



SUPERCHARGER INTERCOOLER UPGRADE KIT



INSTALLATION MANUAL: Saleen S-Series / H-Series / *Mustang GT
(S302SC, S281SC, S281 SPORT, S281RF, S281AF, H281DG, *Mustang GT)

2005 - 2009 Model Years

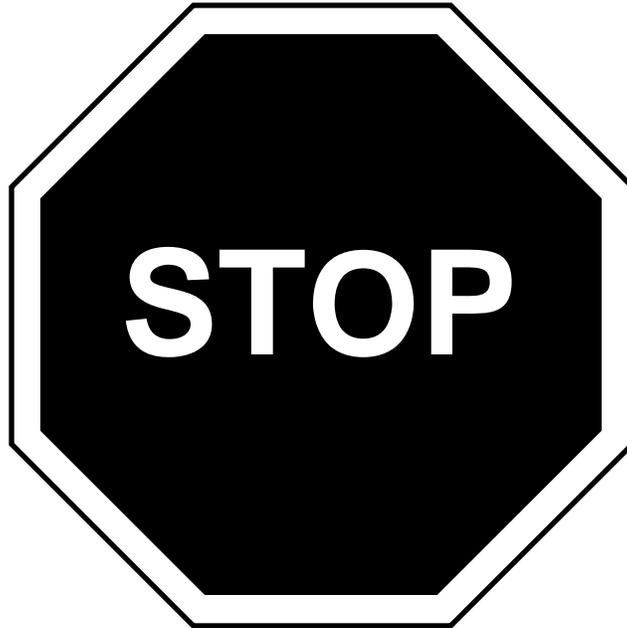
P/N: 10-8002-C18216B



Saleen Performance Inc.

1-800-888-8945

www.saleen.com



IF YOU ARE NOT EXPERIENCED IN THE AREA OF AUTOMOTIVE MECHANICS, WE STRONGLY URGE THAT YOU REFER THIS INSTALLATION TO A CERTIFIED INSTALLER OR TECHNICIAN.

ENSURE THE VEHICLE PARKING BRAKE IS ON AND THE TRANSMISSION IS IN PARK OR IN GEAR WHEN WORKING ON IT.



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A = (Stock Model)
B = (S - Series Model)

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Pre-Installation Precautions:

To help ensure the proper operation of your vehicle, follow the guidelines below:



IF YOU ARE NOT EXPERIENCED in the area of automotive mechanics, we strongly urge that you refer this installation to a certified installer or technician.

PAY ATTENTION TO VEHICLE TYPE NOTATION because there are different installation steps in this manual that differ based on whether your vehicle is a Saleen S-Series product (S281 Sport, S281SC, S302SC) or a factory Mustang GT*. There will be clear markings at the lower RH corner of the page (**A or B designation**). Taking the time to read these instructions along with following the notes will ensure a smooth, easy, and successful installation**.

*This instruction manual consists of the two most likely vehicle types for this kit (Saleen S-Line & Factory Stock Mustang). Saleen cannot anticipate what modifications may be done to every vehicle, so there may be an installation conflict with some aftermarket equipment.

**This manual was created using a Saleen S302E and a Saleen S281SC as an example. Saleen Heritage models (H-281DG) or any form of aftermarket body kits may require different or additional steps when removing body components such as the front fascia. If the vehicle does contain other aftermarket body components, contact that aftermarket supplier for disassembly and assembly instructions.

Safety Precautions:

To help guarantee your safety, please follow the guidelines listed below:



NO SMOKING, FLAMES, OR SPARKS around the battery or fuel system. Batteries can give off fumes that are flammable and may ignite if there is any form of spark or open flame near it.



WEAR THE APPROPRIATE SAFETY GEAR such as safety glasses and gloves during the vehicle tear down and installation of new components. Always follow the safety instructions that come with the tools you are using.



USE CAUTION AROUND VEHICLE when working on it. Make sure the vehicle is turned **OFF**, is properly secured (in park or in gear with the parking brake on), and is sitting on a level surface.

If a hoist or floor jack is required, make sure the vehicle is in park or in gear and the parking brake on. If using a floor jack, make sure the vehicle is on a level surface, the rear tires are chocked, and the vehicle is being supported by jack stands. Follow ALL safety guidelines & operational instructions spelled out in the hoist or floor jack's owners manual. Failure to do so may result in serious injury.

Avoid wearing loose clothing or jewelry, as these items might get caught in moving parts resulting in injury. When instructed to operate your vehicle, make sure you do so in a well-ventilated area (to prevent carbon monoxide poisoning).

Be safe and use proper care and precautions. Saleen wants you to have a safe and rewarding experience.



**Supercharger Intercooler Upgrade Kit
Installation Guide for the 2005 to 2009
Saleen S-Series, H-Series, & Mustang GT**

WELCOME!

Thank you for buying a Saleen Intercooler Upgrade Kit for the 2005 to 2009 Saleen S-Series, H-Series, and Mustang GT*. We appreciate your business, and we hope you enjoy your product.

For your benefit, please read the following instructions completely and thoroughly before attempting to install the Intercooler Upgrade kit. Many questions we have received from customers about the installation of our products could have been easily solved by information listed in this installation guide. We want you to enjoy this product in its fully functional state and reading this tutorial is a great first step to getting you on your way to a more unique Mustang.

Again, thank you for choosing Saleen!

***IMPORTANT!** SALEEN DOES NOT GUARENTEE THE FITMENT OR FUNCTION OF THIS KIT WITH OTHER AFTERMARKET COMPONENTS. THIS KIT IS DESIGNED TO WORK ON A SALEEN S-SERIES & H-SERIES VEHICLE, OR MUSTANG GT WITH A SERIES VI SUPERCHARGER SYSTEM, PER THE INSTRUCTIONS CONTAINED HEREIN. OTHER AFTERMARKET BODY KITS, ETC... MAY AFFECT FITMENT AND IS THE OWNER'S RESPONSIBILITY.



PARTS INCLUDED IN INTERCOOLER UPGRADE KIT:

10-2000-A18000*	HEAT EXCHANGER UPGRADE KIT 2005 - 2009	1	EACH
10-8002-C18216			
10-8002-C18216	INSTALL MANUAL IC UPGRADE KIT 05-09	1	EACH
06-2002-B17642*			
06-2002-B17642*	WATER PUMP KIT IC 2008 H302SC / S302E	1	EACH
00-2002-C17640*	INTERCOOLER WATER PUMP 2008 S302E / H302SC	1	EACH
00-9001-C10665*	CAPSCRW HEX FLNG M8x1.25mm 40mm CL 8.8	2	EACH
00-9003-C17773*	NUT M8 X 1.25 DISTORTED THREAD LOCKNUT FLANGED	2	EACH
06-2002-C17601	BRACKET IC WP 2008 S302E / H302SC	1	EACH
06-9001-C12799	CAP SCREW HEX HD NYLOC M8x1.25x20	4	EACH
00-1704-C13571*	CONNECTOR DEUTSCH 6 SOCKET W/ SHRINK BOOT	1	EACH
06-2002-C17966	SPACER BRACKET IC WP 2008 S302E	2	EACH
00-2002-C17969*	NEOPR. RBR SHEET 3/32x4x36" ADHSV BKD 60A DUROMETER	1	EACH
06-2001-B17704*			
06-2001-B17704*	HEAT EXCHANGER KIT 2008 S302E / H302SC	1	EACH
06-2001-B17701	HEAT EXCHANGER ASSY W/ FANS 2008 S302E / H302SC	1	EACH
00-9003-C17773*	NUT M8 X 1.25 DISTORTED THREAD LOCKNUT FLANGED	4	EACH
00-9001-C13581*	BOLT M8x1.25mm 30mm CL 8.8 Zn PL FLANGE	4	EACH
00-9006-C10013*	RIVET DOME STD BLIND 3/16" DIA. .251 - .375 AL-AL	2	EACH
00-9010-C07181*	3/8" VACUUM HOSE	2	INCH
06-2003-C17607	MOLDED HOSE IC TANK TO WP 3/4" TO 1" 2008 H302SC/S302E	1	EACH
06-2003-C17742	MOLDED RADIATOR HOSE 1-INCH ID MOD	1	EACH
00-2003-C17638*	HOSE CLAMP 34mm ID WIDE BAND CONSTANT TENSION	3	EACH
00-1704-C09382*	WIRE 20 AWG YELLOW	6	INCH
00-1704-C09260*	18 GAUGE SEAMLESS BUTT SPLICE	2	EACH
00-1704-C06300*	HEAT SHRINK DUAL WALL 1/8" BLACK	3	INCH
00-1704-C12919*	CONNECTOR, PACKARD 1 PIN	1	EACH
00-1704-C13196*	CONTACT, PACKARD 18-20 AWG	1	EACH
00-1704-C13199*	CABLE SEAL, PACKARD TAN	1	EACH
00-9007-C10122*	7" CABLE ZIP TIE	10	EACH
00-9006-C17390*	3M TAPE 2-SIDED 5952 1.14mm X 19.05mm	6	INCH
06-1704-B17792	HARNESS, FAN-WATER PUMP, S302SC	1	EACH
00-1703-C17799*	RELAY CONTROLLER	1	EACH
069-310	SCREW PAN HD PHIL SELF DRIL 410 SS #8-18x1/2"	2	EACH



TOOLS REQUIRED FOR KIT INSTALLATION:

3/8" Drive - Torque Wrench	90 Degree Pick
3/8" Drive - Ratchet	Panel Puller
3/8" Drive - 6" Extension	Phillips Head Screwdriver
12mm Deep Socket	Flat Blade Screwdriver
13mm Deep Socket	Rivet Gun
13mm Ratcheting wrench	Wire Stripper / Crimper
1/4" Drive - Torque Wrench	Heat Gun (For Heat Shrink)
1/4" Drive - Ratchet	Drill Motor
1/4" Drive - 8" Extension	Hole Saw 35mm Dia.
5.5mm Socket (1/4" Drive)	Air Saw or Hack Saw
8mm Socket (1/4" Drive)	3/16" Drill Bit
10mm Socket (1/4" Drive)	Coolant System Pressure Tool
	2 Gallon Bucket
	Hose Clamp Pliers
	Pliers
	Fiber Stick

NOTE: If you do not have any of the tools listed above, you may be able to obtain them from your local tool lending service



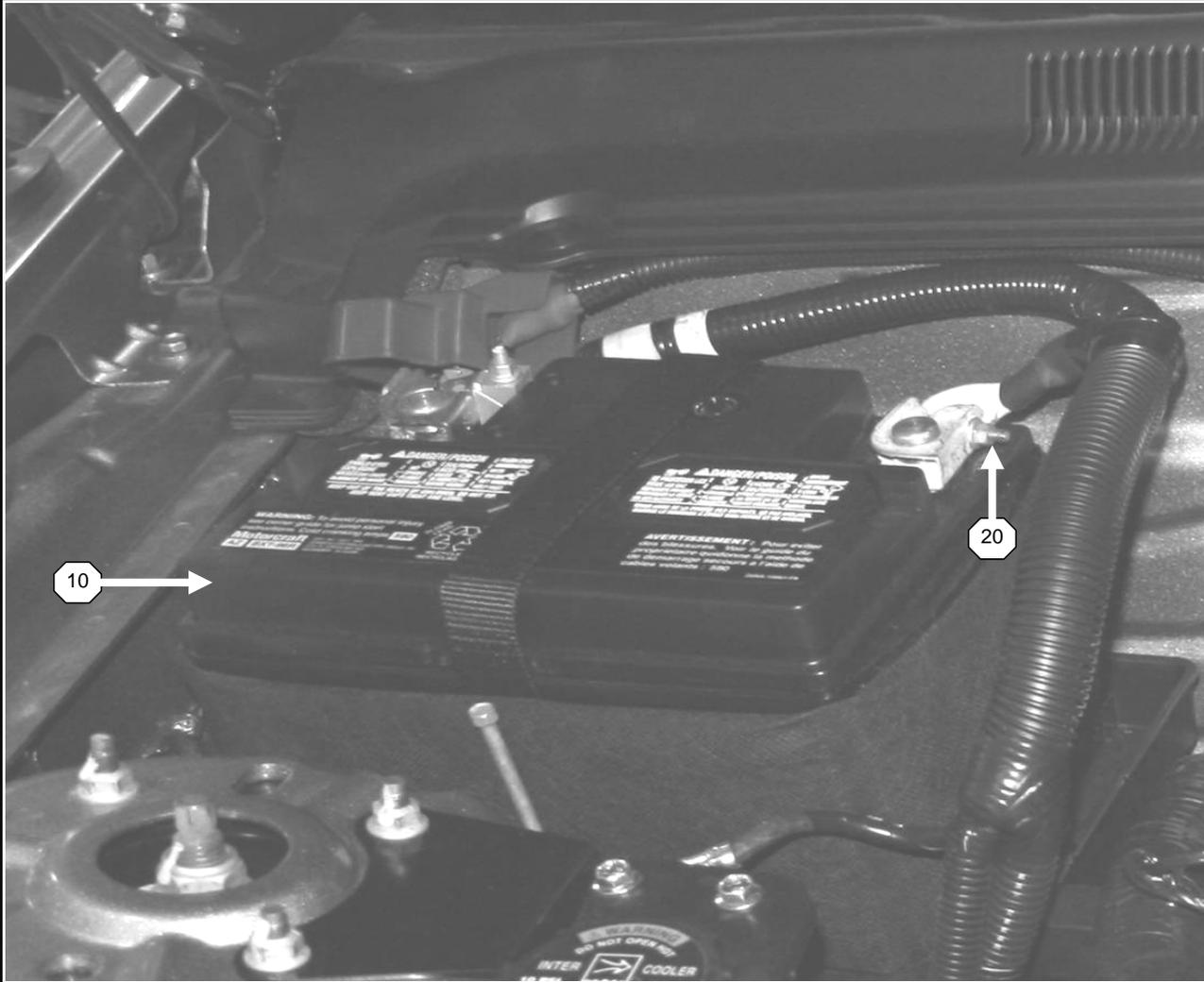
TORQUE



ITEM NUMBER



OPERATION



10

Open the hood and locate the battery.
(Passenger Side)

20

Disconnect the negative battery cable using an 8mm Socket. Bring the negative battery cable down to the side of the battery where it can not make contact with the negative battery post.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE



PROCESS NAME PAGE

DISCONNECT BATTERY



TORQUE



ITEM NUMBER



OPERATION



10 With a panel puller, remove the 6 retainer pins holding the top aero shield in place.



20 Remove the aero shield.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			SALEEN
		PROCESS NAME	PAGE
		REMOVE FACTORY FASCIA	A
			2-1



TORQUE



ITEM NUMBER



OPERATION



10

With a panel puller, remove the 4 retainer pins holding the top aero shield in place.

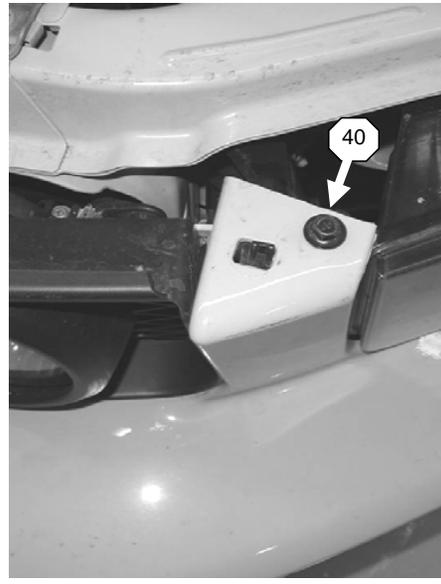
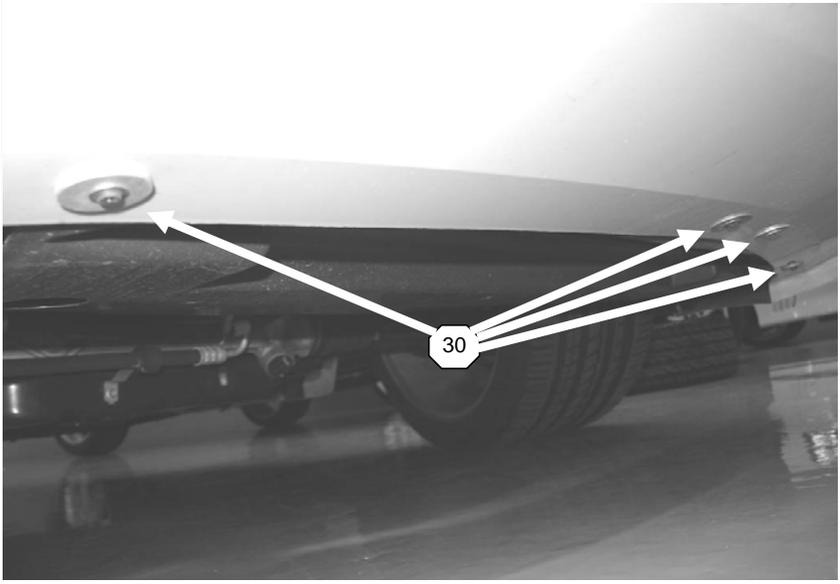
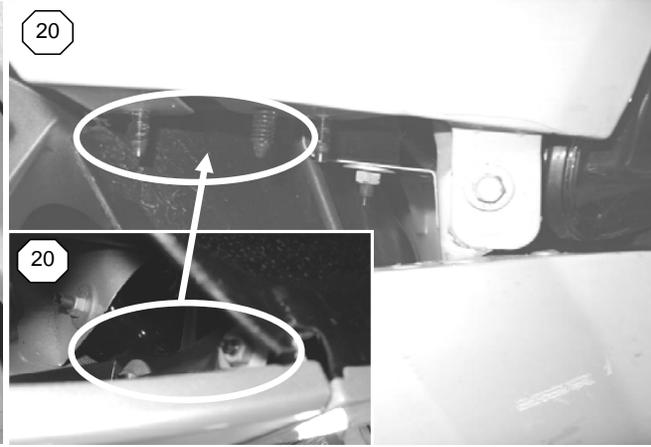
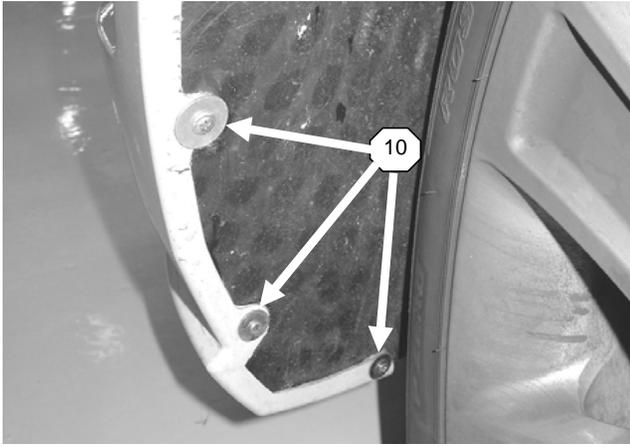
20

Remove the aero shield.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			PAGE
		PROCESS NAME	
		REMOVE SALEEN S-LINE FASCIA	
			B
			2-1



- 10 Both wheel wells have Philips screws (3 per side) that need to be removed. The front wheels may need to be turned left or right to obtain the necessary clearance for the screw driver.
- 20 Once the screws are removed, pull the fender liners back towards the front wheels enough to see the 10mm nuts (2 per side) fastening the front fascia to each fender. Remove all 4 of the nuts.
- 30 Underneath the front fascia in the front along the leading edge are four 5.5mm bolts attaching the lower aero shield to the bottom of the fascia. Remove the bolts.
- 40 Remove the 10mm bolts (1 per side) attaching the top of the front fascia to the car. Each bolt is located just inboard of the headlight.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE						
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PROCESS NAME	PAGE					
REMOVE FACTORY FASCIA	A					
		2-2				



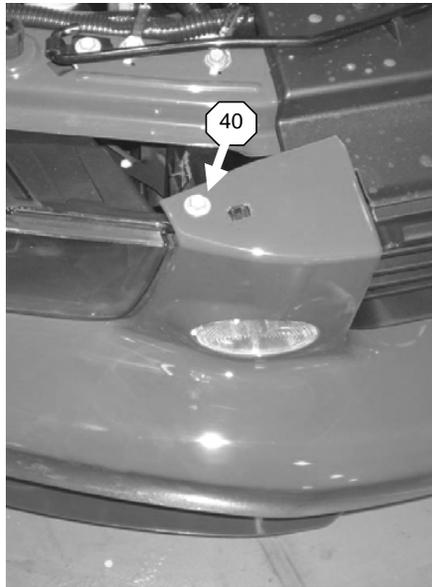
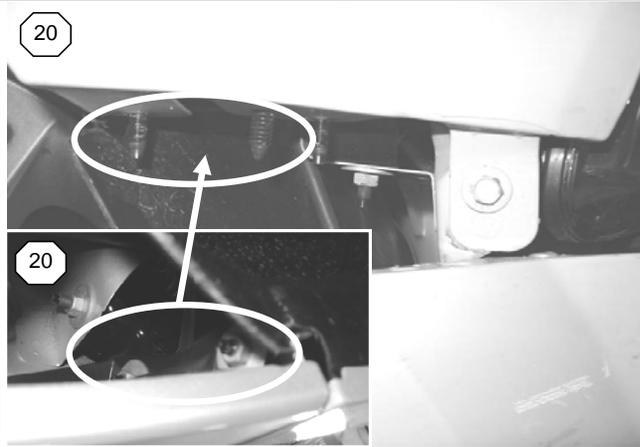
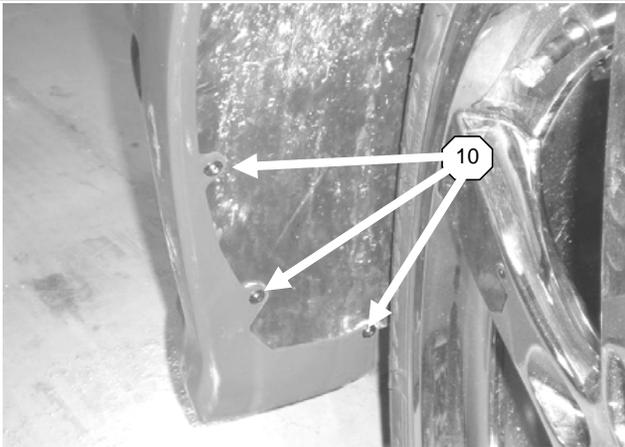
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ITEM NUMBER



OPERATION

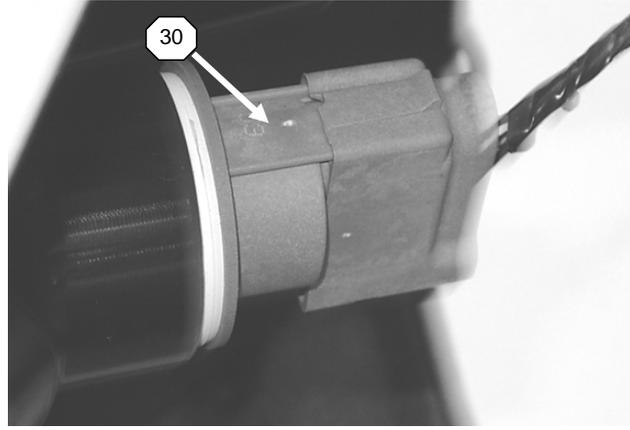
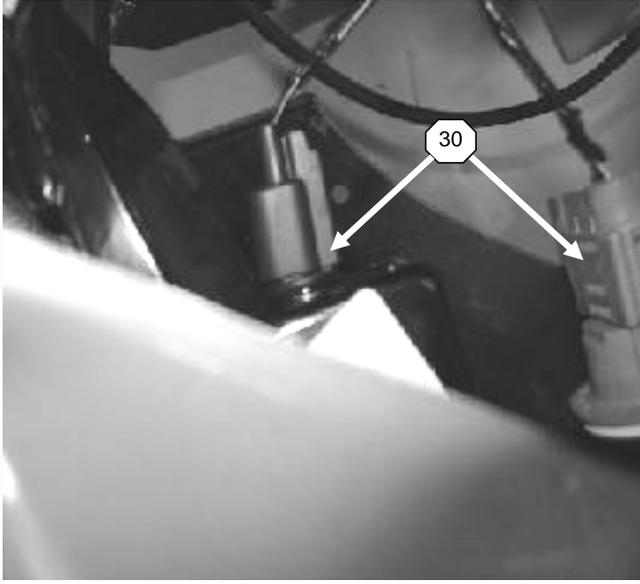
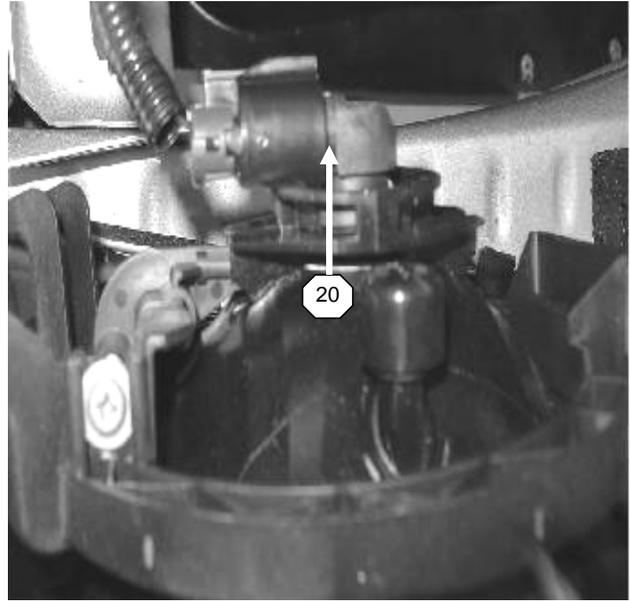


- 10 Both wheel wells have Philips screws (3 per side) that need to be removed. The front wheels may need to be turned left or right to obtain the necessary clearance for the screw driver.
- 20 Once the screws are removed, pull the fender liners back towards the front wheels enough to see the 10mm nuts (2 per side) fastening the front fascia to each fender. Remove all 4 of the nuts.
- 30 Underneath the front fascia in the front along the leading edge are two 5.5mm bolts attaching the lower aero shield to the bottom of the fascia. Remove the bolts.
- 40 Remove the 10mm bolts (1 per side) attaching the top of the front fascia to the car. Each bolt is located just inboard of the headlight.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		REMOVE SALEEN S-LINE FASCIA	
		B 2-2	

