



INTRODUCTION

Identify supercharger (S/C) kit parts & hardware and read this manual completely before starting. Left side is the driver's side. This engine uses metric fasteners. We have done this installation many times and this is the most efficient way to do it in the least amount of time. Follow these directions **EXACTLY**. There are no extra parts. You will need a male torx #30 socket or driver. Use care when separating electrical connectors - the locking tabs squeeze to release. Weatherpack electrical connectors are used as part of this kit. They can be attached with conventional tools, however a special Weatherpack crimper is available that works better and gives more professional results. This kit is very straight forward and easy to install, but if there is some part of the manual that you don't understand, or if you have any other questions or comments, please call our Tech Line at 510-236-1220 Tuesday thru Friday 9AM till 4PM Pacific Time for expert, experienced, friend-ly assistance.

There are 6 basic steps in this installation:

Assemble components
Install idler assembly
Replace fuel pump
Disassemble stock intake
Install supercharger
Modify wiring harness

NOTICE: INSTALLATION OF FUEL PUMP WILL BE MUCH EASIER WITH MINIMUM FUEL IN TANK FUEL IN TANK MUST BE PREMIUM GRADE

PARTS LIST

*

supercharger assembly MP82 GEN4 1 MP10-62-41-010 discharger manifod (iii, 25 Auminum 1 XS5566-031 discharger manifod (iii, 25 Auminum 1 XS5566-031 discharger manifod (iiii, 25 Auminum 1 XS5566-031 discharger manifod (iiii, 25 Auminum 1 XS5566-031 discharger manifod (iiii), 25 Auminum 1 XS5566-031 discharger manifod (iiii), 25 Auminum 1 XS5566-13 discharger anifold (iiii), 21 Auminum 1 XS5566-13 discharger anifold (iiii), 21 Auminum 1 XS5566-13 discharger anifold (iiii), 21 Auminum 1 XS5566-14 discharger anifold (iiii), 21 Auminum 1 XS5566-14 <t< th=""><th colspan="2">key no</th><th>description</th><th>quan</th><th>part no</th><th>application</th></t<>	key no		description	quan	part no	application
ci_clarge manifold, Cast aluminum 1 X85566-02 ci_clarge manifold (L_S 2 luminum) 1 X85566-10 ci_clarge manifold (L_S 2 luminum) 1 X85566-10 ci_clarge manifold (L_S 2 luminum) 1 X85566-10 ci_clarge manifold (L_S 2 luminum) 1 X85566-11 ci_clarge manifold (L_S 2 luminum) 1 X85566-13 ci_clarge manifold (L_S 2 luminum) 1 X85566-14 ci_clarge manifold (L_S 2 luminum)<	01		supercharger assembly MP62 GEN4	1	MP10-62-41-016	
cs discharge manifold (id., 25 aluminum 1 XSS566-02 of Inite adapte, cast unminum 1 XSS566-03 of Inite adapte, cast unminum 1 XSS566-04 of Inite adapte, cast unminum 1 XSS566-14 of Iber plate bracket, 125 steel 1 XSS566-16 of Iber plate bracket, 125 steel 1 XSS566-17 of Iber plate bracket 10 dia x 10 1 XSS566-18 of Iber plate bracket 10 dia x 320 2 XSS566-18 of Iber plate bracket 10 dia x 320 2 XSS566-18 of Iber plate bracket Iber plate bracket Iber plate bracket Iber plate bracket issues Iber plate bracket Iber plate bracket Iber plate bracket Iber plate bracket issues Iber plate bracket Iber plate bracket Iber plate bracket Iber plate bracket issues Iber plate bracket Iber plate bracket Iber plate bracket Iber plate bracket issues Iber plate br		02	discharge manifold, cast aluminum	1	XS5556-01	
oil Intel adapter, cast aluminum 1 XSS566-04 off Intel adapter, cast aluminum 1 XSS566-04 Of Intel adapter, cast aluminum 1 XSS566-08 Of Intel adapter, cast aluminum 1 XSS556-10 Idler bracket to alternator bracket Op Josef adapter, cast aluminum 2 KSS566-17 Idler bracket to alternator bracket Itel adapter 10 (m n 12 s 130mm 2 KSS566-17 Idler bracket is places (3 nose support to idler bracket Itel adapter 1 XSS566-17 Idler bracket is bolts Idler bracket is bolts Itel adapter 1 XSS566-11 Idler bracket is bolts Itel adapter 1 XSS566-11 Idler bracket is bolts Itel adapter 1 XSS566-11 Idler bracket is bolts Itel adapter 3 KSS566-11 Idler		03	discharge manifold lid, .25 aluminum	1	XS5556-02	
op Ider plate, 375 aluminum 1 XS5566-06 op Index plate bracket, 125 steel 1 XS5566-16 Ider bracket to pib bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op Index plate bracket Index plate bracket Index plate bracket Index plate bracket op		04	inlet adapter, cast aluminum	1	XS5556-03R	
gene modes upport. 250 aluminum 1 XS2556-06 0 bracket, EGR vaive 1 XS5556-07 der bracket to alternator bracket 0 bracket, EGR vaive 1 XS5556-16 der bracket to alternator bracket 10 pager, aluminum, and 1.0.0.0.0.0.X.0.0 1 XS5556-16 der bracket to alternator bracket 11 pager, aluminum, and 1.0.0.0.0.X.0.2 XS5556-17 der bracket to alternator bracket EGR (1) / non EGR (2) 12 pager, aluminum, and 1.25.0.0.2 XS5556-07 der bracket to alternator bracket to alternator bracket 15 10mn 1.5.x 130mn 2 MXS1280A681 dier plate to left head 16 10mn 1.5.x 130mn 2 MXS1280A681 dier bracket bols 17 8 maxbr, 10mn ffte 3 Be10/W dier bracket bols 18 waker, 10mn ffte 3 Be10/W dier bracket bols 18 waker, 10mn ffte 3 Be10/W dier bracket bols 18 waker, 10mn ffte 4 BB302FH (ue) rait to block 18 waker, 10mn ff		05	idler plate, .375 aluminum	1	XS5556-04	
org Ider Plate bracket, 125 steel 1 XS5566-08 org bracket, EGR value 1 XS5566-17 diar bracket to alternator bracket subbit moduling of dia x 12 XS5566-18 diar bracket to pib bracket tit pulley 10 dia x 320 2 XS5556-16 diar bracket to pib bracket tit pulley 10 dia x 320 2 XS5556-17 diar bracket to pib bracket tit boil, 716-20 special shoulder 2 XS5556-07R tit boil, 716-20 special shoulder 2 XS5556-07R tit boil, 716-20 special shoulder 2 KS5556-07R tit boil, 716-20 special shoulder 2 FS45907 tit boil, 716-20 special shoulder 2 FS45907 tit boil, 716-20 special shoulder 2 FS45907 tit min 20 flam x 15 shown 2 MK9280A621 dider bracket boils subbit tit masker, flam x 35 socket buton head 2 MK9205A218 subbit <thtit< th=""> tit XS5556-11</thtit<>		06	nose support250 aluminum	1	XS2556-05	
08 bracket, EGP valve 1 XS5565-11R dier bracket to alternator bracket 09 bracket, EGP valve 1 XS5556-16 dier bracket to pis bracket 01 10 1 XS5556-16 dier bracket to pis bracket Die bracket 11 brog 10, 04 at 7.0 1 XS5556-16 dier bracket to pis bracket Die bracket, 100 hracket 11 brog 10, 04 at 7.0 1 XS5556-07 hracket dier bracket, 100 hracket Die bracket, 100 hracket 15 10mm 1.5 x 130mm 2 MS4520A683 dier plate to bracket /00 protected Die bracket, 100 hracket 16 10mm 1.5 x 130mm 1 MS9120A683 dier plate to bracket /01 protected Die bracket, 100 hracket 17 Bracket, 10m flat 3 BB10LW dier bracket botts Die bracket, 100 protected		07	idler plate bracket, .125 steel	1	XS5556-06	
ope spacer, aluminum,short 1.0 ala X.30 1 XS5566-13 difer bracket to pis bracket subkit 1 Gene and the state of the s		08	bracket, EGR valve	1	XS5556-11R	
substit 10 medium 1.0 dia x1.0 1 XSS056-16 difer bracket to pis bracket Difer 10 11 0 gin 0 dia x1.0 1 XSS056-16 difer bracket to pis bracket ECR (1) / non EGR (2) 12 pulley 1.0 dia x.320 2 XSS056-16 difer bracket to pis bracket. ECR (1) / non EGR (2) 14 bolt, 716-20 gene and the pisches 2 XSS056-17 difer bracket to pis bracket. ECR (1) / non EGR (2) 14 bolt, 716-20 gene bracket. YSS0560-76 difer bracket bolts differ bracket bolts		09	spacer, aluminum, short 1.0 dia X .90	1	XS5556-13	idler bracket to alternator bracket
Substit 11 Long 1.0 da x 1.20 alternator 125 alum 1 X35366-15 X35366-15 X35366-15 Dile for dacket to pis thacket ECH (1) / hole ECH (2) market for the substitution of the substit	aublit	10	medium 1.0 dia x 1.0	1	XS5556-16	Idler bracket to p/s bracket
Initial pulse pulse 2 Accession 14 bolt, 7/16-20 generation (25 6/6907) 1 Xecssion 1 14 bolt, 7/16-20 generation (25 6/6907) 1 Xecssion 1 16 minit (2, 110) 1 Xecssion 1 Xecssion 16 washer, 10mm (16 x, 110) 1 Xecssion 1 Xecssion 17 Birm x 20 flange head 4 BB8X20FH (2) killer plate to bracket /(3) nose support to ider bracket ider 18 washer, 10mm (16 x, 110) 6 MeS938302 1 1 Xecssion 21 fuel rail adapter 1 GFFO/F29229A-11 1 Cel rail to block 1 25 Sinum x 25 finge head 4 BB8x20FH Lel rail to block 1 26 Washer, flat Sinum atainess 2 MK8215A422 1 1 1 26 Sinum x 35 socket button head 2 MK8215A422 1 1 1 1 1 1 1 1 1		11	long 1.0 dia x 1.2		XS5556-14	Idier bracket to p/s bracket EGR (1) / Itoh EGR (2)
13 bolt, 71/6-20 apacial modules 2 PS49977/n 14 10/m 71.5 x 120mm 1 MX91280A661 Idler plate to right head 14 10/m 71.5 x 120mm 1 MX91280A661 Idler plate to right head 15 mm x 20 finge head 3 BB101W Idler bracket bolts 19 look 3 BB101W Idler bracket bolts 10 ock 3 BB101W Idler bracket bolts 10 ipicotrs, 30 lb 6 M9338302 Idler bracket bolts 20 injectors, 30 lb 6 M9338302 Idler bracket bolts 21 spacer, Led rail 75 dia x .5 4 X35556-51 Idler bracket bolts 23 spacer, Led rail 75 dia x .5 4 X35556-51 Idler bracket bolts Idler bracket bolts 24 bolt, Smm x 35 socket button head 2 MK8205A22 Idler bracket bolts 25 fold, fait fait dapter 1 MC2075A24 Idler bracket bolts 26 kasket, specificat connector 1 MC27504 <t< td=""><td>inn</td><td>12</td><td>pulley 1.0 dia x .320</td><td>2</td><td>XS5556 07D</td><td></td></t<>	inn	12	pulley 1.0 dia x .320	2	XS5556 07D	
subit 1 0001, 77.020 spicular is notween 2 i>M001 200A683 idler plate to right head 10 100m 11 & 120 farge head 4 BBR/SOFH (2) lider plate to bracket (3) nose support to idler bracket 10 100m 11 & 120 farge head 4 BBR/SOFH (2) lider plate to bracket (3) nose support to idler bracket 10 100k 3 BB10FW (1) dier bracket bolts 10 ingetors. 30 b 6 M99338302 (1) dier bracket bolts 21 fuel rail adapter 1 X55556-50 - - 21 fuel rail adapter 1 GFFO728228A-11 fuel rail to block - 25 Some stainess 2 MK83475A240 - - 26 ACT sensor 1 MCDY-754 - - 26 ACT sensor 1 MCDY-754 - - 27 boking electrical connector 1 DC75030 - - 38 electrical connector 1 DC75014 - -		13	alternator 125 alum	12	ES45007	
Image: subsitive state Image: state state Image: state st		14	10mm 1.5 x 130mm	2	MX912804663	idler plate to right head
Image: substrate Image: substrate Image: substrate Image: substrate Image: substrate substrate 1 image: substrate 1 BBIOPW idler bracket botts substrate 1 image: substrate 1 XSSS56-51 21 fuel rail adapter 1 XSSS56-50 22 substrate 1 XSSS56-50 23 oning mode: substrate 2 BBiOPW fuel rail to block 24 bott, mm x 25 fange head 4 BBiX25FH fuel rail to block 25 Soft, mm x 35 socket button head 2 MK93475A240 image: substrate 26 ACT sensor 1 MCDY-754 image: substrate image: substrate 26 ACT sensor 1 MCDY-754 image: substrate image: substrate image: substrate 31 bousing, electrical connector, male 1 DC/5030 image: substrate image		15	10mm 1.5 x 120mm	1	MX91280A661	idler plate to left head
is washer, 10mm flat 3 BB10/W idler bracket bolts 20 injectors, 30 lb 6 M95393002 Micro Control 21 julectors, 30 lb 6 M95393002 Micro Control 22 spacer, fuel rail. 75 dia x. 5 4 XS5556-51 ZS556-51 22 spacer, fuel rail. 75 dia x. 5 4 XS5556-51 ZS556-51 23 spacer, fuel rail. 75 dia x. 5 4 XS5556-51 ZS556-51 24 bolt, Brum x 25 flange head 4 BB870.W Iuler all to block 5mm x 35 socket button head 2 MK92153A422 Iuler all to block ZS556-41 30 connector, terminal, weatherpack male 2 DC75030 Immedia ZS556-61 33 seal, electrical connector, male 1 DC75014 Immedia ZS556-30 34 seale, electrical connector 1 XS556-30 Immedia ZS556-30 35 suppercharger inlet 1 XS556-30 Immedia ZS556-30 36 gasket, s		17	8mm x 20 flange head	4	BB8X20FH	(2) idler plate to bracket / (3) nose support to idler bracket
