W SHRMER, S.6, PID 70002-051 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 77775 021 3,48 is NILOCK HUT AND PLATED 70002-051 S/R ANDOF, 207 D, 207 0.1 0.037 L 1 77775 0021 1,47 W HINE SHILEY ASSY, 7000.1 0.037 L 70001-051 SINADOF, 207 D, 700 0.1 0.037 L 1,77 WAID DIER WULLY, 43'D DI 1.057 L 1,77 WILO 2000 2021 FORD TRUCK, 5.0 7001-071-051 SIRA WAID WULLY, 300 HINE FULLY, 43'D DI 1.057 L 1,77 WILO 2000 2021 FORD TRUCK, 5.0 70101-051 SIRA WAID WULLY, 430 DI 1.05 K, 437 W WILO L'HOSE 770004 007 STEPLESS CLAMP, 26 X 70M WID L'HOSE </td <td>09035</td> <td></td> <td>S/C LUBE, BOTTLED, 3-PACI</td> <td>ĸ</td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	09035		S/C LUBE, BOTTLED, 3-PACI	ĸ	1					
2F329-250/254/258 V3 SiC ASY, 2021 F160 5.0L, SAT / BLK / POL 7,737:100 3/8 IS X LOB HICS, PT 	2A046-837		BELT, GATES K060837		1					
SAT / BLK / Pol T <tht< th=""> T T</tht<>	2E329-250/2	254/258	•							
IFV020-010 INSTE MAN, S/C BRACKET, 2021 FORD TRUCK 7755021 1/4-20 WINCK HARGE NUT IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 7755021 1/4 WINCK HARGE NUT IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 7755021 1/4 WINSHE, RAL, PITO IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 7755021 1/4 WINSHE, RAL, PITO IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO 1/4 WINSHE, PITO IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV110-044 MTNG BRKT ASSY, 2000 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV112-010 SC BASE PLATT BRAN, 2021 FORD TRUCK, 5.0 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV112-010 MINOF, 2001, NM, IDEE PULICK, SST 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV112-010 MINOF, 2001, NM, IDEE PULICK, SST 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV112-010/04/GRB ARIN INT THE MINET UBE, 2021 FISO, SAT/BIK/POL 1/4 WINSHE, RAL, PITO 1/4 WINSHE, RAL, PITO IFV112-000/04/GRB ARIN INT THE WINSHE		234/230		- ,	1					
2021 FORD TRUCK 1 7/255001 2/4 Wishtler, SLA, Parton SFV110-044 MTNG BRKT ASSY, 2021FORD TRUCK, 5.0 1 7/255001 3/6 Star Washtler, SLA, Parton SFV110-044 MTNG BRKT ASSY, 2021FORD TRUCK, 5.0 1 7/255001 3/6 Star Washtler, SLA, Parton SFV110-044 MTNG BRKT ASSY, 2021FORD TRUCK, 5.0 1 7/255001 3/6 Star Washtler, SLA, Parton SFV110-043 Star Washtler, SLA, Parton 2021 FORD TRUCK, 5.0 1 AU778033 Stanbort, 307 10, ABT 0, LAST 1, VALVE, 500 1 1 SW001-030 STANDORT, 307 10, ABT 0, LAST 1, VALVE, 500 1 1 MU278033 Stanbort, 397 10, ABT 0, LAST 1, VALVE, 500 1 1 MU278033 Stanbort, 397 10, MBT 0, LAST 1, VALVE, 500 1 1 MU278033 Stanbort, AGT MM, IDLER PULLE, 331 10 X 1197 L 1 1 1 1 MU278033 Stanbort, AGT MM IDLE PULLE, 331 10 X 1197 L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	1EV020-010	`	NSTE MAN SIC REACKET							
IFV110-04// IFV110-001 MTNG BEKT ASSY, 2021FORD TRUCK, 5.0 7/375-041 3/8 SAE WASHER, PLITD TRUCK 50 IFV010-000 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV010-000 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV010-000 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV010-000 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV0179-001 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV0179-001 S/C BASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 IFV0179-001 S/R MODEF, 357 / 00, 4807 / 00, 3397 / 1 1 IFV0179-001 S/R MADOFF, 357 / NM, IOLEE PULLEY, 437 / 01, 1.07 / 1 1 IFV0179-001-380 ELBARING SUPPORT, 17 AM, IOLEE PULLEY, 437 / 01, 1.07 / 1 1 77604-00 IFV112-001/04/068 ABRING SUPPORT, 17 AM, IOLEE PULLEY, 437 / 01, 1.07 / 1 1 77604-00 IFV112-001/04/068 ABRING SUPPORT, 17 AM, IOLEE PULLEY, 437 / 01, 1.07 / 1 77604-00 SIFFLESS CLAMP, 2.64 X FMW WID 1* HOSE IFV112-001/04/068 ABRING TUPE, 2021 FORD TRUCK, SAT / BLK / POL 1 77004-00 SIFFLESS CLAMP, 2.64 X FMW WID 1* HOSE IFV112-001/04/068 ABRING TUPE, 2021 FORD TRUCK, SAT / BLK 1 77003-05 77004-04 IFV112-001/04/07 SIFFLESS CLAMP, 2.64 X FMW WID 1* 10020-05 770070-14 IFV12	1 0020 010	,			1					
FY110-044 MTNG BRKT ASSY, 2021FORD TRUCK, S.0 7802-052 #52 SAE TYPE F SS HOSE CLAMP FY010-043 S/C BASE PLATE REAR, 2021 FORD TRUCK, S.0 1 FV139-096 PCV ASSY, 2021 FORD TRUCK, S.0 AU77-70-05 STANDOFF, 3-01 D, 700' OD, 1053' L 1 SW001-030 1.1/2' HEAT SHAINK AU77-70-05 STANDOFF, 3-01 D, 700' OD, 1053' L 1 5W001-030 1.1/2' HEAT SHAINK AU77-78-045 STANDOFF, 3-01 D, 700' OD, 1053' L 1 7W00-000 STEPLESS LOWD, 38' NO.8 AU77-78-045 STANDOFF, 3-01 D, 800' OD, 397' L 1 7W00-102 STEPLESS LOWD, 38' NO.8 IV037-980-138 BEARING SUPPORT, 17 MM, IDLER PULLEY, 331' ID X.187' L 1 7W00-000 STEPLESS CLAMP, 26 S.7M MW ID 1+0SE IV037-980-138 BEARING SUPPORT, 17 MM, IDLER PULLEY, 331' ID X.187' L 1 7W00-000 STEPLESS CLAMP, 26 S.7M MW ID 1+0SE IV010-00 BKX, AR RINET LEBOW, BOTOMOLDED, 1N PORT 1 7W030-000 STEPLESS CLAMP, 28 S.7M MW ID 1+0SE FV112-080/064/068 AR INLET LEBOW, BOTOMOLDED, 1N PORT 1 7W030-000 STEPLESS CLAMP, 28 S.7M MW ID 1+0SE FV112-080/064/068 AR INLET LEBOW, BOTOMOLDED, 1N PORT 1 7W030-000 3/4' FEATER HARES FV112-080/064/068 AR INLET LEBOW, BOTOMOLDED, 1N PORT 1 7W030-000 3/4' FEATER HARES										
Privinuous Discretion Privinuous Privinuous <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Kit Adats Pilvare REAR, 2021 FORD TRUCK, 5.0 I FOUD-00 SC E Adats Pilvare REAR, 2021 FORD TRUCK, 5.0 FV010-00 SC E Adats Pilvare REAR, 2021 FORD TRUCK, 5.0 I SW001-030 I J2" HEAT SHNIK A017-789-105 STANDOFE, 2671 (0.70 °0.0 1.057'	FV110-044	1			4					
PV01000 SVC CASE PLATE REAR, 2021 FORD TRUCK, 5.0 1 2021 FORD TRUCK, 5.0L A017-00105 STANDOF, 340° ID, 700° TOD, 1053° L 1 SW001-030 1.12" HEAT SHRINK A017-00105 STANDOF, 340° ID, 700° TOD, 1053° L 1 SW001-030 1.12" HEAT SHRINK A017-00105 STANDOF, 340° ID, 700° TOD, 1053° L 1 SW001-030 SLEEVE, FLEX BRAND, 35" KOA. A017-80-938 STANDOF, 347° ID, 880° TOD, 305° L 1 79735-106 PCV XLVE, PCD, 328" HOSE V7017-980-138 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433° ID X 1.1875° L 1 79623-031 STEPLESS CLAMP, 25.6 X 7MM WD 1° HOSE FV112-000/064/068 AIR INLET ASSY, 2021 FORD TRUCK, SAT / BLK / POL 7 7003-005 3/8 PCV/VAC RUBBER HOSE FV112-000/064/068 AIR INLET ABSY, 2021 FLSO, SA7/BLK/POL 7 7003-005 3/8 PCV/VAC RUBBER HOSE FV112-000/064/068 AIR INLET LEQUE 21150, SA7/BLK/POL 1 7000-007 SAT / BLK / POL FV112-000/064/068 AIR INLET LEQUE 21150, SA7/BLK/POL 1 7000-005 SAP PCV/VAC RUBBER HOSE FV112-000/064/068 AIR INLET LEQUE 21150, SA7/BLK 1 FORD-100104 <td></td> <td></td> <td>202 IFORD IRUCK, 5.0</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>			202 IFORD IRUCK, 5.0				•			
VV01002 S/C BASE PLATE FRONT, 2021 FORD TRUCK, S.0 1 A017-700105 STANDOFF, 350" 10, 700" 00, 10, 30" L 1 SW001-082 SLEEVE, FLEX BARD, 75" NOM. A017-89435 STANDOFF, 351" 10, 875" 00, 4456" L, NECK DOWN 0.75" 1 SW001-082 SLEEVE, FLEX BARD, 75" NOM. A017-89435 STANDOFF, 351" 10, 880" 00, 3976" L 1 7975-106 PCV VALVE, FORD, 374" HOLE FV017-980-18 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433" 10 X 1.197" L 1 7P625-375 REDUCER, 76 BARB STAM JOTA D'S BARB FV017-980-18 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433" 10 X 1.197" L 1 7P604-002 STEPLESS CLAMP, 12-670 FV112-080/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 7P003-005 3/8" FCV HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD TRUCK, 37" 10" X 100" Stropper 3 S/8 1460 FLAW WASHEP ILATE D 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD TRUCK, 37" 10" X 100" Stropper 3 S/8 148 37-33 X 3.0 1 7/003-00 RAJATOR PIPE-STAINLESS Stropper 3 S/8 AFV MEANSHEP ILATE D 4FV114-020						4FV139-09				
A017-70:015 STANDOF, 3:40 1,027 HAT STANDOF, 3:40 Discrete field A017-80-938 STANDOF, 3:47 Discrete field Standor, 3:47 Standor, 3:47 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ZUZI FURD I RUCK, J.UL</td> <td></td>								ZUZI FURD I RUCK, J.UL		
A017-87-445 STANDOFF, 374" (D, 895" OD, 375" L, NECK DOWN 0.75" 1 5W001-082 SLEEVE, FLEX RADD, 75" NOM. FV012-980-119 BEARING SUPPORT, 17 MM, IDER PULLEY, 431" ID X, 1197" L 1 7P625-357 REDUCER, 5/8 BARB 0100, PLV XIVE, FORD, 378" HOSE FV012-980-128 BEARING SUPPORT, 17 MM, IDER PULLEY, 431" ID X, 1197" L 1 7P625-357 REDUCER, 5/8 BARB 1000, PLV XIVE, FORD, 378" HOSE FV012-980-128 BEARING SUPPORT, 17 MM, IDER PULLEY, 431" ID X, 1197" L 1 7P625-357 REDUCER, 5/8 BARB 1000, PLV XIVE, FORD, 378" HOSE FV112-060/064/068 AIR INLET LASSY, 2021 FLOD, 5A7(BLK/POL 1 7R00-004 STEPLESS CLAMP, 25.6 X TMM WID 1.126 IN OPEN - 1.00 IF FV112-060/064/068 AIR INLET TUBE, 2021 FLOD, 5A7(BLK/POL 1 4FV114-020 COOLANT MOD ASSY, 2021 FLOD, 5A7(BLK/POL FV112-060/064/068 AIR INLET TUBE, 2021 FLOD, SAT/BLK 1 7R00-400 STEPLESS CLAMP, 25.6 X TMM WID 1.126 IN OPEN - 1.00 IF FV112-060/064/068 AIR INLET TUBE, 2021 FLOD, SAT/BLK 1 7R00-404 STEPLESS CLAMP, 25.6 X TMM WID 1.126 IN OPEN - 1.00 IF FV112-060/064/068 AIR INLET TUBE, 2021 FLOD, SAT/BLK 1 7R00-404 RADIATOR PIPE-STAINLESS FV112-060/064/068 AIR INVETTUBE, 2021 FLOD, SAT/BLK 1 7R00-204<						5W001-030	1 1/2" HE	EAT SHRINK	3	
A017-880-398 STANDOFF, 397" ID, 880" 00, 3978" L 1 77875-106 PCV VLVLF, FOND, 397" HOSE FV017-980-198 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433" ID X 1.875" L 1 77825-937 REDUCE, 5/8 ARB TO 3/8 BARB FV017-980-188 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433" ID X 1.875" L 1 77825-937 REDUCES, 5/8 ARB TO 3/8 BARB FV017-980-188 BEARING SUPPORT, 17 MM, IDLER PULLEY, 433" ID X 1.875" L 1 77800-400 STEPLESS CLAMP, 25.6 X 7MM WID 1" HOSE FV112-110/114/118 AIR INLET ASSY, SAT / BLK / POL 1 7003-000 STEPLESS CLAMP, 25.6 X 7MM WID 1" HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISD, SAT/BLK/POL 1 7003-000 STEPLESS CLAMP, 26.6 X 7MM WID 1.126 IN 0PEN - 1.00 IN FV112-060/064/068 AIR INLET TUBE, 2021 FISD, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, FV112-060/064/068 AIR INLET LEDW, SUPPORT 1 77030-000 S/8" PCV HOSE 2021 FORD F150, S.OL FV112-060/064/068 AIR INLET ABS N, TARE NUP 21NC 2 4FU114-020 COOLANT MOD ASSY, FV112-060/064/068 AIR INLET ABSY, TOP 1 77030-000 3/8 PCV/VAC RUBER HOSE 5/8" PCV HOSE FV112-060/064/068 AIR INLET AB				0.75"					1	
FV012-901-387 BEARING SUPPORT, 17 MM, JDLER PULLEY, 33" ID X 1875" L 1 77625-375 REDUCER, 5/8 BARB TO 3/8 BARB FV012-901-388 BEARING SUPPORT, 17 MM, JDLER PULLEY, 33" ID X 1875" L 1 77600-402 STEPLESS CLAMP, 25.6 X 7MM WID 1" HOSE FV112-010/1014/118 AIR INLET TASSY, 2021 FORD TRUCK, SAT / BLK / POL 1 77004-003 STEPLESS CLAMP, 25.6 X 7MM WID 1" HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 71030-000 3/8 PCV/VAC RUBBER HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FI5O, 5.0L FV112-060/064/068 AIR INLET ELGOW, ROTOMOLOED, 11 M PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FI5O, 5.0L FV112-060/064/068 AIR INLET ELGOW, ROTOMOLOED, 11 M PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD THENNOSTAT ASSEMBLY FV112-060/054 JS N PTC X JS' BARB 90, PLATED 2 4FV114-010 RADIATOR PIPE-STAINLESS FS55303 BUNP HOSE, 3500 X 300L 1 77002402 #23 SA TYPE F S HOSE CLAMP FS50403 BUNP HOSE, 3500 X 300L 1 77003402 ZEFE FFV212-020/014 DISCH ARSSY, SAT / BLK 1 770034030 <td>A017-880-398</td> <td>STANDOFF,</td> <td>.397" ID, .880" OD, 3.976" L</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	A017-880-398	STANDOFF,	.397" ID, .880" OD, 3.976" L		1					