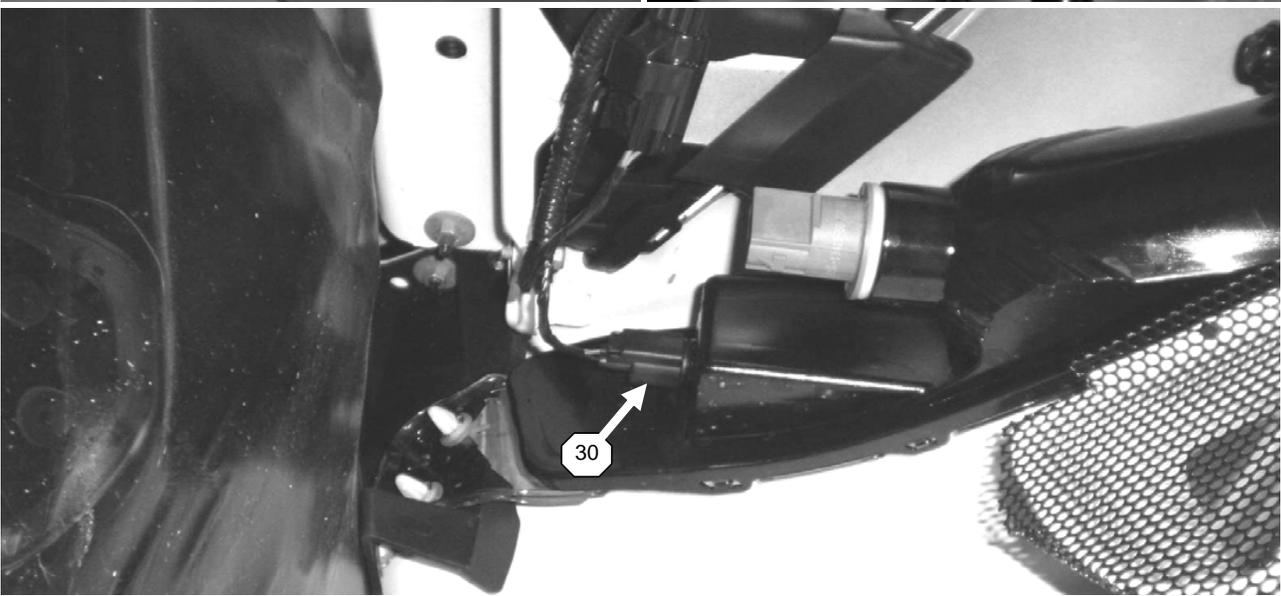
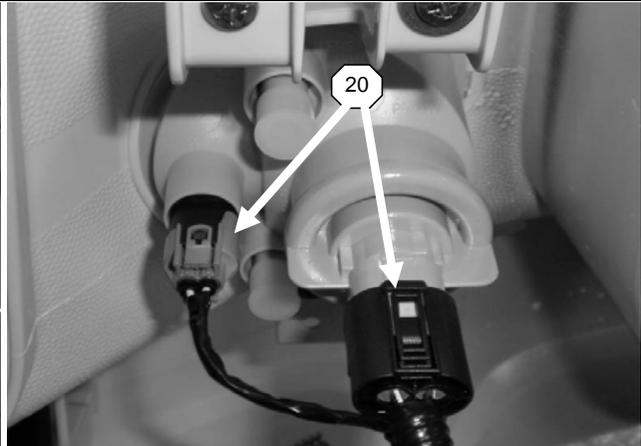


- 10 Once all of the fasteners are removed, remove the front fascia by placing the palm of your hand on each side of the front fascia and push down until the fascia loosens. Let the fascia sit on the front bumper in order to disconnect harnesses.
- 20 Press in the tab located on the side of each fog lamp connector (1 per side). Once the tab is depressed, pull each fog lamp connector away from the lamp housing to disconnect.
- 30 Disconnect the side marker lamp connectors and the turn signal connectors (1of each per side, located underneath each head lamp). To disconnect each connector, depress the tab and pull to separate.
- 40 Remove front fascia and set it where it will not get scratched or damaged.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME REMOVE FACTORY FASCIA	PAGE A 2-3

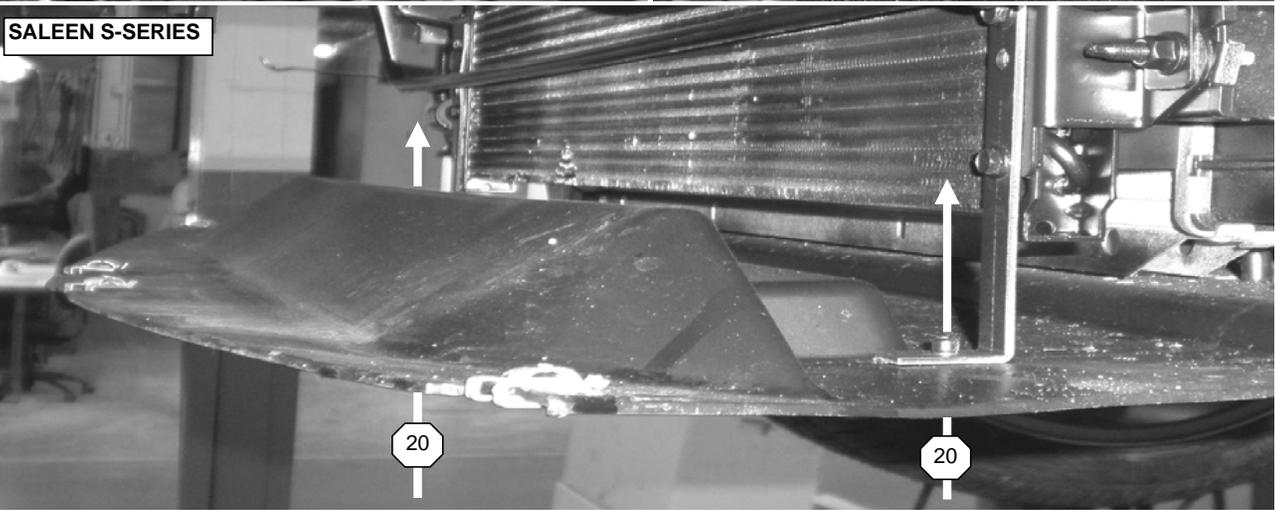
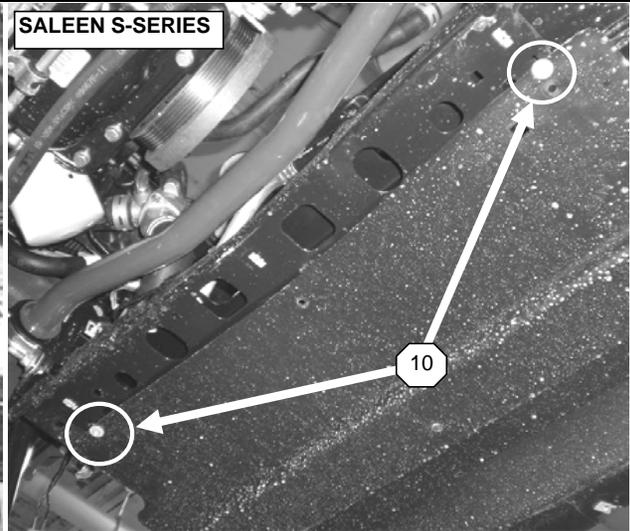
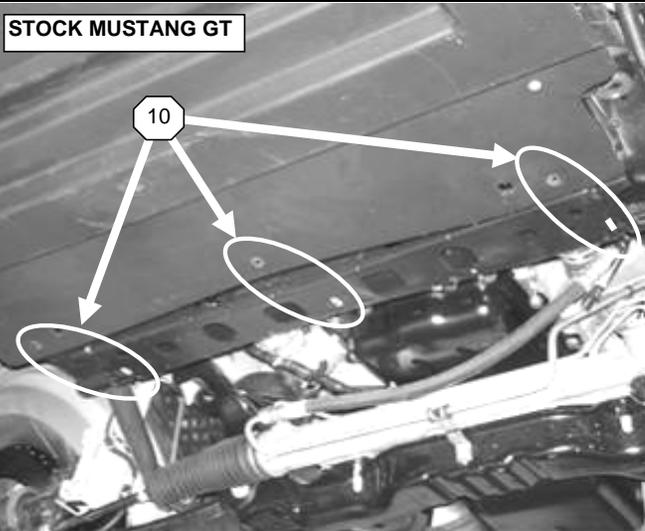


- 10 Once all of the fasteners are removed, remove the front fascia by placing the palm of your hand on each side of the front fascia and push down until the fascia loosens. Let the fascia sit on the front bumper in order to disconnect harnesses.
- 20 Locate the turn signal harness (located behind each turn signal, at each side of the front grille). Disconnect each connector by depressing the tab and pulling the connector away from the turn signal housing.
- 30 Disconnect the side marker lamp connectors (located underneath each head lamp). To disconnect each connector, depress the tab and pull to separate.
- 40 Remove front fascia and set it where it will not get scratched or damaged.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME REMOVE SALEEN S-LINE FASCIA	PAGE B 2-3



10 With a 5.5mm socket, remove the screws holding the lower radiator tray to the bottom core support (3 screws for a Mustang GT fascia, 2 screws on a Saleen S-Series fascia).

20 **SALEEN S-SERIES FASCIA:** Drill out the rivets (with a 3/16" drill bit) securing the lower radiator tray to the two tray L-brackets (1 on each side). Be careful not to enlarge the holes in the lower tray and L-Brackets, or the new rivets installed later will not fit properly.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		REMOVE RADIATOR LOWER TRAY	3



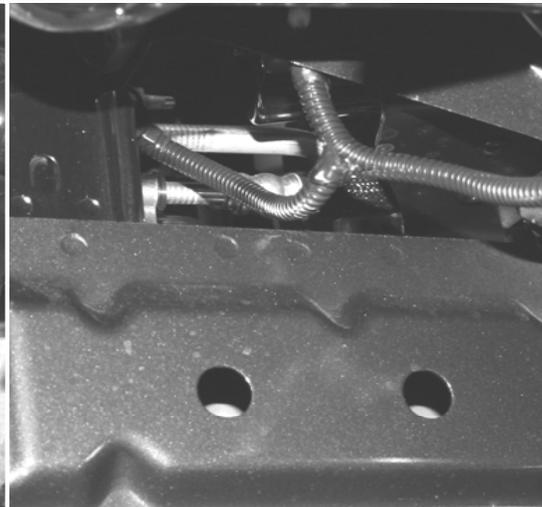
TORQUE



ITEM NUMBER



OPERATION



10

Remove the cap from the intercooler reservoir bottle and set aside.

20

Set a large bucket underneath the driver side fitting on the heat exchanger.

30

Using tension clamp pliers, work the tension clamp loose and slide it up the hose. Remove the intercooler hose from the heat exchanger. Let the coolant drain (into the bucket) from both the heat exchanger and the intercooler hose.

Notes:

ITEM	PART NUMBER	QTY.	DESCRIPTION

TORQUE			
		PROCESS NAME	PAGE
		DRAIN INTERCOOLER COOLANT	4



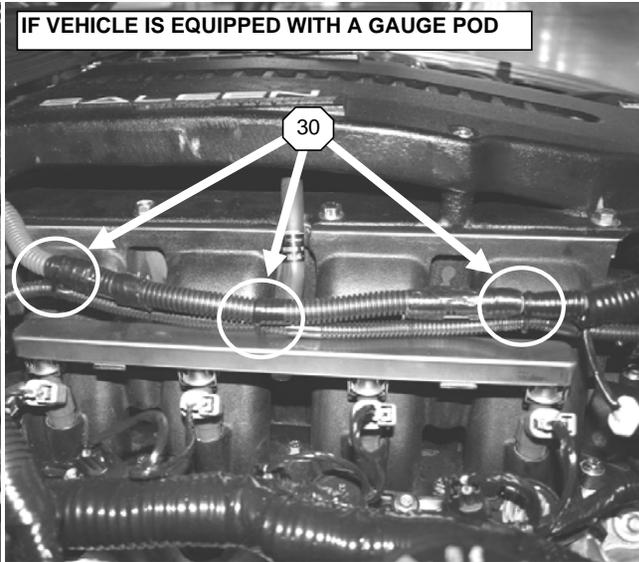
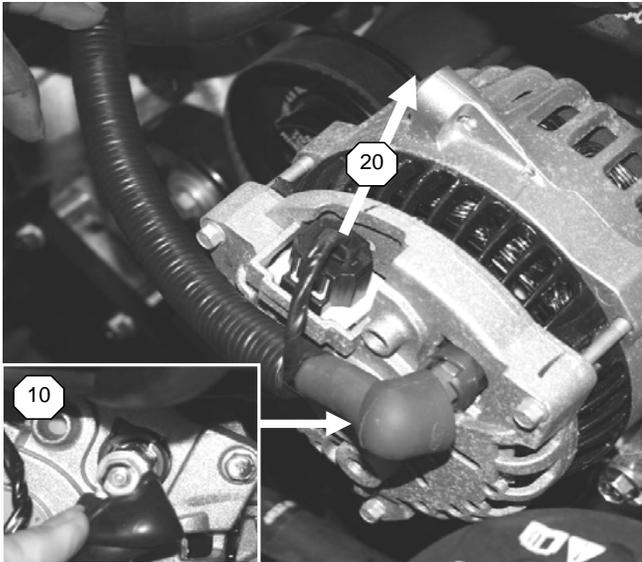
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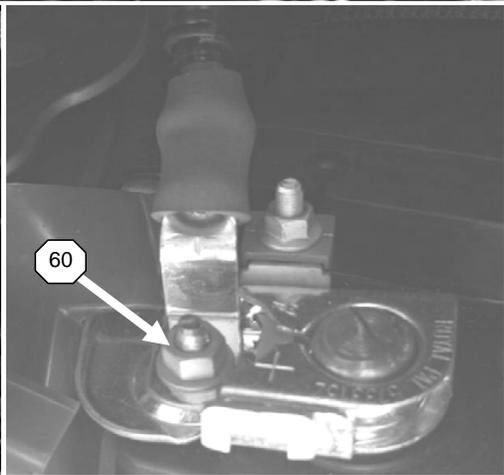
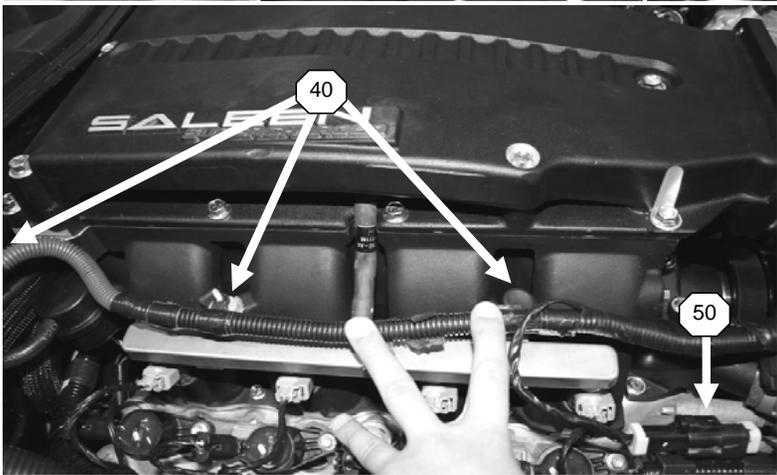
ITEM NUMBER



OPERATION



IF VEHICLE IS EQUIPPED WITH A GAUGE POD



NOTICE: For this process, the air inlet tube might need to be moved out of the way to gain access to the alternator. This can be accomplished by unclipping the air box lid from the air box, and then positioning the lid and inlet tube away from the alternator.

- 10 Pull back the harness boot and remove the 10mm nut holding the alternator harness ring terminal to the alternator stand-off.
- 20 Disconnect the connector from the alternator by pressing in the tab on the side of the connector, while pulling the connector away from the alternator at the same time.
- 30 **FOR VEHICLES WITH A GAUGE POD:** Cut the zip ties holding the gauge pod harness to the alternator harness. Be careful not to cut into either wire harness.
- 40 Remove the alternator harness from the fuel rail by sliding the harness retainer clips up off of the fuel rail stud bolts. With a panel puller, remove the alternator harness tree clip from the sheetmetal loop on the fire wall.
- 50 Disconnect the alternator harness signal connector from the main engine harness.
- 60 Remove the 10mm nut holding the end of the alternator harness to the positive battery terminal clamp. Remove the alternator harness.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE



PROCESS NAME	PAGE
REMOVE ALTERNATOR HARNESS	5



TORQUE



ITEM NUMBER



OPERATION



NOTICE: For the next few steps, the front end of the vehicle will need to be elevated off of the ground. All vehicles when being lifted should be on flat solid ground. If a jack is being used, make sure the vehicle is supported on jack stands (at least 1 at each front corner, at a solid place on the frame). Make sure the rear wheels are chocked, the parking brake is set, and the vehicle is in park or in gear. **REMEMBER**, when lifting any vehicle whether it be with a hoist, jack, etc.. follow all safety guidelines in the equipment's manual.

- 10 Break loose the 5 lug nuts on the RH front wheel with a breaker bar and a 13/16" socket.
- 20 Elevate the front of the vehicle off of the ground, so that the front tires no longer touch the ground (**READ NOTICE ABOVE**).
- 30 Remove the 5 lug nuts on the RH front wheel with a 13/16" socket. Make sure to hold the wheel, it may want to fall off the hub once all lug nuts are removed.
- 40 Remove the RH front wheel and set it aside where it will not be damaged.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		REMOVE RH FRONT WHEEL	6



TORQUE

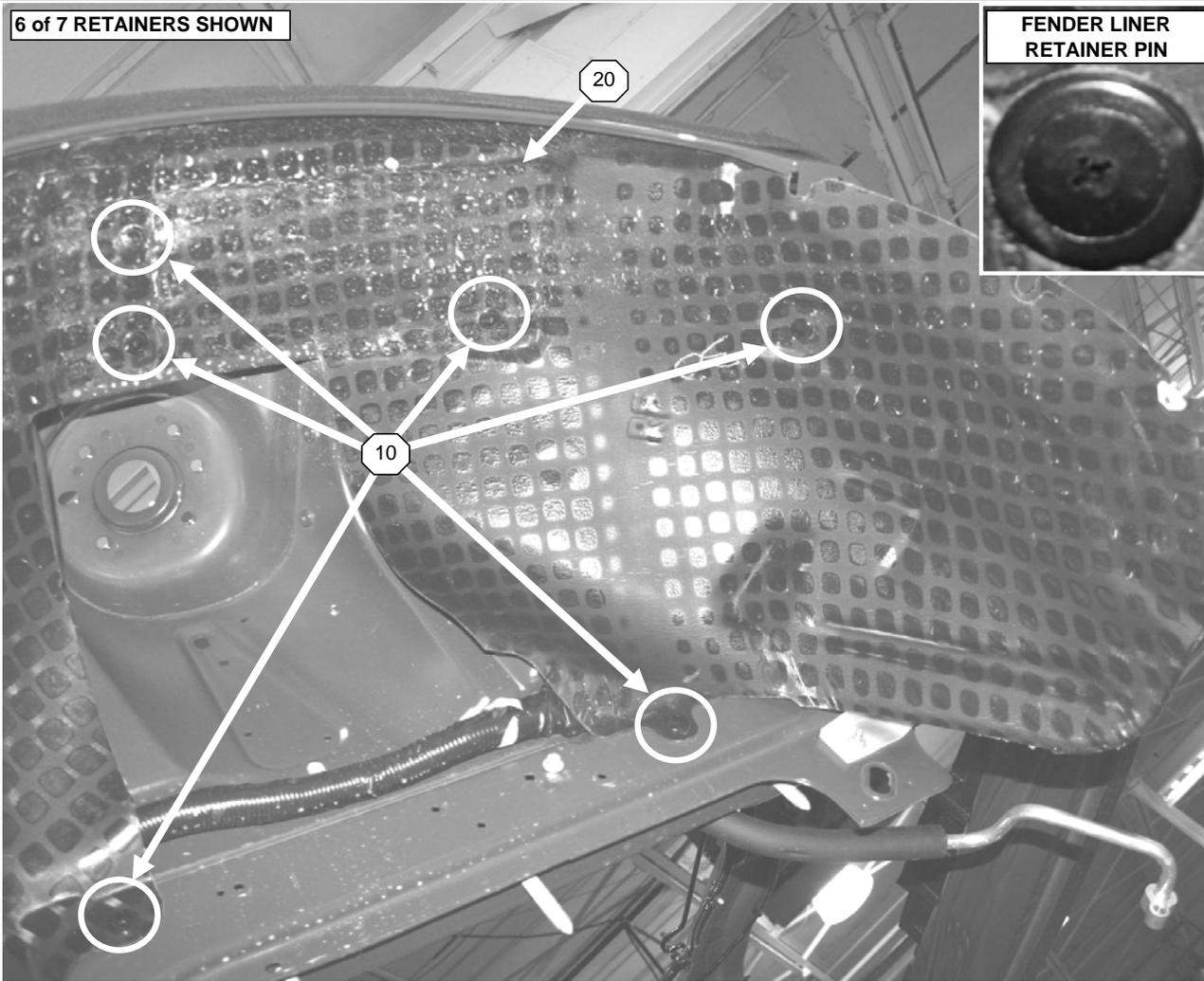


ITEM NUMBER



OPERATION

6 of 7 RETAINERS SHOWN



NOTE: The fender liner is made up of 2 pieces

10 With a Philips screw driver, rotate the head of each pin retainer to pop loose the head and then pull to remove. There are 7 retainer pins holding each half of the front fender liner into place.

20 Remove each front fender liner and set aside.

Notes:

ITEM	PART NUMBER	QTY.	DESCRIPTION

TORQUE



PROCESS NAME PAGE

REMOVE RH FRONT FENDER LINERS



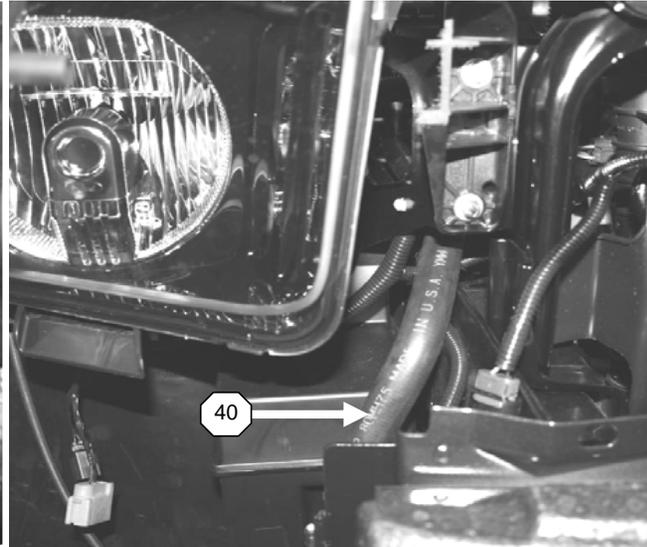
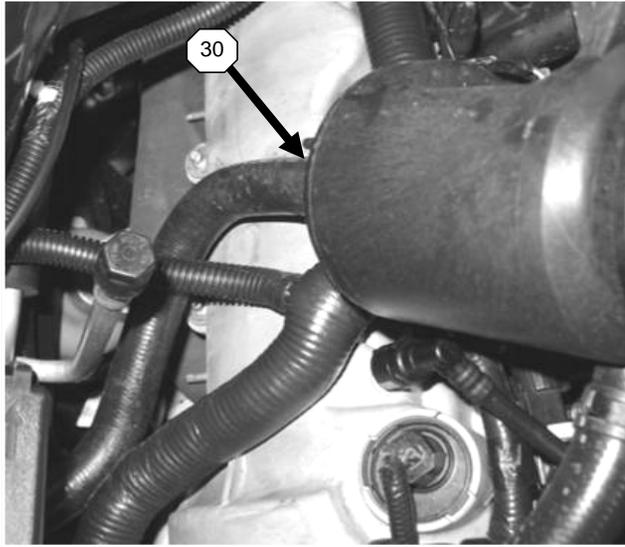
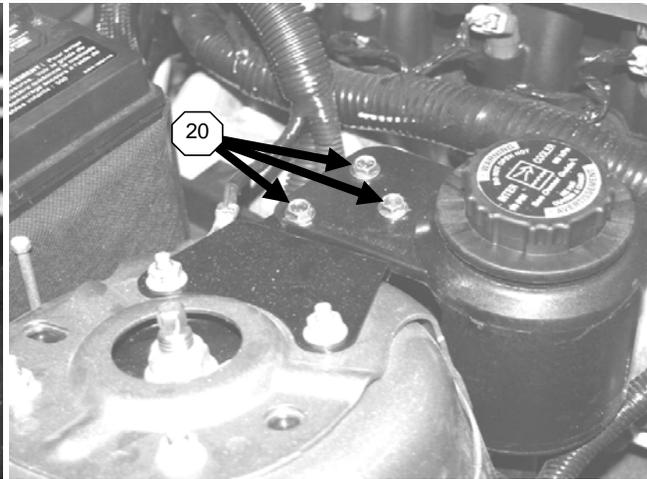
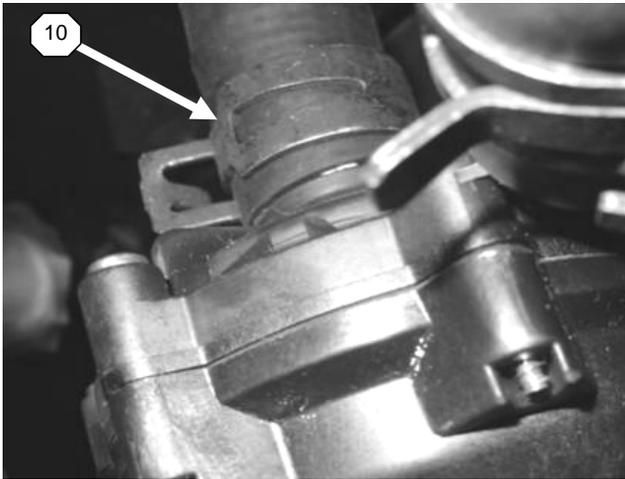
TORQUE



ITEM NUMBER



OPERATION



10

Use tension clamp pliers to release the tension clamp holding the coolant hose to the top of the water pump. With the pliers engaged, slide the clamp up the hose. Pull the hose off of the top fitting on the water pump (have a bucket ready in case more coolant is in the hose).