Image: Subtract State		18	washer 10mm flat	3	BB10FW	idler bracket bolts
20 injectors, 30 ib. 6 Messals302 subkit 22 spacer, fuel rail.75 dia x.5. 4 XS5556-51 22 spacer, fuel rail.75 dia x.5. 4 XS5556-51 23 bolt, Bmm x 25 flarge head 4 BB8x25FH 24 bolt, Bmm x 25 flarge head 2 MK32056218 25 Smm x 35 socket button head 2 MK320153A422 26 ACT sensor 1 MCDV754 27 Look Smm stainess 2 MK32153A422 28 ACT sensor 1 MCDV754 29 DC75030		19	lock	3	BB10LW	idler bracket bolts
subtil 21 fuel rail adapter 1 X85556-50 23 peoer, fuel rail adapter 1 GFFCP23229A-11 24 bolt, Bmm x 25 fange head 4 BB8-25FH 25 bolt, Bmm x 25 fange head 4 BB8-25FH 26 oring, tub rail adapter 1 GFFCP23229A-11 27 bolt, Bmm x 25 fange head 4 BB8-25FH 28 waher, flat famm stainless 2 MK93475A240 29 ACT harness 1 X55556-11 20 connector terminal, weatherpack male 2 DC75630 29 bousing, electrical connector 1 DC75616 30 connector terminal, weatherge 1 X5555-31 31 gasket, supercharger discharge 1 X5555-31 32 busing, electrical connector 4 DC75016 33 supercharger minicidit 1 X5555-31 34 seal, electrical gape 1 X5555-31 35 supercharger minicidit 1 X5552		20	iniectors. 30 lb	6	M9593B302	
subkit 22 spacer, fuel rail 75 dia x, 5 4 XSSS56-50 c-ring, fuel rail adapter 1 GFFOP28229A-111 fuel rail to block smm x 25 flange head 4 BB8x25FH fuel rail to block smm x 25 flange head 4 BB8x25FH fuel rail to block smm x 25 slocket button head 2 MK83475A240 26 washer, flat 5rm stainess 2 MK83475A240 27 lock strom stainess 2 MK83475A240 28 ACT sensor 1 MCDY-754 29 ACT sensor 1 XSS556-51 30 connector terminal, weatherpack male 2 DC75032 31 brousing, electrical connector, male 1 DC75014 33 seal, electrical connector, male 1 DC7502 34 discharge manifold lid 1 XSS556-32 35 jakket, supercharger listcharge 1 XSS556-32 36 i.e.dringer listcharge 1 XSS556-32 37 discharge manifold lid <td< td=""><td></td><td>21</td><td>fuel rail adapter</td><td>1</td><td>XS5556-51</td><td></td></td<>		21	fuel rail adapter	1	XS5556-51	
Subkit 23 oring, fuel rail adapter 1 GFFOP282284-11 25 5mm x 35 socket button head 2 MK82095A218 Iuel rail to block 26 washer, flat Smm stainless 2 MK82157A240 Iuel rail to block 27 ACT sensor 1 MK92157A240 Iuel rail to block 28 Washer, flat Smm stainless 2 MK82157A240 Iuel rail to block 28 ACT sensor 1 XS555641 Iuel rail to block 30 connector terminal, weatherpack male 2 DC75032 Iuel rail to block 33 electrical connector female 1 DC75014 Iuel rail to block 34 seal, electrical connector 4 DC75002 Iuel rail to block Iuel rail to block 36 electrical appe 1 XS5556-30 Iuel rail to block Iuel rail to block 36 gasket, supercharger inlet 1 XS5556-64 Iuel rail Iuel rail 37 Iuel rail Iuel rail XS5556-64 Iuel rail Iuel rail <td></td> <td>22</td> <td>spacer, fuel rail .75 dia x .5</td> <td>4</td> <td>XS5556-50</td> <td></td>		22	spacer, fuel rail .75 dia x .5	4	XS5556-50	
ING 24 bolt, Brim x 25 flange head 4 BB8/25FH fuel rait to block Smm x 35 socket button head 2 MK893475A240	subkit	23	o-ring, fuel rail adapter	1	GFFOPZ9229A-1*1	
25 Smm x 35 socket button head 2 MK92055218 27 lock 5mm stainess 2 MK92157A240 28 ACT ensor 1 MCDY-754 29 ACT harness 1 MCDY-754 30 connector terminal, weatherpack male 2 DC75016 31 brusing, electrical connector male 1 DC75016 32 housing, electrical connector 4 DC75016 34 seal, electrical ape 1 SC556-31 35 electrical ape 1 XS5556-30 36 supercharger mailod Id X S5556-30 37 gasket, supercharger inlet 1 XS5556-30 38 supercharger inlet 1 XS5556-30 39 IA/C 1 GFE632967/0-A 40 EGR 1 GFE632767 41 mass air meter 1 XS5556-5X 42 lockitle 1 DA80069 PCV brose 44 hose, 5/8 PCV hose x 12 1 <t< td=""><td>ING</td><td>24</td><td>bolt, 8mm x 25 flange head</td><td>4</td><td>BB8x25FH</td><td>fuel rail to block</td></t<>	ING	24	bolt, 8mm x 25 flange head	4	BB8x25FH	fuel rail to block
26 washer, flat 5mm stainless 2 MK93475A240 iock 5mm stainess 2 MK93475A240 28 ACT sensor 1 MCDV-754 29 ACT namess 1 XS5556-41 29 ACT namess 1 XS5556-41 31 female 2 DC75030 31 female 1 DC75016 33 seal, electrical connector, male 1 DC75014 34 female 1 DC75014 35 gelectrical tape 1 XS5556-31 36 supercharger field 1 XS5556-32 37 discharge manifold lid 1 XS5556-32 38 IAC 1 GFE72-9670-A 40 EGR 1 FEGR-209476-B 41 mass air meter 1 XS5556-32 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose <		25	5mm x 35 socket button head	2	MK92095A218	
Let lock 5mm stainess 2 MK92153A422 subkit ACT sensor 1 MCDY-754 30 Connector terminal, weatherpack male 2 DC75030 31 housing, electrical connector, male 1 DC75016 32 housing, electrical connector 4 DC75014 34 seal, electrical connector 4 DC75014 35 electrical tape 1 X55556-30 36 electrical rape 1 X55556-30 37 electrical rape 1 X55556-30 38 supercharger discharge 1 X55556-30 39 IAC 1 GFF872.9F670-A 41 mass air meter 1 X55556-30 42 locktite 1 PPC470-8 43 tiewrap 7 DC96277 44 locktite 1 PA80069 45 x 17 1 DA80069 PCV brose 46 36 fuel x 18 1 GY65128*18		26	washer, flat 5mm stainless	2	MK93475A240	
Subkit ACT sensor 1 MCDY-754 30 ACT hamess 1 XSS556-41 31 ACT maness 2 DC75030 31 female 2 DC75032 32 housing, electrical connector, male 1 DC75016 33 seal, electrical connector 4 DC75002 34 gasket, supercharger discharge 1 SC054007-06130 35 gasket, supercharger inlet 1 XS5556-31 36 supercharger inlet 1 XS5556-32 37 discharge manifold lid 1 XS5556-32 38 supercharger inlet 1 XS5556-32 40 ECR 1 GFR23-92670-A 41 mass air meter 1 XS5556-32 42 lockitie 1 PM27100 43 iewrap 7 DC6627'7 44 hose, 5/8 PCV hose x 12 1 DA60069 PCV hose 45 3/8 tuel x 18 1 GY65128'18		27	lock 5mm stainess	2	MK92153A422	
Subkit 29 connector terminal, weatherpack male 1 XS556-41 z 20 31 32 33 34 34 35 34 35 34 35 35 34 36 35 36 36 36 36 36 36 37 36 37 36 37 37 37 37 37 37 37 37 37 37 37 37 37		28	ACT sensor	1	MCDY-754	
Subkit 30 connector terminal, weatherpack male 2 DC75030 ACT 33 female 1 DC75014 33 seal, electrical connector 4 DC75014 34 seal, electrical connector 4 DC75014 35 gasket, supercharger discharge 1 SC054007-06130 36 gasket, supercharger discharge 1 SC0556-31 37 discharge manifold lid 1 XS5556-30 38 supercharger inlet 1 XS5556-32 39 IAC 1 GFF32-9F670-A 40 EGR 1 GFF32-9F670-A 41 Imass air meter 1 XS556-X2 42 locktite 1 PM27100 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 47 x.4.5 1 GY65128'18 vapor 48 7/32 vac x 10 1 GY65128'18 vapor <tr< td=""><td></td><td>29</td><td>ACT harness</td><td>1</td><td>XS5556-41</td><td></td></tr<>		29	ACT harness	1	XS5556-41	
AC1 31 housing, electrical connector, male 1 DC75016 33 bousing, electrical connector, male 1 DC75014 34 seal, electrical connector 4 DC75002 35 electrical tape 1 SC054007-06130 36 gasket, supercharger discharge 1 XS5556-31 36 supercharger inlet 1 XS5556-32 37 IAC 1 GFE752-9F07-A 40 EGR 1 GFE6A2-9D476-B 41 mass air meter 1 XS5556-32 40 EGR 1 GFE6A2-9D476-B 41 mass air meter 1 XS556-32 42 tockite 1 DA80069 PCV hose 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 1.7 1 DA80069 PCV hose 46 3/8 fuel x 18 1 GY65122'18 source 47 x 4.5 1 GY65122'18 source 5/	subkit	30	connector terminal, weatherpack male	2	DC75030	
32 housing, electrical connector, male 1 DC75016 33 seal, electrical connector 4 DC75014 34 seal, electrical connector 4 DC75014 35 electrical tape 1 SC054007-06130 36 gasket, supercharger discharge 1 XS5556-31 37 discharge manifold lid 1 XS5556-32 38 supercharger inlet 1 SS556-32 39 I/AC 1 GFE752-9F670-A 40 EGR 1 FFEA2-9D476-B 41 mass air meter 1 XS5556-32 42 lockitle 1 PM27100 43 tiewrap 7 DO9627'7 44 hose, 5/8 PCV hose x 12 1 DA80089 PCV breather hose 45 x 17 1 DA80089 PCV breather hose 46 3/8 fuel x 18 1 GY65128'-15 source 47 x 4.5 1 GY65128'-15 source	ACT	31	female	2	DC75032	
Image 1 DC/5014 seal, electrical connector 4 DC/5002 stability gasket, supercharger discharge 1 SC054007-06130 gasket, supercharger discharge 1 XS5556-30		32	housing, electrical connector, male	1	DC75016	
-34 seal, electrical connector 4 DC/5002 seal, electrical tape 1 SC054007-06130 gasket, supercharger discharge 1 X55556-31 37 discharge manifold lid 1 X55556-31 38 supercharger inlet 1 X5556-32 39 IAC 1 GFE6A2-90476-B 40 EGR 1 CFE6A2-90476-B 41 mass air meter 1 X5556-XX 42 locktite 1 DA80069 PCV hose 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 x 17 1 DA80069 PCV hose 44 X12 vac x 18 1 GY65128'18 vapor 47 x 4.5 1 GY65128'18 vapor 5/32 vac x 10 1 GY65128'13 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 53 seal, airbox 1 MS5556-44 <td< td=""><td></td><td>33</td><td>female</td><td>11</td><td>DC75014</td><td></td></td<>		33	female	11	DC75014	
3b Effective and table 1 SU34007-V6130 gasket, supercharger discharge 1 X55556-31 gasket, supercharger manifold lid 1 X55556-32 37 supercharger inlet 1 X55556-32 38 supercharger inlet 1 K55556-32 39 IAC 1 GFE752-9F670-A 40 EGR 1 GFE752-9F670-A 41 mass air meter 1 X55556-32 40 EGR 1 GFE6A2-90476-B 41 mass air meter 1 X55556-XX 42 lockitle 1 PM27100 43 tiewrap 7 DC9827'7 44 hose, 5/8 PCV hose x 12 1 DA80069 45 x 17 1 DA80069 PCV hose 45 x 17 1 DA80019 PCV hose 46 3/8 fuel x 18 1 GY65112*4.5 source 50 coupler, hose 5/8 straight 3 MK5463X215 (2		■ 34	seal, electrical connector	4	DC75002	
36 gasket, supercharger mailfold lid 1 X35356-30 subkit 38 supercharger inlet 1 X55556-30 39 IAC 1 GFE752.9F670-A 40 EGR 1 GFE752.9F670-A 41 mass air meter 1 X55556-XX 42 locktite 1 PM27100 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV hose 46 3/8 fuel x 18 1 GY65128'18 vapor 47 x 4.5 1 GY65128'18 by-pass valve 50 coupler, hose 5/8 straight 3/8 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/8 straight 1 DC784'32 iarbox iarbox		35	electrical tape		SC054007-06130	
Subkit 37 Discharger inlet 1 XS3556-32 GRR 39 IAC 1 GFE752-9F670-A 39 IAC 1 GFE752-9F670-A 40 EGR 1 GFE6AZ-9D476-B 41 mass air meter 1 XS5556-XX 42 locktite 1 DA80069 PCV hose 43 tiewrap 7 DO96277 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV hose 46 3/8 fuel x 18 1 GY65128*16 yapor 47 x 4.5 1 GY65128*16 yapor 48 7/32 vac x 10 1 GY65128*16 yapor 50 coupler, hose 5/8 straight 3 MK5463K215 yapor hose / source hose 51 3/8 straight 1 MK5463K235 EGR signal extension 53		-36	gasket, supercharger discharge		X00000-01	
SUDKIt 30 Supercharger meter 1 ASUBJUCT GRR 40 EGR 1 GFE532-9F670-A 40 EGR 1 GFE532-9F670-A 41 mass air meter 1 X55556-XX 42 locktite 1 PM27100 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x17 1 DA80069 PCV breather hose 46 3/8 fuel x 18 1 GY65128*1.5 source 47 x 4.5 1 GY65128*1.5 source 48 7/32 vac x 10 1 GY65112*1.6 by-pass valve 50 coupler, hos 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 1 MK5463K215 vapor hose / source hose 52 3/16 straight 1 MK5463K215 vapor hose / source hose 52 3/14 x 32 1 DC783*27 <td< td=""><td>aublit</td><td>37</td><td></td><td></td><td>XS5556-32</td><td></td></td<>	aublit	37			XS5556-32	