EV017-980-188 BEARING SUPPORT, 17 MM, IDLER PULLEY, S31" ID X 1875" L 1 78004-002 STEPLESS CLAMP, 25.6 X 7MM WID 1" HOSE FV112-110/114/118 AIR INLEET ASSY, 2021 FORD TRUCK, SAT / BLK / POL 7003-005 3/8 PCV WAC RUBBER HOSE V112-080/064/068 AIR INLET LBOW SUPPORT 1 7003-005 3/8 PCV WAC RUBBER HOSE V112-080/064/068 AIR INLET LBOW SUPPORT 1 7003-005 3/8 PCV WAC RUBBER HOSE V112-080/064/068 AIR INLET LBOW SUPPORT 1 7003-005 3/8 PCV WAC RUBBER HOSE V112-080 ASSY, AIR INLET LBOW SUPPORT 1 7003-005 3/8 PCV HOSE V112-080 ASSY, AIR INLET VIJE 2001 SUPPORT 1 7003-000 5/8 PCV HOSE V112-080 ASSY AIR INLET VIJE 2001 SUPPORT 1 7003-000 1/8 PVI114-020 COLANT MOD ASSY, V110-000 15 FORD TRUCK, SAT JALK 1 7000-024 PI2 SAE TYPE F SI HOSE CLAMP 1 V002-000 #6 STINE HOSE CLAMP PATTE 1 7003-000 3/4 "HEATER HOSE 1 V002-001 #DISCH ASSY, SAT JALK 1 7003-000 3/4 "HEATER HOSE 1 V102-002014 DISCH ASST YEE SI HOSE CLAMP 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
FV112-010/114/118 AIR INLET ASSY, 2021 FORD TRUCK, SAT / BLK / POL 7003-000 STEPLESS CLAMP, 25.6 X 7MM WID 1:126 IN OPEN - 1.00 IN 7003-000 FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 7003-000 S/8 PCV HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FISO, SAT/BLK VF010-040 BRC, AIR INLET ELBOW, ROTOMOLOED, 1 IN PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FISO, S.OL VF010-040 BRC, AIR INLET KENOW, ROTOMOLOED, 1 IN PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FISO, S.OL VF010-040 BRC, AIR INLET KENOW, ROTOMOLOED, 1 IN PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD FISO, S.OL VF010-040 BRC, AIR INLET ASSY, 2023 J (N PT X 5/8' RARE 30, PLATED 1 4FV114-010 RADIATOR PIPE-STAINLESS VF002-030 J (N PT X 5/8' RARE 30, PLATED 1 4FV114-010 RADIATOR PIPE-STAINLESS VF002-040 D SCHARGE TUBE, ALMAROW 1 7003-000 3/4 HEATER HOSE R002-060 # GO SAE TYPE F S S HOSE CLAMP 1 7003-000 3/4 HEATER HOSE R002-060 # GO SAE TYPE F S S HOSE CLAMP 1 7003-000 3/4 HEATER HOSE R002-060 # GO SAE TYPE F S S HOSE CLAMP 1 70010-055 TIE WRAP, 7.5" NYLON </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
FFV112-110/114/118 AIR INLET ASSY, 2021 FORD TRUCK, SAT / BLK / POL 7003-005 3/8 PCV WOSE FV112-060/064/068 AIR INLET LEBOW, ROTOMOLDED, 1 IN PORT 1 7003-005 3/8 PCV HOSE FV112-060 ASSY, AIR INLET ELBOW, ROTOMOLDED, 1 IN PORT 1 4FV114-020 COOLANT MOD ASSY, 2021 FORD F150, 5.0L 375-073 3/8 AN90 FLAT WASHER PLATED 2 4FV114-010 RADIATOR PIPE-STAINLESS 875-040 3/8 AN90 FLAT WASHER PLATED 4FV114-010 RADIATOR PIPE-STAINLESS 875-053 3/8 MPT S/SI* BARB 90, PLATED 4FV114-010 RADIATOR PIPE-STAINLESS 875-053 3/8 MPT S/SI* BARB 90, PLATED 4FV114-010 RADIATOR PIPE-STAINLESS 875-054 3/8 AN90 FLAT 7003-000 9/8 TYPE F SS HOSE CLAMP 8750-06 # STNIS NOSE CLAMP, NARROW 1 70038-000 3/4" HEATER HOSE 8002-060 # 65 SAE TYPE F SS HOSE CLAMP 1 70100-055 TIE WRAP, 7.5" NYLON 0033-000 5/8" PCV HOSE 2 FFT 70100-055 TIE WRAP, 7.5" NYLON 1033-000 5/8" PCV HOSE 2 FFT 70100-055 TIE WRAP, 7.5" NYLON 1032-000 5/8" PCV HOSE 2 FFT 70100-05	FVU17-980-188	BEAKING S	JPPORT, 17 MIN, IDLER PULLEY, .531" ID X	1.872. L	1					
IFV112-110/114/118 AIR INLET ASSY, 2021 FORD TRUCK, SAT / BLK / POL 1 7/030-056 3/8 PCV/VAC RUBBER HOSE FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, AIR INLET TUBE, 2021 FISO, SAT/BLK/POL FV112-060/064/068 AIR INLET TUBE, 2021 FISO, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, AIR INLET TUBE, 2021 FORD FISO, SAL 70030-056 J/8 NPG TLEBOW SUPPORT 1 4FV114-020 COOLANT MOD ASSY, XI 7375-073 J/8 NPG TAK JAK INET TUBE, 2021 FISO, SAL/BLK 1 7R002-010 RADIATOR PIPE-STAINLESS 7375-073 J/8 NPG TAK JAK INCHARDARDW 1 7R002-010 HIO SAE TYPE F SS HOSE CLAMP 7375-073 J/8 NPG TAKE, 350 X 3.00L 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP 70020-056 # 65 SAE TYPE F SS HOSE CLAMP 3 7U030-005 J/4" HEATER HOSE 70030-000 J/4" HEATER HOSE 2 FT 7U030-055 TIE WRAP, 7.5" NYLON 003-000 J/8" PCV HOSE 2 FT 7U030-055 TIE WRAP, 7.5" NYLON 003-001 DISCH ASSY, 2021 FISO, 5AT/BLK 1 7U10-0-055 TIE WRAP, 7.5" NYLON 003-002-010									D IN CLOSE	
SAT / BLK / POL 1 7/0033-000 5/8" PCV HOSE FV112-060/064/068 AIR INLET TUBE, 2021 F150, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, FV112-060/064/068 AIR INLET TUBE, 2021 F150, SAT/BLK/POL 1 4FV114-020 COOLANT MOD ASSY, A375-070 3 //a 16 X 3/4 GR5 HXHD ZINC 2 4FE014-010 RADIATOR PIPE-STAINLES F375-030 3 //a NA960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLES F375-303 3 //a NA960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLES F375-303 3 //a NA97 GLAT WASHER PLATED 1 7R002-010 H3 55 AST TYPE F S 5 HOSE CLAMP F5375-303 REDUCER, BLK 3.75-35 X 3.0L 1 7R002-024 #24 SAE TYPE F S HOSE CLAMP R002-060 #6 OS AE TYPE F S HOSE CLAMP 3 7U100-055 TIE WRAP, 7.5" NYLON V032-000 JSCH ASSY, 2021 F150 2 7 7 2 FV212-020/014 DISCH ASSY, 2021 F150, SAT/BLK 1 4FV112-050/054 JSCHARGE TUBE A, 2021 F150, SAT/BLK FV012-030/034 DISCHARGE TUBE A, 2021 F150, SAT/BL	FV112-110)/114/118	B AIR INLET ASSY,					· · , · · · · · · · ·		
FV112-060/064/068 AIR INLET TUBE, 2021 F150, SAT/BLK/POL 1 FV112-080/064/068 AIR INLET ELBOW, ROTOMOLDED, J. IN PORT 1 VF010-040 BKKT, AIR INLET ELBOW, ROTOMOLDED, J. IN PORT 1 SA75-075 3/8 AIR SIN SATE SALAR 2021 FORD F150, S.OL SA75-070 3/8 AIR SIG SHAND 21NC 2 SA75-070 3/8 AIR SIG SHAND 21NC 1 7002-010 BISCHARGE TUPE F SI HOSE CLAMP 3 R002-050 # 65 SAE TYPE F SI HOSE CLAMPS 1 R002-060 # 67 THE KIS HORE CLAMPS 1 R002-001 DISCH ASSY, 2021 FORD TRUCK, 1 FV012-010 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 FV012									0.33	
FV112-080 ASSY, AIR INLETE LEBOW, ROTOMOLOED, 1 IN PORT 1 2021 FORD ASSY, AIR UNLETE ELBOW SUPPORT A375-075 3 /8 LBX 3/4 GRS HXHD ZINC 2 4FE014-010 RADIATOR PIPE-STAINLESS A375-074 3 /8 AN960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLESS A375-075 3 /8 AN960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLESS ASSY, AIR MULTE, BLAW WASH, SADOL 1 7R002-024 #24 SETVEF FS SHOSE CLAMP ASSO 2056 # 6 STNUS HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U100-055 TIE WRAP, 7.5" NYLON R002-060 # 6 SAE TYPE F SS HOSE CLAMP 1 7U100-055 TIE WRAP, 7.5" NYLON R002-061 DISCH ASSY, 2021 FDOD TRUCK, SAT / BLK 1 7U100-055 TIE WRAP, 7.5" NYLON R002-001 DISCHARGE TUBE A, 2021 F150, SAT/8LK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, SAT/8LK 1 <td></td> <td></td> <td>SAT / BLK / POL</td> <td></td> <td>1</td> <td>7U033-000</td> <td>5/8" PC\</td> <td>V HOSE</td> <td>0.66</td>			SAT / BLK / POL		1	7U033-000	5/8" PC\	V HOSE	0.66	
FV112-080 ASSY, AIR INLETE LEBOW, ROTOMOLOED, 1 IN PORT 1 2021 FORD ASSY, AIR UNLETE ELBOW SUPPORT A375-075 3 /8 LBX 3/4 GRS HXHD ZINC 2 4FE014-010 RADIATOR PIPE-STAINLESS A375-074 3 /8 AN960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLESS A375-075 3 /8 AN960 FLAT WASHER PLATED 2 4FE014-010 RADIATOR PIPE-STAINLESS ASSY, AIR MULTE, BLAW WASH, SADOL 1 7R002-024 #24 SETVEF FS SHOSE CLAMP ASSO 2056 # 6 STNUS HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U038-000 3/4" HEATER HOSE R002-056 # 6 SAE TYPE F SS HOSE CLAMP 3 7U100-055 TIE WRAP, 7.5" NYLON R002-060 # 6 SAE TYPE F SS HOSE CLAMP 1 7U100-055 TIE WRAP, 7.5" NYLON R002-061 DISCH ASSY, 2021 FDOD TRUCK, SAT / BLK 1 7U100-055 TIE WRAP, 7.5" NYLON R002-001 DISCHARGE TUBE A, 2021 F150, SAT/8LK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, SAT/8LK 1 <td>FV112-060/064/</td> <td>(068 AI</td> <td>R INLET TUBE, 2021 F150, SAT/BLK/POL</td> <td></td> <td>1</td> <td></td> <td>•</td> <td></td> <td></td>	FV112-060/064/	(068 AI	R INLET TUBE, 2021 F150, SAT/BLK/POL		1		•			
3375-075 3 /8-16 X 3/4 GR5 HXHD ZINC 2 4FE014-010 RADIATOR PIPE-STAINLESS K375-040 3 /8 AN960 FLAT WASHER PLATED 2 4FE014-010 ØL.S" FORD THERMOSTAT ASSEMBLY PS350-030 BUMP HOSE, 3.50D X 3.00L 1 7R002-001 #10 SAE TYPE F SS HOSE CLAMP PS375-030 BUMP HOSE, 3.50D X 3.00L 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R001-066 # 6 STILS HOSE CLAMP, NARROW 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R002-060 # 6 SATILS HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-060 # 6 STILS HOSE CLAMP, SARROW 1 7U100-055 TIE WRAP, 7.5" NYLON U033-000 5 /8" PCV HOSE 1 7U100-055 TIE WRAP, 7.5" NYLON U033-000 5 /8" PCV HOSE 1 4FV212-100/104 RACE BOV UPGRADE ASSY, 2021 F150, 5AT/BLK FV012-010 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-030/03 1/4" VACUUM HOSE 70/4" VACUUM H						4FV114-02		•		
K375-000 3 / a N960 FLAT WASHER PLATED 2 4 FC014-0100 RADIATOR PIPE-STAINLESS P375-039 3 / 8 NPT X 5/8 BARB 90, PLATED 1 4 FV114-010 ØLS" FORD THERMOSTAT ASSEMBLY P375-039 BUMP HOSE, 3.50 X 3.00L 1 7R02-010 #10 SAE TYPE F S HOSE CLAMP PS375-330 REDUCER, BLK 3.75-3.5 X 3.0L 1 7R02-024 #24 SAE TYPE F SS HOSE CLAMP R002-066 # 56 SAE TYPE F SS HOSE CLAMP 3 7U038-000 3/4" HATER HOSE R002-066 # 56 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON V032-000 S/4" PCV HOSE 2 FT. OPTIONAL PARTS FV212-02/014 DISCH ASSY, 2021 F150 1 7U100-055 TIE WRAP, 7.5" NYLON V112-020/020 DISCHARGE TUBE A, 2021 F150 1 4FV212-100/104 RACE BOV UPGRADE ASSY, 2021 F150, SAT/BLK V112-020/020 DISCHARGE TUBE B, 11N PORT, 2021 F150, SAT/BLK 1 4FV12-050/054 DISCHARGE TUBE B, 2021 F150, SAT/BLK V112-020/020 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 4FV12-050/054 DISCHARGE TUBE D, 2021 F150, SAT/BLK FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 4FV12-050/054	VF010-040	BRKT, AIR I	NLET ELBOW SUPPORT					2021 FORD F150, 5.0L		
B375-039 3 /8 NPT X5/8" BARB 90, PLATED 1 4FV114-010 Ø1.5" FORD THERMOSTAT ASSEMBLY PS350-303 BUMP HOSE, 3:500 X 3:00L 1 7R002-010 #10 SAE TYPE F SS HOSE CLAMP PS375-303 BUMP HOSE, 3:500 X 3:00L 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R001-06 # 6 STNLS HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-050 # 6 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON R002-050 # 6 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON U033-000 5 /8" PCV HOSE 2 FT. 7U100-055 TIE WRAP, 7.5" NYLON V012-010 DISCHARGE TUBE A, 2021 FIS0 1 4FV212-100/104 RACE BOV UPGRADE ASSY, 2021 FIS0, SAT/BLK 1 V012-0010 DISCHARGE TUBE A, 2021 FIS0, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 1 IN PORT, 2021 FIS0, SAT/BLK 1 V012-0010 DISCHARGE TUBE A, 2021 FIS0, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 FIS0, SAT/BLK 1 V012-0010 DISCHARGE TUBE D, 2021 FIS0 1 1 4FV112-050/054 DISCHARGE TUBE B, 2021 FIS0, SAT / BLK V01						455014 010				
BUMP HOSE, 3.50D X 3.00L 1 7R002-010 #10 SAE TYPE F S HOSE CLAMP PS375-330 REDUCER, BLK 3.75-3.5 X 3.0L 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R002-066 # 6 S STNL STOSE CLAMP, NARCOW 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R002-060 # 6 S SAE TYPE F SS HOSE CLAMP 3 1 7U308-000 3/4" HEATER HOSE R002-060 # 6 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON U033-000 5 /8" PCV HOSE 2 FT. 0PTIONAL PARTS IFFV212-020/014 DISCH ASSY, 2021 FISO, SAT/BLK 1 FV012-010 DISCHARGE TUBE A, 2021 FISO, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE A, 2021 FISO, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE D, 2021 FISO, SAT/BLK 1 FV012-0300 DISCHARGE TUBE C, 2012 FISO, SAT/BLK 1 FV012-0400 DISCHARGE TUBE C, 2012 FISO, SAT/BLK 1 FV012-03003 1/4 X 5/32 REDUCER UNION 1 P312-082 5 /16 TEE HOSE BARB 1 PS300-201 ELBOW, BLK, 3" X 90 SUICONE, .75" LEGS, MOD 2 PS300-301 BUMP HOSE, 3.00D X 3.										