20

With a 10mm socket, remove the 3 bolts holding the recovery tank to the recovery tank bracket.

30

Once the recovery tank is loose, use tension clamp pliers to loosen the tension clamp securing the coolant hose to the bottom of the recovery tank. Slide the clamp up the hose and out of the way. Pull the hose off of the bottom of the recovery tank.

40

Grab the end of the coolant hose (removed disconnected in **OPERATION 10**), and carefully pull the hose to remove it from the vehicle. Guide the hose as necessary to make sure it doesn't wedge into place in the engine compartment, or damage surrounding components)

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE



SALEEN

PROCESS NAME

PAGE

REMOVE THE COOLANT HOSE
CONNECTING THE RECOVERY
TANK TO THE WATER PUMP



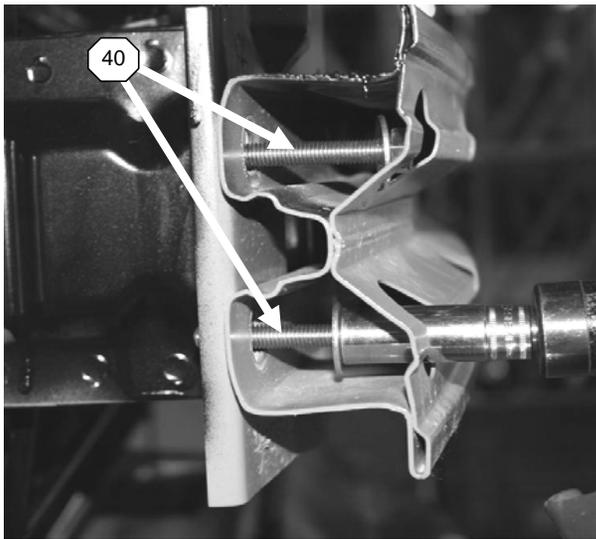
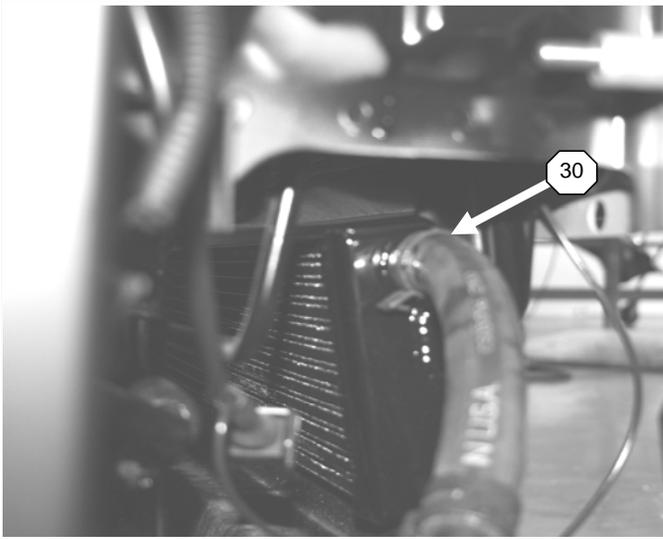
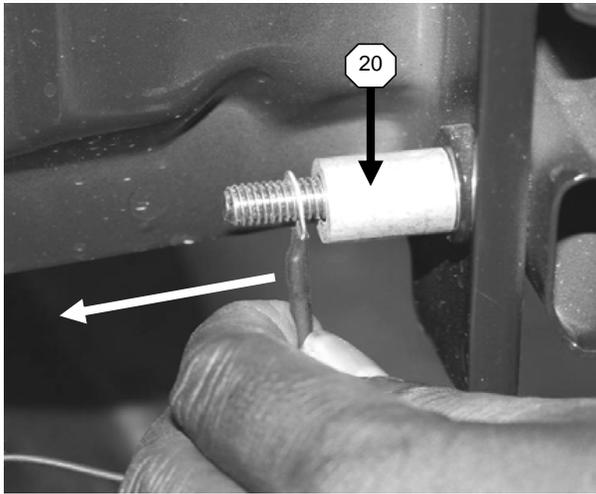
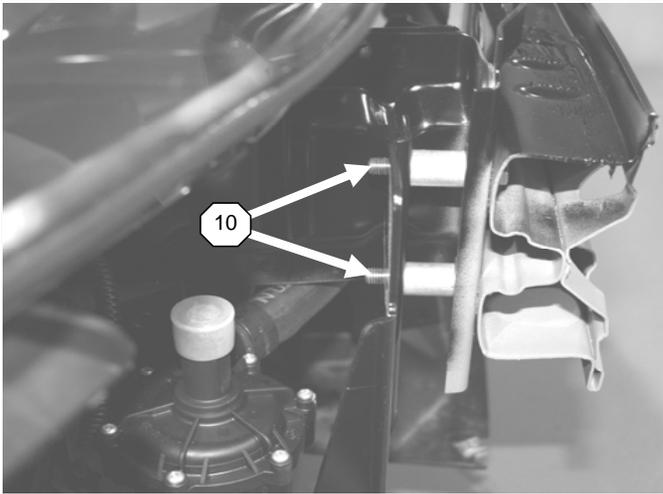
TORQUE



ITEM NUMBER



OPERATION



10

Remove the two 13mm nuts holding the water pump bracket to the front bumper.

20

Slide the water pump harness ground wire off of the water pump bracket mounting bolt. Then remove both water pump bracket spacers from the bolts.

30

Disconnect the water pump hose (connecting the water pump to the heat exchanger) from the heat exchanger. Use tension clamp pliers to release the clamp. Slide the clamp up the hose. Pull the hose off of the heat exchanger (have a bucket ready to collect any coolant left in the system).

40

Remove the 2 water pump bracket bolts with a 13mm socket. The bolt heads can be accessed through the face of the front bumper.

50

Drain the remainder of the coolant left in the water pump, and set the pump aside.

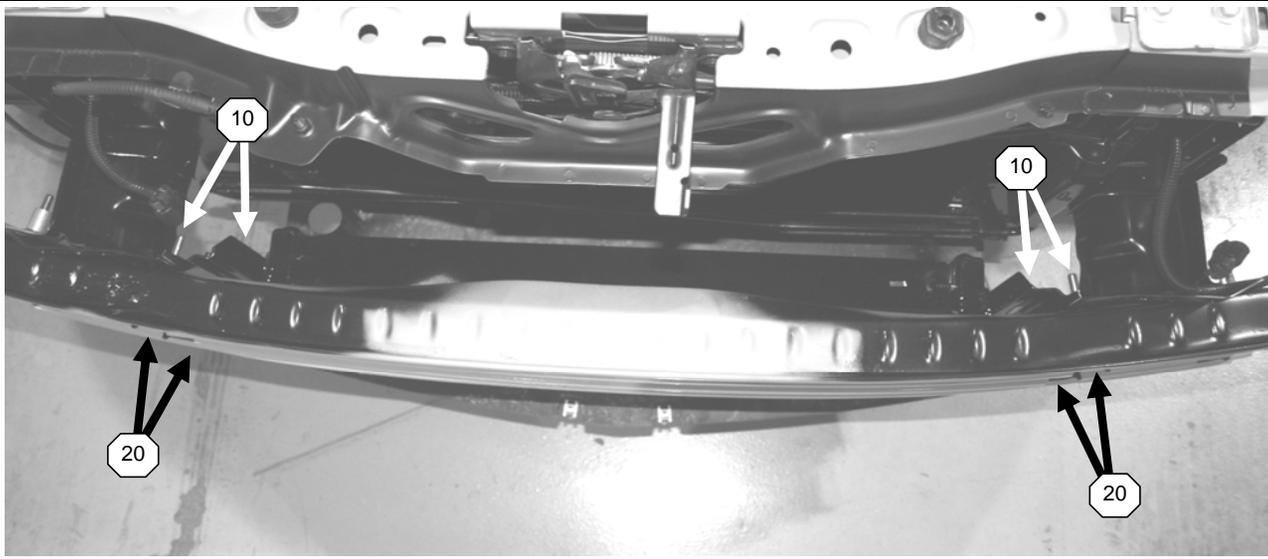
ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

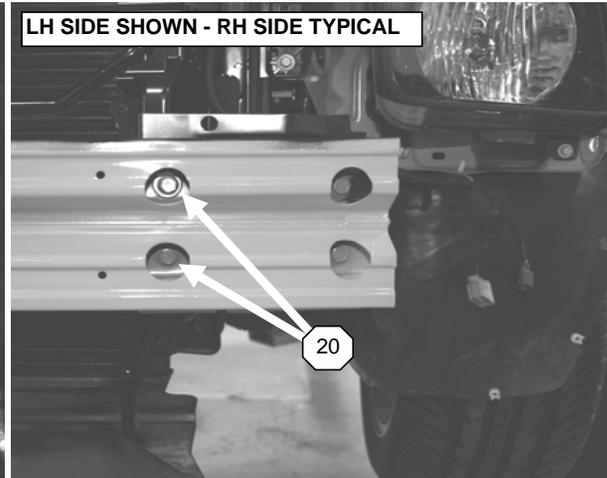
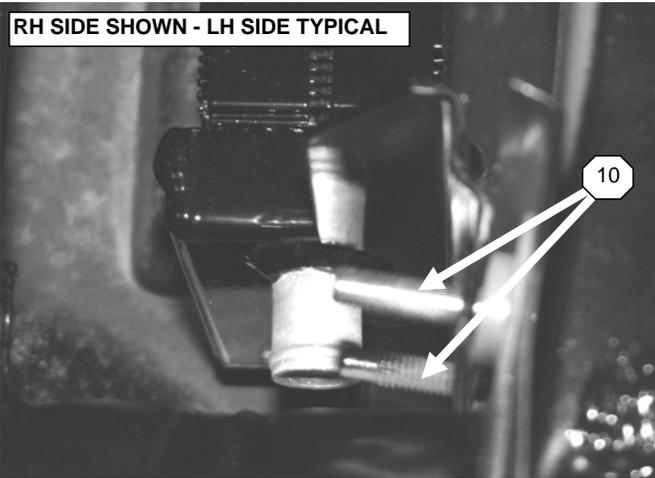
TORQUE



PROCESS NAME	PAGE
REMOVE WATER PUMP	10



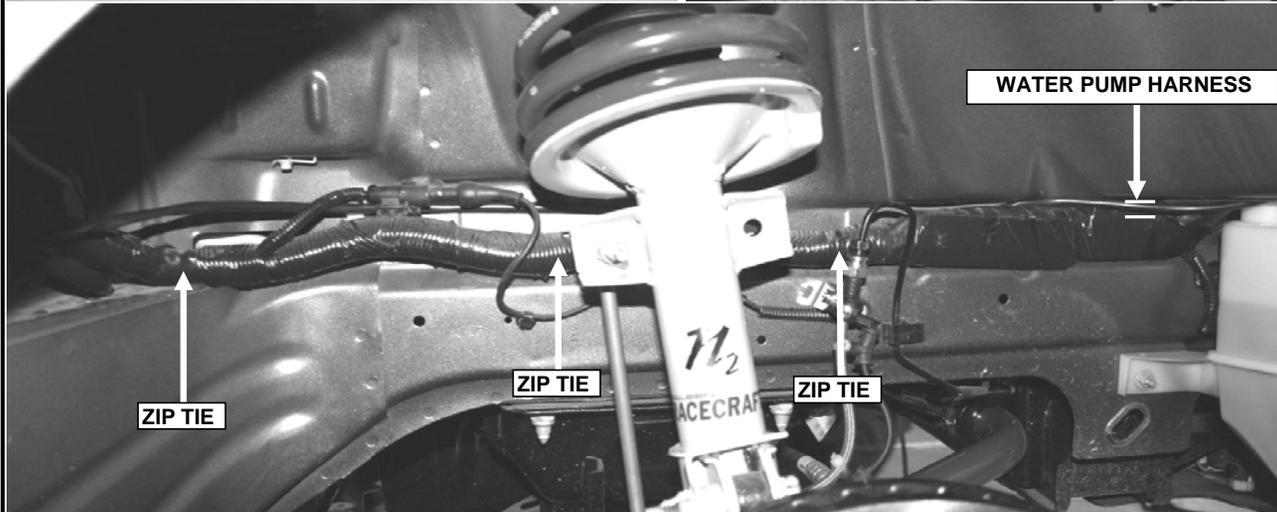
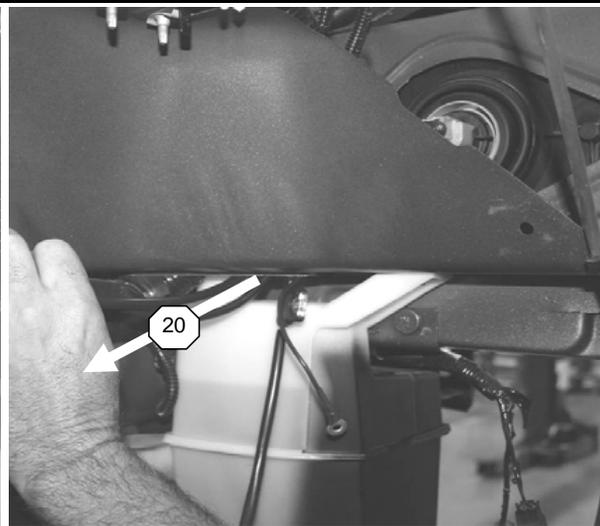
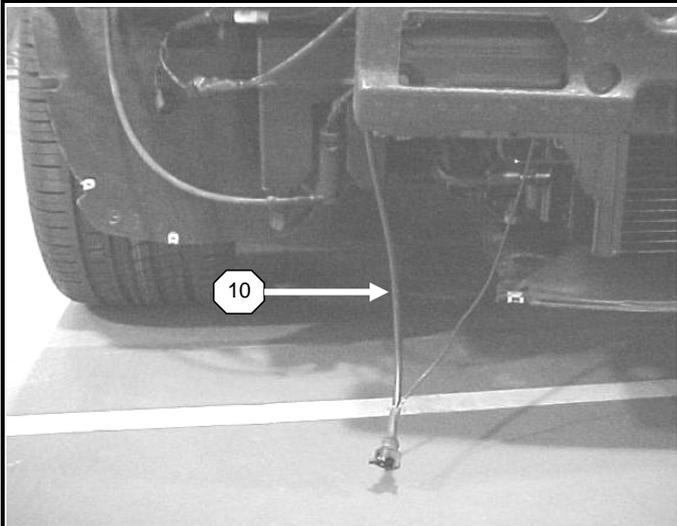
- 10 With a 13mm socket, remove the 4 nuts and 4 washers (1 nut and washer per mounting bolt) holding the heat exchanger to the backside of the front bumper.
- 20 While holding the heat exchanger, use a 13mm socket and remove the 4 bolts and washers from the center of the bumper. The bolt heads can be accessed through holes in the front of the bumper. Once the bolts are removed, the heat exchanger is free.
- 30 Remove the heat exchanger by lowering it out of the vehicle.



Notes:

ITEM	PART NUMBER	QTY.	DESCRIPTION

TORQUE			
		PROCESS NAME	PAGE
		REMOVE HEAT EXCHANGER	11



NOTICE - IF YOU HAVE A 2005 to 2006 VEHICLE:
 The following instructions are for the removal of the water pump harness on 2007 to 2009 vehicles. A different water pump system was used on 2005 to 2006 vehicles. Removal is similar to the following instruction, but there are some additional items. Refer to the bottom of this column for removal directions for the 2005 to 2006 vehicles.

- ⬡ 10 Locate the existing water pump harness.
- ⬡ 20 Begin feeding the water pump harness back into the passenger (RH) fender well.
- ⬡ 30 Once in the RH fender well, cut the zip-ties holding the water pump harness to the vehicle fender well harness. Let the harness hang for now.

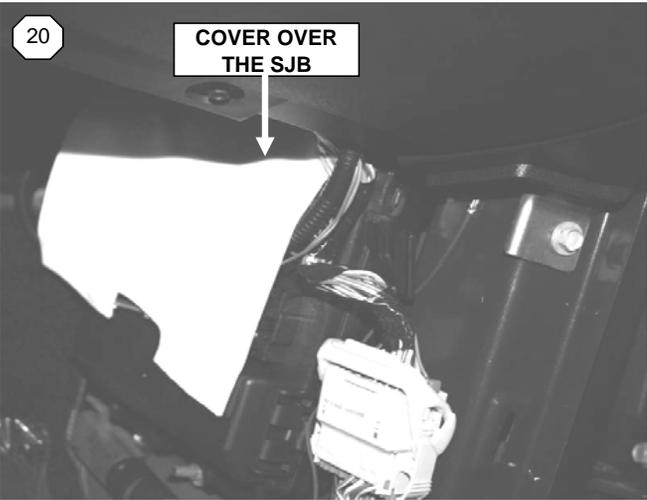
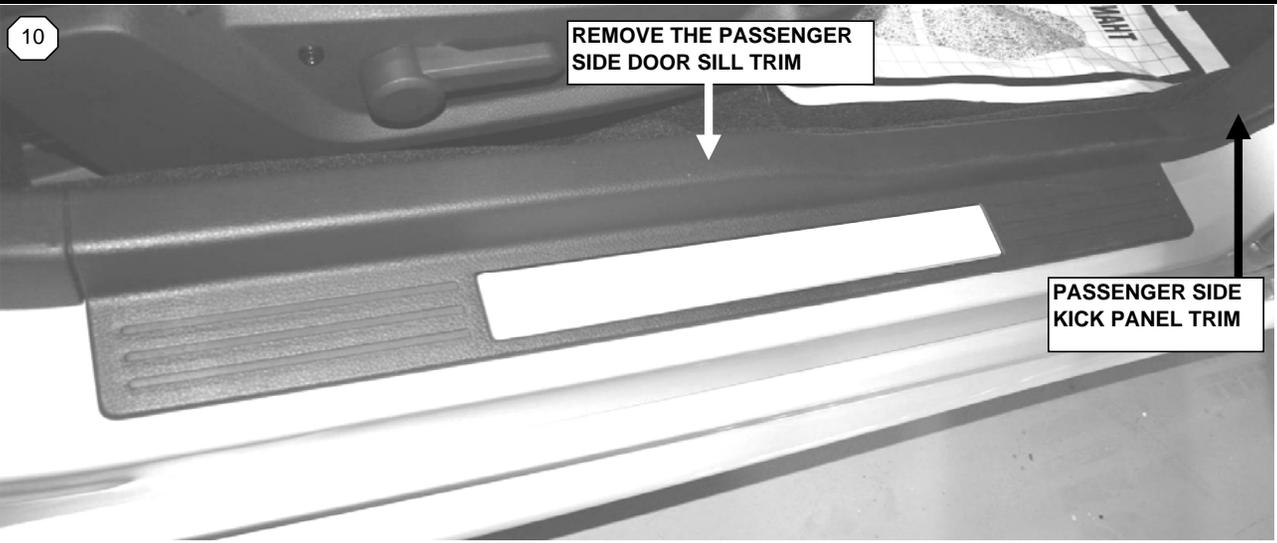
FOR 2005 to 2006 MODELS ONLY:

- * Disconnect the water pump harness from the water pump timer module mounted on top of the passenger inner fender. Remove the water pump timer module.
- * Look along the harness and locate any ring terminals (power, ground, etc...) and disconnect them from the vehicle.

NOTICE: The remaining pages (Pages 12-2 to 12-3) will be accurate for all model years.

Notes:

ITEM	PART NUMBER	QTY.	DESCRIPTION	
TORQUE				
			PROCESS NAME	PAGE
			WATER PUMP HARNESS REMOVAL	
				12-1

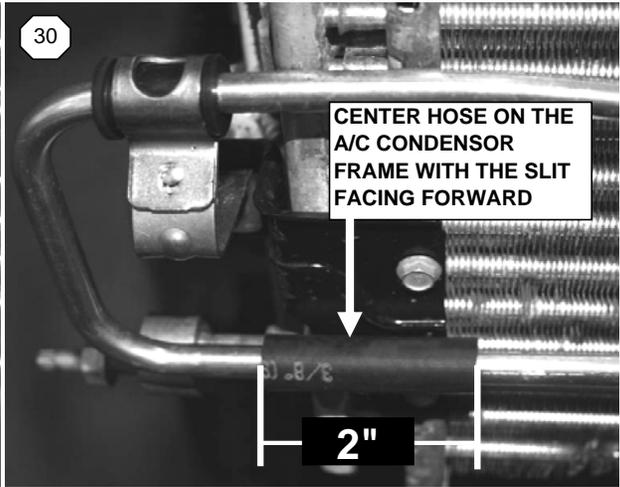
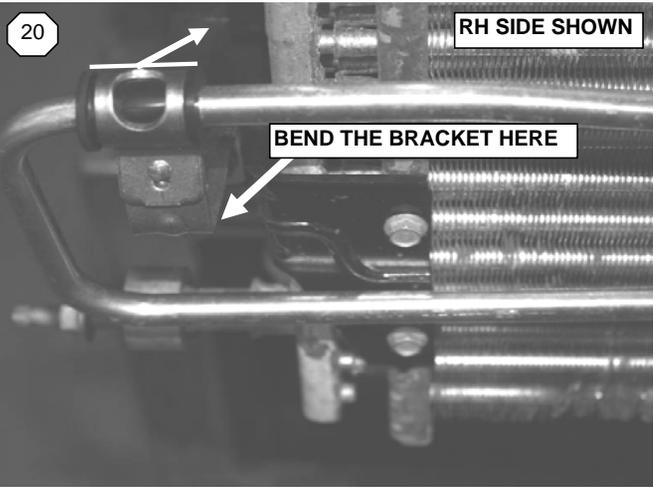
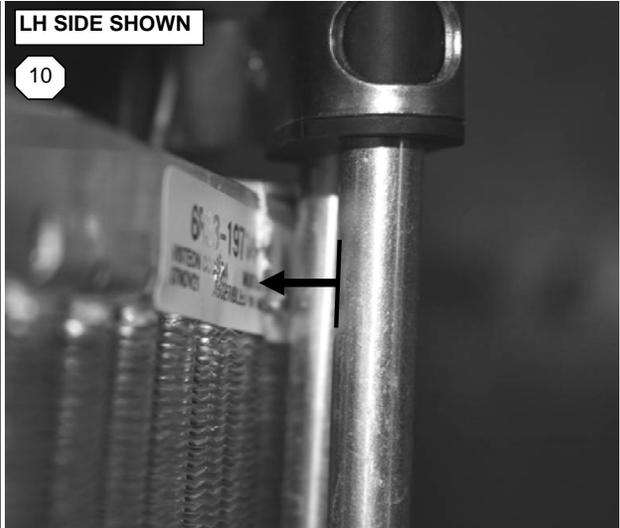
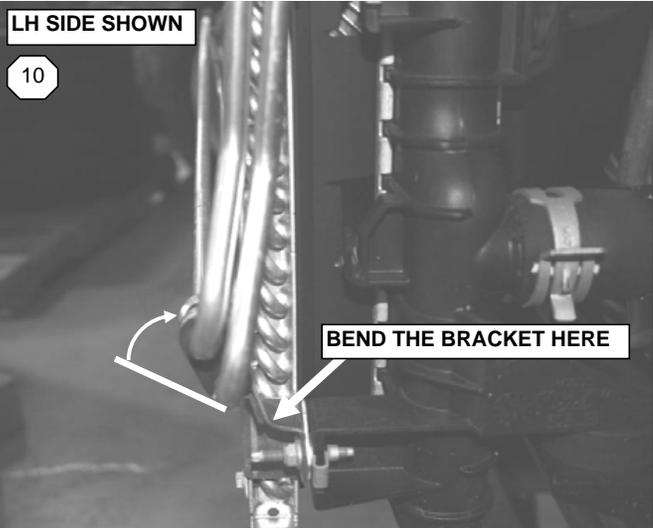


- 10 With a fiber stick, come in underneath the door sill trim and pry up until there is enough room to get a hold of the trim. Pull up on the door sill trim until it un-clips from the door sill frame. The door sill trim is held in by 4 clips.
- 20 Remove the passenger side kick panel trim by pulling directly rearward once the door sill trim is removed. This will expose the SJB panel. Lift up on the white weather cover.
- 30 Disconnect the wide SJB connector (36 pin connector) from the SJB panel by rotating the grey locking tab towards the rear of the vehicle. Once the lock is disengaged, pull the connector.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; text-align: center;">PROCESS NAME</td> <td style="width: 20%; text-align: center;">PAGE</td> </tr> <tr> <td style="text-align: center;">WATER PUMP HARNESS REMOVAL</td> <td style="text-align: center;">12-2</td> </tr> </table>	PROCESS NAME	PAGE	WATER PUMP HARNESS REMOVAL	12-2
PROCESS NAME	PAGE				
WATER PUMP HARNESS REMOVAL	12-2				



10 Start with the driver (LH) side power steering bracket. Bend the bracket upward and inward using pliers and a rubber mallet until the lines come close to the face of the A/C condenser (a .10" margin).

20 Proceed to the passenger (RH) side power steering bracket. Bend the bracket (with pliers) downward and inward. Continue bending the bracket until the top power steering line comes within .10" (margin) of the A/C condenser face.

30 The bottom power steering line at the passenger (RH) side will be making hard contact to the face of the A/C condenser. Cut a slit in the 2" section of 3/8" hose (A) provided. Slide the hose over the bottom power steering line and position so that the slit is facing forward, and the hose is centered on the frame of the A/C condenser.

NOTICE: The power steering lines must be within .10" from the A/C condenser. If the power steering lines are not positioned far enough inboard, they will contact the back of the new heat exchanger assembly (fan housing).