30 HO 1 01110120230476-B 41 mass air meter 1 X55556-XX 42 locktite 1 PM27100 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV breather hose 46 3/8 fuel x 18 1 GY65128*18 vapor 47 x 4.5 1 GY65128*18 source 48 7/32 vaox 18 1 GY65128*13 source 49 5/32 vaox 10 1 GY65112*18 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K213 vapor hose / source hose 51 3/8 straight 1 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 MS5556-46 1 54 wire armour 3/8 x 27 1 DC784*32 1 55 1/4 x 32 1 DC784*32 1		38			GEE787-9E670-A	
41 1 XS5556-XX 42 locktite 1 PM27100 43 tiewrap 7 DC9627'7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV breather hose 45 x 17 1 DA80069 PCV breather hose 47 x 4.5 1 GY65128'4.5 source 48 7/32 vac x 18 1 GY65128'4.5 source 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K215 (2) breather hose / (1) PCV hose 52 3/16 straight 1 MK5463K213 vapor hose / source hose 53 seal, airbox 1 XS5556-46 (2) breather hose / source hose 54 wire armour 3/8 x 27 1 DC784'32 (2) breather hose / source hose 57 1/4 x 32 1 DC784'32 (2) breather hose / source hose 57	unn	40	FGB		GFE6AZ-9D476-B	
subkit Fer 1 PM27100 43 tiewrap 7 DC96277 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV breather hose 46 3/8 fuel x 18 1 GY65128*18 vapor 47 x 4.5 1 GY65128*1.5 source 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65111*18 by-pass valve 50 coupler, hose 5/8 straight 2 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 1 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K213 vapor hose / source hose 53 seal, airbox 1 XS556-46 source hose 54 wire armour 3/8 x 27 1 DC784*32 1 <		40	mass air meter	1	XS5556-XX	
Lag tiewrap 7 DC9627*7 44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 45 x 17 1 DA80069 PCV breather hose 45 x 17 1 DA80069 PCV breather hose 46 3/8 fuel x 18 1 GY65128*18 vapor 47 x 4.5 1 GY65111*18 by-pass valve 48 7/32 vac x 18 1 GY65111*18 by-pass valve 49 5/32 vac x 10 1 GY65111*18 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K213 vapor hose / source hose 51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K213 vapor hose / source hose 53 seal, airbox 1 XS5556-46 issaal, airbox 1 54 wire armour 3/8 x 27 1 DC784*32 issaal issaal 55 fuel pump 1 GF35429H307AA <td></td> <td>42</td> <td>locktite</td> <td>1</td> <td>PM27100</td> <td></td>		42	locktite	1	PM27100	
44 hose, 5/8 PCV hose x 12 1 DA80069 PCV hose 44 x 17 1 DA80069 PCV breather hose 44 3/8 fuel x 18 1 GY65128*18 vapor 47 x 4.5 1 GY65128*18 boy-pass valve 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65112*18 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 1 MK5463K325 EGR signal extension 52 3/16 straight 1 MK5463K325 EGR signal extension 53 seal, airbox 1 XS5556-46	1.1	43	tiewrap	7	DC9627*7	
46 x 17 1 DA80069 PCV breather hose 46 3/8 fuel x 18 1 GY65128*18 vapor 47 x 4.5 1 GY65128*18 vapor 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65112*18 by-pass valve 50 coupler, hose 5/8 straight 2 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K335 EGR signal extension 52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 XS556-46 vapor hose / source hose 54 wire armour 3/8 x 27 1 DC784*32 1 56 1/4 x 32 1 DC784*32 1 57 hose clamp, smooth band stainless steel 1 MK5356-09ST 50 coil 1 XS5556-12 50 coil 1 XS5556-10R 60 coil <td< td=""><td></td><td>-44</td><td>hose, 5/8 PCV hose x 12</td><td>1</td><td>DA80069</td><td>PCV hose</td></td<>		-44	hose, 5/8 PCV hose x 12	1	DA80069	PCV hose
46 3/8 fuel x 18 1 GY65128*18 vapor Subkit 47 x 4.5 1 GY65128*4.5 source 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65112*18 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K325 EGR signal extension 53 seal, airbox 1 XS5556-46 intermour 3/8 x 27 1 54 wire armour 3/8 x 27 1 DC783*27 intermour 3/8 x 27 intermour 3/8 x 27 intermour 3/8 x 27 55 1/4 x 32 1 DC783*27 intermour 3/8 x 27 intermour 3/8 x 27 intermour 3/8 x 27 56 fuel pump 1 GY5556-46 intermour 3/8 x 27 intermour 3/8 x 27 58 fuel pump harness 1 XS5556-098T intermour 3/8 x 27	120423	45	x 17	1	DA80069	PCV breather hose
subkit 47 x 4.5 1 GY65128*4.5 source 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65111*8 by-pass valve 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K325 EGR signal extension 52 3/16 straight 1 MK5463K325 EGR signal extension 53 seal, airbox 1 XS5556-46 intermour 3/8 x 27 intermour 3/8 x 27 54 wire armour 3/8 x 27 1 DC784*32 intermour 3/8 x 27 intermour 3/8 x 27 55 1/4 x 32 1 DC784*32 intermour 3/8 x 27 intermour 3/8 x 27 56 fuel pump 1 XS5556-40 intermour 3/8 x 27 intermour 3/8 x 27 58 fuel pump harness 1 XS5556-10R intermour 3/8 x 27 intermour 3/8 x 27 59 bracket, tottle cable 1 XS5556-10R intetose intos x 1		46	3/8 fuel x 18	1	GY65128*18	vapor
Subkit HSR 48 7/32 vac x 18 1 GY65112*18 by-pass valve 49 5/32 vac x 10 1 GY65111*8		47	x 4.5	1	GY65128*4.5	source
HSR 49 5/32 vac x 10 1 GY65111*8 50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K335 EGR signal extension 52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 XS5556-46	subkit HSR	48	7/32 vac x 18	1	GY65112*18	by-pass valve
50 coupler, hose 5/8 straight 3 MK5463K215 (2) breather hose / (1) PCV hose 51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 XS5556-46		49	5/32 vac x 10	1	GY65111*8	
51 3/8 straight 2 MK5463K213 vapor hose / source hose 52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 XS5556-46		50	coupler, hose 5/8 straight	3	MK5463K215	(2) breather hose / (1) PCV hose
52 3/16 straight 1 MK5463K335 EGR signal extension 53 seal, airbox 1 XS5556-46		51	3/8 straight	2	MK5463K213	vapor hose / source hose
53 seal, airbox 1 XS5556-46 54 wire armour 3/8 x 27 1 DC783*27 55 1/4 x 32 1 DC784*32 subkit 56 fuel pump 1 GF3S4Z9H307AA 57 hose clamp, smooth band stainless steel 1 MK53175K69 58 fuel pump harness 1 XS5556-40 59 bracket, thottle cable 1 XS5556-40 60 coil 1 XS5556-12 61 bracket, EGR vacuum regulator 1 XS5556-12 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (AC 64 coupler, 3 1/2 dia x 1.25 1 XS5556-47 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH mass air 68 hotse clamp #56 lined 2 MSC49709397 <td>52</td> <td>3/16 straight</td> <td>1</td> <td>MK5463K335</td> <td>EGR signal extension</td>		52	3/16 straight	1	MK5463K335	EGR signal extension
54 wire armour 3/8 x 27 1 DC783*27 55 1/4 x 32 1 DC784*32 subkit 56 fuel pump 1 GF3S4Z9H307AA FP 57 hose clamp, smooth band stainless steel 1 MK53175K69 fuel pump harness 1 XS5556-40 1 subkit 59 bracket, thottle cable 1 XS5556-12 60 coil 1 XS5556-12 1 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 1 subkit 65 airbox pins 3 XS5556-45 1 65 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 66 fairbox pins 3 XS5556-47 1 67 x 10 flange head 3 <td></td> <td>53</td> <td>seal, airbox</td> <td>1</td> <td>XS5556-46</td> <td></td>		53	seal, airbox	1	XS5556-46	
55 1/4 x 32 1 DC784*32 subkit 56 fuel pump 1 GF3S4Z9H307AA FP 58 fuel pump harness 1 MK53175K69 subkit 59 bracket, thottle cable 1 XS5556-40 subkit 59 bracket, thottle cable 1 XS5556-12 60 coil 1 XS5556-10R 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 64 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 hose clamp #56 lined		54	wire armour 3/8 x 27	1	DC783*27	
subkit 56 fuel pump 1 GF3S429H307AA FP 57 hose clamp, smooth band stainless steel 1 MK53175K69 subkit 59 bracket, thottle cable 1 XS5556-09ST subkit 59 bracket, thottle cable 1 XS5556-12 60 coil 1 XS5556-12 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 intbox pins 64 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 65 airbox pins 3 XS5556-47 intbox pins 64 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397		55	1/4 x 32	1	DC784*32	
FP 57 hose clamp, smooth band stainless steel 1 MK53175K69 subkit fuel pump harness 1 XS5556-40 Subkit 59 bracket, thottle cable 1 XS5556-09ST 60 coil 1 XS5556-12 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 airbox pins 64 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 65 airbox pins 3 XS5556-47 intox pins 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	subkit	56	fuel pump		GF3S4Z9H307AA	
58 rulei pump namess 1 XS5556-40 subkit 59 bracket, thottle cable 1 XS5556-09ST 60 coil 1 XS5556-12 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 airbox pins 3 XS5556-47 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	FP	57	hose clamp, smooth band stainless steel		MK531/5K69	
subkit 59 blacket, thottle cable 1 XS5356-0351 for coil 1 XS5556-12 for bracket, EGR vacuum regulator 1 XS5556-10R for bolt, 6mm x 16 flange head 2 BB6X10FH IAC for x10 5 BB6X10FH (3) throttle cable / (2) coil bracket for coupler, 3 1/2 dia x 1.25 1 XS5556-45 airbox pins 3 XS5556-47 bolt, 6mm x 16 flange head 4 BB6X10FH mass air for x 10 flange head 3 BB6X10FH mass air for x 10 flange head 4 BB6NFH mass air for nut, 6mm 1.0 flange head 4 BB6NFH mass air for hose clamp #56 lined 2 MSC49709397 inlet hose		5 8	fuel pump namess		X55556 000T	
Subkit 60 Coli 1 XS3536-12 TBR 61 bracket, EGR vacuum regulator 1 XS5556-10R 62 bolt, 6mm x 16 flange head 2 BB6X10FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	oublet	- 59			XS5556 12	· · · · · · · · · · · · · · · · · · ·
61 blacket, EGH vacuum regulator 1 ASSOUTION 62 bolt, 6mm x 16 flange head 2 BB6X16FH IAC 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X16FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose		60	bracket EGB vacuum regulator	$\frac{1}{1}$	XS5556-10P	
Subkit 63 x 10 5 BB6X10FH (3) throttle cable / (2) coil bracket 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X10FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NTH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	IDN	60	bolt 6mm v 16 flange bead	2	BB6X16FH	
Subkit 64 coupler, 3 1/2 dia x 1.25 1 XS5556-45 65 airbox pins 3 XS5556-47 66 bolt, 6mm x 16 flange head 4 BB6X16FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	subkit	62	v 10	5	BB6X10FH	(3) throttle cable / (2) coil bracket
Subkit 65 airbox pins 3 XS5556-47 ABR 65 bolt, 6mm x 16 flange head 4 BB6X16FH mass air 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose		64	coupler 3 1/2 dia x 1 25	1	XS5556-45	
Subkit ABR 66 bolt, 6mm x 16 flange head 4 BB6X16FH mass air 67 7 88 100 flange head 3 BB6X10FH airbox pins 68 69 100 flange head 4 BB6NFH mass air 69 100 flange head 4 BB6NFH mass air 69 100 flange head 4 BB6NFH mass air		65	airbox pins	3	XS5556-47	
ABH 67 x 10 flange head 3 BB6X10FH airbox pins 68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose		66	bolt, 6mm x 16 flange head	4	BB6X16FH	mass air
68 nut, 6mm 1.0 flange head 4 BB6NFH mass air 69 hose clamp #56 lined 2 MSC49709397 inlet hose	ABR	67	x 10 flange head	3	BB6X10FH	airbox pins
69 hose clamp #56 lined 2 MSC49709397 inlet hose		68	nut, 6mm 1.0 flange head	4	BB6NFH	mass air
		69	hose clamp #56 lined	2	MSC49709397	inlet hose