P375-350 REDUICE, BLK 3.75-3.5 X 3.0L 1 7R002-024 #24 SAE TYPE F SS HOSE CLAMP R001-006 # 6 STNLS HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-060 # 60 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON R002-060 # 60 SAE TYPE F SS HOSE CLAMPS 1 7U100-055 TIE WRAP, 7.5" NYLON V033-000 5 /8" PCV HOSE 2 FT. 7U100-055 TIE WRAP, 7.5" NYLON V033-000 5 /8" PCV HOSE 2 FT. 7U100-055 TIE WRAP, 7.5" NYLON V032-020/014 DISCH ASSY, 2021 FIOR D TRUCK, SAT / BLK 1 4FV212-100/104 RACE BOV UPGRADE ASSY, 2021 F150, SAT/BLK FV012-010 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, SAT/BLK FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, RACE BOV, SAT / BLK FV012-040 DISCHARGE TUBE B, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, RACE BOV, SAT / BLK FV012-030/034 DISCHARGE TUBE B, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, RACE BOV, SAT / BLK FV012-										
R001-006 # 5 STNLS_HOSE CLAMP, NARROW 1 7U038-000 3/4" HEATER HOSE R002-060 # 60 SAE TYPE F SS HOSE CLAMPS 3 R005-003 CLAMP, T-BULT, 200-87 1 V003-000 5 /8" PCV HOSE 2 FT. OPTIONAL PARTS AUGO-005 STILS HOSE CLAMPS U033-000 S /8" PCV HOSE PCV12-020/014 DISCH ASSY, 2021 FORD TRUCK, SAT / BLK 2021 FISO FIDE C, 2021 FISO, SAT/BLK FV012-010 DISCHARGE TUBE A, 2021 FISO, SAT/BLK FV012-030/034 DISCHARGE TUBE D, 2021 FISO, SAT/BLK FV012-030/034 DISCHARGE TUBE D, 2021 FISO, SAT/BLK FV012-030/034 DISCHARGE TUBE D, 2021 FISO FV012-030/034 DISCHARGE TUBE B, 2021 FISO, SAT/BLK FV012-030/034 DISCHARGE TUBE B, 2021 FISO FV012-030/034 DISCHARGE TUBE B, 2021 FISO FV012-030/034 <td col<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
R002-060 # 60 SAE TYPE F SS HOSE CLAMPS 1 R005-030 CLAMP, T-BOLT, 200-87 2 FT. FV212-02-0/014 DISCH ASSY, 2002 FOR DTRUCK, SAT / BLK 1 FV012-010 DISCH AGE TUBE A, 2021 F150 1 FV012-020/024 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1					1	7U038-000	3/4" HEA	ATER HOSE	1.5 F	
R005-003 U033-000 CLAMP, T-BOLT, 200-87 5 /8" PCV HOSE 1 7U100-055 TIE WRAP, 7.5" NYLON IFV212-02/0/14 DISCH ASSY, 2021 FORD TRUCK, SAT / BLK 1 OPTIONAL PARTS FV012-010 DISCHARGE TUBE A, 2021 F150 1 FV012-020/024 DISCHARGE TUBE B, 11N PORT, 2021 F150, SAT/BLK 1 FV012-020/024 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150 1 FV12-030/034 DISCHARGE TUBE D, 2021 F150 1 FV300-030 LIAWN HOSE 2 1										
N003000 S/8" PCV HOSE 2 FT. AFV212-020/014 DISCH ASSY, 2021 FORD TRUCK, SAT / BLK 1 AFV212-020/014 DISCH ASSY, 2021 FORD TRUCK, SAT / BLK 1 AFV012-010 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 AFV012-0002020 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 AFV012-00030 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 AFV012-040 DISCHARGE TUBE D, 2021 F150 1 TP250-033 1/4 X 5/32 REDUCER UNION 1 B2004-111 ASSY, BILLET RACE BOV, BLACK P9300-091 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PP3300-091 ELBOW, BLK, 3" X 90 GM TRK 1 R002-016 # 48 SAE TYPE F SS HOSE CLAMP 1 V0030-030 1/4" VACUUM HOSE 0.33 FT. V0030-044 # 64 SAE TYPE F SS HOSE CLAMP 1 V1030-045 5/32" VACUUM LINE 3 FT. V1030-046 5/32" VACUUM LINE 3 FT. V1030-046 GS HEATER HOSE 0.22 FT. V1030-040 COMPRESS BYPASS VALVE, G2 1						7U100-055		TIE WRAP. 7.5" NYLON	1	
IFV212-02/013 DISCH ASSY, 2021 FORD TRUCK, SAT / BLK OPTIONAL PARTS FV012-010 DISCHARGE TUBE A, 2021 F150 1 FV012-020/024 DISCHARGE TUBE A, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-050 DISCHARGE TUBE D, 2021 F150, RACE BOV, SAT / BLK 7 FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-050 DISCHARGE TUBE D, 2021 F150, RACE BOV, SAT / BLK 7 FV012-050 DISCHARGE TUBE D, 2021 F150, RACE BOV, SAT / BLK 1 FV012-050 DISCHARGE TUBE D, 2021 F150, RACE BOV, SAT / BLK 1 FV012-050 DISCHARGE TUBE D, 2021 F150, RACE BOV, SAT / BLK 1 FV012-050 I 1 ASSV, BILLET RACE BOV, BLACK F310-08 <						10100000			•	
2021 FORD TRUCK, SAT / BLK 1 FV012-010 DISCHARGE TUBE A, 2021 F150 1 FV012-020/024 DISCHARGE TUBE B, 1 IN PORT, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030/034 SIGNARGE TUBE D, 2021 F150, SAT/BLK 1 FS300-021 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 FS300-277 SLEEVE, BUMP ROSE, 3.00 X 3.00L 2 FS388-300 ELBOW, SAR X 3.0 X 90 GM TRK 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
2021 FORD TRÚCK, SAT / BLK 1 FV012-010 DISCHARGE TUBE A, 2021 F150 1 FV012-020/024 DISCHARGE TUBE B, 1 IN PORT, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030/034 J4 X 5/32 REDUCER, 3.0- 2.75 1 PS300-021 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 #16 SAE TYPE F SS HOSE CLAMP 1 R002-052 #52 SAE TYPE F SS HOSE CLAMP 10 R002-064	EV212-020)/014						OPTIONAL PARTS		
FV012-010 DISCHARGE TUBE A, 2021 F150 1 FV112-020/024 DISCHARGE TUBE B, 1 IN PORT, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150 SAT/BLK 1 FV012-050/054 DISCHARGE TUBE B, 2021 F150, RACE BOV, SAT / BLK 7U030-030 1/4" VACUUM HOSE P250-033 1/4 X 5/32 REDUCER UNION 1 8D204-111 ASSY, BILLET RACE BOV, BLACK P312-082 5 /16 TEE HOSE BARB 1 PS300-091 ELBOW, BLK, 3" X 90 SILCONE, .75" LEGS, MOD 2 P5300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 2 2 P5300-301 BUMP HOSE, 3.00D X 3.00L 2 2 2 P5300-316 #16 SAE TYPE F SS HOSE CLAMP 1 4 4 R002-054 # 46 SAE TYPE F SS HOSE CLAMP 1 1 <td></td> <td>/014</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		/014								
EV012-010 DISCHARGE TUBE A, 2021 F150 1 EV012-020/024 DISCHARGE TUBE B, 1 IN PORT, 2021 F150, SAT/BLK 1 EV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150, SAT/BLK 1 70030-030 1/4" VACUUM HOSE F250-033 1/4 S/32 REDUCER UNION 1 B12-082 5 /16 TEE HOSE BARB 1 PS300-091 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PS300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 PS308-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 #16 SAE TYPE F SS HOSE CLAMP 4 R002-016 #16 SAE TYPE F SS HOSE CLAMP 1 U030-030 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U030-046 5/32" VACUUM LINE 3 FT. U030-046 1"G SHEATER HOSE 0.22 FT. U030-0404 HOFASE BVPASS VALVE, G2 1 <td></td> <td></td> <td>SAT / BLK</td> <td></td> <td>1</td> <td>4EV212-10</td> <td>0/10/</td> <td></td> <td></td>			SAT / BLK		1	4EV212-10	0/10/			
VIUL2 020/024 DISCHARGE TUBE B, 1 IN PORT, 2021 F150, SAT/BLK 1 FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 FV012-040 DISCHARGE TUBE D, 2021 F150 1 70030-030 1/4" VACUUM HOSE P250-033 1/4 X 5/32 REDUCER UNION 1 8D204-111 ASSY, BILLET RACE BOV, BLACK P312-082 5 / 16 TEE HOSE BARB 1 P5300-091 ELBOW, BLK, 3" X 90 SLILCONE, .75" LEGS, MOD 2 P5300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 P5300-301 BUMP HOSE, 3.00D X 3.00L 2 P5308-301 BUMP HOSE, J.300D X 3.00L 2 P5308-301 BLBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-025 # 52 SAE TYPE F SS HOSE CLAMP 1 U030-030 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U030-046 1"G SHEATE HOSE 0.22 FT. U034-016 1"G SHEATE HOSE 0.22 FT. U034-016 1"GS HEATER HOSE 0.22 FT. <td></td> <td></td> <td>TUDE 1. 0004 5450</td> <td></td> <td></td> <td>46 4212-10</td> <td>0/104</td> <td></td> <td></td>			TUDE 1. 0004 5450			46 4212-10	0/104			
FV012-030/034 DISCHARGE TUBE C, 2021 F150, SAT/BLK 1 4FV112-050/054 DISCHARGE TUBE B, 2021 F150, RACE BOV, SAT / BLK FV012-040 DISCHARGE TUBE D, 2021 F150 1 7U030-030 1/4" VACUUM HOSE P250-033 1/4 X 5/32 REDUCER UNION 1 8D204-111 ASSY, BILLET RACE BOV, BLACK P312-082 5 /16 TEE HOSE BARB 1 P5300-901 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PS300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1										
FV012-040 DISCHARGE TUBE D, 2021 F150 1 7U030-030 1/4" VACUUM HOSE P250-033 1/4 X 5/32 REDUCER UNION 1 8D204-111 ASSY, BILLET RACE BOV, BLACK P312-082 5 /16 TEE HOSE BARB 1 PS300-091 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PS300-301 BUMP HOSE, 3.00 X 3.00L 2 PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-024 # 48 SAE TYPE F SS HOSE CLAMP 1 R002-030 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U034-016 1" GS HEATER HOSE 0.22 FT. 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>4FV112-050/054</td> <td>DISCHAR</td> <td>RGE TUBE B, 2021 F150, RACE BOV, SAT / BLK</td> <td></td>						4FV112-050/054	DISCHAR	RGE TUBE B, 2021 F150, RACE BOV, SAT / BLK		
125000 2 12512-082 5 /16 TE HOSE BARB 1 PS300-091 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PS300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 PS300-301 BUMP HOSE, 3.00D X 3.00L 2 PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-044 # 48 SAE TYPE F SS HOSE CLAMP 10 R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R003-030 1/4" VACUUM HOSE 0.33 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1									4 F	
PS300-091 ELBOW, BLK, 3" X 90 SILICONE, .75" LEGS, MOD 2 PS300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 PS300-301 BUMP HOSE, 3.00D X 3.00L 2 PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-048 # 48 SAE TYPE F SS HOSE CLAMP 1 R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-064 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-064 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-053 1// VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE, ELBOW, 9.1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1						8D204-111	ASSY, BI	LLET RACE BOV, BLACK		
PS300-277 SLEEVE, BUMP REDUCER, 3.0- 2.75 1 PS300-301 BUMP HOSE, 3.00D X 3.00L 2 PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-025 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-030 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE, ELBOW, 90, 1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
PS300-301 BUMP HOSE, 3.00D X 3.00L 2 PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-024 # 48 SAE TYPE F SS HOSE CLAMP 1 R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-053 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE, ELBOW, 9.1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
PS388-300 ELBOW, 3.88 X 3.0 X 90 GM TRK 1 R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-024 # 48 SAE TYPE F SS HOSE CLAMP 1 R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 R003-050 1/4" VACUUM HOSE 0.33 FT. U030-030 1/4" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE, ELBOW, 90, 1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
R002-016 # 16 SAE TYPE F SS HOSE CLAMP 4 R002-048 # 48 SAE TYPE F SS HOSE CLAMP 1 R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-054 # 64 SAE TYPE F SS HOSE CLAMP 1 U030-030 1/4" VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U030-046 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
R002-052 # 52 SAE TYPE F SS HOSE CLAMP 10 R002-064 # 64 SAE TYPE F SS HOSE CLAMP 1 U030-030 1/4" VACUUM HOSE 0.33 FT. U030-046 5/32" VACUUM LINE 3 FT. U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
R002-064 # 64 SAE TYPE F SS HOSE CLAMP 1 J030-030 1/4" VACUUM HOSE 0.33 FT. J030-046 5/32" VACUUM LINE 3 FT. J034-016 1" GS HEATER HOSE 0.22 FT. J133-100 HOSE,ELBOW,90 ,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
J030-030 1/4" VACUUM HOSE 0.33 FT. J030-046 5/32" VACUUM LINE 3 FT. J034-016 1" GS HEATER HOSE 0.22 FT. J133-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
JU33-046 5/32" VACUUM LINE 3 FT. JU34-016 1" GS HEATER HOSE 0.22 FT. JU33-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1				0.5						
U034-016 1" GS HEATER HOSE 0.22 FT. U133-100 HOSE,ELBOW,90,1"ID, MOLDED 1 D001-004 COMPRESS BYPASS VALVE, G2 1										
D001-004 COMPRESS BYPASS VALVE, G2 1										
PN101-050/054 WELDED CORE ASSY, 05 MUST GT / BLK 1										
	PN101-050/054	WELDED CC	RE ASSY, 05 MUST GT / BLK		1					
4FV020-010 v1.0, 04/20/22	4FV020-010	v1.0, 04/2	0/22					P/N: 4GQ020-01	0 v1.0, 06	