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9010-C07181*	2"	3/8" Vacuum Hose

Notes:

TORQUE			
		PROCESS NAME	PAGE
		MODIFY THE POWER STEERING LINE BRACKET	13



TORQUE

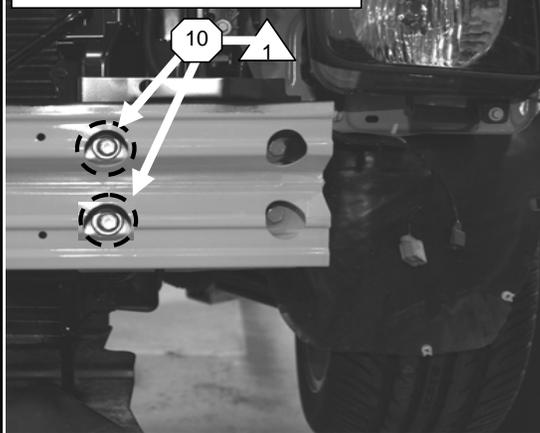


ITEM NUMBER

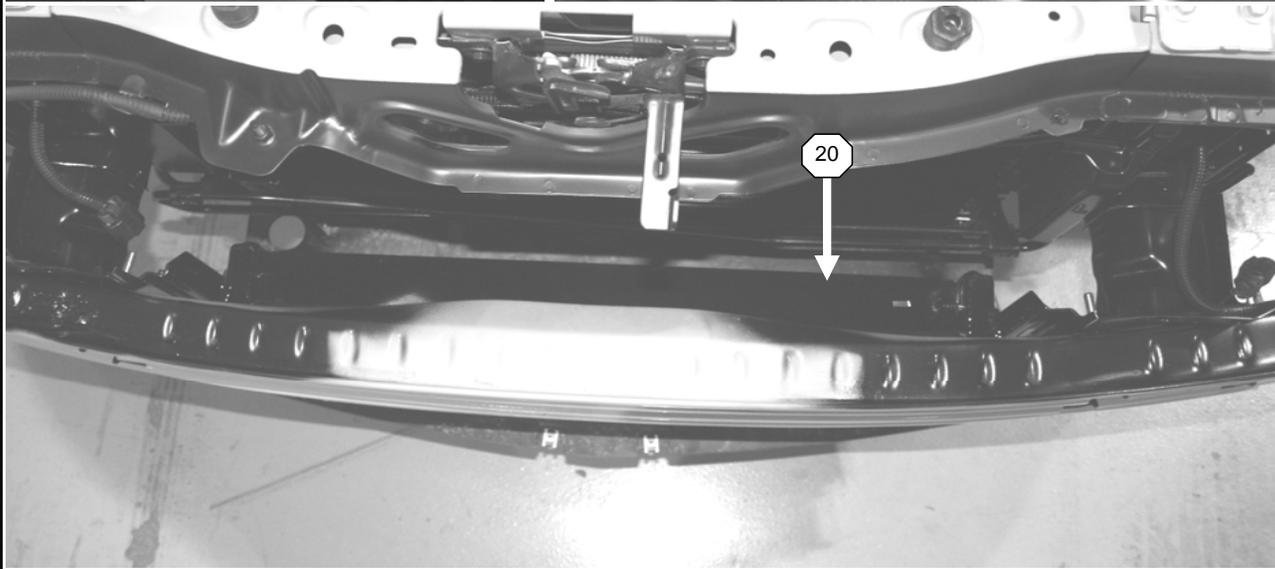
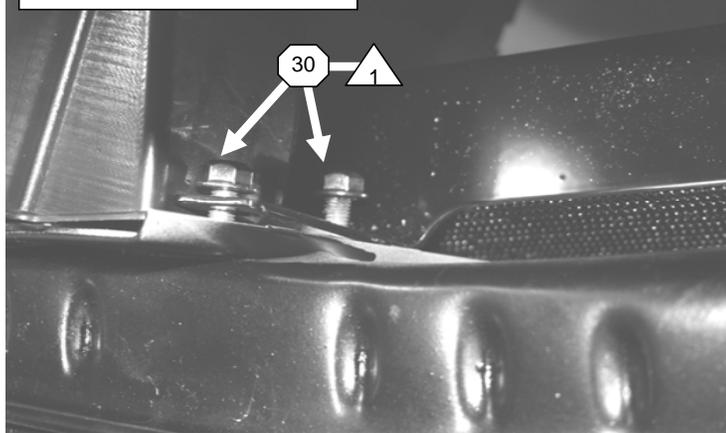


OPERATION

LH SIDE SHOWN - RH TYPICAL



RH SIDE SHOWN - LH TYPICAL



NOTICE: If the *Radiator Baffle Aftermarket Kit 10-2001-A18016* (Sold Separately)* was ordered as well, Consult that kit's instruction manual. This would be the ideal time to begin that installation before installing the new heat exchanger.

10 Install four bolts (A), (2 per side), into the now open holes in the bumper mount on each side (areas where bolts were removed on **Page 11**). Tighten each bolt with a torque wrench to **18 Lb-ft +/- 2.7 Lb-ft**.

20 Slide the heat exchanger (B) (with the brackets pointed up) over the four bolts just installed in **OPERATION 10**. It is easier to feed the heat exchanger from the bottom of the bumper.

30 Install the four nuts (C) onto the bolts installed in **OPERATION 20**. Torque each nut to **18 Lb-ft +/- 2.7Lb-ft**.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9001-C13581*	4	Bolt M8x1.25mm 30mm CL 8.8 Zn
B	06-2001-B17701	1	Heat Exchanger Assy w/ Fans
C	00-9003-C17773*	4	Nut M8 X 1.25 Dist. Thrd Locknut

Notes:

TORQUE

1 18 +/- 2.7 Lb-ft



PROCESS NAME
INSTALL THE HEAT EXCHANGER

PAGE



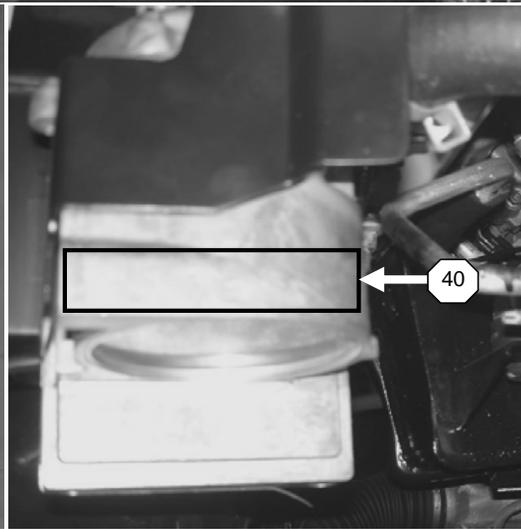
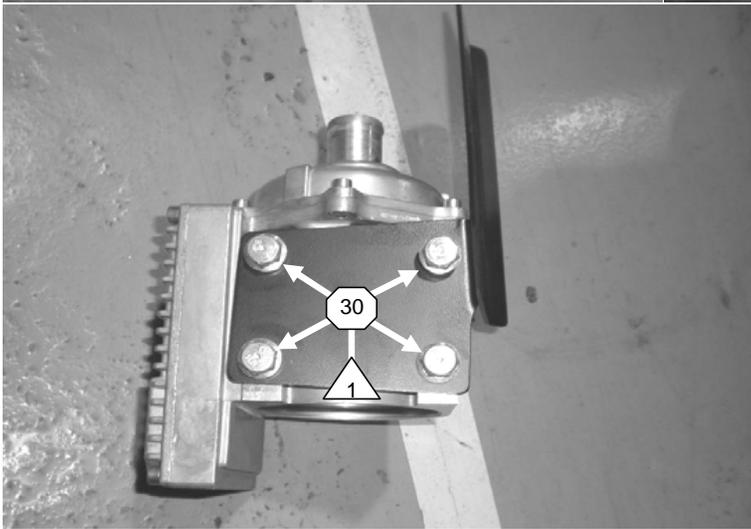
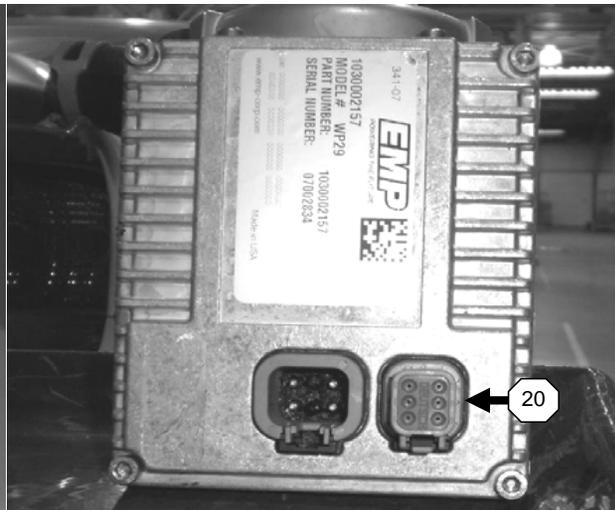
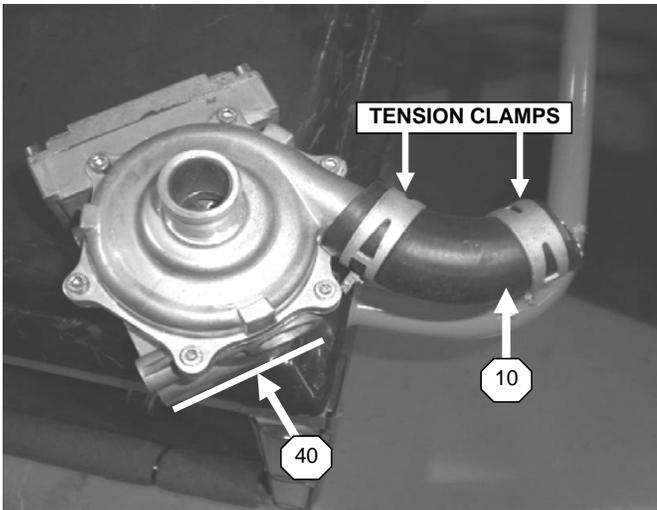
TORQUE



ITEM NUMBER



OPERATION



10

Retrieve the short coolant hose (A), and slide the small section of hose onto the water pump (B) (Make sure the hose is oriented as shown). Once the hose is seated, use tension clamp pliers to position one hose clamp (C) so that it fully clamps the hose onto the water pump fitting. Insert another tension clamp (C) on the open end of the hose.

20

Install the dummy plug (D) into the water pump controller to plug the programming port.

30

Install the water pump bracket (E) onto the water pump with 4 bolts (F). With a torque wrench, tighten the bolts to **18 Lb-ft +/- 2.7 Lb-ft**.

40

With an alcohol wipe, wipe the portion of the water pump that faces towards the front of the vehicle (opposite the pump controller). Wipe the pump housing itself, below the mounting bracket. Retrieve the neoprene pad (G) and peel off the protective backing. Stick the pad in the area highlighted.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	06-2003-C17742	1	Molded Rad Hose 1" ID Mod
B	00-2002-C17640*	1	IC Water Pump S302E / H302SC
C	00-2003-C17638*	2	Hose Clamp 34mmConstant Tension
D	00-1704-C13571*	1	Connector Deutsch 6 SCKT
E	06-2002-C17601	1	Bracket IC WP S302E / H302SC
F	06-9001-C12799	4	Capscrw Hex HD NYLOC M8x1.25x20
G	00-2002-C17969*	1	Neopr. Rbr Adhsv Bkd 60A Durometer

TORQUE

1

18 +/- 2.7 Lb-ft



PROCESS NAME

PAGE

INSTALL THE WATER PUMP

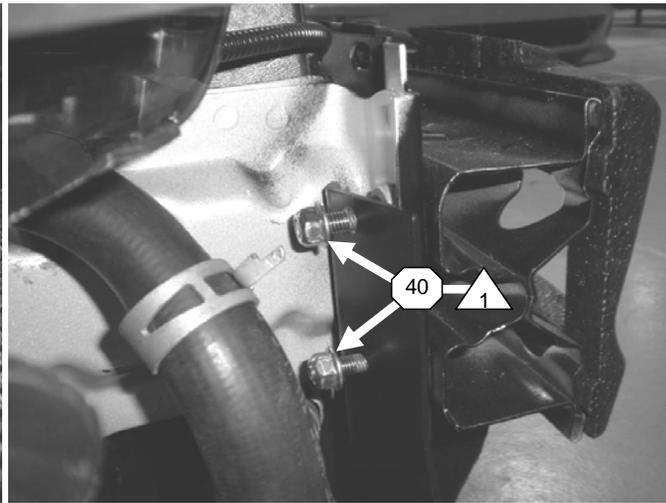
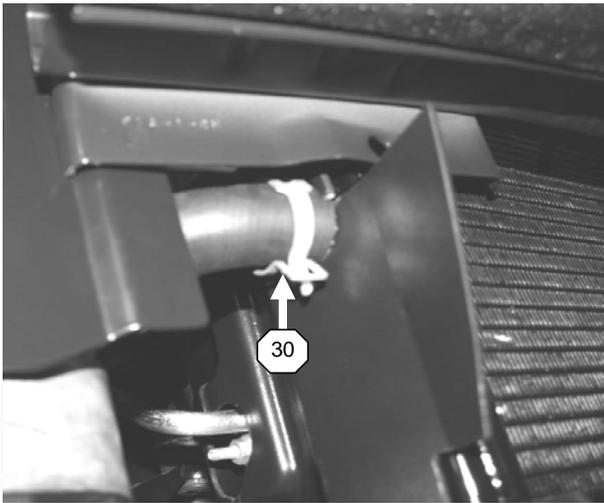
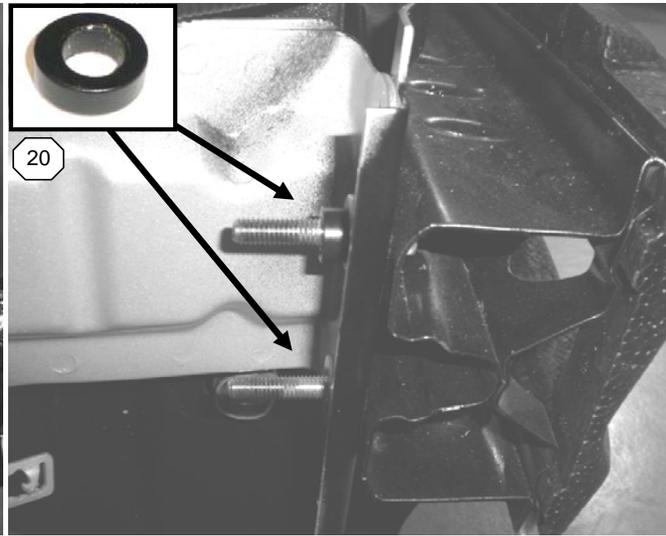
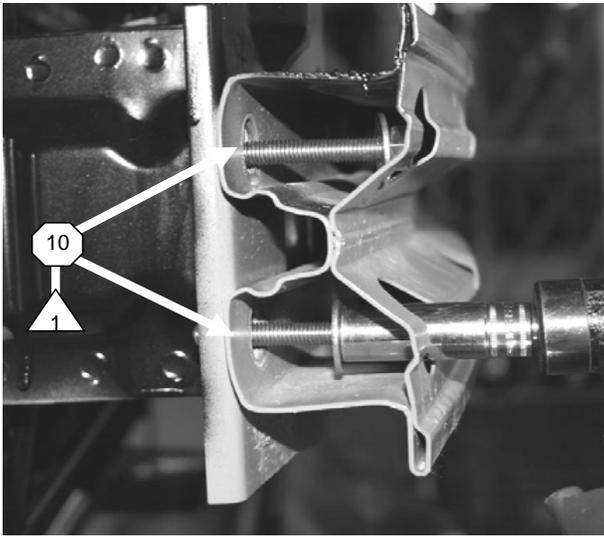
Notes:

 TORQUE

 ?

ITEM NUMBER

 OPERATION



 10 Install two 13mm bolt (A) into the bumper where the two previous water pump mounting bolts were removed (Page 10). With a torque wrench, tighten each bolt to **18 Lb-ft +/- 2.7 Lb-ft.**

 20 Slide two spacers (B) (1 per bolt) over the bolts installed in **OPERATION 10.**

 30 Retrieve the intercooler water pump assembly (built on Page 15-1). Attach the open end of the hose from the water pump onto the heat exchanger (with the one attached clamp). Once the hose is seated, use tension clamp pliers to position the hose clamp so that it fully clamps the hose onto the heat exchanger fitting.

 40 Slide the water pump mounting bracket over the bolts protruding from the back of the bumper (make sure the spacers are still in place). Once the mounting bracket is in place, install two 13mm nuts (C). With a torque wrench, tighten each nut to **18 Lb-ft +/- 2.7 Lb-ft.**

NOTICE: Picture 30 shows a plastic deflector between the water pump hose and the heat exchanger. This air deflector belongs to a **(Radiator Baffle Aftermarket Kit 10-2001-A18016* (Sold Separately))**. If this kit was not purchased, that piece will not be there.

ITEM	PART NUMBER	QTY.	DESCRIPTION
 A	00-9001-C10665*	2	Capscrw Hex M8x1.25mm 40mm
 B	06-2002-C17966	2	Spacer, Water Pump Bracket
 C	00-9003-C17773*	2	Nut M8 X 1.25 Dist. Thread Locknut

Notes:

TORQUE		
 1	18 +/- 2.7 Lb-ft	
PROCESS NAME		PAGE
INSTALL THE WATER PUMP		15-2



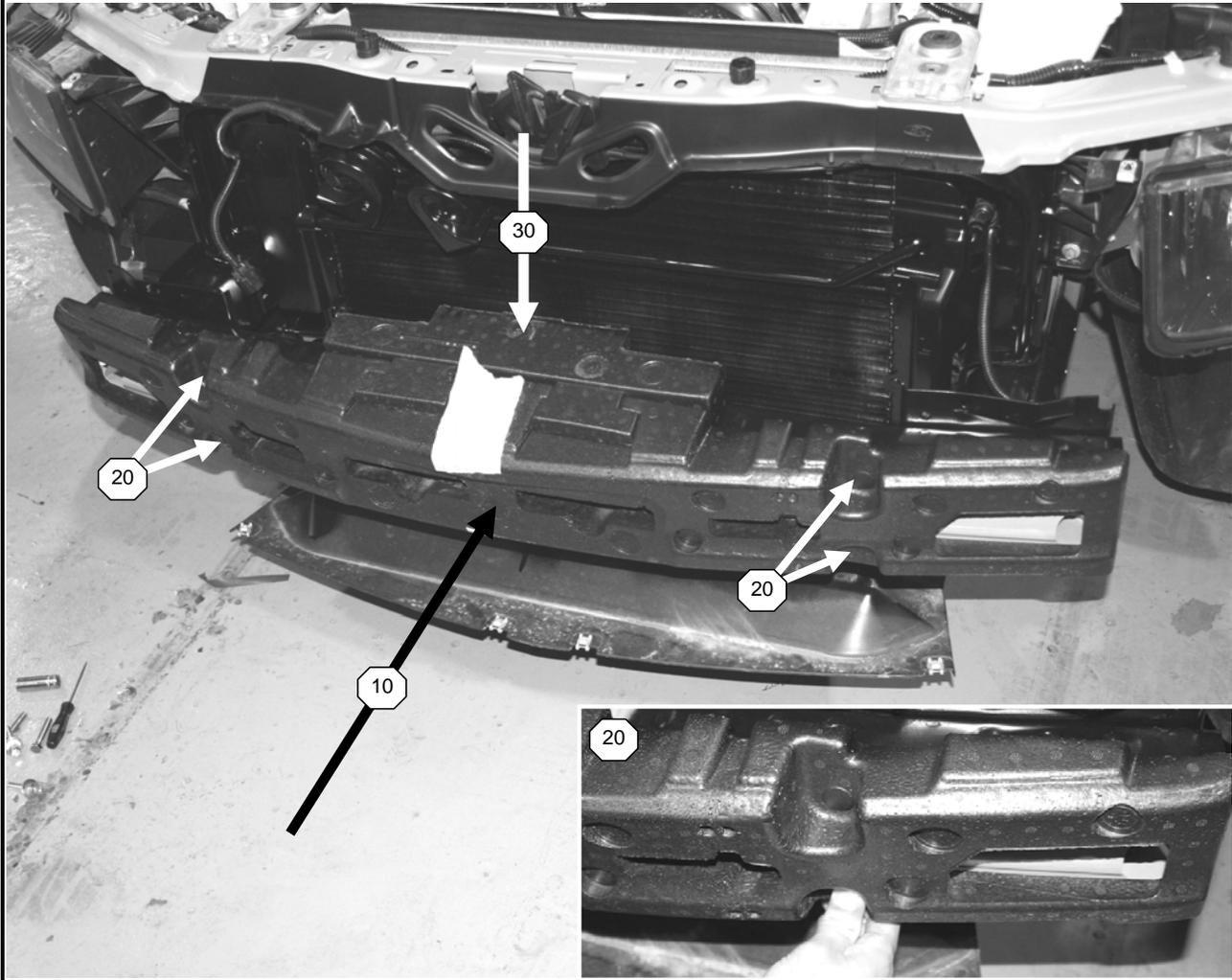
TORQUE



ITEM NUMBER



OPERATION



10

Re-install the main bumper upper isolator. Insert the foam studs on the back of the isolator through the holes in the front of the bumper to line up the isolator.

20

Re-install the 4 push pins through the isolator and into the front bumper.

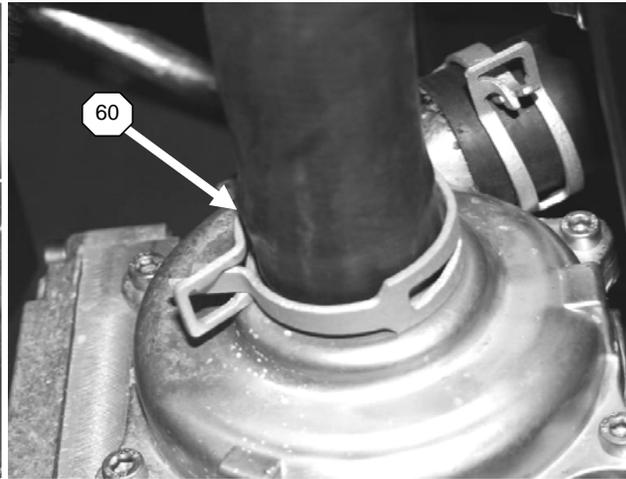
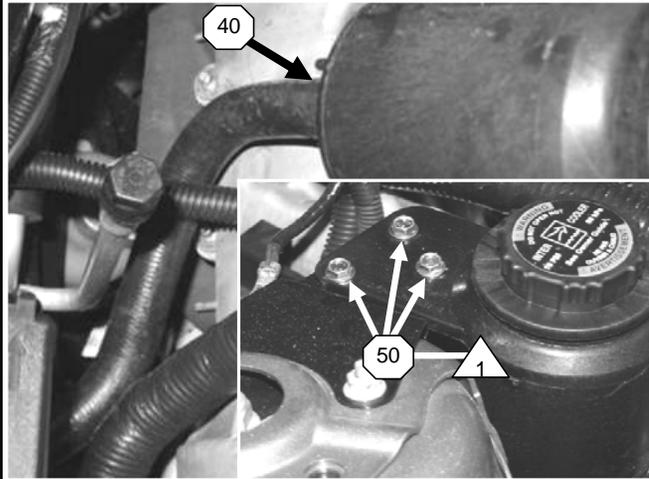
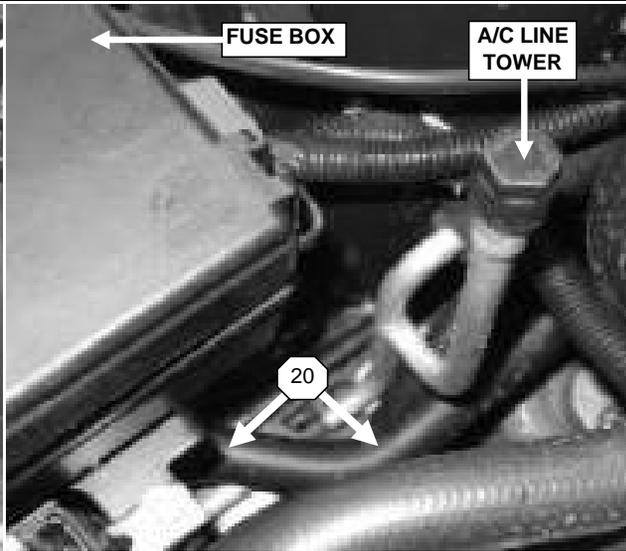
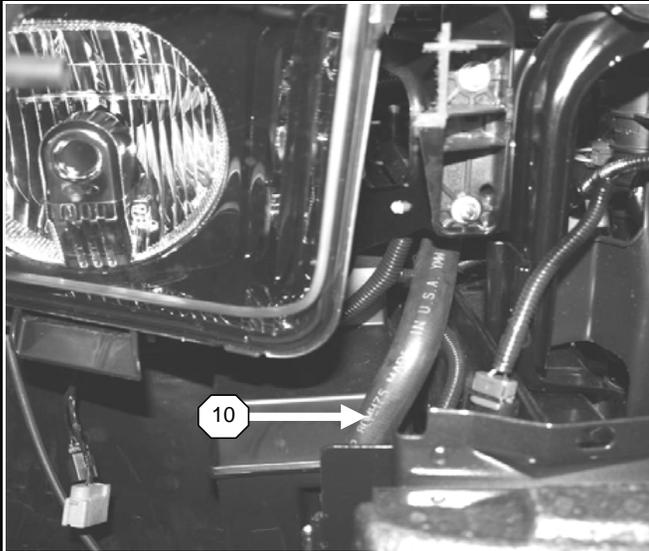
30

Set the top isolator into place. The tabs of the top isolator will lock into the main isolator as shown.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		INSTALL FRONT BUMPER ISOLATOR	16