	70	fitting, special EGR	1	GFF57Z-9F485-A	
	71	5/8 tube x 3/8 NPT 90 deg	1	PC4501-10-06	
	72	3/8 tube x 1/4 NPT 90 deg long	2	PC4501-06-04	
	73	3/8 tube x 1/4 NPT 90 deg short	1	PC4501-06-04S	
	74	hose clamp, #06 mini	2	DC2364*1	brake booster / vapor hoses
subkit	75	bolt, 8mm x 25 socket head	10	MSC67221242	(6)s/c to discharge lid/(4) inlet adpter to s/c
BNR	76	6mm x 16 flange head	6	BB6X16FH	(2) IAC / (4) throttle body
	77	nut, 8mm 1.25 flange head	2	BB8NFH	EGR
	78	washer, 8mm hign collar	4	MK98437A030	inlet adapter
	79	washer, 5/16 AN	4	MK98017A689	inlet adapter
	-80	pipe plug, 1/4 NPT socket head	1	DOR090-026	
	81	o-ring, discharge manifold	6	GFYL2Z-9461-AA	
	82	plug, pipe 1/2 NPT with special coating	8	SWE46418	
1.1.1	83	bolt, 6mm x 25 flange head 10.9	12	BB6X25FH	discharge manifold to head
subkit	84	x 16 flange head	10	BB6X16FH	
DMH	85	x 12 flange head	1	BB6X12FH	
	86	stud, 6mm	1	GN08226-61610	lid to discharge manifold
	87	nut, 6mm low crown locking	2	BB6LN	· · · · · · · · · · · · · · · · · · ·
	88	fitting, 1/4 barb x 1/4 NPT 90 deg	1	MK44555K154	
	-89	bushing 3/8NPT X 1/4NPT	1	BW3220X6X4	·
	90	air filter	1	KNRC-5040	
	91	hose, inlet 3 1/2 id 90 deg elbow	1	XS5556-18	
	92	tube, EGR	1	XS5556-99R	
	93	idler pulleys	2	FS7145972	
	94	mass air meter	1	PMEE1	
	95	drivebelt, 6 rib / 103.7 length	1	GY4061037	
	96	airbox	1	XS5556-55R	
oubkit	-97	computer reprogrammer	1	SCT9100	
subkit ISD	98	reprogrammer cable	1	"	
	-99	reprogrammer instructions	1	"	
	100	sticker, X-CHARGER diecut	2	ZD5556-25	
	101	drivebelt routing	1	ZD5556-22	
	102	octane warning	1	ZD5556-24	
	103	CARB exemption	1	ZD5556-23	
	104	instructions	1	ZD5556-D	