A. Using a 10mm socket, disconnect the negative battery cable and set it aside.

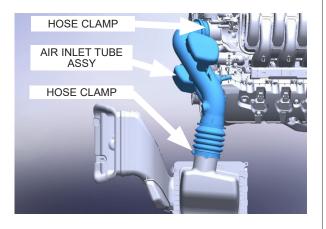


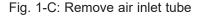
Fig. 1-A: Disconnect negative battery cable

- B. You'll notice a breather hose assembly connected to the air inlet tube and the driver side valve cover. Disconnect the assembly and set it aside as the fittings will be reused in a later step.
- BREATHER HOSE ASSY

Fig. 1-B: Disconnect breather hoses

C. Using an 8mm socket, loosen the hose clamps securing the air inlet tube to the throttle body and the air box. With both hose clamps loosened, proceed to remove the air inlet tube from the vehicle and set it aside. It will not be reused. To avoid any foreign object damage, place a clean rag into the throttle body or cover it with tape.





D. Using a 13mm socket, loosen the bolt securing the air cleaner assembly to the chassis. Remove the plastic fasteners that secure the ram air inlet duct to the chassis. Remove the air cleaner assembly and ram air duct by pulling it upwards.

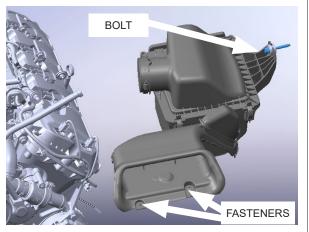


Fig. 1-D: Remove air cleaner assembly

E. Using a long ratchet and 15mm socket, turn the belt tensioner counterclockwise and remove the serpentine belt. It will not be reused.

NOTE: The use of a leverage bar may help in this step.

F. The engine coolant will now be drained. Remove the coolant reservoir cap. Locate the coolant hose going to the oil cooler closest to the crank pulley. Undo the hose clamp, pull out the coolant hose and drain the coolant into a bucket.



Fig. 1-E: Remove OEM serpentine belt



Fig. 1-F: Remove cap and drain coolant

G. Once the coolant is drained, remove the remainder of the coolant hose assembly by removing the other coolant lines from the oil cooler and larger hoses connected to the thermostat housing intlet and to the radiator outlet. Set aside as it will be modified in a later step.



Fig. 1-G: Remove coolant hose assembly

H. Using an 8mm socket, remove the 2 screws securing the thermostat inlet and remove it.

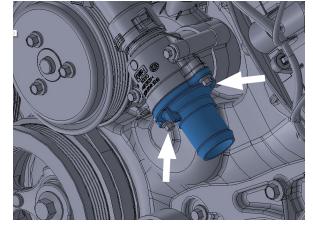


Fig. 1-H: Remove thermostat inlet

Fig. 1-I: Install 90-degree assembly

I. Replace the thermostat inlet with the supplied 90-degree assembly. Torque to 85 lb-in.

J. Remove the thermostat housing bolts. They will be replaced with longer bolts when installing the front supercharger mounting bracket. Ensure the O-ring in between the thermostat housing and engine block stays in place and does not get lost.

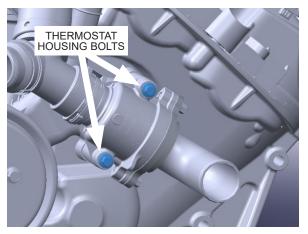


Fig. 1-J: Remove thermostat housing bolts

K. Remove the indicated top, inner, front engine cover bolt. It is located on the driver's side of the engine next to the valve cover. It will be replaced with a longer bolt which will support the supercharger mounting bracket.

L. Remove the two indicated front engine cover bolts. They are located on the driver's side of the engine, above the alternator. They will be replaced with longer bolts which will support the supercharger mounting bracket.

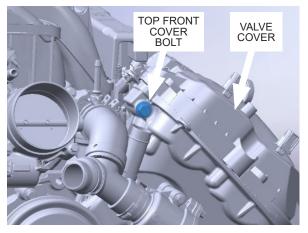


Fig. 1-K: Remove front engine cover bolt

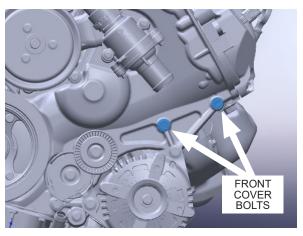


Fig. 1-L: Remove front engine cover bolts above alternator

M. Remove the top alternator mounting bolt. It will be replaced with a longer bolt which will support the supercharger mounting bracket.

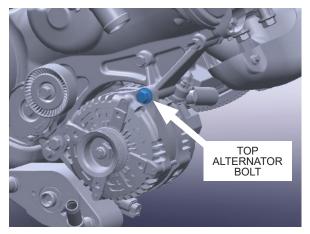


Fig. 1-M: Remove top alternator mounting bolt

N. Using a panel removal tool or a flathead screwdriver, remove the plastic fasteners securing the radiator support cover. Pop the center section of each fastener upward and then the large outer part of the fastener will loosen. Set the cover and plastic fasteners aside as they will be reused.



Fig. 1-N: Remove radiator support cover

AMBIENT AIR TEMP PLUG SHUTTER ACTUATOR PLUG

Fig. 1-O: Remove radiator shutter assembly

O. Disconnect the shutter actuator and ambient air temperature plugs located near the hood latch.

P. Using a 10mm socket, remove the four screws securing the upper section of the grill assembly to the radiator support.



Fig. 1-P: Remove upper grill screws

Q. You'll notice that there's two screws on each corner of the bumper trim securing it to the vehicle. Using an 8mm socket, remove the two screws on each side.

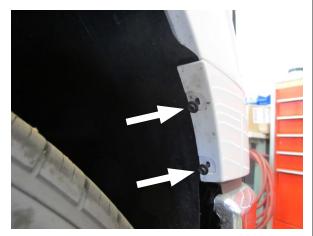


Fig. 1-Q: Remove bumper trim screws

R. To release the bumper trim, you will need to pull it away from the front bumper with a good amount of force until you feel them unsnap from the vehicle. Make sure you have a good grip as to not cause any damage to yourself or the trim during removal.