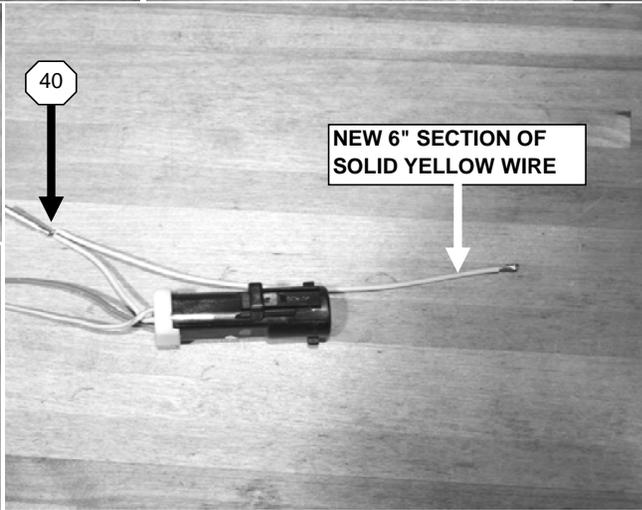
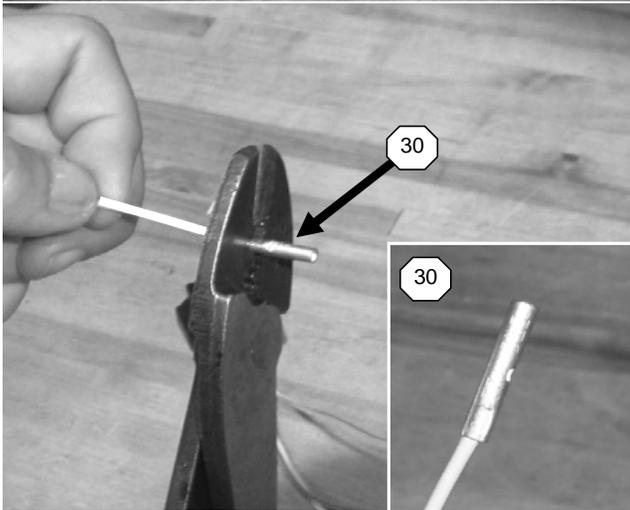
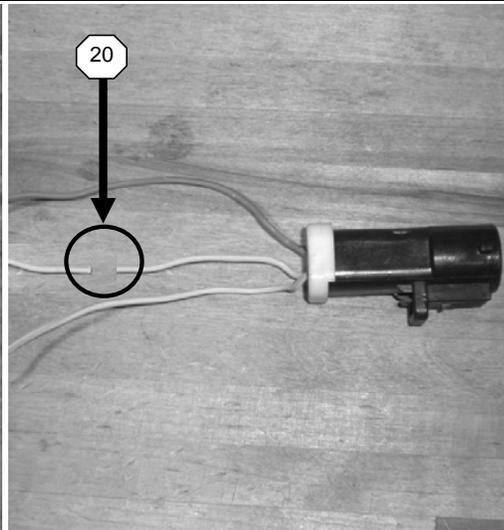
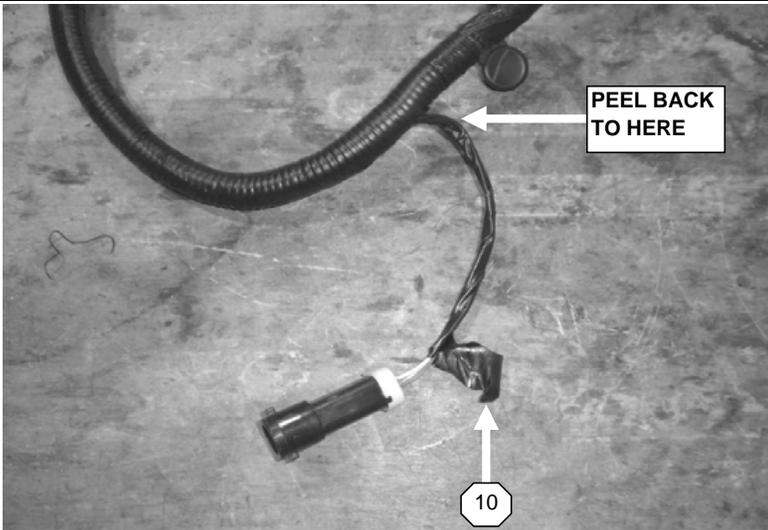
NOTICE: This coolant hose will be routed the exact same way as the hose that was removed on Page 9.

- 10 Route the water pump to recovery tank hose (A) underneath the passenger (RH) fascia support bracket, and over the frame rail.
- 20 Continue routing the hose underneath the fuse box. The end of the hose should stick up in the air just behind the A/C line tower.
- 30 Remove the black tension clamp from the old intercooler hose (removed on Page 9), and slide it over the end of the hose in the engine compartment.
- 40 Insert the bottom fitting of the recovery tank into the coolant hose. Once the hose is seated, use tension clamp pliers to position the hose clamp so that it fully clamps the hose onto the recovery tank fitting.
- 50 Position the recovery tank over the recovery tank mounting bracket. Re-install the three bolts with a 10mm socket. With a torque wrench, tighten each bolt to **72 Lb-in +/- 10.8 Lb-in**.
- 60 Slide the tension clamp (B) over the end of the hose above the water pump. Slide the hose over the top water pump fitting. Once the hose is seated, use tension clamp pliers to position the hose clamp so that it fully clamps the hose onto the water pump fitting.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	06-2003-C17607	1	Molded Hose IC Tank - WP 3/4" TO 1"
B	00-2003-C17638*	1	Hose Clamp 34mmConstant Tension

Notes:

TORQUE			
△	72 +/- 10.8 Lb-in	PROCESS NAME INSTALL THE COOLANT HOSE CONNECTING THE RECOVERY TANK TO THE WATER PUMP	
		PAGE 17	



- 10 Retrieve the alternator harness (removed on **Page 5**). Locate the electrical connector that plugs into the main engine harness (it is a little less than half way down the harness). Once found, peel the electrical tape back several inches.
 - 20 Pick out the solid yellow wire. Locate an existing splice on the solid yellow wire. Cut the solid yellow wire between the existing splice and the main harness. Strip both ends of the cut with wire strippers.
- NOTICE:** There is also a yellow wire with a blue stripe (tracer). **Make sure you are cutting the solid yellow wire, and not the yellow wire with the blue stripe.**
- 30 Slide a piece of heat shrink (**A**) onto one of the cut wires. Then Insert the butt splice (**B**) over the stripped, cut wire on the harness side (not the connector side wire). With crimpers, crimp the splice onto the wire. Make sure the splice is tight and fully seated.
 - 40 Retrieve the 6" yellow wire section (**C**) and strip both ends. Twist the one end of the 6" wire together with the cut and stripped wire from the connector. Insert both wires into the other end of the splice (remaining open end). With crimpers, crimp the splice onto the wires. Make sure the splice is tight and fully seated.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-1704-C06300*	1.5"	Heat Shrink Dual Wall 1/8" BLK
B	00-1704-C09260*	1	18 Gauge Seamless Butt Splice
C	00-1704-C09382*	6"	Wire 20 AWG Yellow

Notes:

TORQUE			
		PROCESS NAME	PAGE
		MODIFY ALTERNATOR HARNESS	18-1



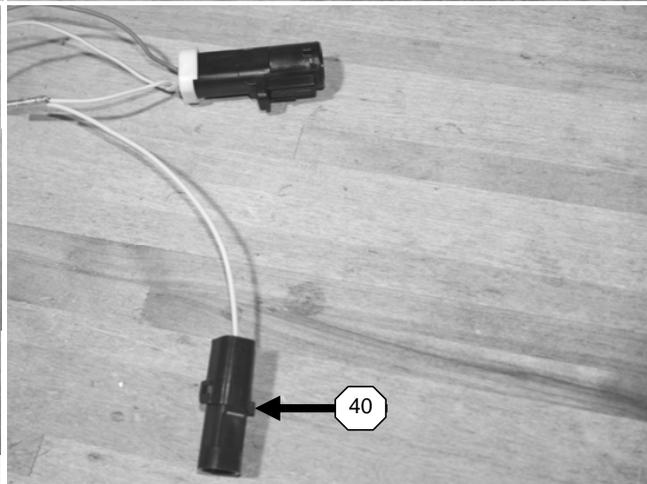
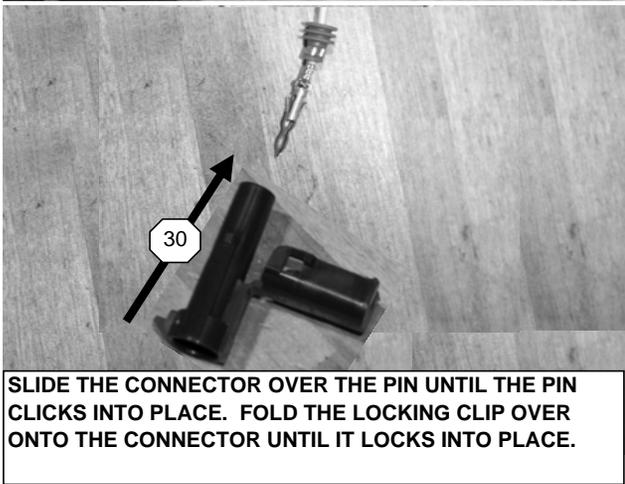
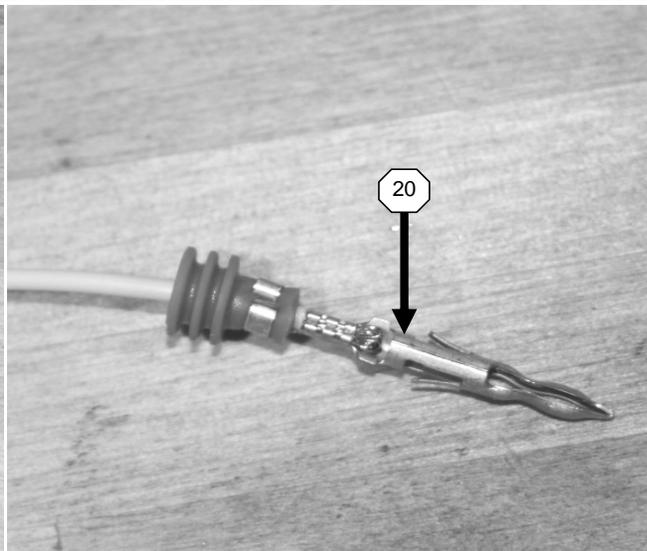
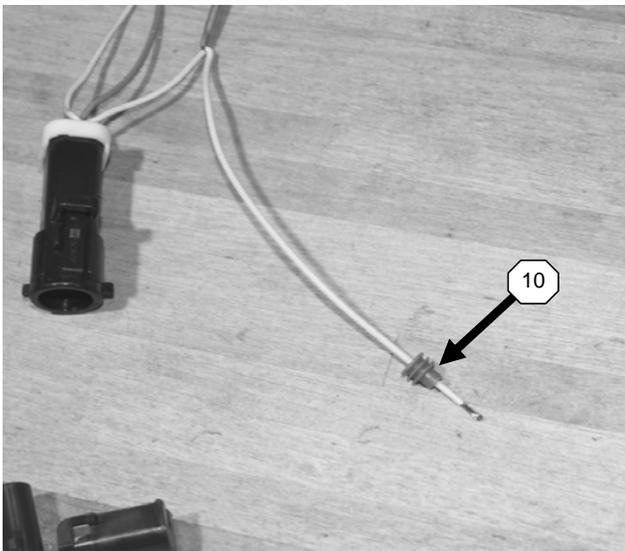
TORQUE



ITEM NUMBER



OPERATION



SLIDE THE CONNECTOR OVER THE PIN UNTIL THE PIN CLICKS INTO PLACE. FOLD THE LOCKING CLIP OVER ONTO THE CONNECTOR UNTIL IT LOCKS INTO PLACE.

- 10 Slide the cable seal (A) over the end of the yellow wire as shown. The ribs of the cable seal will need to point away from the end of the wire.
- 20 Slide the pin (B) over the end of the wire. With a special crimping tool, fold over the small tabs of the pin into the exposed copper of the wire. Slide the cable seal into the large tabs of the pin, and then fold the tabs into the cable seal to lock the cable seal into place.
- 30 Slide the small barrel connector (C) onto the pin. Push the wire through the connector until the pin clicks into place. Make sure the pin is fully engaged in the connector before continuing.
- 40 Fold the locking clip on the connector over the connector housing until it snaps into place.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-1704-C13199*	1	Cable Seal, Packard Weather Tan
B	00-1704-C13196*	1	Contact, Packard 18-20 AWG Pin
C	00-1704-C12919*	1	Connector, Packard 1 Pin Receptacle

Notes:

TORQUE



PROCESS NAME	PAGE
MODIFY ALTERNATOR HARNESS	18-2



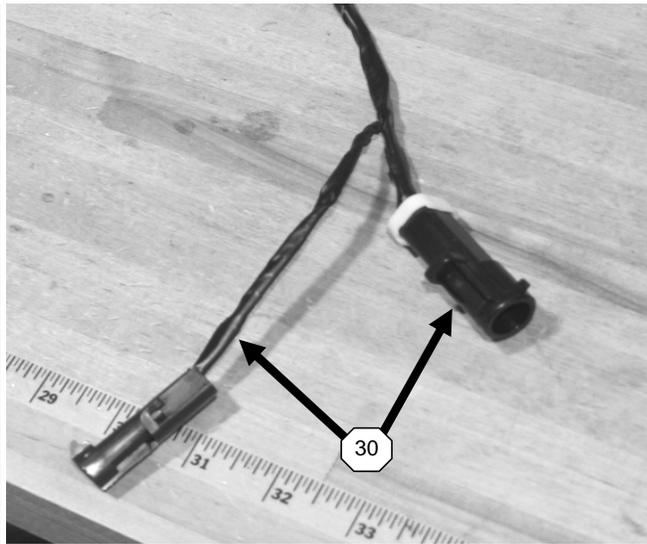
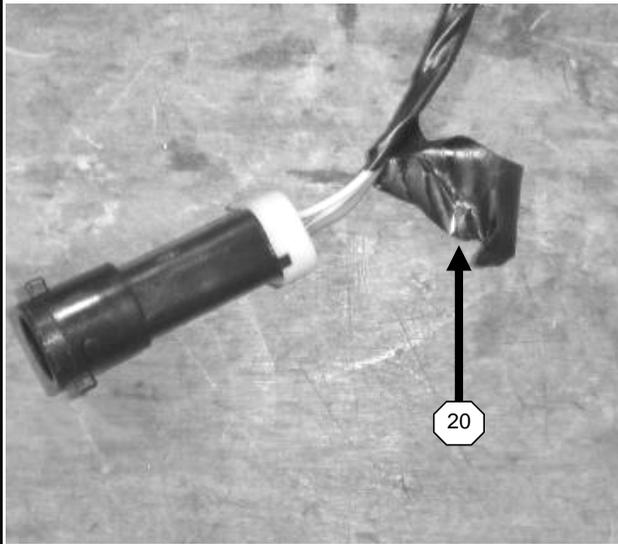
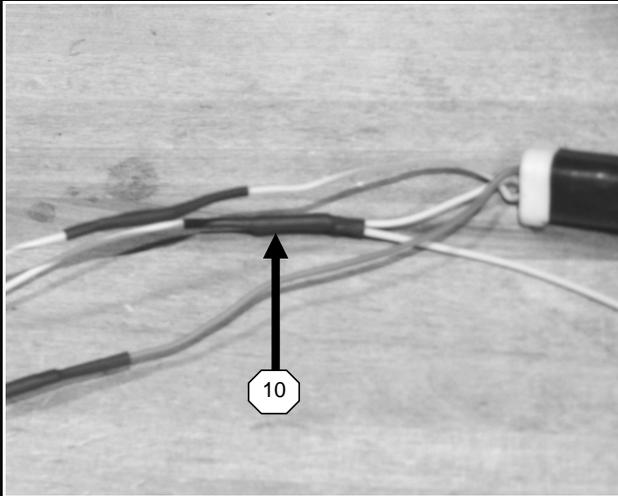
TORQUE

?

ITEM NUMBER



OPERATION



10

Slide the heat shrink (slid onto the yellow wire on **Page 18-1**) over the splice and apply heat to seal.

20

Once the heat shrink is applied, wrap the wires in electrical tape. Start wrapping wires from each connector, and continue wrapping the wires up to the main harness.

30

Once finished, the wires should appear as shown.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

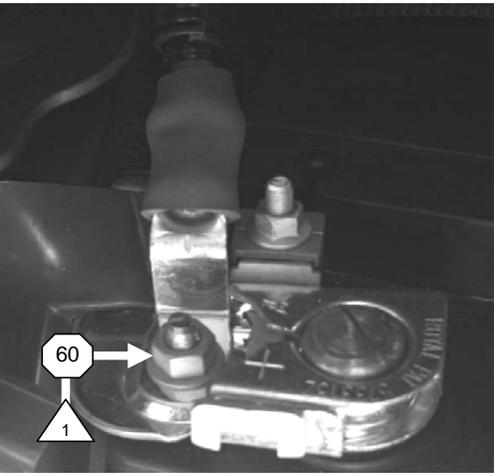
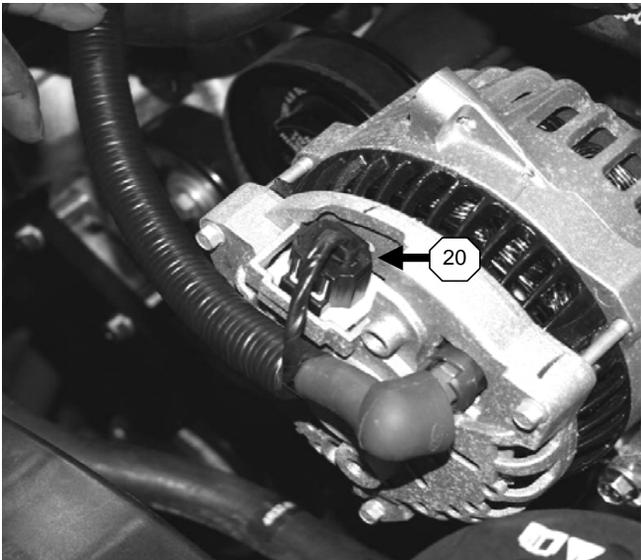
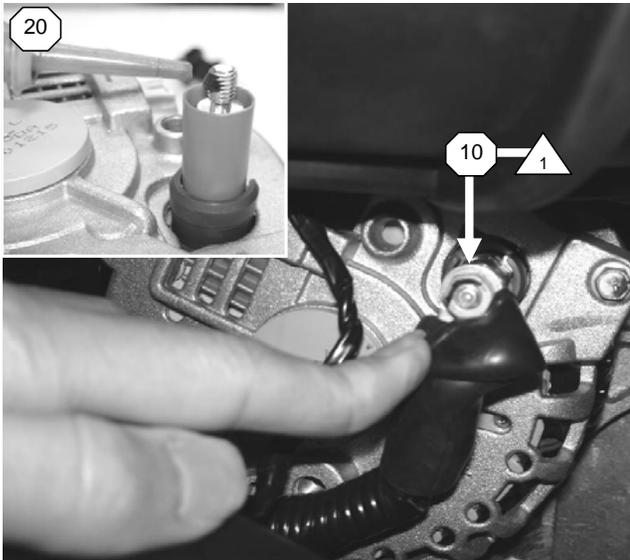
TORQUE



SALEEN

PROCESS NAME
MODIFY ALTERNATOR HARNESS

PAGE



10 Apply a dab of red Loctite onto the threaded end of the alternator stand-off. Then slip the ring terminal end of the alternator harness (that is covered by a grey boot) over the end of the stand-off. Re-install the alternator stand-off nut and with a torque wrench, torque the nut to **71 Lb-in +/- 10.6 Lb-in.**

20 Place the grey boot of the alternator harness over the stand-off and plug in the electrical connector into the top of the alternator. Make sure the connector is fully engaged.

NOTICE: If the vehicle is not equipped with an alternator stand-off (Saleen factory equipment on later model year vehicles), attach the ring terminal directly to the alternator.

30 Clip the rest of the alternator harness into place. The 2 forward-most retaining clips get pressed onto the fuel rail stud bolts, and the last retainer (tree clip) gets clipped into a sheet metal tab protruding from the bulkhead.

40 **IF VEHICLE IS EQUIPPED WITH A GAUGE POD:** Using 3 zip ties (A), re-fasten the gauge pod harness to the alternator harness.

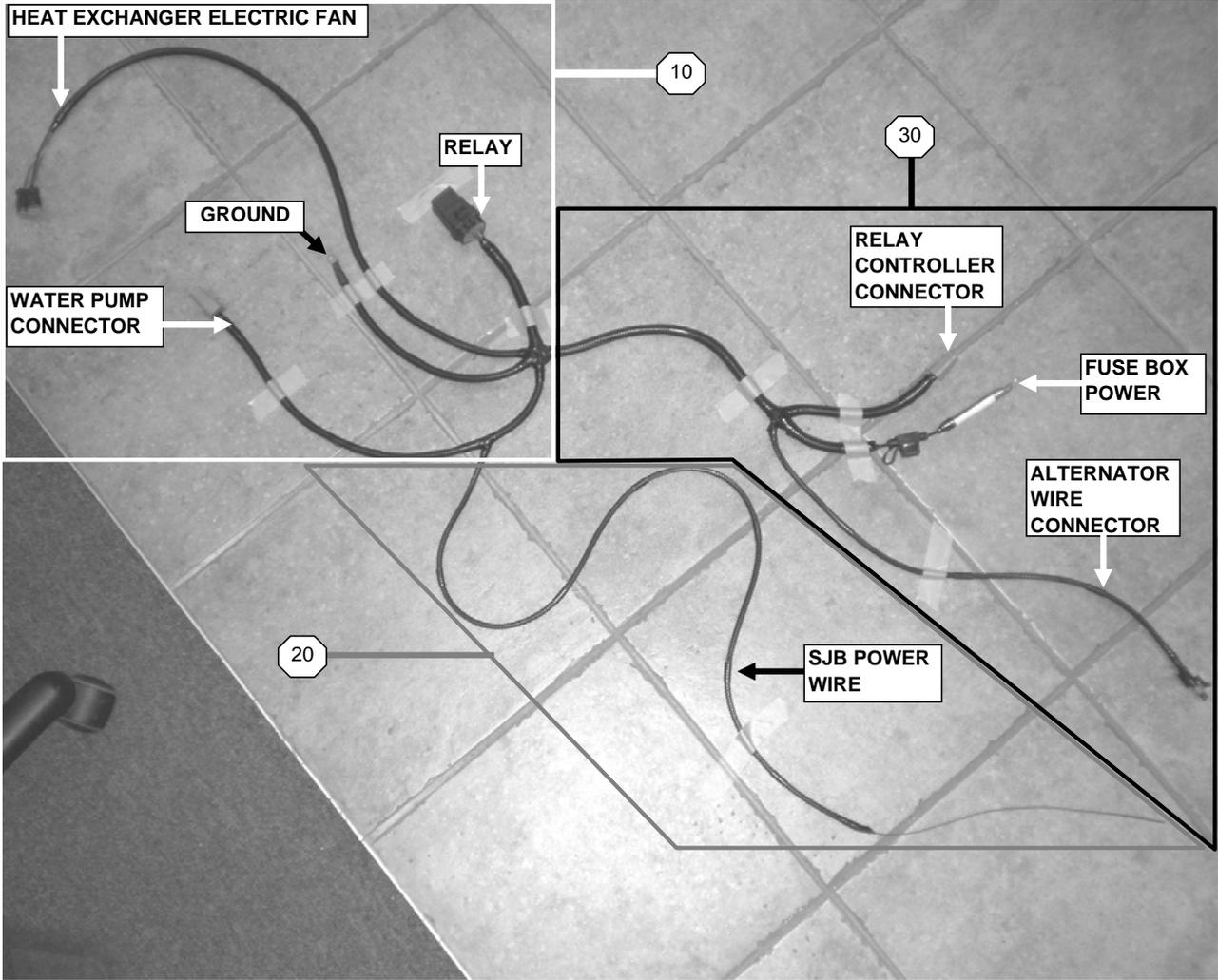
50 Connect the alternator harness signal wire connector into the main engine harness. Make sure the connector is fully engaged.

60 Connect the end of the alternator harness to the positive battery cable clamp. Slip the ring terminal over the stud on the clamp, and re-install the nut. With a torque wrench, tighten the nut to **71 Lb-in +/- 10.6 Lb-in.**

NOTICE: The connector added to the alternator harness on Pages 18-1 to 18-3 will be connected to the new fan harness when installed.

Notes:

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9007-C10122*	3	7" Cable Zip Tie
TORQUE			
1	71 +/- 10.6 Lb-in		
			SALEEN
			PROCESS NAME
			PAGE
			INSTALL ALTERNATOR HARNESS
			19



NOTICE: Due to the complexity of the intercooler fan harness (A), Page 20-1 is an overview to describe the layout of the harness. Routing and installation will begin on Page 20-2.