1





Fig PB discharge manifold - key no 02

4



Figure PC inlet adapter - key no 04



Fig PD idler plate - key no 05 / shown with pulleys



Fig PE idler plate spacers



Fig PF alternator spacer / idler plate bracket key nos 07 / 13



Fig PG throttle cable bracket - key no 59



Fig PH EGR valve bracket - key no 08



Fig PI EGR vacuum regulator bracket - key 61



Fig PJ Idler pulleys, spacers & bolts

.



Fig PP gaskets





91 64

Fig PL nose support key no 06

Fig PM fitting / couplers





Fig PO airbox key no 96



Fig PP airbox pins key no 65 Fig PQ EGR tube key no 92





Fig PR injectors and kit



Fig PS ACT sensor / harness









Fig PV fuel pump



Fig PW EGR fitting



Fig PX mass air meter

DISASSEMBLY



Fig B Remove neg batt terminal



2. Drain radiator. Drain plug is on the engine side of the right radiator tank, on some models behind a plastic flap as shown. Use 19mm wrench.

If coolant is in good condition use a clean pan and reuse coolant.

Fig C Drain Radiator



Fig D remove inlet hose and engine cover

3. Remove plastic engine cover.

If compressed air is available, blow air around the manifold and top of engine to remove dirt.

Remove plastic valve cover breather hose. Leave rubber elbow on valve cover.

Remove MAF sensor harness clip from the inlet hose by prying with straight slot screw-driver. Remove inlet hose.

Cut the tape that hols the wire retainer to the harness and remove the retainer.

1. Disconnect battery negative terminal.

page 8



5. Release throttle and cruise control cables from their bracket by squeezing the retaining clip tabs with channel locks, then pulling cable from firewall side.

Disconnect the cruise control cable from the throttle body by pushing the cable end forward, off the throttle lever stud. Open the throttle and disengage the throttle cable pin from the throttle lever.

Place the cables aside, out of the way.

Fig E Release throttle cables



Fig F Remove IAC and Throttle Body

6. Remove the electrical connectors at the Idle Air Control (IAC) and the Throttle Position Switch (TPS). Squeeze the tabs on the connectors to release.

Remove the IAC and throttle body. Inspect throttle body o-ring. Do not remove from throttle body - the o-ring it will be reused. Replace if damaged.

The electrical harnesses to the throttle body will be modified later.



7. Loosen the large tube nut (21 mm wrench) and remove the EGR valve to manifold adapter bolts (10mm heads). Save the bolts, they will be reinstalled. Do not remove EGR valve.

Unbolt the EGR vacuum regulator from the manifold and pull back out of the way. Do not disconnect electrical. The bolts will not be reused.