Fig. 1-R: Remove bumper trim

S. Using a 10mm socket, remove the two screws that mount the grill to the radiator support. There is one bolt on each bottom corner of the grill. Remove the grill by pulling it forward from the truck.

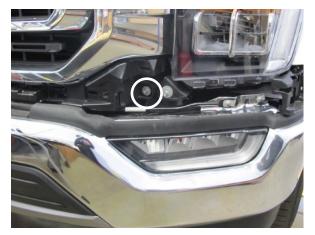


Fig. 1-S: Remove grill lower screws

T. Remove all the air deflectors and linkages from the grill assembly by using a screwdriver to pry and unclip them from the inner and outer mount tabs. Place the deflectors linkages aside as they will not be reused. The shutter assembly housing will be later modified to make clearance for the charge air cooler.

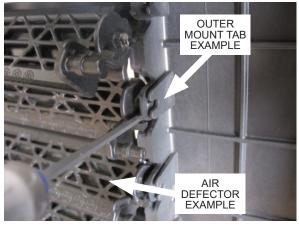


Fig. 1-T: Remove air deflectors

U. Remove the air deflector actuator motor and ambient air temperature sensor from the shutter housing. The ambient air temperature sensor is held on by a plastic clip. These parts will be relocated in a later step.

> **NOTE:** Though the air deflectors were removed, the actuator motor will remain connected to prevent diagnostic trouble codes.

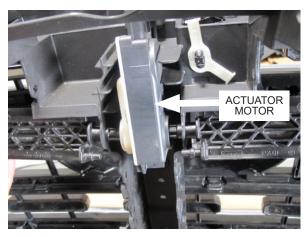


Fig. 1-U: Remove air deflector actuator

V. Using a panel remover tool, remove the vinyl flap from the bottom of the grill assembly by prying from under the plastic tabs. Set the flap and its fasteners aside as they will not be reused.



Fig. 1-V: Remove grill lower flap

W. Using a 10mm socket, remove the four indicated nuts which secure the shutter assembly to the front grill.



Fig. 1-W: Remove grill nuts

 Using a panel removal tool or a flathead screwdriver, remove the plastic fasteners securing the shutter assembly from the grill. Pop the center section of each fastener upward and then the large outer part of the fastener will loosen.



Fig. 1-X: Remove grill plastic fasteners

Y. Using a panel removal tool or a flathead screwdriver, remove the shutter assembly housing from the grill by unclipping the spring clips that hold the bottom of the housing to the grill. Once the shutter housing is removed from the grill, remove the metal spring clips as they will no longer be used.



Fig. 1-Y: Remove shutter housing from grill

Z. Locate the horn assembly on the passenger side upper radiator support. Unplug it and remove the mounting bolt using a 10mm socket. Remove the horn assembly from the radiator support and set it aside. It will be relocated in a later step.

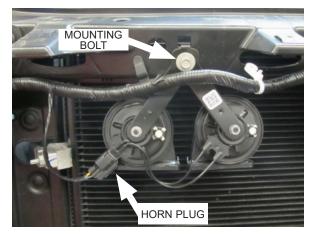


Fig. 1-Z: Remove horn assembly

A. To make room for the charge air cooler, the shutter housing needs to be modified. The center section will be removed which will be detailed in the following steps.



Fig. 2-A: Preview of cut locations

B. Cut the housing using a reciprocating saw or an abrasive cut off wheel on the driver's side as indicated by the dotted line. Use the ribs molded on the housing as a reference. Cut from the second rib down and first rib over from the inside edge.

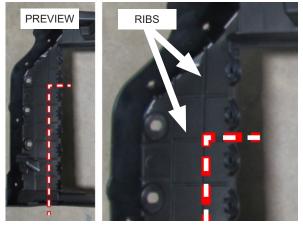


Fig. 2-B: Cut shutter housing as indicated

C. Repeat the process on the passenger side of the housing.

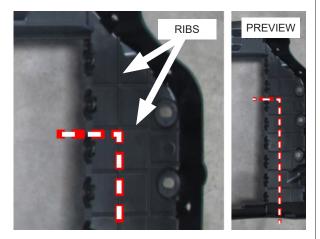


Fig. 2-C: Cut shutter housing as indicated

D. Cut the center of the housing as indicated in the image. After the center section is cut, remove, and discard it. Deburr the plastic edges with a file or sanding disc.

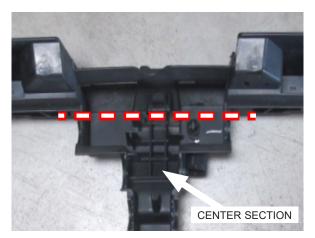


Fig. 2-D: Cut shutter housing as indicated

E. Reattach the modified shutter shroud to the grill using the 4 nuts and plastic fasteners which were previously removed from the assembly.



Fig. 2-E: Reattach shutter housing to grill

UNION RETAINER CLAMP EXAMPLE

Fig. 2-F: Remove clamps and hoses from union

previously removed will need to be modified. Cut off all the molded plastic retainer clamps on the assembly as shown to release the hoses from the union. Remove all hoses from the union. All clamps will be replaced with stainless steel hose clamps after the modification. The two smaller 3/4 inch hoses and 1.5 inch diameter metal spring clamps will not be reused.

The coolant hose assembly which was

F.

G. Remove the large hose that connects to the engine coolant outlet to the union. Mark and cut the hose as shown. Discard the 1.5 inch section shown after it is cut. The resulting elbows will be used in the next step.



Fig. 2-G: Mark and cut coolant hose

H. Assemble the previously cut elbows onto the union as shown. Cut 2 lengths of supplied 3/4 inch heater hose, one 8 inch and one 10 inch lengths. Assemble them to the union as shown.

NOTE: See Appendix E as reference.

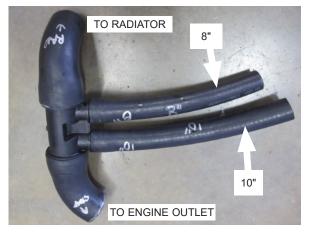


Fig. 2-H: Assemble coolant hoses onto union

I. Assemble the #10 and #24 stainless hose clamps onto the assembly as shown. Assemble the stainless radiator pipe between the elbow going to the radiator and the removed hose going to the radiator. Position the components in the orientation as shown. Set the assembly aside as it will be installed in a later step.

NOTE: See Appendix E as reference.

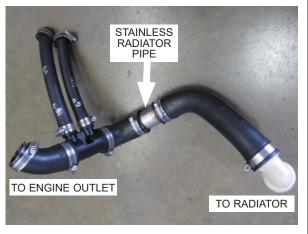


Fig. 2-I: Assemble hoses and clamps

J. Clearance for the air inlet duct needs to be made on the radiator fan support ribs. Locate the bottom left, two support ribs for the driver's side radiator fan motor. Cut and remove the indicated ribs.

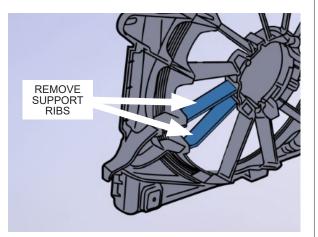


Fig. 2-J: Cut and remove two support ribs

K. Remove the quick disconnect coolant fitting from the indicated coolant barb. Insert a rod inside the coolant hard line and bend it over toward the passenger side of the vehicle about a 1/4 inch to make clearance for a standoff. Reconnect the hose after the modification.



Fig. 2-K: Bend hardline for standoff clearance

CRANKCASE BREATHER HOSE ASSEMBLY

Fig. 2-L: Locate breather hose assembly

L. Now that we will have positive manifold pressure under boost, you will need to add a check valve on the crank case breather hose assembly. It is located on the passenger side valve cover and connects to the throttle body.

M. Remove the hose assembly from the engine. Carefully cut the hose off the fittings with a razor blade. Cut the hose along its axis in several light passes until the hose can split off the fitting as to not damage the barbs and O-ring. The fittings will be reused in the following step.

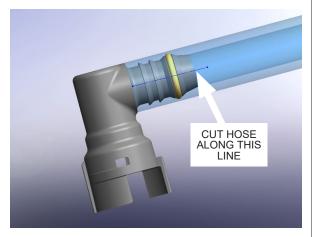


Fig. 2-M: Remove fittings from hose assembly

N. Assemble the new PCV assembly using Appendix C as a reference. Assemble the check valve, hoses, elbow, reducer and stepless clamps. Cover the assembly with protective sheath and heat shrink. Assemble the fittings from the previous step and secure them with stepless clamps.

NOTE: See Appendix C as reference.



Fig. 2-N: Assemble the new PCV assembly

O. Install the new PCV assembly to the engine in its original location.



Fig. 2-O: Install new PCV assembly

Use blue threadlocker on all screws in this section.

A. The supercharger mounting bracket assembly should come pre-assembled, however it will need to be disassembled during the installation. We suggest taking detailed pictures of the bracket assembly prior to disassembly.

NOTE: Refer to appendixes A-G for parts and torque specifications.

 Assemble the rear mounting plate as shown onto the two holes above the alternator. Torque the two M8 bolts to 22 lb-ft.

NOTE: See Appendix A as reference.

C. Preassemble the front mounting plate and components as shown. The snap rings of the idler pulleys should face the rear of the vehicle. Bolt the top Idler pulley to the plate. Torque to 35 lb-ft. Hold the threaded stud in the middle with pliers or in a vise. Screw the M8 nut onto the stud until at least 3 threads show past the nut. The notes indicate where the fasteners will mate to.

NOTE: See Appendix A as reference.



15



Fig. 3-A: Supercharger mounting bracket assembly

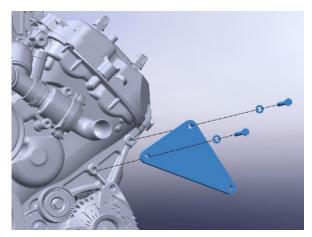
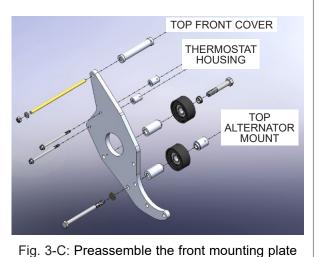


Fig. 3-B: Install rear mounting plate



e e. i redesemble the nont mounting plate

D. Assemble the front plate assembly to the engine. Hand tighten the fasteners until all parts are in place and aligned. Then torque the fasteners to spec.

NOTE: See Appendix A as reference.

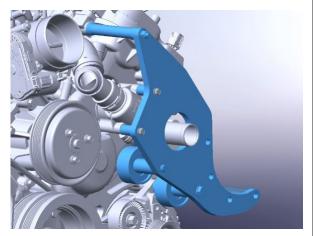


Fig. 3-D: Assemble front mounting plate to engine

E. Turn the supercharger upside down to access the oil drain plug. Using a 9/16" wrench, remove the oil drain plug and install the oil drain line.

NOTE: Take care not to spill any of the prefilled supercharger oil.

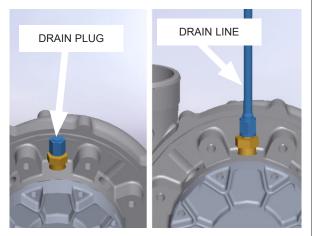


Fig. 3-E: Install oil drain line

F. Turn the supercharger right side up. Using a 3/16" hex key, remove the flat shipping plug and replace it with the provided vent plug. Take care not to spill any of the prefilled supercharger oil. Do not overtighten the vent plug.

> NOTE: Failure to replace the flat shipping plug with the provided vent plug can result in damage to the supercharger.



Fig. 3-F: Remove shipping plug and install vent plug

G. Assemble the air inlet support to the supercharger gear case with two 3/8"-16 bolts and two 3/8" washers. Torque to 22 lb-ft.

NOTE: See Appendix B as reference.

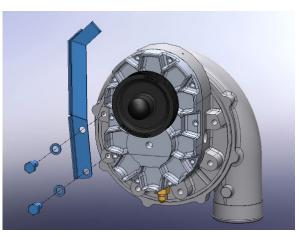


Fig. 3-G: Assemble air inlet support

H. Assemble a 3.5" bump hose onto the end of the air inlet elbow. Using pipe sealant on the threads, assemble a 3/4" NPT fitting onto the air inlet elbow. Assemble the air inlet elbow onto the supercharger inlet in place with a T-bolt clamp, however, leave the clamp loose until the next step.

NOTE: See Appendix B as reference.

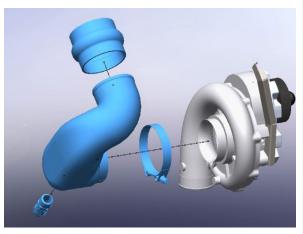


Fig. 3-H: Assemble air inlet elbow

I. Align the air inlet so the bump hose on it is resting next to the air inlet support. Assemble a #56 clamp over air inlet support and bump hose. Once the components are in place, tighten the T-bolt and #56 hose clamps.