10 This section of the harness of the harness is forward of the PCM module and behind the passenger head lamp...

- Water pump con. --** plugs into water pump
- Heat exc. con. --** Runs down the passenger side of the A/C condensor
- Relay --** Fastens to the front of the PCM bracket
- Ground --** Fastens to top of core support

20 This section of the harness contains the SJB power wire...

- SJB power --** Runs along the passenger fender through a grommet in the bulkhead

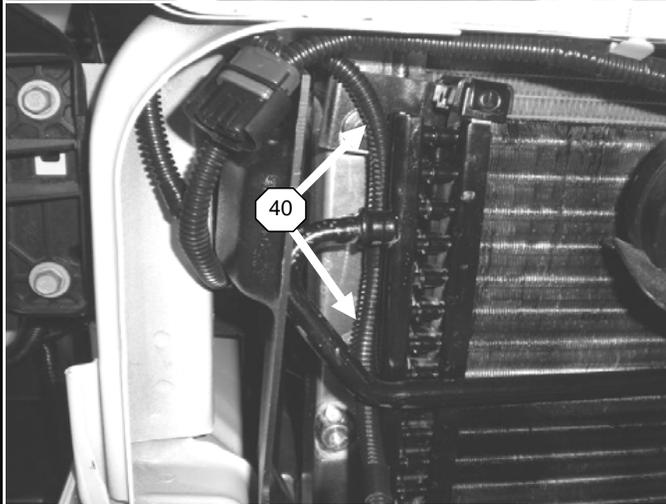
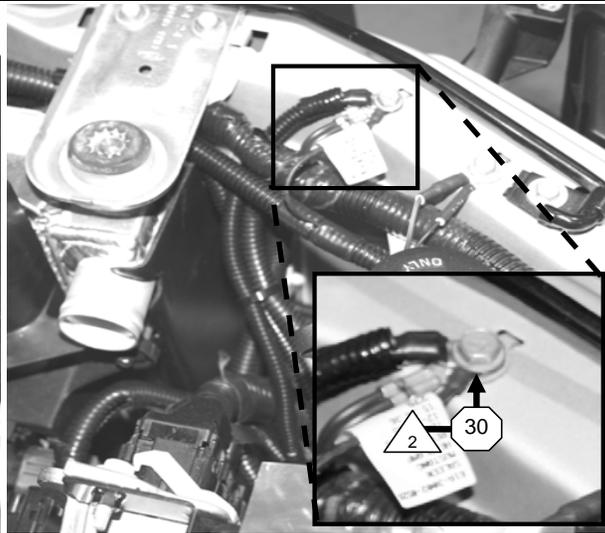
30 This section of the harness runs under the fuse box to the top of the inner fender, fuse box, and alternator wire...

- Relay controller con. --** Runs to the top of the pass. Inner fender to connect to a controller
- Fuse box power --** Back of fuse box
- Alt. wire con. --** To alternator harness

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	06-1704-B17792	1	Harness, Fan-Water Pump, 302SC

Notes:

TORQUE			
		PROCESS NAME	PAGE
		ROUTE & INSTALL INTERCOOLER FAN HARNESS	20-1



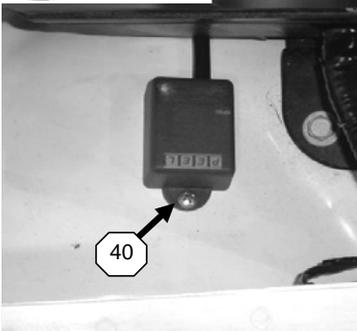
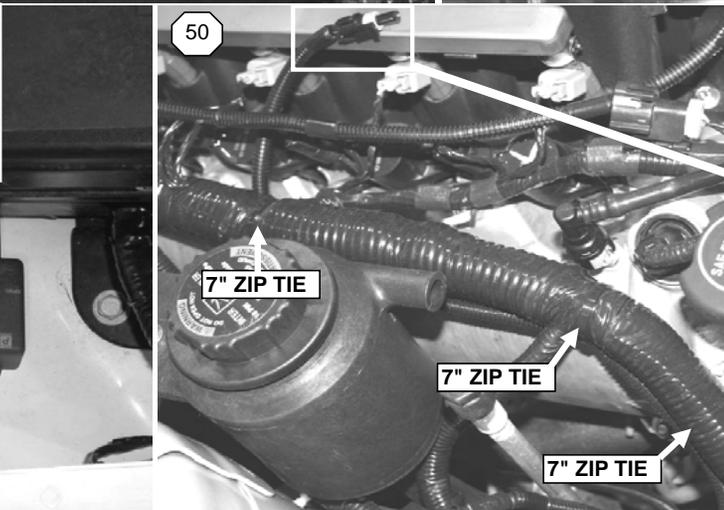
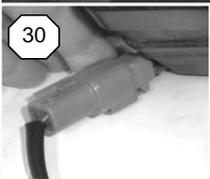
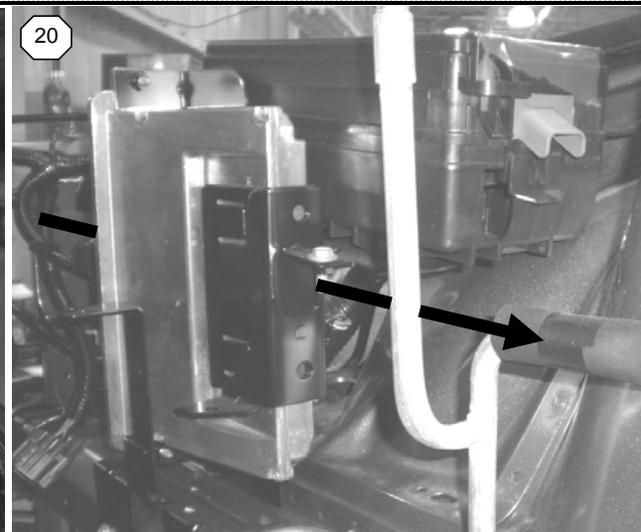
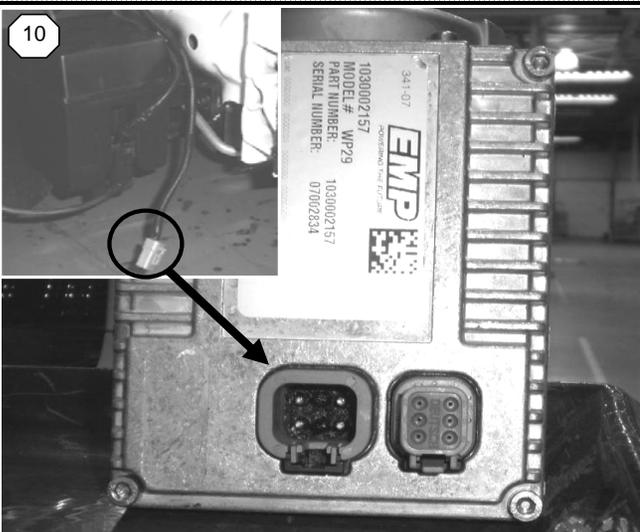
- 10 Feed the front of the harness into the area forward of the PCM and behind the passenger head lamp.
- 20 Use a 10mm socket to bolt the relay on the harness to the PCM bracket. To do this, remove the bolt shown, and then re-install the bolt with the relay attached. With a torque wrench, tighten the bolt to **71 Lb-in +/- 10.6lb-in.**
- 30 With a 10mm socket, remove the inboard most ground bolt on the top of the core support. Feed the bolt through the ground loop and then re-install it back into the core support. With a torque wrench, tighten the bolt to **91 Lb-in +/- 13.6 Lb-in.**
- 40 Route the fan connectors underneath the radiator upper core support. Then run the harness down the passenger side of the radiator. Tuck the harness behind the A/C condenser lines to keep them out of the way.
- 50 Connect the electric fans on the heat exchanger to the fan harness. Make sure the connectors are fully engaged. Then fasten the harness to the heat exchanger with 2 zip ties (A). Use 1 zip tie to secure the harness together, and another zip tie to secure the harness to the heat exchanger.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9007-C10122*	2	7" Zip Tie

Notes:

TORQUE		
1	71 +/- 10.6 Lb-in	
2	91 +/- 13.6 Lb-in	PROCESS NAME ROUTE & INSTALL INTERCOOLER FAN HARNESS
		PAGE 20-2

△ TORQUE	? ITEM NUMBER	○ OPERATION	
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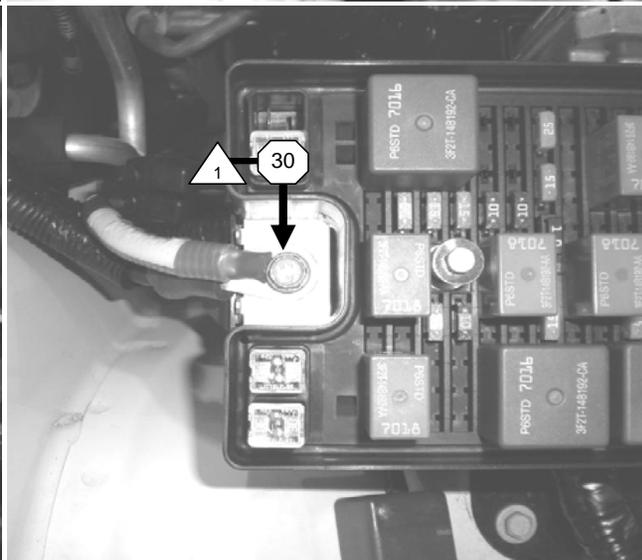
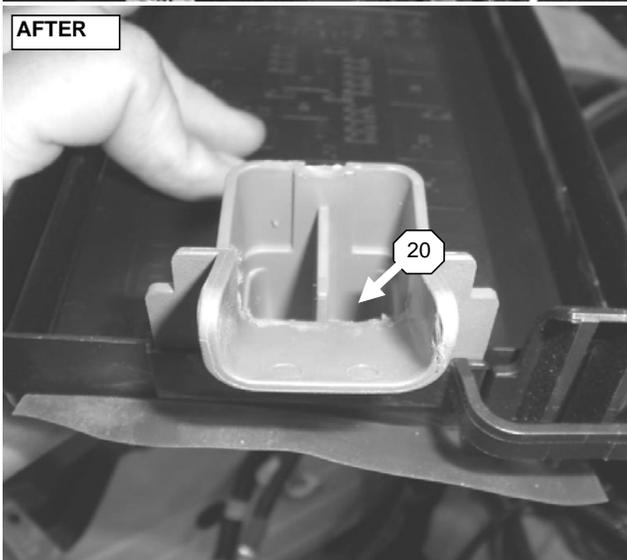
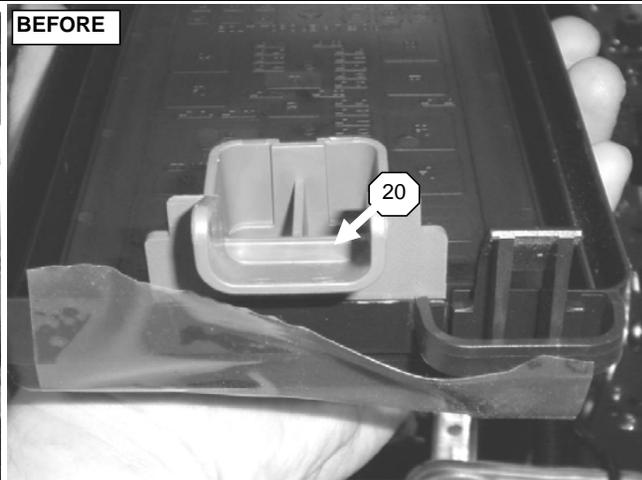
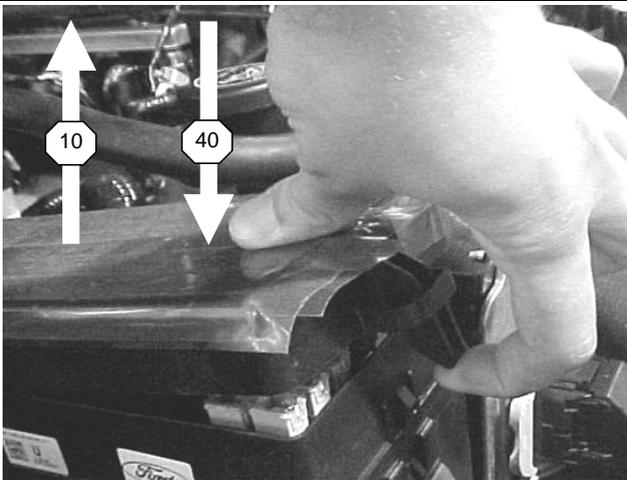


- 10 Route the water pump connector down the front of the washer bottle. Plug the connector into the remaining open port on the back of the water pump. Make sure the connector is fully seated.
- 20 Route the harness (Alternator harness connector, relay controller connector, and fuse box ring terminal) under the fuse box between the inner fender and the PCM bracket.
- 30 Route the relay controller connector from underneath the fuse box and plug it into the relay controller (A). Make sure the connector is fully seated.
- 40 Attach to the relay controller to the inner fender well with 1 self tapping screw (B) in the position shown. Slide the wire for the controller in the cavity between the fuse box and inner fender.
- 50 Route the alternator wire connector portion of the harness up the main engine harness and secure with 3 zip ties (C). Connect the fan harness to the alternator wire harness. Make sure the connector is fully seated, and then secure the connector to a near by harness with another zip tie (C).

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-1703-C17799*	1	Relay Controller
B	069-310	1	Screw Phil Self Drill #8-18x1/2"
C	00-9007-C10122*	4	7" Cable Zip Tie

Notes:

TORQUE			
		PROCESS NAME	PAGE
		ROUTE & INSTALL INTERCOOLER FAN HARNESS	20-3



- 10 Remove the lid of the fuse box by pulling upward on the 2 clips. Pull up on the fuse panel lid to remove.
- 20 Flip the fuse box lid upside-down and with a pencil grinder, remove the shelf on the inside of the pink wire harness guide. This will make more clearance to allow the lid to close.
- 30 With a 10mm socket, remove the fuse box power wire bolt. Slip the ring terminal of the fan harness onto the bolt and re-install. Using a torque wrench, tighten the bolt to **15 Lb-ft +/- 2.2 Lb-ft**.
- 40 Re-attach the fuse box lid. By firmly pressing it down over the box. Make sure the clips are fully engaged.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE		
1	15 +/- 2.2 Lb-ft	
PROCESS NAME		PAGE
ROUTE & INSTALL INTERCOOLER FAN HARNESS		20-4



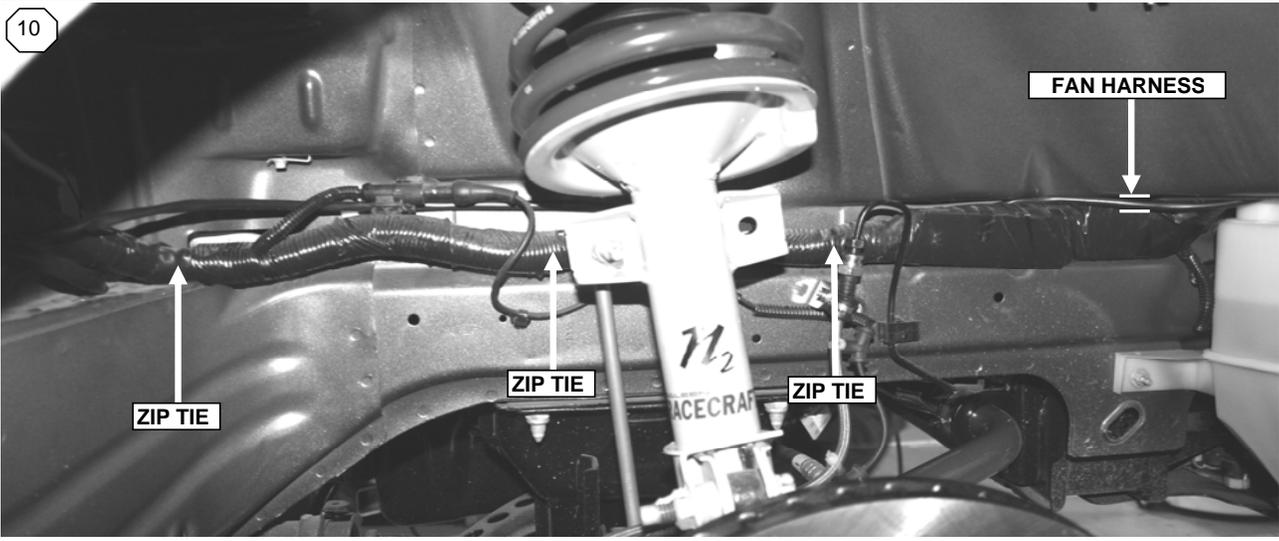
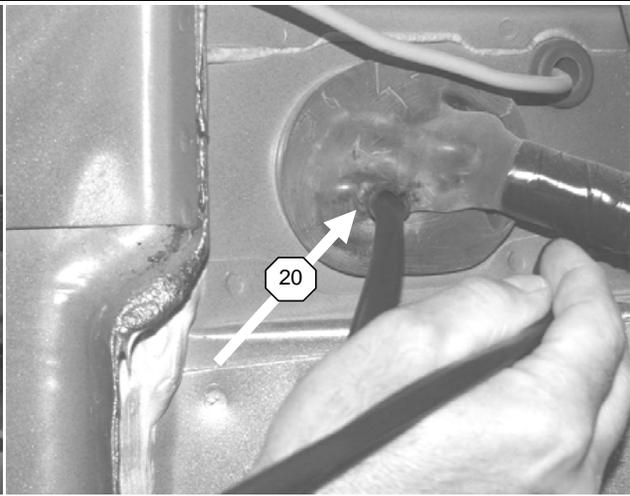
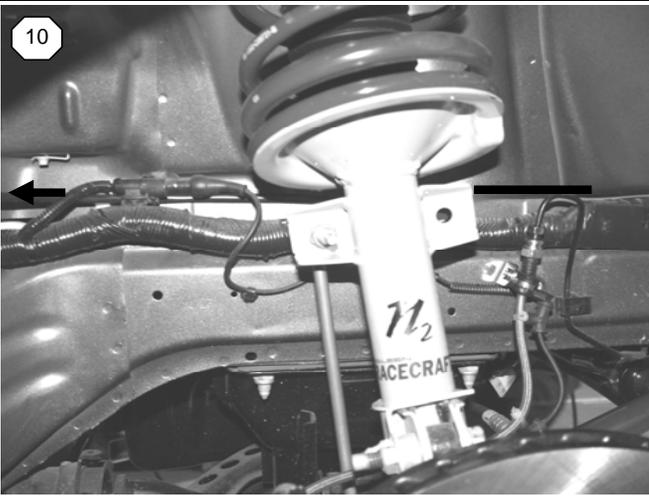
TORQUE



ITEM NUMBER



OPERATION



- 10 Route the SJB power wire (the red wire with no connector) rear ward over the washer bottle and along the passenger (RH) frame rail in the RH wheel well. Tuck this portion of the fan harness behind the vehicle fender harness as best as possible. Continue routing the harness behind the brake line, strut, and ABS wiring and connector.
- 20 Continue routing the harness until it reaches the bulkhead grommet. Run the harness through the hole in the grommet (the hole the previous water pump harness was routed through).
- 30 Once the fan harness is in position, secure it to the vehicle fender harness with 3 zip ties (A).

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9007-C10122*	3	7" Cable Zip Tie

Notes:

TORQUE			
		PROCESS NAME	PAGE
		ROUTE & INSTALL INTERCOOLER FAN HARNESS	20-5



TORQUE

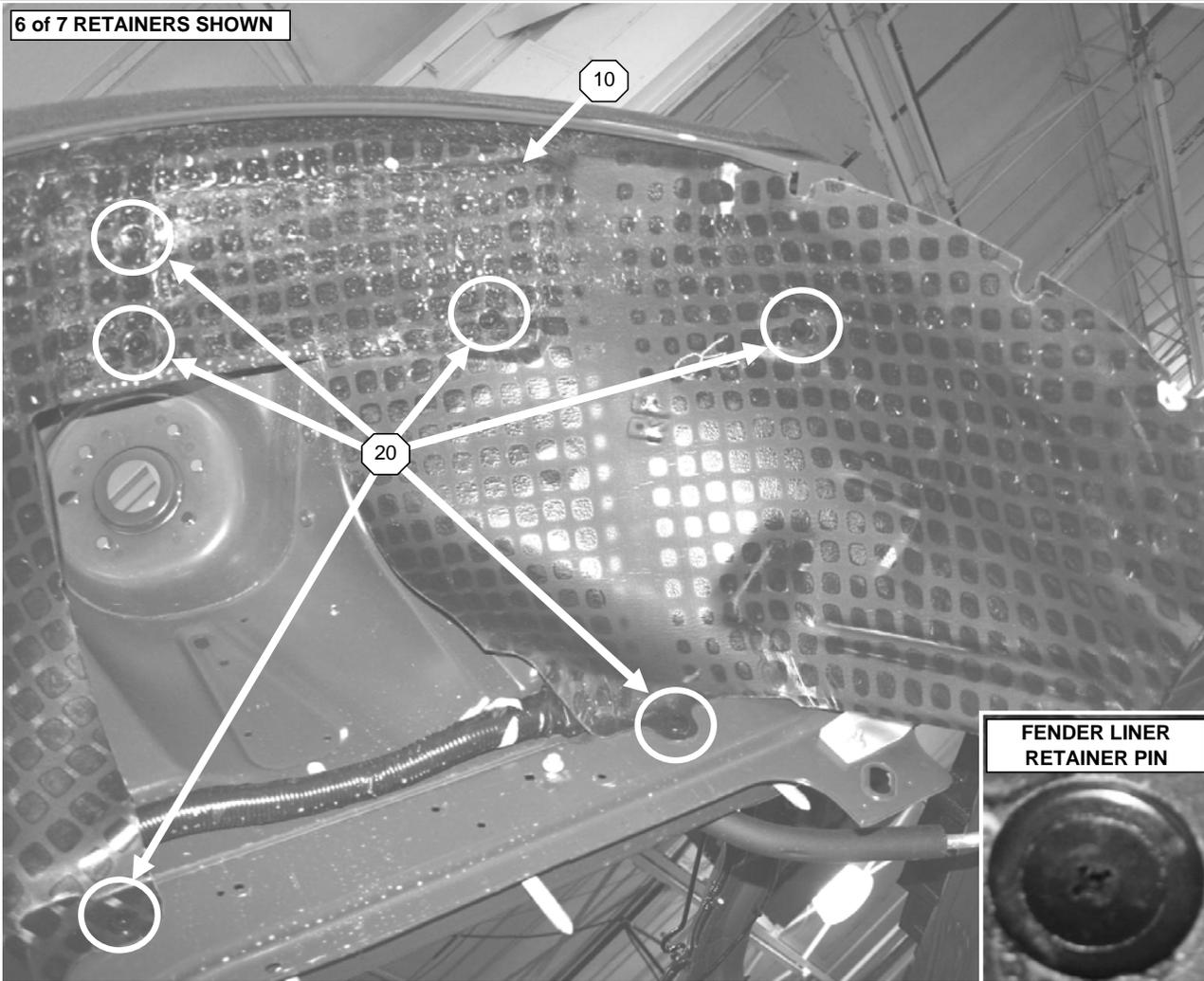


ITEM NUMBER



OPERATION

6 of 7 RETAINERS SHOWN



10 Position both halves of the fender liner in the wheel well. The rear half of the liner will need to be tucked in behind the rocker panel and rocker push pins.



20 Re-install the 7 push pins to secure the fender liners in place.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE



PROCESS NAME PAGE

INSTALL RH FRONT FENDER LINERS



TORQUE



ITEM NUMBER



OPERATION



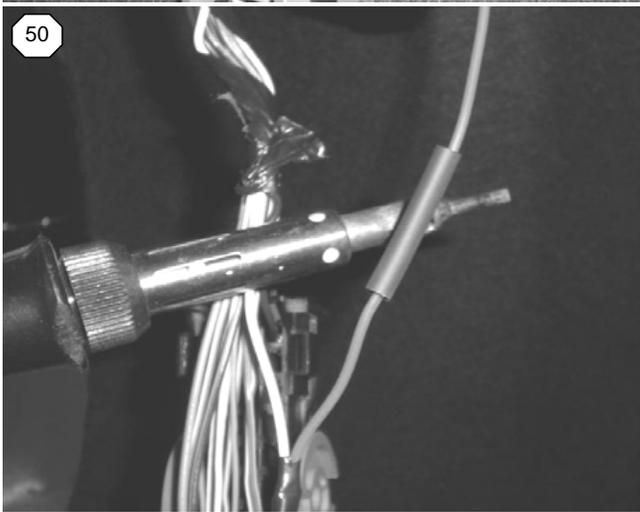
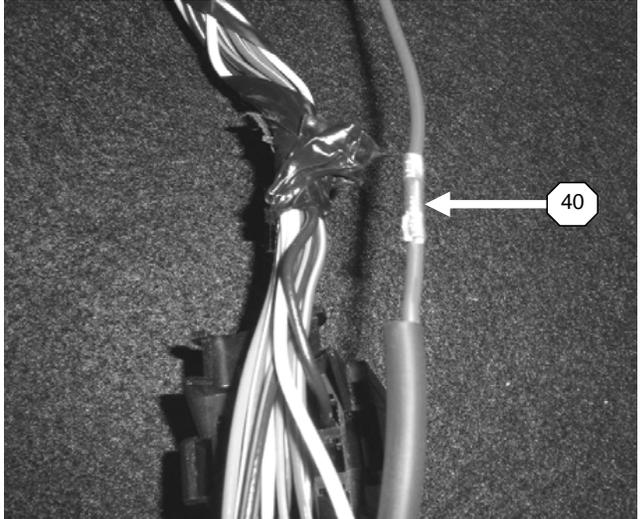
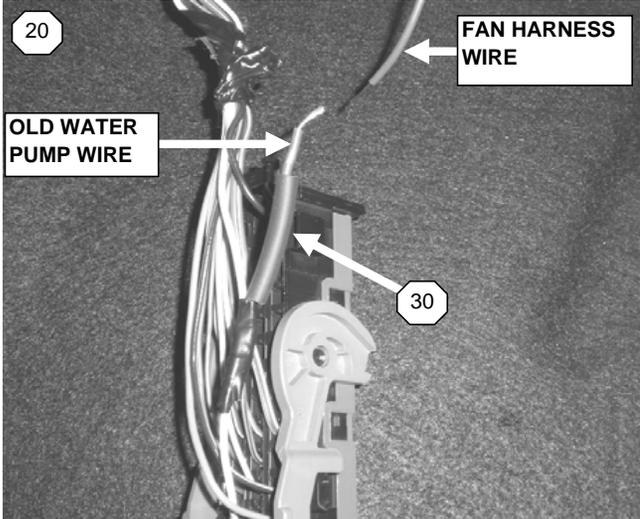
NOTICE: When lowering any vehicle whether it be with a hoist, jack, etc.. follow all safety guidelines in the equipment's manual.