Fig G Disconnect EGR valve



Fig I Release knock sensor harness clip



Fig J Disconnect right side plug wires

9. Remove the knock sensor connector from the intake manifold by prying out the connector clip. Do not disconnect.

10. Pry the spark plug insulator to remove it with the right side plug wires from the intake manifold.

Disconnect the right side plug wires from the coil and place out of the way. Leave spark plug ends connected.

Don't be rough with the plug wires, they are fragile and can be damaged by excessive bending or pulling. Note position on coil. The coil wires are numbered and the coil is marked with the plug numbers for your convenience.



Fig K Remove coil bracket

11. Pry the wiring harness retainer from coil bracket.

Disconnect coil primary harness. This connector is the exception to the squeeze rule. The connector tab must be bent slightly up to release. Don't get rough, the tab will snap off.

Remove the coil bracket bolts. One 15mm head and one 10mm head on the cylinder head. Two 8mm head bolts on the intake manifold. Do not remove the coil from the bracket. Place coil/bracket assembly to the side. These bolts will be reused.



Fig L Disconnect vacuum hoses



Fig M Modify heater hoses

12. Disconnect the brake booster hose, the vapor hose and the vacuum source connector.

13. Disconnect or remove heater hose and PCV heater hoses as indicated in figure M.

Cut 1 1/4 inch off the end the 5/8 (larger) hose. Reinstall the heater hose with stock hose clamp.

Reinstall the long PCV heater hose to the engine heater tube (where the short tube was originally connected). Do not reinstall hose clamp at this time. The short PCV heater hose is not reused. Upper radiator hose removed for photo only.

14. Figure N shows the heater hoses after modification.

Tighten radiator drain plug. Reinstall coolant.

Pull the PCV heater hose from tube to bleed air from the cooling system. When coolant flows out the hose or fitting, the cooling system is purged. Reinstall the hose and clamp.

We recommecnd pressure testing the cooling system whenever the system is opened.



Fig N Modified heater hoses



Fig O Reuse 90 degree rubber fitting



16. Disconnect harness from the Control Unit. The 10mm head bolt is captured in the connector and doesn't come out. When the bolt is completely loose, pull on the large connector to disconnect.

15. Disconnect PCV hose from the valve at the back of the left valve cover. Separate and save the 90 degree rubber connector on the PCV valve end, it will be reused.

Free the PCV tube from the clips that hold

it to the PCV cooling hose.

Remove the wiring harness retainer nut, then the stud to free ground wire.

Place harness out of the way on the firewall left side.

Fig P Control unit harness



Fig Q Low budget special tool

17. Inspect area around manifold flanges and tops of heads. Remove any dirt or junk to prevent debris from falling into the engine. Blow off with compressed air, if available.

Remove 12 intake manifold bolts. Use a #30 torx socket. You will need a torx socket et with a very long bit, a socket with the outside diameter of a standard 3/8 socket ground down to fit into the manifold access holes, or a 5/16 hex x #30 torx bit to use with a 1/4 drive 5/16 socket. Note the low budget special tool in figure Q. Tape the parts together so that they don't fall into the engine valley.

Remove intake manifold. Clean the head surfaces and cover ports with tape.



Fig R Pull wires out from harness

18. Locate the end of the engine harness that was disconnected from the IAC and TPS. Very carefully cut away the tape from the wire armour at the branches, plus any tape that goes around the wire armour back to the rear of the injector rail. Do not remove tape from branch to #6 (rear) injector.

Pull the IAC (2 wire connector) wires from the harness all the way to where the red wire splices at the rear. There should be about 20 inches exposed.

Pull out the TPS (3 wire connector) wires out of the harness till you reach the grey w/ red wire splice at the valve cover branch. Turn the TPS wires so that they face the rear and install supplied tiewrap (key no 64) to control location of wires at the harness. See figure S. There should be about 20 inches of wire exposed.



Fig S TPS wiring detail

19. Install **1/4 X 32 Wire Armour** (key no 53) over IAC wires.

Install **3/8 X 27 Wire Armour** (key no 52) over the TPS wires.

Tape the ends and a few places in the center so the wires can't escape.



Fig T Tiewrap harness to wiring retainer

20. Retape wiring intersections with **Electrical Tape** (key no 35). This is a lot easier if you wrap a few feet of tape off the roll onto a 5/8 socket. then wrap the tape around the harness off the socket. Do a careful job of taping for a clean professional appearance.

Install two **Tiewraps** (key no 54) around the wiring retainer to the valve cover and harness where the retainer was formerly taped on. Lay the wires along the left valvecover. They will be routed under the supercharger inlet to reach the new IAC / TPS location later.

INSTALL IDLER ASSEMBLY



Fig 11 Remove fan bolts

1. Loosen the four fan to fan clutch bolts, remove one bolt and then rethread it into the fan clutch so that 2 or 3 threads are engaged.

Remove the other three fan bolts and let the fan hang by the one bolt. Leaving one bolt engaged will make reinstalling the fan much easier.

Remove drivebelt. It will not be reused. Use 3/8 long handle rachet or breaker bar in square hole on idler arm.

Remove the stock idler pulley. It will not be reinstalled.

2. Remove alternator retaining bolts. Do not remove the alternator.

Install Alternator Spacer (key no 13) and Idler Plate Bracket (key no 07) between alternator and bracket with bolts finger

tight. Note position of bracket.

Fig 12 Install alternator spacer and idler plate bracket



Fig 13 Remove alternator and power steering bracket bolts

3. Remove upper alternator bracket bolt. Remove power steering bracket bolts as indicated in Figure I3.



page 14



Fig 14 Idler plate with spacers - back side shown



Fig 15 Idler plate installed

4. Locate **Idler Plate** (key no 05), one **Short Spacer** (key no 09), one **Medium Spacer** (key no 10) and one **Long Spacer** (key no 11).

Locate two longer **10mm X 130 Hex Head Bolts** (key no 15) and one shorter **10 mm X 120 Hex Head Bolt** (key no 16), **10mm Washers** (key no 18) and Lock Washers (key no 19).

The short bolt and spacer are for the alternator side. The medium spacer is for the upper power steering bracket hole.

5. Place the short bolt with lock and flat washer into the alternator side hole.

Repeat this on the lower power steering bolt. position the idler plate with bolts and spacer, then hand tighten the bolts.

Hold the medium spacer in position between the idler plate and the power steering bracket, insert the remaining long bolt thru the idler plate into the spacer. Using the bolt to hold the spacer, insert the **EGR Bracket** (key no 08) between the p/s bracket and the spacer. Finger tighten bolt.



Fig 16 Idler plate and EGR bracket installed

6. Install two 8mm x 20 Flange Head Bolts (key no 17) thru the idler bracket into the alternator stay bracket and tighten. Tighten the three 10mm bolt in stages until they are very tight.

Connect **5/32 EGR Extension Hose** (key no 49) between EGR valve and stock hose with **3/16 Connector** (key no 52).

7. Install the **Idler Pulleys** (key no 93) with **Special Shoulder Bolts** (key no 14) and **Pulley Spacers** (key no 12) between the back of the pulleys and the idler plate. Tighten bolts.

SUBASSEMBLY

CAUTION

All parts that contact intake air, the inlet and discharge manifolds, the discharge manifold lid and the EGR adapter should throughly cleaned in soapy water, rinsed and dryed before installation. IT IS THE INSTALLER'S RESPONSIBILITY TO BE SURE THERE ARE NO FOREIGN MATERIALS IN THE INTAKE OR DISCHARGE TRACT. DAMAGE FROM FOREIGN OBJECTS IS NOT COVERED BY THE LIMITED WARRANTY.



Fig SA Prepped discharge manifold lid



Fig SB prepare inlet adapter top side

1. Prep Discharge manifold Lid.

Install **3/8 X 1/4 Pipe Bushing** (key no 89) into **Discharge Manifold Lid** (key no 03).

Install **1/4NPT x 1/4 Barb Fitting** (key no 88). Note correct position of barb when tight.

Install **7/32 Vacuum Hose x 18** (key no 48) onto barb fitting.

Install **ACT Sensor** (key no 28) into bung on Discharge Lid. No seater is required.

Turn the lid over and install **6mm Stud** (key no 86) into tapped hole on lid.

2. Locate Inlet Adapter (key no 04).

Install **90 Deg Long Barb Fitting** (key no 72) as shown (note angle - parallel to outlet flange. Use teflon tape or paste on threads.

Install **Throttle Cable Bracket** (key no 59) with three **6mm x 10 Flange Head Bolts** (key no 63).

Install EGR Adapter Fitting (key no 70).

Install **1/4 NPT Pipe Plug** (key no 80) in Inlet adapter as shown.



Fig SC Install inlet adapter top side



Fig SD Supercharger prepped top view



Fig SE Supercharger prepped bottom view

3. Turn inlet adapter over.

Install **90 Deg Long Barb Fitting** (key no 72). Note position parallel to flange.

Install **90 Deg Short Barb Fitting** (key no 73). Position is at right angle to flange.

Install **5/8 90 Deg Fitting** (key no 71). Note angle of installation.

Install **Coil Bracket** (key no 60) with two **6mm Flange Head Bolts x 10** (key no 63).

4. Install Inlet Adapter (key no 04) onto supercharger inlet using Inlet Adapter Gasket (key no 38), four 8mm Socket Head Bolts (key no 75), four 5/16 AN Washers (key no 79) and four 8mm High Collar Washers (key no 78).