NOTE: See Appendix B as reference.

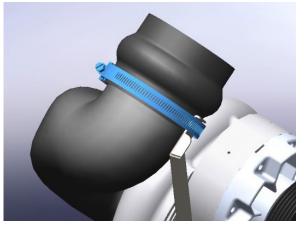


Fig. 3-I: Secure the air inlet elbow

J. Assemble the supercharger to the mounting bracket with the four 3/8" bolts, four 3/8" washers and a standoff as shown. Torque to 22 lb-ft. Route the drain line downwards towards the front of the vehicle. This line will be secured in a later step.

NOTE: See Appendix B as reference.

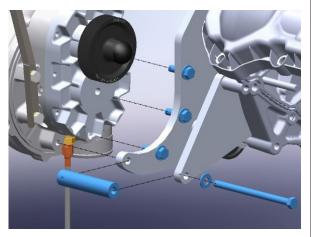


Fig. 3-J: Assemble supercharger to mounting bracket

K. Install the provided 6 rib belt from the bottom in between the two idler pulleys, then wrap it around the supercharger pulley. Wrap the rest of the belt around the accessary pulleys. Use a 14mm wrench to turn the tensioner counterclockwise, then wrap the belt over the tensioner pulley.

NOTE: See Appendix G as reference.

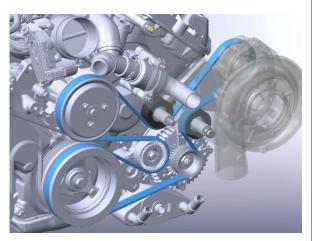


Fig. 3-K: Install the provided 6 rib belt

4. CHARGE AIR COOLER INSTALLATION

A. Center punch locations for holes to be drilled for the charge air cooler mounts. On the top radiator support, notice diagonal indentations marks on the front surface. On the driver's side, use the point where the diagonal intersects the bottom of the support for a reference point as shown. Center punch a mark .650 inch up from the bottom surface and 1.00 inch inwards from the reference point, towards the center of the vehicle as shown. Drill a hole out in steps using a 1/8" drill bit first then a 1/4 inch drill for the final size. Repeat process for the passenger side.

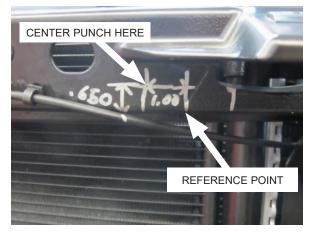


Fig. 4-A: Drill holes in top radiator support

B. Temporarily mount the left and right charge cooler brackets from the top hole to the upper radiator support with the 1/4 inch hardware. Once in position a lower slot should line up with a preexisting hole in the vehicle's lower radiator support's top surface. Temporarily install the 1/4 inch hardware for this hole. Ensure that the bracket is vertical and perpendicular to the lower radiator support. Center punch the lower radiator support to mark the center of the other slot in the bracket. Drill the hole out in steps using a 1/8 inch drill bit first then a 1/4 inch drill for the final size. Repeat for the other bracket.

NOTE: See Appendix F as reference.

C. Temporarily mount the charge air cooler and its mounting hardware in the orientation as shown. Center and level the cooler in position and then tighten the mounting hardware to spec.

NOTE: See Appendix F as reference.

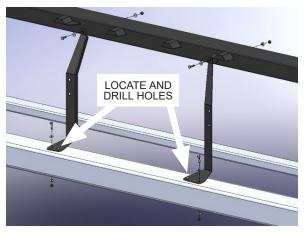


Fig. 4-B: Drill bracket hole locations

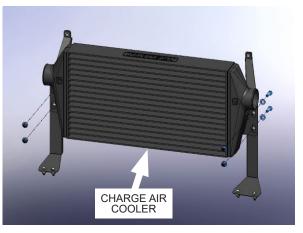


Fig. 4-C: Install charge air cooler

A. Assemble a 3.0 to 2.75 inch bump sleeve reducer and hose clamps from the blower outlet to discharge tube A. Leave the hose clamps loose until all discharge tubes are set in place.

NOTE: See Appendixes D1 AND D2 as reference.

NOTE: For ease of installing tubes to silicone couplers, brush a light coat of oil on the inside mating surface of the silicone sleeve prior to assembly.

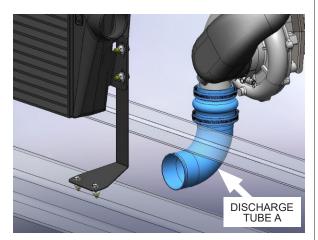


Fig. 5-A: Install discharge tube A

B. Assemble a 3.0 inch bump sleeve and hose clamps from discharge tube A to discharge tube B. Assemble a 90 degree elbow and hose clamps from discharge tube B to the charge air cooler. Leave the hose clamps loose until all discharge tubes are set in place.

NOTE: See Appendixes D1 AND D2 as reference.

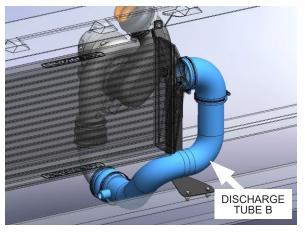


Fig. 5-B: Install discharge tube B

C. Assemble a 90 degree elbow and hose clamps from the charge air cooler to discharge tube C. Assemble a 3.0 inch bump sleeve and hose clamps from discharge tube C which will lead to discharge tube D. Leave the hose clamps loose until all discharge tubes are set in place.

NOTE: See Appendixes D1 AND D2 as reference.

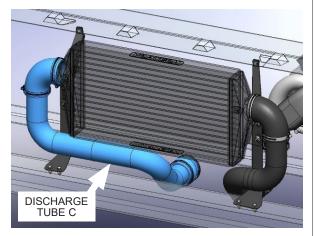


Fig. 4-C: Install discharge tube C

D. Remove any tape or protective cover on the throttle body then assemble a 3.88 to 3.0 inch elbow reducer and hose clamps onto the throttle body. Install discharge tube D in between discharge tube C and the throttle body as shown. Note the orientation of the elbow and discharge tube D to clear the indicated coolant hose. Leave the hose clamps loose until all discharge tubes are set in place.

NOTE: See Appendixes D1 AND D2 as reference.

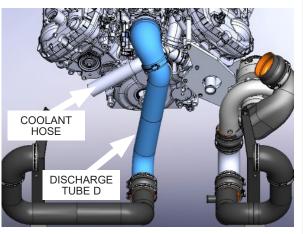


Fig. 5-D: Install discharge tube D

E. Discharge tubes B and C will be supported from the vehicles lower radiator support cross member. Set the support brackets in position over discharge tubes B and C and against the cross member in the orientation as shown. Using the bracket as a template, mark the slot locations roughly in the middle of the height of the cross member. Center punch the locations and drill them to 11/64" in two steps using a 1/8" drill as a pilot hole then a 11/64" drill for the final diameter. Mount each bracket to the cross member with 2 self-tapping screws. Clamp the discharge tubes to the support brackets with a #52 hose clamp.

NOTE: See Appendix F as reference.

F. Check that all discharge tubes, silicone couplers and hose clamps are free from interference with surrounding components. Once all the discharge tubes are in position, tighten the hose clamps.

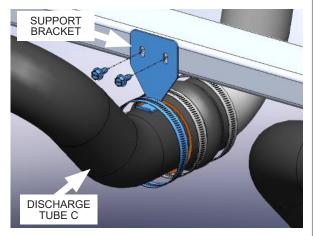


Fig. 5-E: Install support bracket

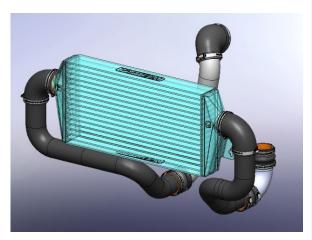


Fig. 5-F: Tighten hose clamps

G. Preassemble the bypass components as shown. Notice the orientation of the bypass valve vacuum port.

NOTE: See Appendix D2 as reference.

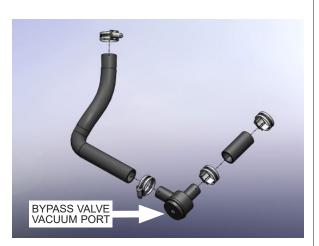


Fig. 5-G: Preassemble bypass components

H. Install the bypass assembly hose ends onto the 1 inch port on discharge tube B, and the 1 inch barb fitting on the air inlet elbow as shown.

NOTE: See Appendix D2 as reference.

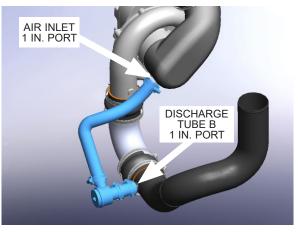
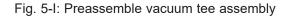


Fig. 5-H: Install bypass assembly

4 IN 4 IN 4 IN 3 FT



I. Assemble the vacuum tee assembly as shown. Assemble a 4 inch length of 1/4" vacuum hose to a 3 foot length of 5/32" vacuum hose with a 1/4" to 5/32" reducer.

NOTE: See Appendix D2 as reference.

J. Cut the 1/4" vacuum hose that comes off the throttle body and over to the driver's side where indicated. Insert the tee assembly in the orientation shown with the 5/32" vacuum hose going towards the front of the vehicle.

NOTE: See Appendix D2 as reference.

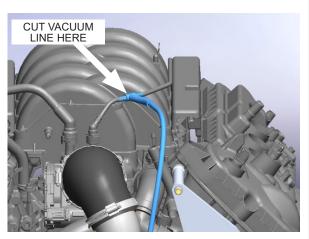


Fig. 5-J: Insert tee assembly

K. Route the 5/32" vacuum hose along discharge tube D, towards the bypass valve. Secure the vacuum hose to the discharge tube with zip ties. Use two zip ties to make one long zip tie long enough to wrap around the discharge tube and vacuum hose. Connect the vacuum hose to the vacuum port on the bypass valve. Do not choke the vacuum hose by over tightening the zip ties.

NOTE: See Appendix D2 as reference.

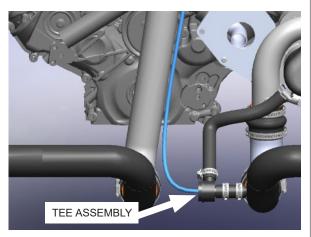


Fig. 5-K: Connect vacuum hose to bypass valve

6. AIR INLET INSTALLATION

A. Install the air cleaner assembly back into its original location. Align the rubber grommets on the chassis to the post on the bottom of the air cleaner assembly. Press the air cleaner assembly down to secure it in the rubber grommets. Secure the air cleaner assembly to the chassis with its retaining bolt.



Fig. 6-A: Install air cleaner assembly

 B. Install a 3.75 inch to 3.5 inch reducer onto the air cleaner assembly outlet. Secure it with a #60 hose clamp.

NOTE: See Appendix B as reference.

C. Locate the air inlet tube and a 3/8" NPT to 5/8" 90-degree barb fitting. Use pipe sealant on the fittings threads and assemble the fitting onto the air inlet tube in the orientation as shown.

NOTE: See Appendix B as reference.



Fig. 6-B: Install reducer and clamp

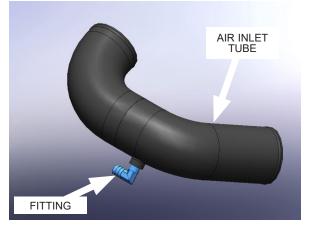


Fig. 6-C: Install 90 Degree fitting

6. AIR INLET INSTALLATION

D. Locate the breather hose assembly that was removed in step 1B. Carefully cut the hose off of the 90-degree fitting with a razor blade. Cut the hose along its axis in several light passes until the hose can split off the fitting as to not damage the barbs and O-ring. The fitting will be reused in the following step.

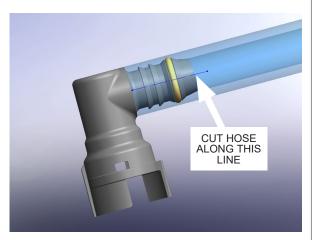


Fig. 6-D: Remove 90-degree fitting

E. Assemble a 2 feet section of 5/8" PCV hose onto the 5/8" 90 degree barb fitting in the orientation as shown. Secure the hose to the fitting with a #6 hose clamp.

NOTE: See Appendix B as reference.



Fig. 6-E: Assemble PCV hose

F. Install the air inlet tube to the air cleaner assembly and air inlet elbow in the orientation as shown. Secure the inlet tube to the silicone couplers with #56 hose clamps. Connect the crankcase breather hose fitting to the barb on the valve cover.

NOTE: See Appendix B as reference.

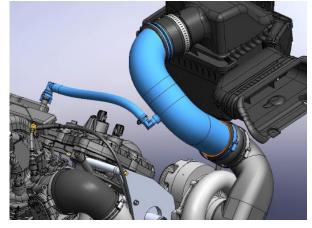


Fig. 6-F: Install air inlet tube

7. COOLANT HOSE ASSEMBLY INSTALLATION

A. Install the coolant hose assembly which was previously modified in the orientation as shown. Secure the hose to the thermostat outlet with a #24 hose clamp. Secure the 3/4" heater hoses to the oil cooler with #10 hose clamps. Reconnect the coolant hose assembly to the radiator.