- 10 Set the RH front wheel onto the vehicle hub (so that the wheel lugs are coming through the wheel lug nut holes).
- 20 Re-install the 5 lug nuts. While holding the wheel in place, thread each lug nut onto the lug by hand.
- 30 Once all 5 lug nuts are on, snug each lug nut (a tire iron can be used for Ford stock wheels, if the vehicle is a Saleen, use the lug wrench and socket provided with the vehicle). Snug the lug nuts in a cross hub pattern to about 22 Lb-ft before lowering the vehicle.
- 40 Lower the vehicle to the ground (**READ THE NOTICE AT THE TOP OF THE PAGE**).
- 50 Once the vehicle is lowered, and the wheel is contacting the ground, tighten each lug nut in a cross hub pattern with a torque wrench and 13/16" socket to **100 Lb-ft +/- 15 Lb-ft**.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE		SALEEN	
	100 +/- 15 Lb-ft	PROCESS NAME	PAGE
		REMOVE RH FRONT WHEEL	22



- 10 Proceed back into the passenger side foot well. Locate the fan harness SJB power wire that was fed through the bulkhead on [Page 20-5](#).
- 20 Use wire strippers to strip the end of the fan harness wire and the end of the remaining piece of wire belonging to the old water pump harness (piece left behind when the wire was cut on [Page 12-3](#)).
- 30 Slide a 1.5" piece of heat shrink (A) onto one of the wires.
- 40 Obtain one butt splice (B) and wire crimpers. Slide one end of the splice onto the fan harness and use the crimpers to secure the splice onto the end of the wire. Insert the section of wire from the old water pump harness (still spliced into the SJB connector) into the remaining end of the splice. With crimpers, secure the splice onto the wire.
- 50 Slide the heat shrink (slid onto one of the wires in **OPERATION 30**) over the butt splice. Make sure the heat shrink is positioned in such a way it covers the entire splice. Apply heat to collapse the heat shrink onto the splice.
- 60 Wrap the SJB wires and the newly installed fan harness wire together with electric tape.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-1704-C06300*	1.5"	Heat Shrink Dual Wall 1/8" Black
B	00-1704-C09260*	1	18 Gauge Seamless Butt Splice

Notes:

TORQUE			
		PROCESS NAME	PAGE
		WIRE INTERCOOLER FAN HARNESS INTO SJB	
			23-1



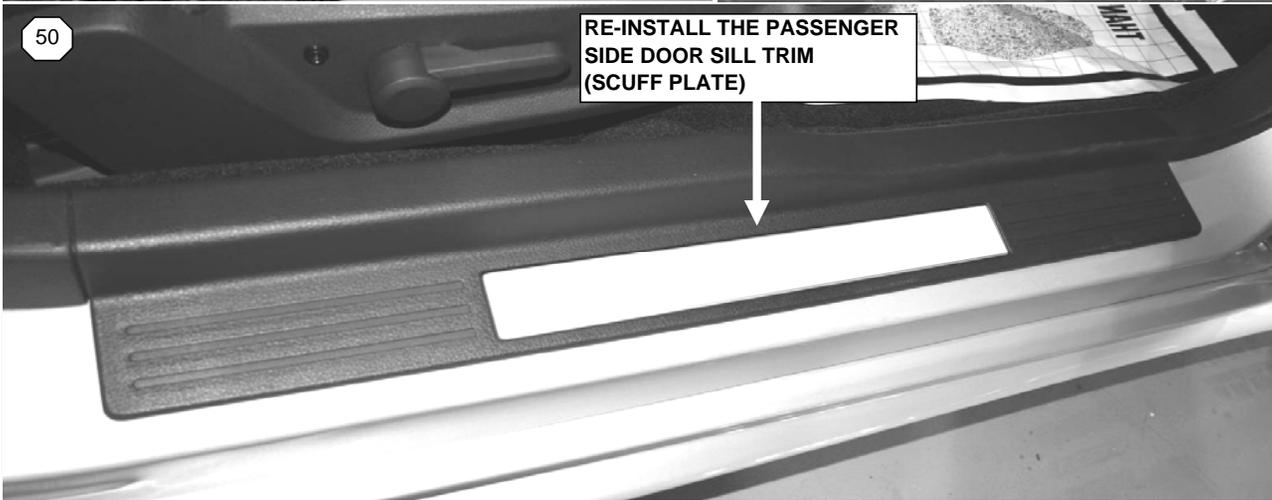
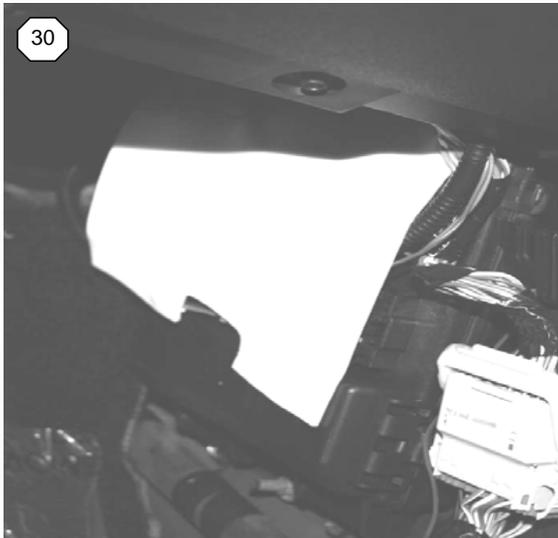
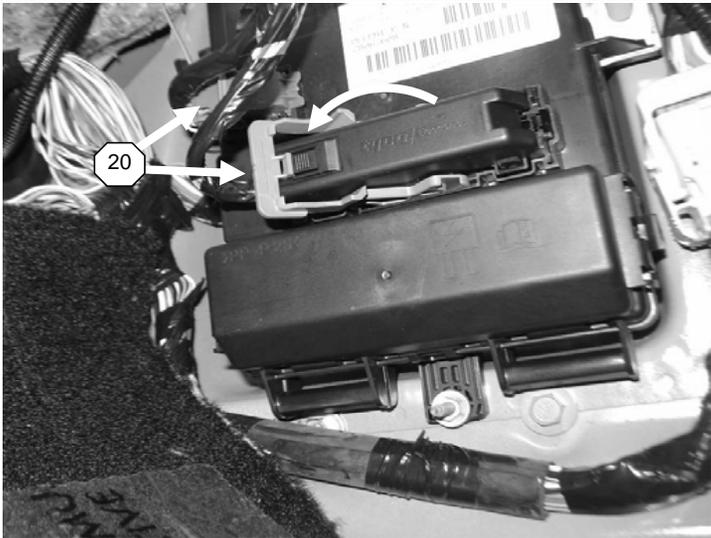
TORQUE



ITEM NUMBER



OPERATION

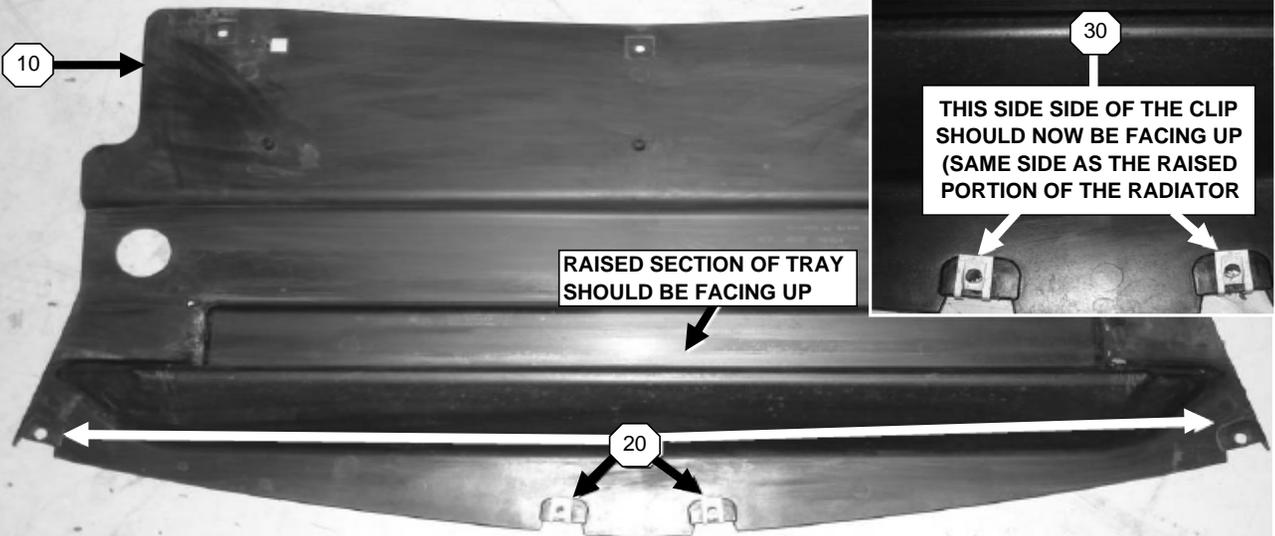


- 10 Re-install the SJB connector cover (make sure the 4 tabs on the cover engage the connector).
- 20 Insert the connector back into the SJB module. To lock the connector into place, rotate the grey locking clamp towards the front of the car until it locks into place. As the grey locking clamp is moving, the connector will draw into the SJB.
- 30 Re-cover the module with the white weather shield. This can also be used to hold and contain the wiring near the module.
- 40 Re-install the passenger kick panel trim that covers the SJB. Slide the trim panel towards the front of the car to clip it into place.
- 50 Once the kick panel trim is installed, re-install the door sill trim (scuff plate). The trim has 4 center clips that will engage the vehicle rocker sill. The outboard 2 studs (1 per side) will pass through a hole in both the kick panel and the lower B-pillar trim panel.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE		SALEEN	
PROCESS NAME		PAGE	
WIRE INTERCOOLER FAN HARNESS INTO SJB		23-2	



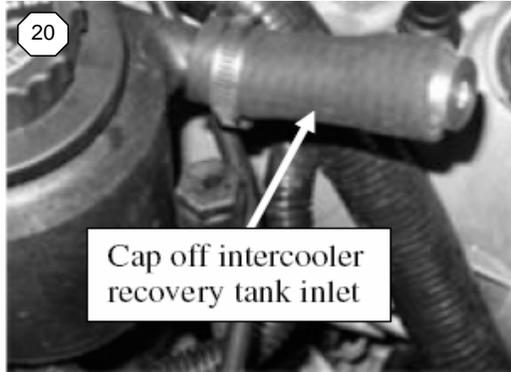
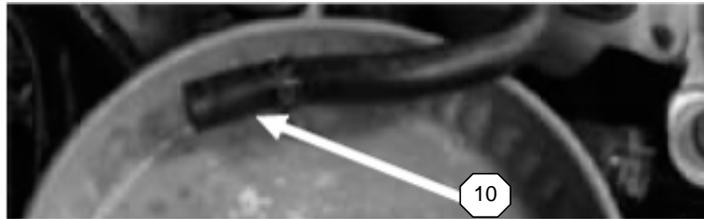
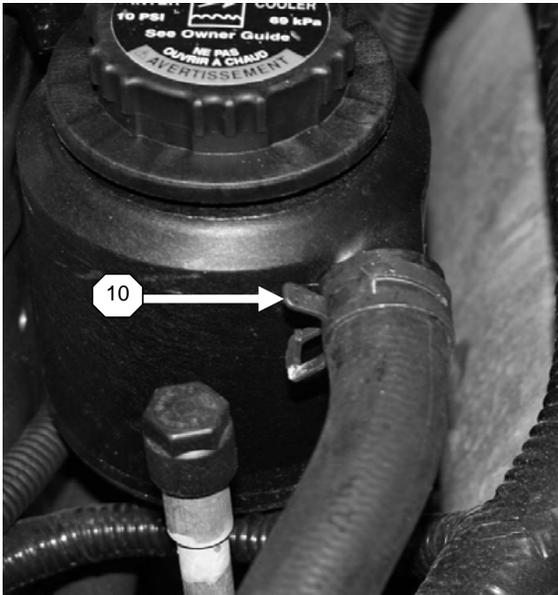
NOTICE: If the vehicle is receiving the radiator baffle kit (sold separately), the lower radiator tray will not be re-installed.

- 10 Obtain the lower radiator tray (removed on [Page 3](#)).
- 20 Remove the clips along the leading edge of the lower tray (Mustang GT has 4 clips, Saleen S-Series has 2 clips).
- 30 Flip each clip around and install it back into the tray upside-down..
- 40 Use a 1.5" hole saw to cut a new hole for the petcock drain valve. It will be located on the opposite side of the lower radiator tray.
- 50 **MUSTANG GT ONLY:** Using an air-powered saw or hand saw, cut an 1/8" wide slice out of each front corner of the raised portion of the radiator tray as shown. Keeping cuts straight and clean will minimize or remove the visual impact caused by the tray modification upon installation.

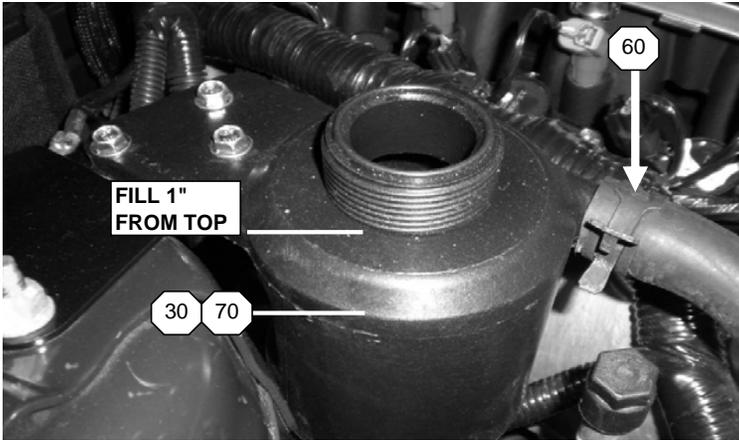
ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

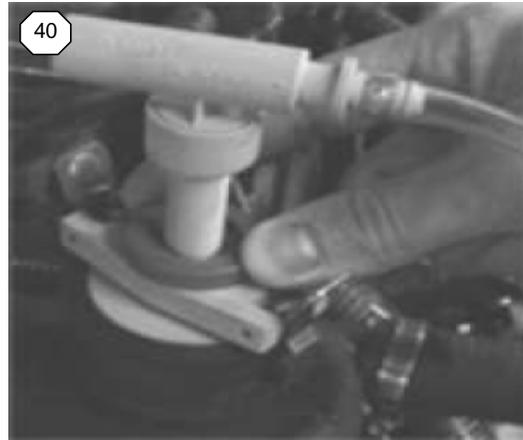
TORQUE			
		PROCESS NAME	PAGE
		MODIFY THE LOWER RADIATOR TRAY	24



Cap off intercooler recovery tank inlet



FILL 1" FROM TOP



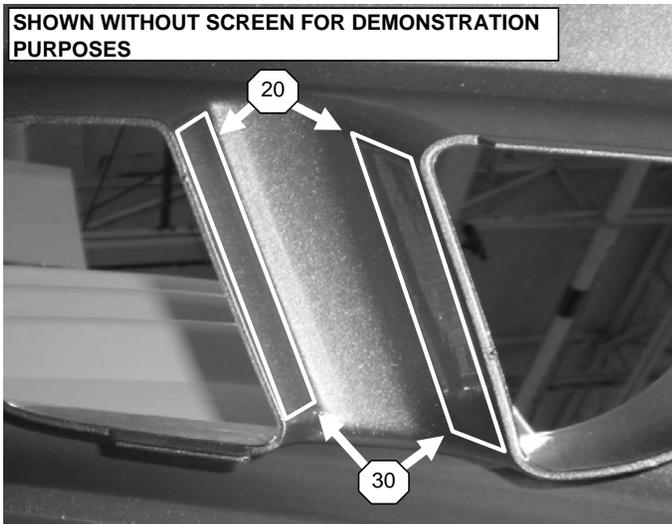
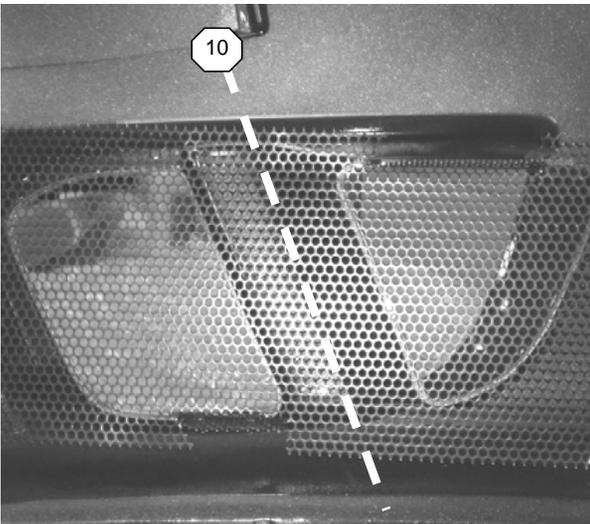
NOTICE: Refer to your Saleen manual for proper coolant mixture for your climate before proceeding.

- 10 Remove the intercooler to recovery tank hose at the intercooler and set into a drain pan.
- 20 Cap off the inlet to the intercooler recovery tank using a short piece of 3/4" hose that is plugged at one end.
- 30 Fill the reservoir tank with coolant until it is 1" from the top of the bottle.
NOTICE: See top of operations column before adding coolant.
- 40 Attach the coolant system pressure tool to the opening of the intercooler recovery tank.
- 50 Actuate the pressure tool until coolant flows out of the hose and into the drain pan. **MAKE SURE THE TANK DOES NOT RUN DRY.**
- 60 Remove the capped hose from the inlet, and re-attach the hose re-installing the designated clamp.
- 70 Remove the pressure tool and fill the intercooler tank 1" from the top. Then re-install the intercooler recovery tank cap.

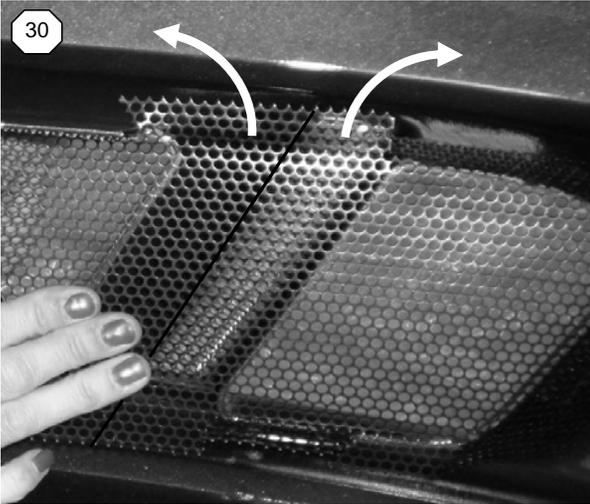
ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		FILL THE INTERCOOLER SYSTEM WITH COOLANT	25



SHOWN WITHOUT SCREEN FOR DEMONSTRATION PURPOSES



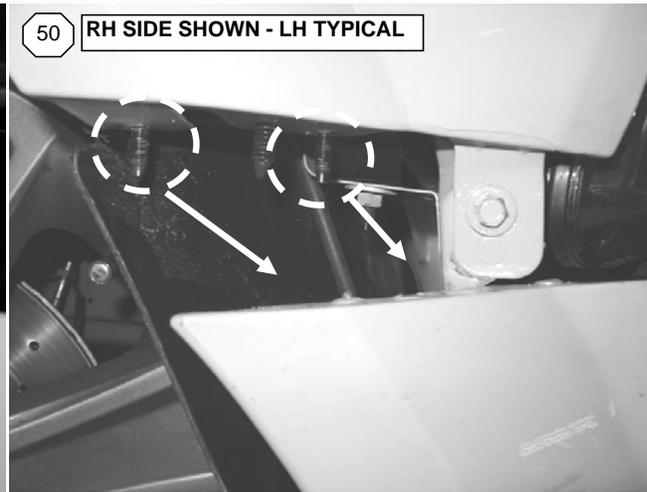
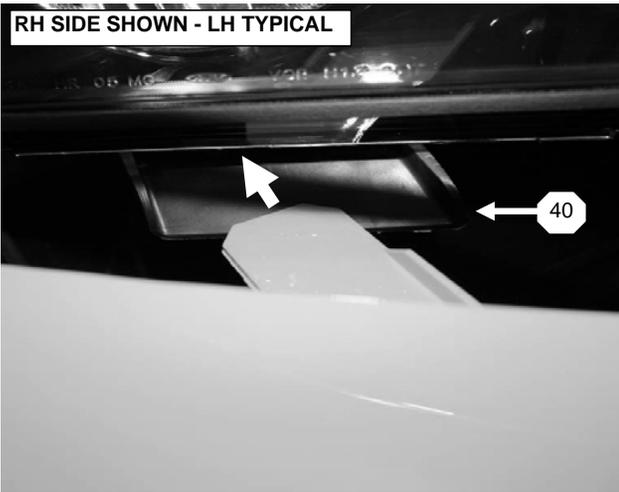
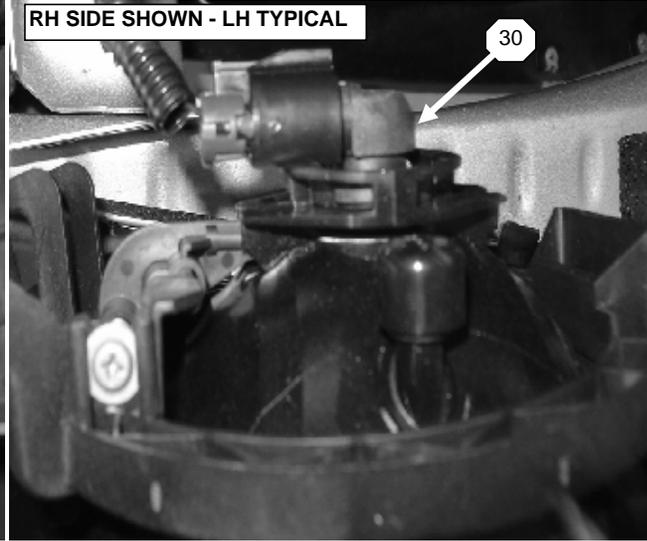
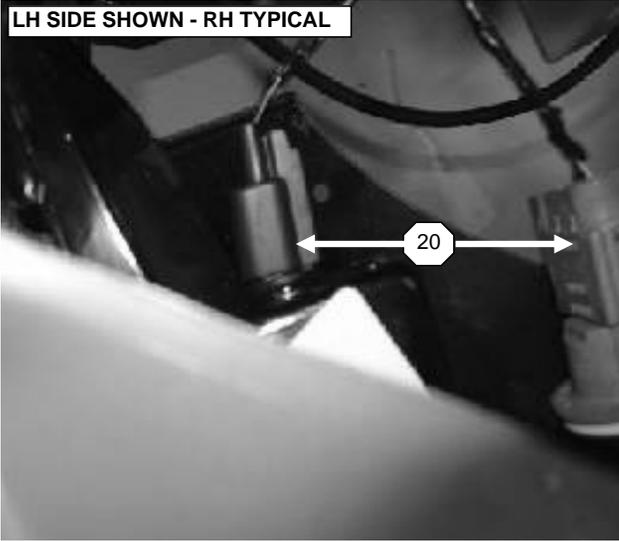
- 10 With snips or side cutters, cut the RH screen as shown. The cut should be positioned in the middle of the verticle support molded into the center of the opening.
- 20 Apply adhesive promoter to the inside surface of the LH and RH vent frames, in the areas highlighted.
- 30 Apply double sided tape (A) to the areas that received adhesive promoter in **OPERATION 20**.
- 30 Trim excess screen if it seems too long to fit well. Fold the screen over onto the double sided tape installed on **OPERATION 30**.
- 40 Firmly press the screen against the tape for about 15 seconds to help the screen bond to the tape.