Install **3/8 Vapor Hose x 18** (key no 46) on to short fitting as shown with **3/8 Coupler** (key no 51) installed in loose end of hose.

Install **5/8 PCV Hose x 12** (key no 44) onto 5/8 fitting with **5/8 Coupler** (key no 50) on other end of hose.

Install **3/8 x 4.5 Vacuum Source Hose** (key no 47) with **3/8 Coupler** (key no 51) inserted into the loose end.

NOTE: DO NOT PICK UP SUPER-CHARGER ASSY USING THE BY-PASS VACUUM MOTOR. The motor is factory adjusted and adjustment could be disturbed.

FUEL PUMP INSTALLATION



Fig FA rear vapor connector



Fig FB sender / pump assembly connections



1. To ease installation, fuel level should be less than 1/4 full. Note fuel level on gauge.

Raise truck with available equipment to access fuel tank.

Support fuel tank with jack. Remove two fuel tank brackets. You may need to pry on them to clear driveshaft.

Lower the rear of the tank slightly to gain access to the top of the tank.

Working from above, release the vapor connect at rear of tank. The fuel system connectors are released by pressing on the plastic ring. See Figure C.

2. Disconnect four hoses at the fuel level sender / fuel pump assembly. The fuel connectors are released by pressing on the plastic ring.

Disconnect the fuel filler hose.

Disconnect the electrical terminal.

3. Slide the tank to rear to clear crossmember at front. Remove tank.

Fig FC release tab



4. The large plastic nut must be removed to remove sender / pump assembly. Make a witness mark on the nut and tank, to reference tightened position of the nut.

If special tool is not available, the nut can be removed by driving against castin ridges with a punch and hammer. Drive on alternate sides until hand tight. Nut turns in counterclockwise direction to loosen. Remove nut.

Fig FD remove nut



5. Remove sender/pump assembly by pulling up at a slight angle. The clearance is tight between the assembly and the fuel tank hole. When assembly is pulled out enough to access the fuel hose at the top of the assembly, push hose inward for more clearance.

The fuel level sender is at an angle to the assembly. Tilt assembly so sender arm will clear tank opening. Don't bend the arm - the fuel gauge reading will be affected if the arm gets tweeked.

Fig FE remove assembly



Fig FF cut fuel pump hose and wires

6. Use a razor blade or utility knife to slit the stock plastic fuel hose at the outlet fitting. Disconnect hose.

Cut the wires to the fuel pump 2.5 inches from the terminal.



Fig FG remove fuel pump retainer



8. Remove rubber insulator from fuel pump.

Remove the stainer retaining clip by carefully prying from the stud on the bottom of the fuel pump.

7. Remove the fuel pump strainer by gently prying on between the strainer connector and the plastic fuel pump

CAUTION: DO NOT DAMAGE THE STRAINER - IT WILL BE REUSED.

Remove two 5mm head screw from stock fuel pump retainer. Remove

Slide stock fuel pump down, out of the bracket, with the fuel hose and wire stub

housing.

retainer.

still attached ..

CAUTION: DO NOT DEFORM THE CLIP - IT WILL BE REUSED.

Fig FH remove strainer retaining clip



9. Locate the new **Fuel Pump** (key no 56) and **Fuel Pump Harness** (key no 58).

Install the strainer clip on the new fuel pump. Note that ring is concentic with the fuel pump inlet.

Relocate rubber insulator from the stock pump to the new pump. Be sure it is indexed correctly on bottom (strainer) end.

Place **Fuel Hose Clamp** (key no 57) on hose.

Fig FJ fuel pump ready to install



Fig FK pressure hose routing



Fig FL fuel pump indexed correctly

10. Apply silicone lubricant to the fuel pump hose and fitting to ease installation.

Install new pump into bracket. Route hose inside of the plastic rib on the pump housing. Use plyers to push and twist the hose onto the fitting.

Do not tighten clamp.

Strip about 1/4 inch of insulation from the stock fuel pump wires and crimp butt connectors to the old wires.

NOTE: BLACK WIRE TO BLACK WIRE.

11. Check that pump and insulator are indexed correctly with the hole in the fuel pump retainer. Turn fuel pump to align if required.

Reinstall retainer with original screws.

Tighten hose clamp.

Reinstall fuel strainer. Be sure the mounting ring is fully engaged.



Fig FM install sender / pump assembly

12. Inspect the sender / pump assembly o-ring. If it is cut or deformed it must be replaced. The o-ring is not included with the kit. It is a genuine Ford part.

Note the locating tabs and slots that correctly index the assembly in the tank.

Install the modified assembly by angling into tank. The spring loaded pickup feature will hold the assembly out of the tank slightly. Press down on the assembly until it engages the indexing slots and the assembly flange is flush with the top of the tank.

Install the retaining ring. Tighten until your witness marks line up.

Reinstall tank.

INSTALLATION



Fig XA Fuel injector insulator

SPACER

Fig XB Fuel rail bracket spacers



Disconnect fuel crossover from left fuel rail. Remove both fuel rails.

Remove stock fuel injectors.

The injector insulators sometimes come out with the injectors. Reinstall insulators as required.

If the insulators are damaged or too harded to reuse, they must be replaced. They are available at your friendly Ford dealer.

2. Remove protective caps from both ends of new fuel injectors (key no 20).

Lube the o-rings on both end of the injectors.

Install injectors into heads with electric connectors facing outwards.

Reinstall fuel rails with four 8mm x 25 Flange Head Bolts (key no 24) and 3/4 OD x 1/2 Fuel Rail Spacers (key no 22) under brackets.



3. Install **O-ring** (key no 23) onto **Fuel Rail Adapter** (key no 21).

Install Fuel Rail Adapter between left fuel rail and crossover tube with 5mm x 35 Button head Bolts, Flat Washers and Lockwashers.

Reconnect injector electrical terminals.

Fig XC Fuel rail adapter



Fig XD Install discharge manifold o-rings



Fig XE Place discharge manifold on engine



Fig XF Manifold torque pattern

4. Position **Discharge Manifold O-rings** (key no 81) in grooves on bottom of **Discharge Manifold** (key no 02).

Locate **6mm x 25 Flange Head Bolts 10.9** (key no 83) and **Special Pipe Plugs** (key no 80).

5. Remove tape from heads.

Place Discharge Manifold on engine. Angle the manifold lower in the rear and the right side to clear fuel rails.

The center bolts are installed thru holes in the floor on the discharge manifold. Use a thin magnet to lower the bolts thru the manifold and into the holes in the flanges.

6. Loosely install indicated bolts first. These two holes are used to locate the manifold. Install the other 10 bolts. Tighten the bolts in steps starting in the center as shown in Figure XC. Torque to 10 ft lbs.

Install eight **Special Flush 1/2 Pipe Plugs** (key no 82). The special coating will seal the threads and allow easy removal at a later date. Clean off any shreads of sealer around the threads.

page 23



Fig XG Bolt on throttle body and IAC



Fig XH EGR solenoid bracket



Fig XJ Run IAC and TPS wires

7. Install the the **Discharge Manifold Lid** (key no 03) onto the S/C body with **S/C Discharge Gasket** (key no 36) and six **8mm x 25 Socket Head Bolts** (key no 75). Use provided **Locktite** (key no 42) on the threads and tighten bolts in stages.

Install the stock Throttle Body on the inlet adapter with four **6mm x 16 Flange Head Bolts** (key no 76). Install the Idle Air Control with **IAC Gasket** (key no 39) and two **6mm x 16 Flange Head Bolts** (key no 76).

Turn the assembly over. Glue the **Discharge Manifold Lid Gasket** (key no 37) to the bottom of the Discharge Manifold Lid.

8. Carefully place the supercharger assembly onto the discharge manifold using the front stud to help properly locate the assemble on the manifold. Check to be sure that the assembly sits flat on the manifold and no wires or hoses are pinched between. Install a few **6mm x 16 Flange Head Bolts** (key no 84) loosely to hold assembly in place.

9. Install the EGR Regulator Bracket (key no 61) as shown using discharge lid bolts. Use two 6mm x 16 Flange Head Bolts (key no 76) to bolt the EGR vacuum regulator to the bracket

Install **6mm Self Locking Nut** (key no 87) on the stud from the bottom. Install the rest of the **6mm x 16 Flange Head Bolts** (key no 84). Install the **6mm x 12mm Flange Head Bolt** (key no 85) in the front hole under the S/C. Tighten bolts evenly and in stages.

10. Run the wiring leads for the IAC and TPS under the inlet adapter close to the rear of the supercharger, between the s/c and the by-pass vacuum hose, close to the supercharger body. Plug the connector into their devices.



Fig XK Install EGR tube

11. Install the EGR Tube (key no 92)

Loosen the upper power steering / idler plate bolt that goes thru the EGR bracket.

Use stock EGR flange bolts with two 8mm Flange Head Nuts (key no 77) and EGR Gasket (key no 40) to install the EGR Valve. The valve is mounted at 90 degrees to it's stock location. Position the EGR valve against the EGR tube flange with the gasket between their flanges. The bracket goes against the tube side of the EGR tube flange. Place the bolts thru all four parts and nuts and tighten.

Tighten EGR Tube flare nut to fitting on Inlet Adapter.

12. Connect vacuum source hose. Plug the factory vacuum source connector onto



Fig XL Connect vapor hose



Fig XM Reinstall coil

the fitting at the end of the S/C Source Hose.