NOTE: See Appendix E as reference.

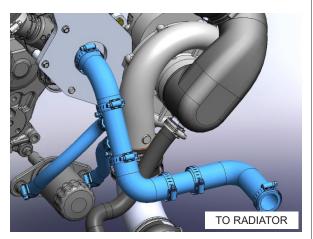


Fig. 7-A: Install coolant hose assembly

B. Check that all coolant hoses are secure and free from interference with surrounding components. Locate the coolant reservoir and refill the engine coolant.



Fig. 7-B: Refill coolant

8. MAP / IAT SENSOR INSTALLATION

A. The MAP / IAT (manifold absolute pressure / intake air intake temperature) sensor is integrated into a single unit. Locate the MAP / IAT sensor on back of the intake manifold. It is in a tight space between the intake manifold and fire wall.

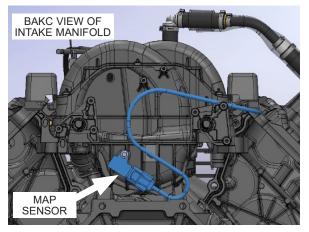


Fig. 8-A: Locate MAP / IAT sensor

B. Carefully unlock the connector by pulling the lock tab towards the sensor. Depress the connector latch and disconnect the MAP / IAT connector. Using an 8mm ratchet box wrench, remove the single fastener which secures the sensor to the intake manifold. Remove the sensor from the intake manifold by pulling it away from the manifold towards the rear of the truck.

C. Install the new MAP / IAT sensor in the reverse order of removal.

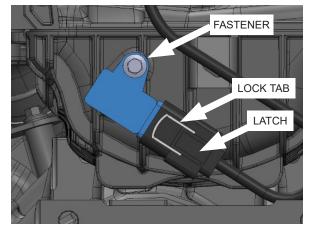


Fig. 8-B: Disconnect and remove MAP / IAT sensor

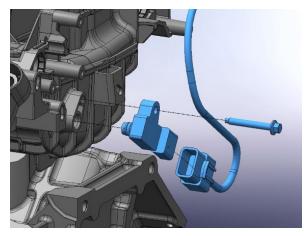


Fig. 8-C: Install new MAP / IAT sensor

9. GENERAL REASSEMBLY

A. Drill a 1/4 inch hole in the side of plastic oil drain gutter for a hole to zip tie the supercharger drain line to. The oil drain gutter is located directly below the oil filter.

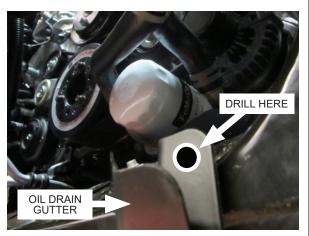
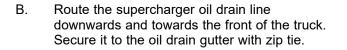


Fig. 9-A: Drill hole in oil drain gutter



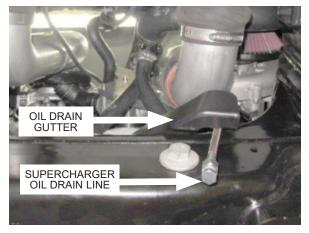


Fig. 9-B: Secure oil drain line

C. Relocate the air deflector actuator motor to a plastic cross member located on top of the shutter shroud, next to the hood latch. Secure it with the suppled zip ties. Reconnect the connector



Fig.9-C: Mount air deflector motor

9. GENERAL REASSEMBLY

Ε.

D. Reinstall the ambient air temperature sensor to its original location. Secure it with its locking clip. Reconnect the connector

Flip the horn assembly 180 degrees so the

of the truck and assemble to its original location. Reconnect the connector.

horns are protruding forward towards the front

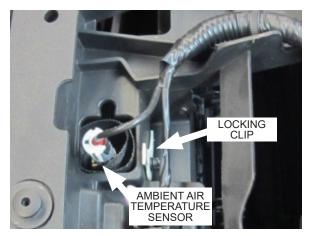


Fig. 9-D: Install and reconnect ambient air temperature sensor

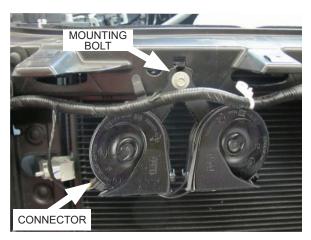


Fig. 9-E: Flip and instlall horn

F. Reinstall the grill and secure using the original hardware and plastic fasteners.



Fig. 9-F: Reinstall the grill

9. GENERAL REASSEMBLY

G. Reinstall the bumper trim by snapping it back into place and securing it using the original hardware at the corners.



Fig. 9-G: Reinstall bumper trim

H. Reinstall the radiator support cover and secure it using the original plastic fasteners.



Fig. 9-H: Reinstall radiator support cover

I. Using a 10mm socket, reconnect the negative battery cable.



Fig. 9-I: Reconnect negative battery cable

10. 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, and clamps for tightness. Double check that all nuts and bolts are torqued to specifications noted in the appendixies. 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 zip ties.
- **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.
- 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.
- 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:

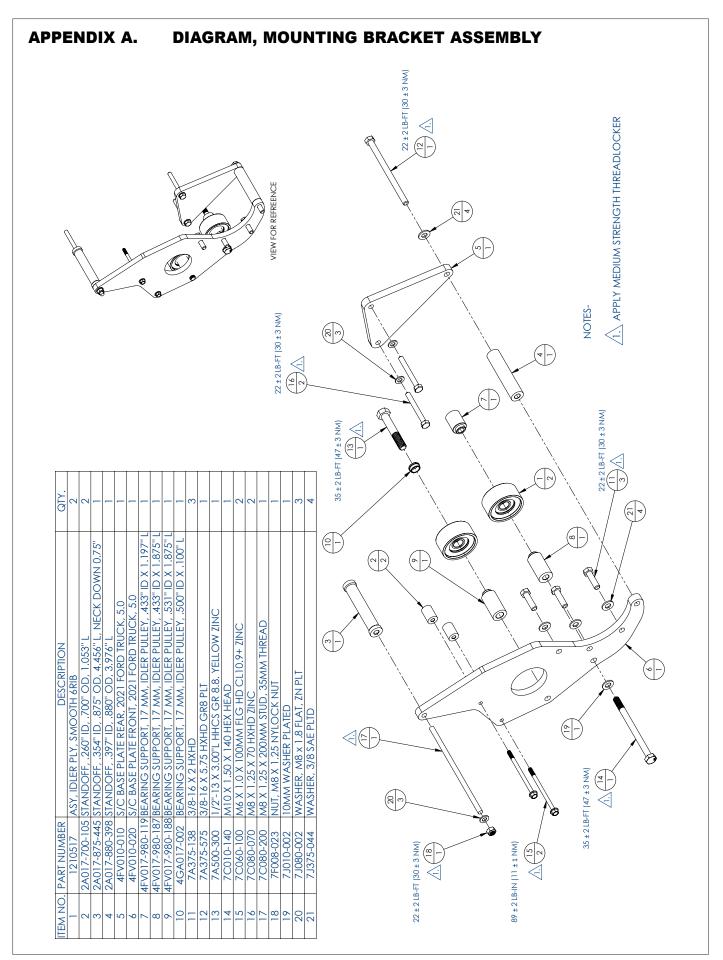
- 1. Verify that the vehicle is at room temperature. Ensure that the .06" copper sealing washer is located on the dipstick base.
- 2. Thread the clean dipstick into the unit until it seats.
- 3. Once the dipstick has seated, remove the dipstick from the unit. Fluid should register in the crosshatched 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.

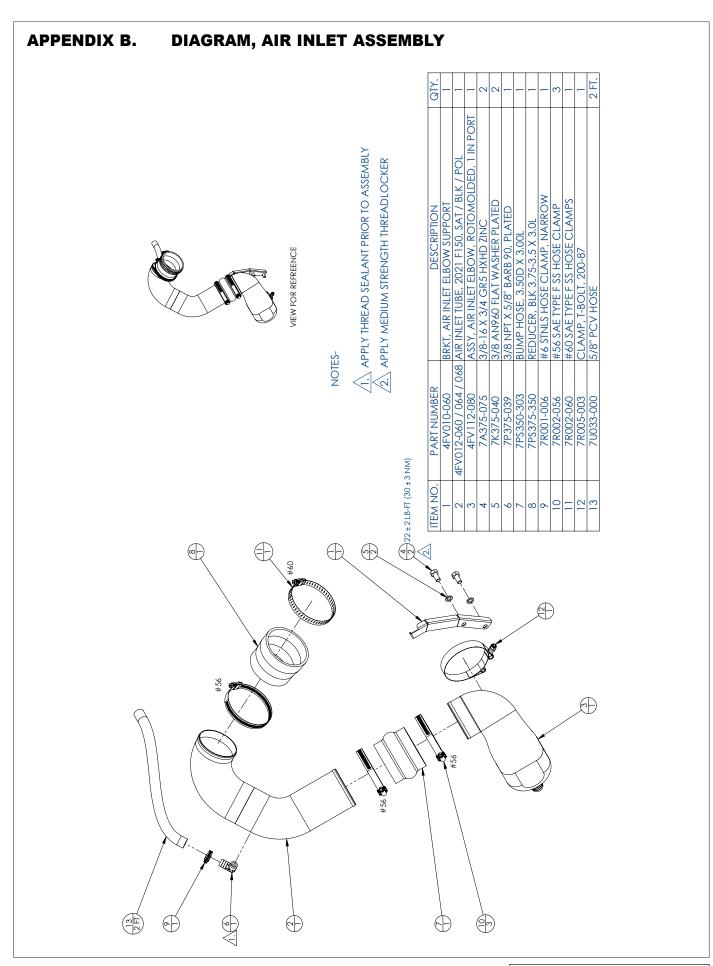
Initial supercharger fluid change must be performed at 2,500 miles. The supercharger fluid must be changed at least every 7,500 miles.

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

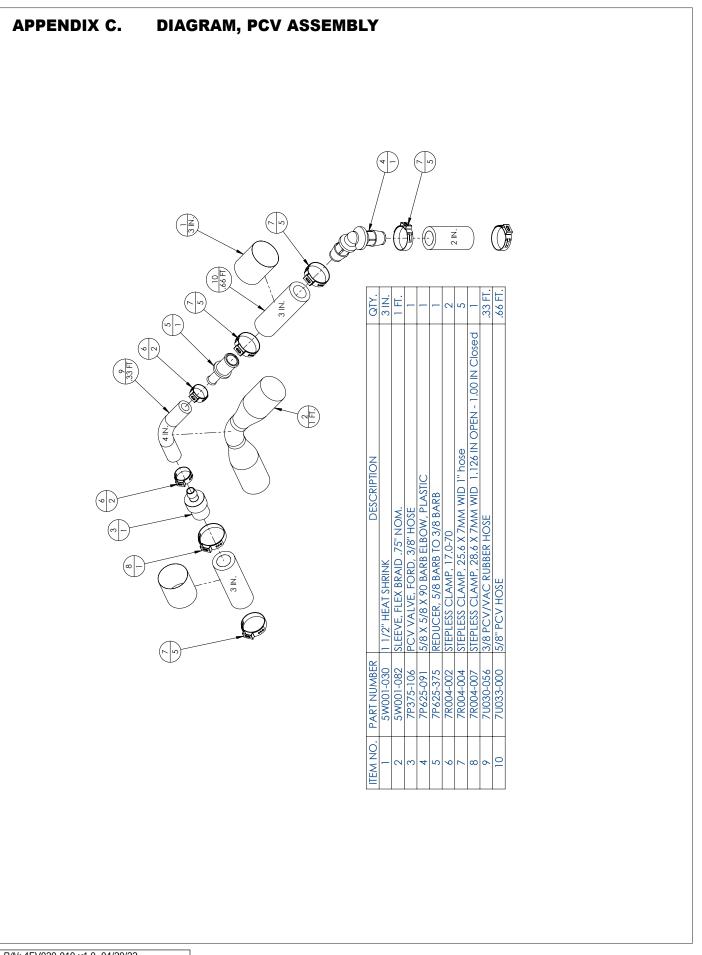
WARNING: Use of any other fluid other than the proprietary Vortech/Paxton synthetic lubricant will void the warranty and may cause component failure.