13. Install factory vapor hose onto end of S/C Vapor Hose connector.

If you are installing a boost gauge. Use a 1/4 x 1/4 x 1/8 combination size tee in the by-pass vacuum hose for a vacuum/boost signal (fitting not included with kit).

14. Plug the PCV valve elbow hose on the right valve cover onto the connector at the end of the S/C PCV hose.

15. Reinstall the coil/coil bracket assembly using the original bolts. The top front bolt is not used.

Reinstall right side plug wires. Route them behind and under the Inlet Adapter, over the other wires and hoses. Note the new routing on rear side of coil

Reinstall the ground wire and stud.

Reinstall the harness onto the control unit. Place wiring retainer over stud and tighten nut.



16. Install throttle and cruise control cables on the throttle body in reverse order of dissembly. Insert the cable housings into the throttle cable bracket. Be sure the retainer tabs are fully engaged.

Install brake booster hose onto fitting on top of inlet adapter with stock clamp.

Fig XN Install throttle cable



17. Install the **Nose Support** (key no 06) onto the back of the idler bracket using two **8mm x 20 Flange Head Bolts** (key no 17).

Use an angled prybar or large allen wrench as a lever in the center hole of the nose support to position it against the s/c nose. The nose support needs to contact the machined end of the S/C drive assembly, not to try to push the supercharger nose up.

CAUTION:

DO NOT OVERTENSION NOSE SUP-PORT

Fig XO Install nose support



18. Install Drivebelt (key no 95).

Fig XP Drivebelt routing

page 26



Fig XQ Remove lower airfilter housing

19. Disconnect the connector at the Mass Air Sensor by squeezing the connector and pulling. Remove the airfilter top and mass air as a unit. They will not be reused.

Remove lower air filter housing. Release tangs on bottom of housing by prying with thin screwdriver. apply upward pressure on the housing while prying on each of the three tangs in both locations.



20. Install three Airbox Pins (key no 65) on lower flange of airbox with three 6MM X 10 Flangehead Bolts (key no 67).

Reinstall one grommet that came off on the stock airfilter housing into hole in inner apron as shown.



Fig XR Install grommet



21. Install air box. Engage pins into stock grommets.

Install Mass Air Meter (key no 94) onto airbox with four 6mm x 16 Flange Head Bolts (key no 66) and four 6mm Flange Nuts (key no 68) with Mass Air Gasket (key no 41) between the meter and the airbox.

Fig XS Install airbox



Fig XT Install inlet hose



Fig XU Install breather hose



Fig XV Airbox installed

22. Locate the stock inlet hose, 3 1/2 inch Coupler (key no 64), Inlet Elbow Hose (key no 91) and two 3 1/2 inch Clamps (key no 69). The stock inlet hose is installed reversed from it's original position. The former MAF end is smaller than the throttle body end. Use silicone lube on the hose and throttle body to ease installation.

Install Coupler into the big end of the inlet hose about 5/8 inch and tighten clamp.

Install Elbow with new clamps.

If necessary, loosen clamps and twist hoses as required for a comfortable fit.

23. Insert a 5/8 Coupler (key no 49 in both ends of the 5/8 PCV Breather Hose x 17 (key no 44). Install the hose, one end into the right side valve cover elbow hose and the other into the port in the stock inlet hose.

24. Install Air Filter (key no 90). Position filter so it will not touch the radiator support or the hood.

Install Airbox Seal (key no 53).

MODIFY WIRING HARNESS

WEATHERPACK CONNECTORS



1. Weatherpack parts: **Male Terminals** (key no 30) **Female Terminals** (key no 31) **Male Housing** (key no 32) **Female Housing** (key no 33) **Seals** (key no 34)

Push seal onto wire as shown.
Strip 1/4 inch from the insulation.



3. Crimp terminal onto the stripped wire.

Crimp terminal onto insulation.

NOTE:

These crimps must be neat and compact so the terminal will fit into the housing.

The Packard Electric P/N 12814254 is a really effective, though expensive crimper for these terminals. It is available from Del City 800-654-4757 (part no 906485).

4. Insert terminals into housing until tang clicks into the lock.





Fig WA Weatherpack connector installed



Fig WB Route ACT harness

5. After terminals are installed, lock wires and seals as shown.

1. Locate the mass Air Meter harness. Pull the wires out of the wire armour.

Cut the two outside wires (grey and grey/red) about 3 inches from the connector.

CAUTION: DO NOT CUT THE OTHER WIRES

Install the FEMALE connector to the HARNESS side of the cut wires. The female connector has the seal (skirt). The female terminals are the ones with holes in the end.

The male terminals and housing are provided to install on the meter end of the cut wires.

Use two Tiewraps (key no 43) to secure the stock wire armour around wires.

NOTE:

THE ACT WIRES DO NOT NEED TO BE INDEXED. THE SENSOR FUNCTIONS PROPERLY WITH THE WIRES CON-NECTED TO EITHER TERMINAL

2. Plug the ACT Harness (key no 29) into the ACT Sensor on the Discharge manifold lid.

Route the Harness around the back of the Inlet adapter and along the inner fender to the mass air meter.

Use two Tiewraps (key no 43) to secure harness to stock hose and harness where shown.

page 30



18. Install CARB Exemption Cucker (key no 103) on radiater support.

NOTE:

THIS STICKER WILL ASSIST WHEN A SMOG CHECK IS NEEDED AND IS REQUIRED BY THE CALIFORNIA AIR RESOURSES BOARD.

Install the **Drivebelt Routing Sticker** (key no 101) over the original one.

Fig XW CARB sticker



Fig XX Install octane warning sticker

19. Install Octane Warning Sticker (key no102) on the inside of the fuel filler door.

CAUTION: THIS VERY IMPORTANT

20. Close the hood. Work the accelerator pedal 10-20 times off throttle to full throttle.

Open hood and check to see if the throttle cables have left a mark on the hood liner. If there is a mark, you will need to cut out a section of the hood liner large enough so there will be no interference.

THIS IS THE INSTALLER'S RESPONSIBILITY!

Recheck after road test.

20. Final inspection. Be sure all electrical connectors are installed and that harnesses are routed properly. Check the drivebelt alignment.

Connect negative battery cable.

Start engine.

Inspect for leaks.

Fig XY Installation complete

REFLASH COMPUTER



Fig XZ SCT Reprogrammer

In order to correct the computer fuel and ignition programming to work correctly with the X-CHARGER supercharger, the computer memory must be reflashed.

page 31

We have included a state of the art Super Chips Tuning Custom Micro Tuner for this purpose.

The reprogramming is very easy to accomplish. Read the enclosed Super Chips manual before proceeding.

VERIFY THAT THE STICKER ON THE REPROGRAMMER IS THE SAME CODE AS THE CODE ON THE STOCK CON-TROL UNIT.

C1. Remove cover from Power Distribution Unit.



Fig XXA Power Distribution Unit



Fig XXB Remove fuel pump fuse

C2. Remove fuel pump fuse before proceeding.

3. Connect Reprogrammer to OBDII service port with ignition off.

Follow reprogrammer instructions exactly.



Fig XXC OBDII service port



Fig XXD Recheck hood liner clearance

4. Road test.

Listen carefully for pinging under various conditions.

CAUTION:

THIS KIT HAS BEEN TUNED TO CON-TROL DETONATION.

THERE THE ENGINE SHOULD NOT PING AT ANY TIME. IF YOU NOTICE ANY PING, THE CAUSE MUST BE DIAG-NOSED AND REPAIRED BEFORE DELIVERY TO THE OWNER.

Recheck hood liner for contact with the throttle linkage.

page 33

NOTICE: THIS KIT HAS NOT BEEN EXEMPTED BY THE CARB IT IS NOT LEGAL FOR SALE OR USE IN ANY AREA WITH CALIFORNIA TYPE EMISSIONS LAWS. The installation of the X-charger supercharger re prohibitions reduce the effectiveness of " , Jul J.U liter Ford Explorers.

found not to

of Sant'

TO AVOID ENGINE DAMAGE. IF YOU NOTICE ANY PINGING UNDER LOAD, BACK OFF AND DRIVE CONSERVA-TIVELY ENOUGH TO AVOID BOOST UNTIL PROBLEM CAN BE DIAG-NOSED AND REPAIRED.

USE MINIMUM 91 OCTANE FUEL

SUPERCHARGER AND BY-PASS VALVE LIMITED WARRANTY

Magnuson Products

1 YEAR LIMITED WARRANTY

Eaton Supercharger Division

Magnuson Products warrants and will repair or replace, at their option and after inspection in their facility, any new item produced by Eaton or Magnuson found defective by means of material and/or workmanship for a period of one year from invoice date. This limited warranty does not cover products which fail because of accident, alteration, misuse, neglect, racing, improper installation, abuse, or when used in applications for which they were not designed or approved. Removal, installation, transportation, labor, inconvenience, damage of other components, personal damage or injury and any injury or liability to other persons or property are not covered under this warranty. Magnuson Products, Z Doctor or Explorer Express shall not be liable for any and all consequential damages occasioned by the use of this supercharger or by breach of any written or implied warranty pertaining to this sale in excess of the original purchase price.

Model # M90S

Serial #

Date purchased

If you should experience any problems or have technical questions about your X-CHARGER contact Explorer Express at 510-236-1220



thank you for using X-SPEC Performance Parts the finest available

part no ZD5556-D