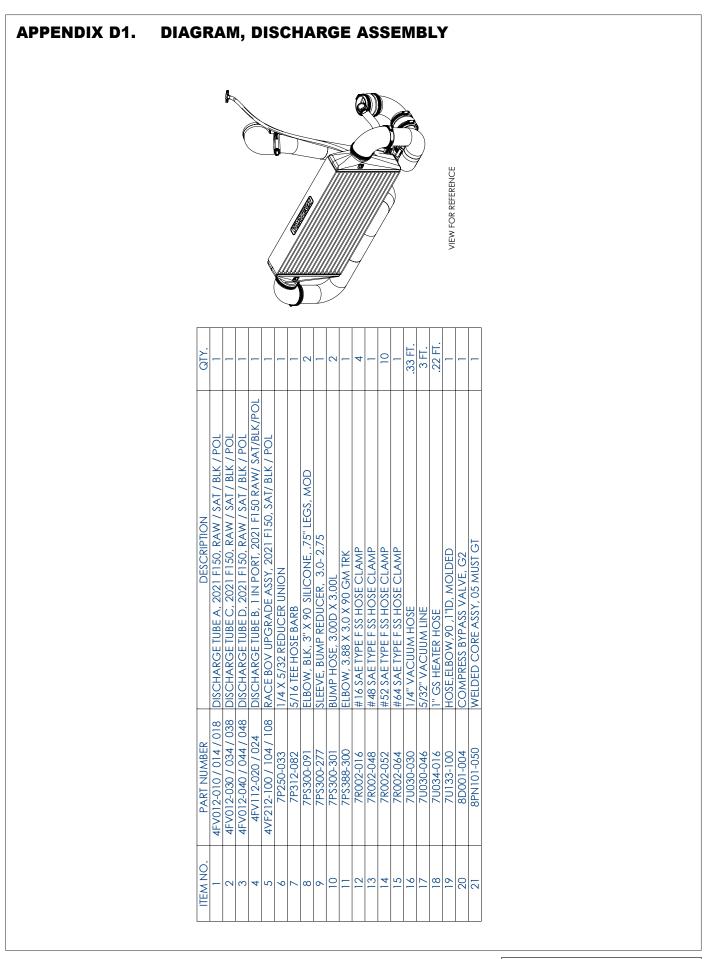


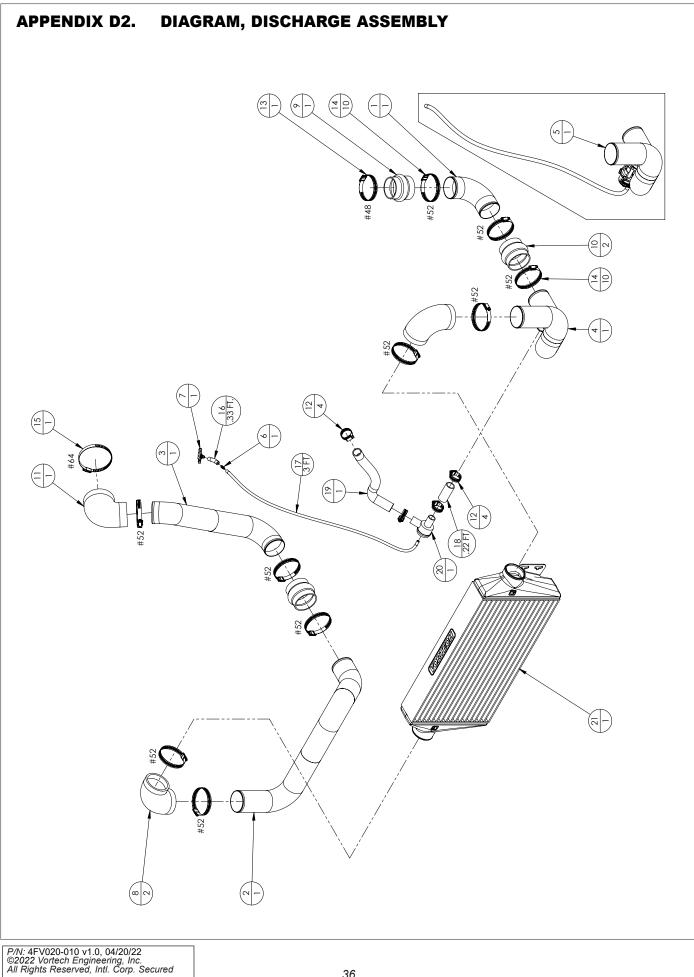
P/N: 4FV020-010 v1.0, 04/20/22 ©2022 Vortech Engineering, Inc. All Rights Reserved, Intl. Corp. Secured

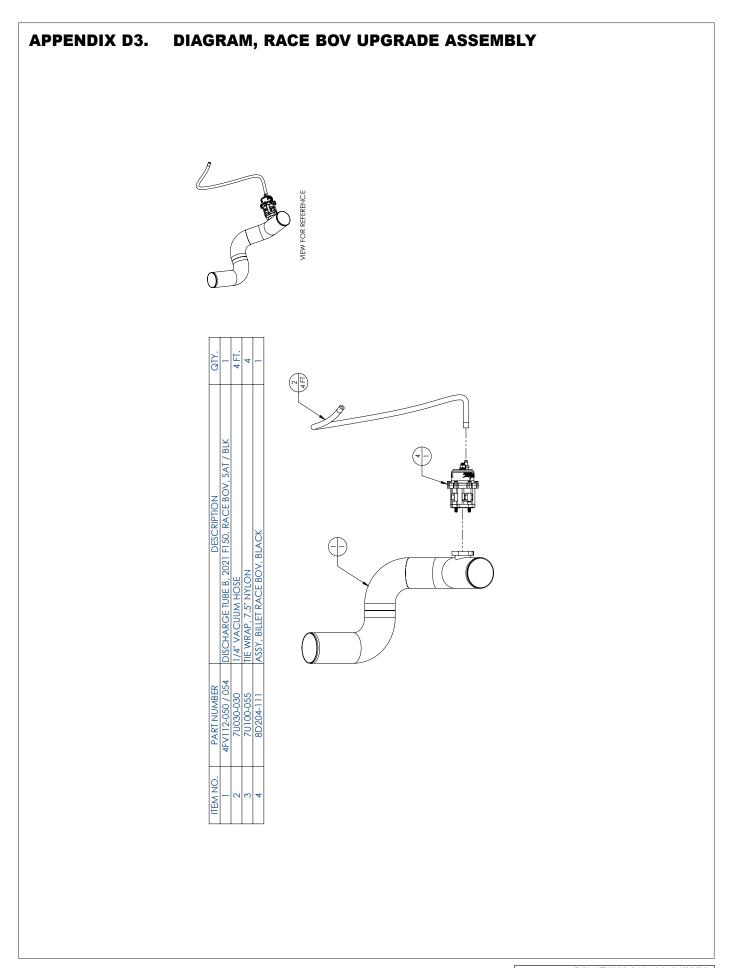


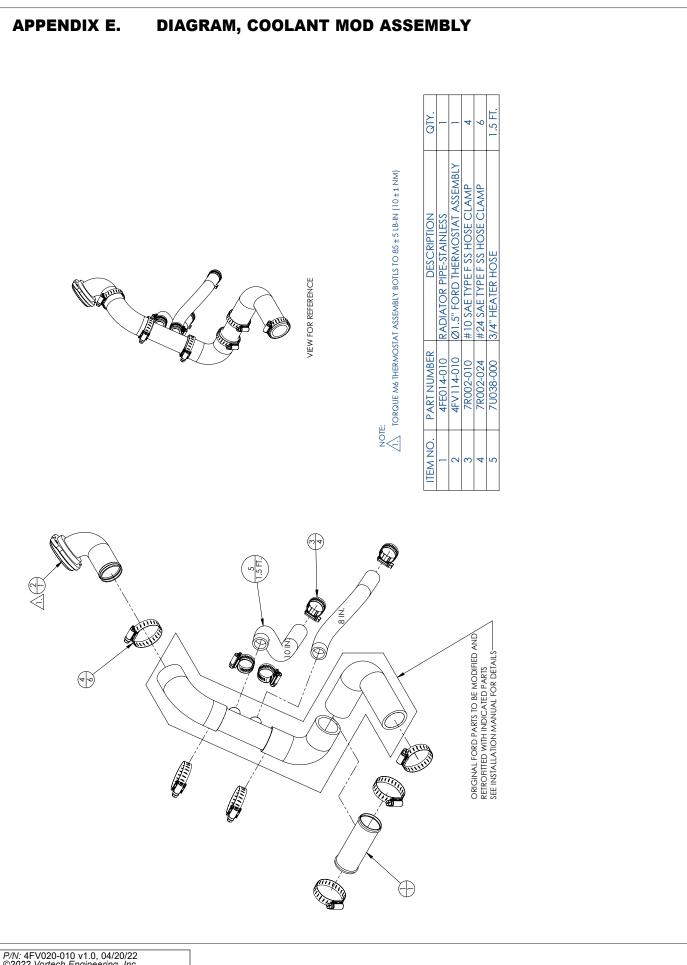
P/N: 4FV020-010 v1.0, 04/20/22 ©2022 Vortech Engineering, Inc. All Rights Reserved, Intl. Corp. Secured

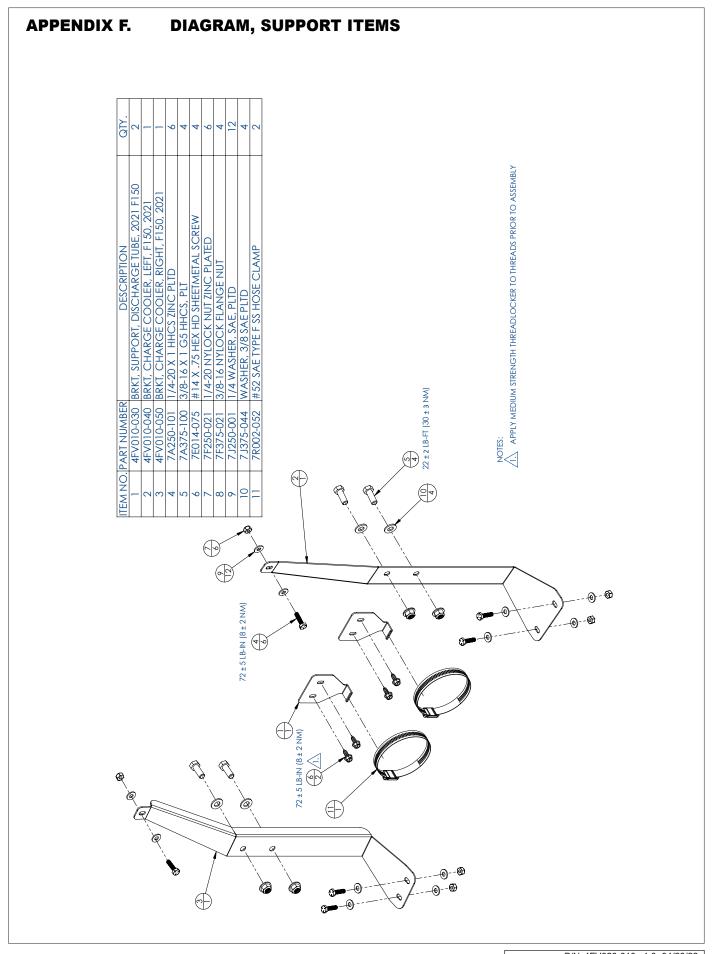


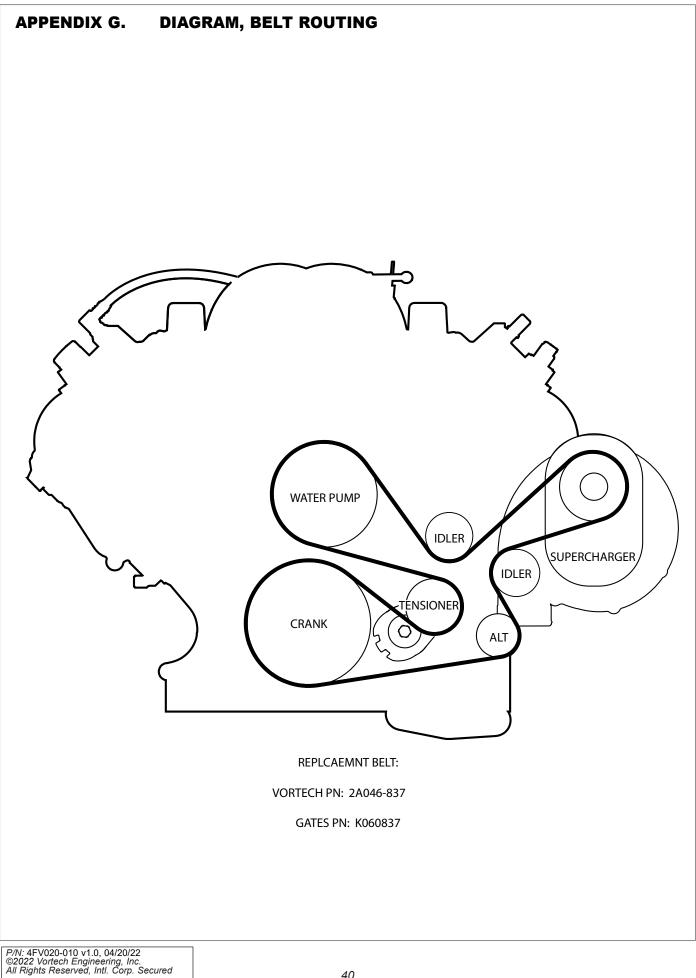














1650 Pacific Avenue, Channel Islands, CA 93033-9901 • Phone (805) 247-0226 Fax: (805) 247-0669 • www.vortechsuperchargers.com • M-F 7:00 AM - 3:30 PM (PST)