NOTICE: Take care when bending the screens. They can easily break.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9006-C17390*	6"	3M 2-SIDE 5952 1.14mmx19.05mm

Notes:

TORQUE			
		PROCESS NAME	PAGE
		MODIFY S-LINE FASCIA RH LOWER SCREEN	B 26

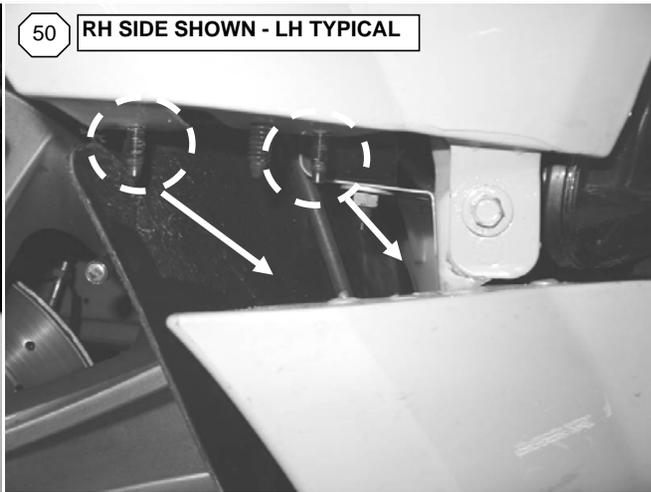
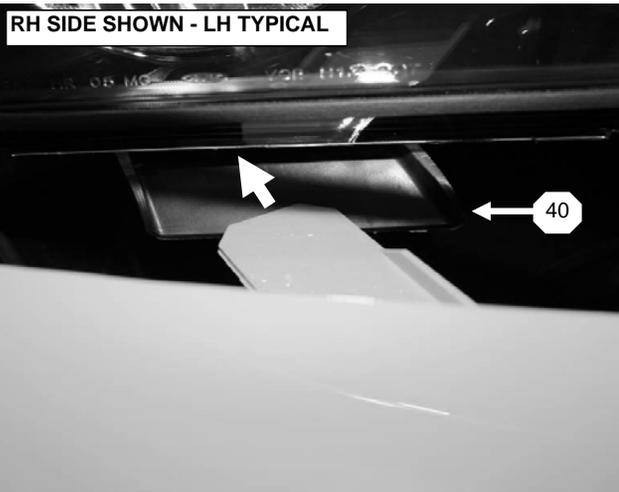
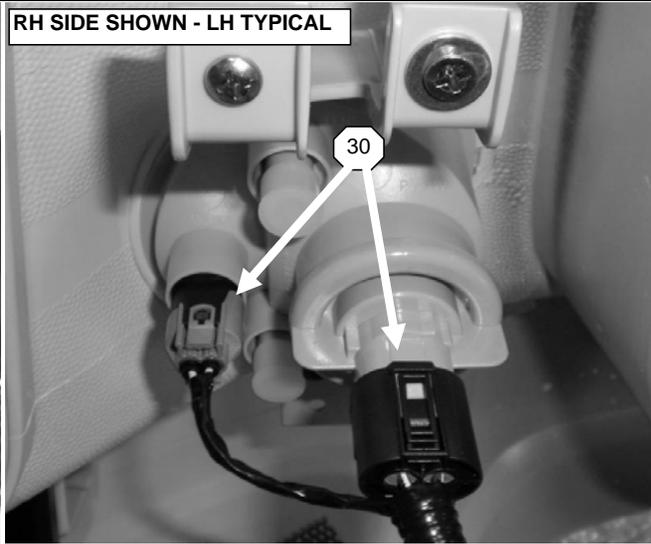
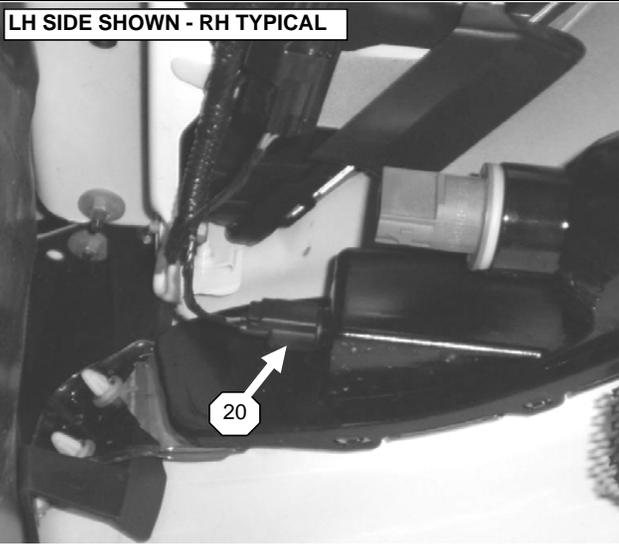


- 10 Retrieve the stock factory fascia removed on **Page 2-1A to 2-3A**. Loosely set the front fascia onto the front bumper so that the electrical connections can be reached.
 - 20 Connect the turn signal connectors (1 per side) and the parking light connector (1 per side). When connecting the connectors, make sure they are fully engaged.
 - 30 Connect both fog light connectors (if equipped), by pressing the connector onto the fog light housing. Make sure the connector is fully seated.
 - 40 Set the front fascia into place making sure the large flat tabs (1 on each side of the fascia) feed into the slot located at the bottom of each head lamp.
 - 50 Once the front of the fascia is set, proceed to each side of the fascia and maneuver each side of the fascia into place. There are 2 studs protruding from the bottom of each fascia, these will feed into 2 holes on each side of the fascia.
- NOTE:** To confirm the connectors are properly engaged, push each connector in, give it a slight pull to make sure the connector doesn't slip out, and then push the connector back in.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME INSTALL FACTORY FASCIA	PAGE A 27-1

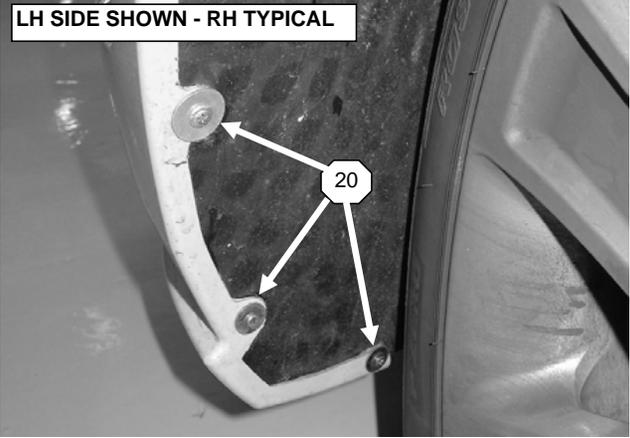
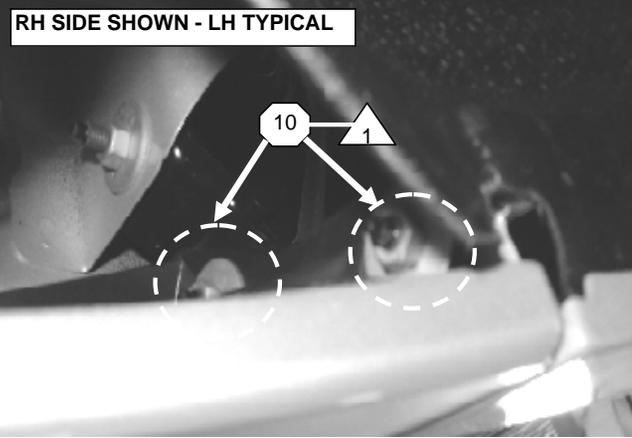


- 10 Retrieve the Saleen S-Line fascia removed on **Page 2-1B to 2-3B**. Loosely set the front fascia onto the front bumper so that the electrical connections can be reached.
 - 20 Connect the side marker light connector (1 per side). When connecting the connectors, make sure they are fully engaged.
 - 30 Connect the turn signal harness connectors, by pressing each connector into the turn signal housing . Make sure the connector is fully seated.
 - 40 Set the front fascia into place making sure the large flat tabs (1 on each side of the fascia) feed into the slot located at the bottom of each head lamp.
 - 50 Once the front of the fascia is set, proceed to each side of the fascia and maneuver each side of the fascia into place. There are 2 studs protruding from the bottom of each fascia, these will feed into 2 holes on each side of the fascia.
- NOTE:** To confirm the connectors are properly engaged, push each connector in, give it a slight pull to make sure the connector doesn't slip out, and then push the connector back in.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE							
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PROCESS NAME	PAGE						
INSTALL SALEEN S-LINE FASCIA	B						
	27-1						

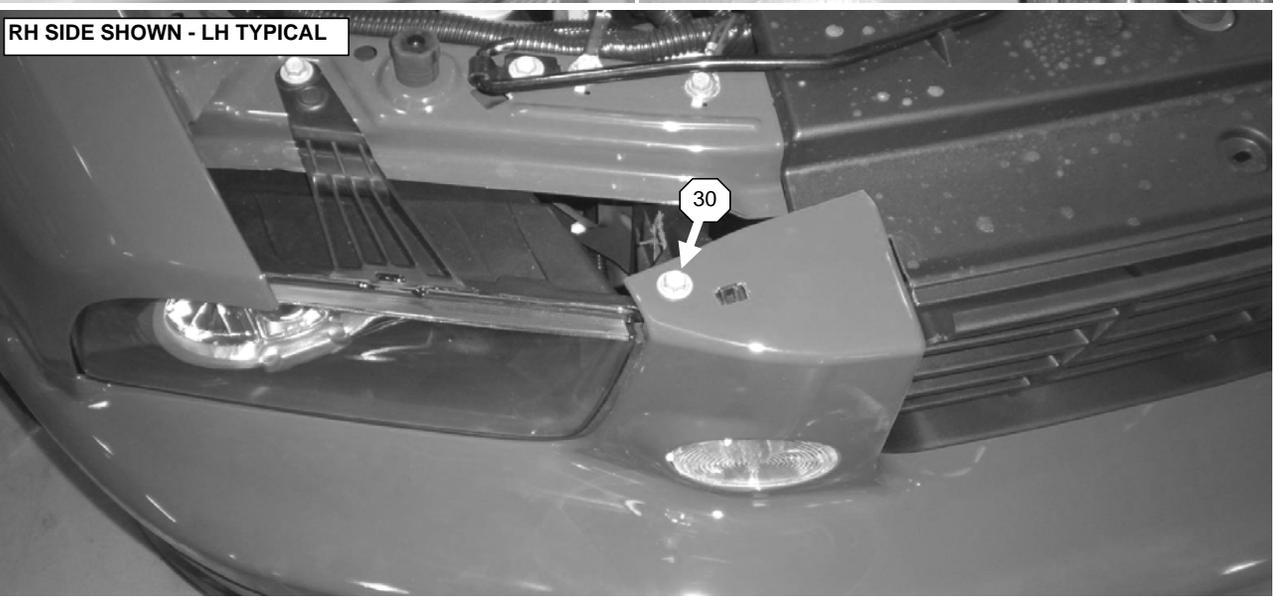
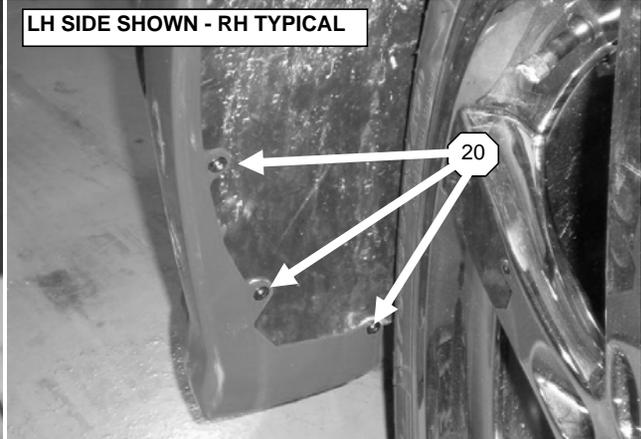
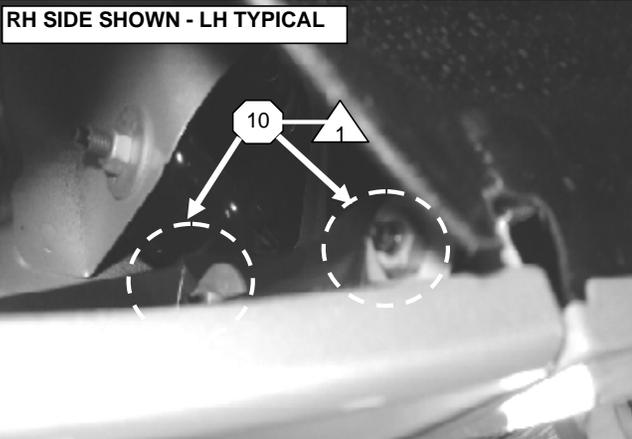


- 10 Once the edges of the fascia are in place, pull the fender liner out enough to see the 2 fender studs per side. Re-install the 10mm nuts (2 per side). With a torque wrench, torque all 4 fender nuts to **44 +/- 6.6 Lb-in.**
- 20 Tuck the each wheel well liner into the fascia. Re-install the 3 Philips screws per side, and tighten.
- 30 Re-install the two 10mm bolts (1 per side) holding the top of the fascia to the upper supports (located just inboard of each head lamp), and tighten.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE	△ 1	44 +/- 6.6 Lb-in	
PROCESS NAME			PAGE
INSTALL FACTORY FASCIA			A
			27-2



- 10 Once the edges of the fascia are in place, pull the fender liner out enough to see the 2 fender studs per side. Re-install the 10mm nuts (2 per side). With a torque wrench, torque all 4 fender nuts to **44 +/- 6.6 Lb-in.**
- 20 Tuck the each wheel well liner into the fascia. Re-install the 3 Philips screws per side, and tighten.
- 30 Re-install the two 10mm bolts (1 per side) holding the top of the fascia to the upper supports (located just inboard of each head lamp), and tighten.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE	△ 1	44 +/- 6.6 Lb-in	
PROCESS NAME			PAGE
INSTALL SALEEN S-LINE FASCIA			B 27-2



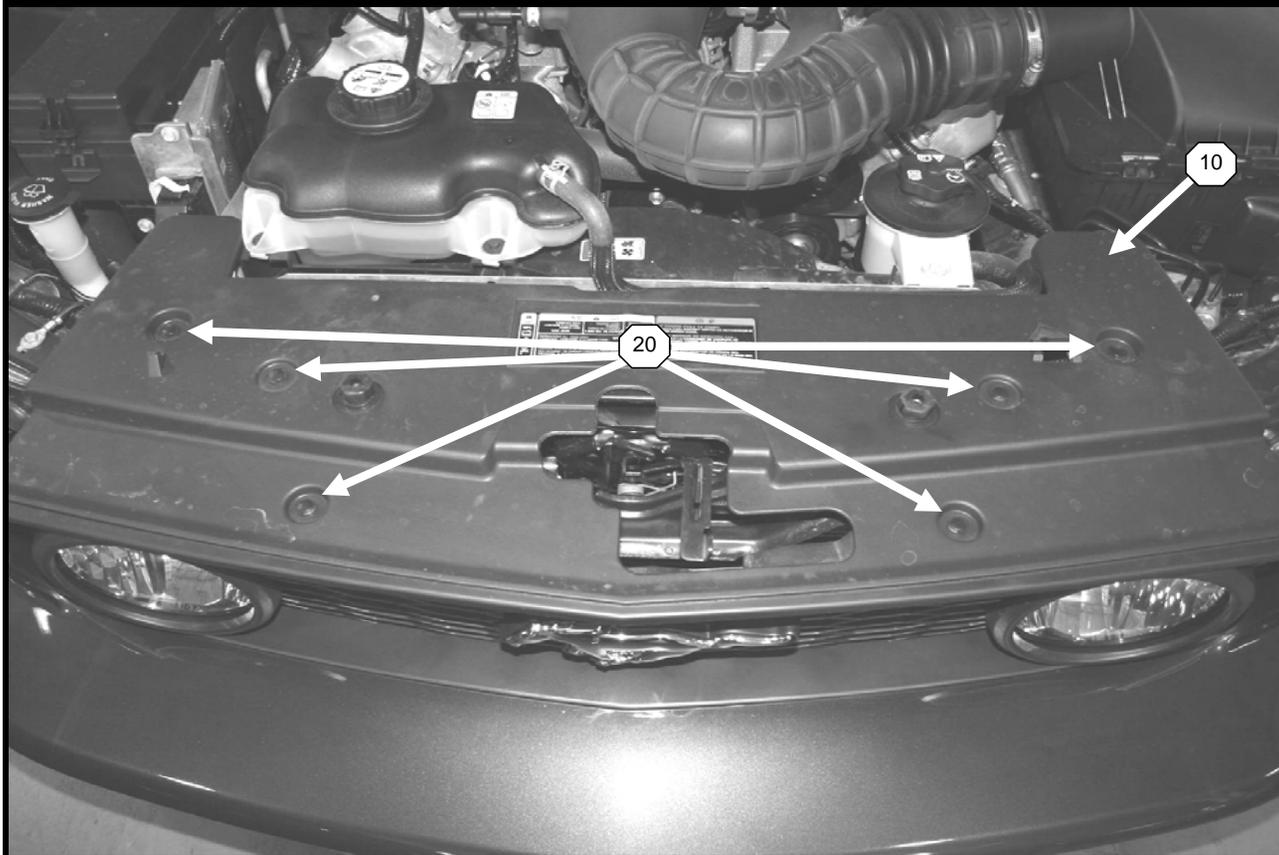
TORQUE



ITEM NUMBER



OPERATION



10

Feed the leading edge of the upper aero shield inside the channel molded into the top of the front grille.

20

Once in place, re-install the 6 retainer pins to secure the shield in place.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			
		PROCESS NAME	PAGE
		INSTALL FACTORY FASCIA	A
			27-3



TORQUE



ITEM NUMBER



OPERATION



10

Set the upper aero shield into place on top of the cooling pack.

20

Once in place, re-install the 4 retainer pins to secure the shield in place.

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE			SALEEN
		PROCESS NAME	PAGE
		INSTALL SALEEN S-LINE FASCIA	
			B 27-3



TORQUE

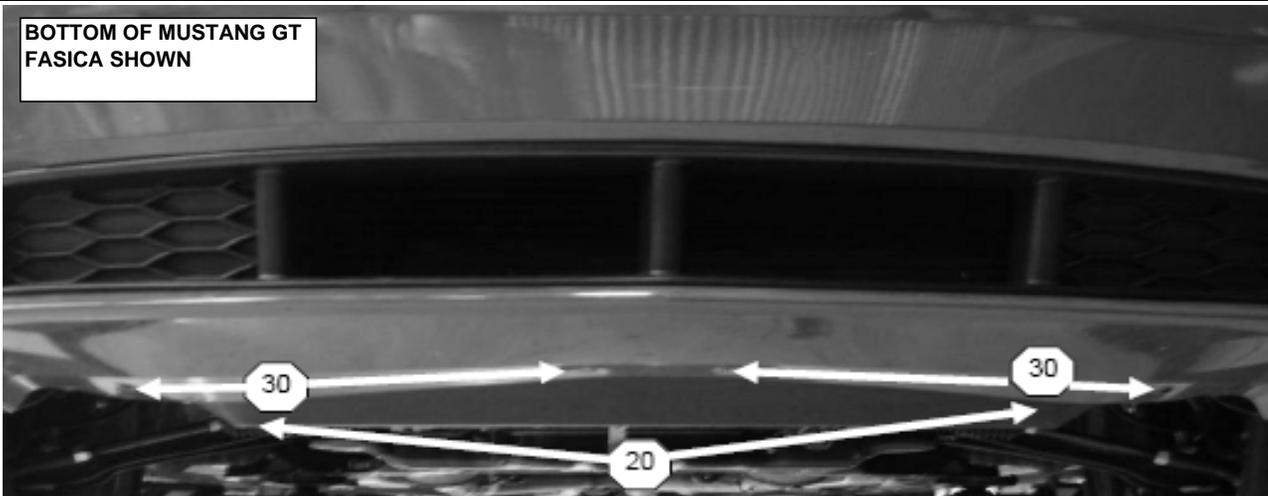
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ITEM NUMBER

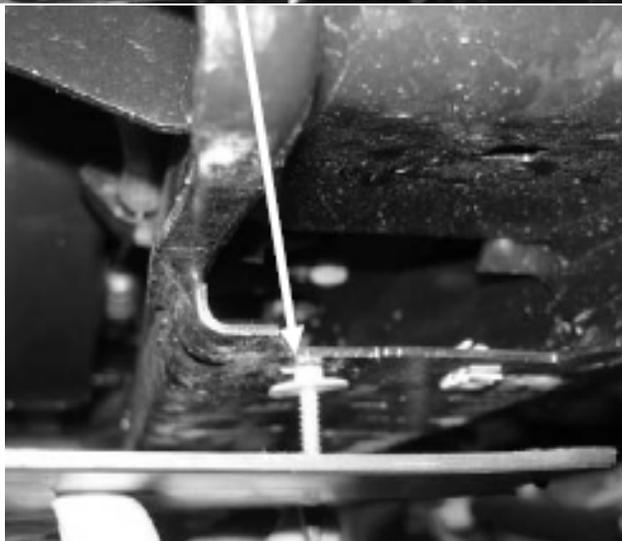
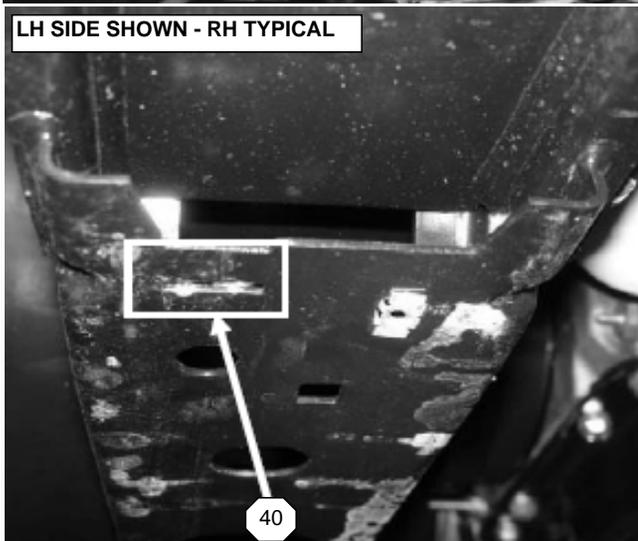


OPERATION

BOTTOM OF MUSTANG GT FASICA SHOWN



LH SIDE SHOWN - RH TYPICAL



- 10 Orientate the radiator tray upside-down (with respect to its original install position) such that the raised area of the tray now points downward towards the ground.
- 20 Slide the lower radiator tray into the bottom of the front fascia. The bottom edge of the fascia will pass through the slots of the lower radiator tray that were cut out on [Page 24](#).
- 30 Using a 5.5mm socket, re-install the 4 screws that hold the lower radiator tray to the front fascia. Inspect the fit of the tray. If the tray is causing any waviness or distortion in the bottom of the front fascia, remove the radiator tray and perform some additional trimming to the slots cut into it on [Page 24](#), and re-install tray.
- 40 Locate new rear-ward mounting holes in the lower radiator tray by first locating the rectangular slots in the bottom radiator core support. These slots will be positioned just forward of the clips the radiator shield normally uses.

Line up the head of one of the mounting screws with the center of the slot. Raise the rear of the radiator shield up against the tip of the screw to mark the tray for the mounting hole locations.

NOTICE: If necessary, remove the lower radiator tray and drill pilot hloes with a 1/4" drill bit.

Once the hole locations are found (2 total, 1 on each side), drive each screw through the bottom of the tray and into the core support slots.

NOTICE: At this point there should be 2 left over rivets. These rivets are for attaching the lower radiator tray to an S-Series front fascia. These parts will not be used in for a stock factory fascia.

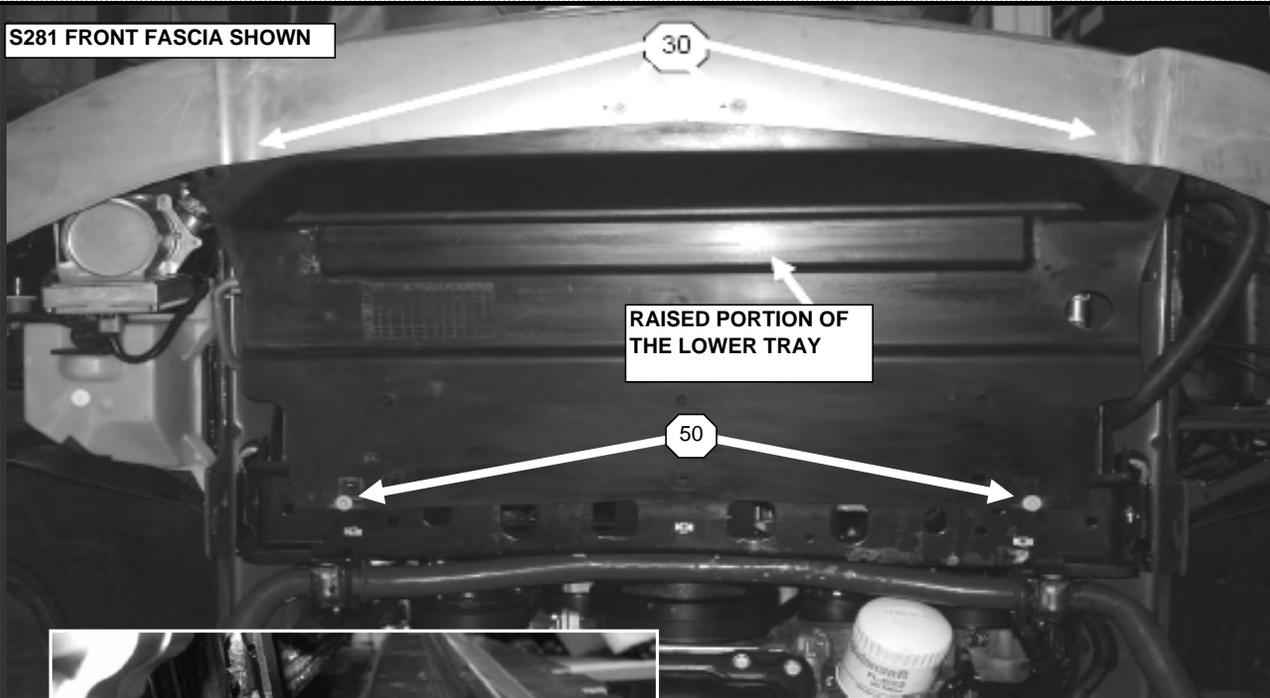
Notes:

TORQUE

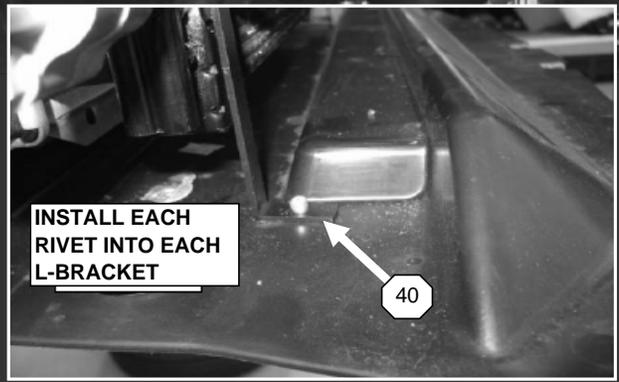


PROCESS NAME	PAGE
INSTALL MODIFIED LOWER RADIATOR TRAY WITH THE FACTORY FASCIA	A 28

S281 FRONT FASCIA SHOWN



RAISED PORTION OF THE LOWER TRAY



INSTALL EACH RIVET INTO EACH L-BRACKET

40

- 10 Orientate the radiator tray upside-down (with respect to its original install position) such that the raised area of the tray now points downward towards the ground.
- 20 Slide the lower radiator tray into position (above the bottom lip of the front fascia).
- 30 With a 5.5mm socket, re-install the 2 screws that fasten the leading edge of the lower tray to the bottom of the front fascia.
- 40 Slide each rivet **(A)** (2 total) through the existing rivet holes in the tray and into the metal L-brackets protruding from the bottom of the A/C condensor. Use a rivet puller to seat each rivet and fasten the tray into place.
- 50 Re-install the 2 screws that hold the back of the lower tray to the core support. The screws will fasten into the rectangle slots just forward of the existing clips in the core support.

ITEM	PART NUMBER	QTY.	DESCRIPTION
A	00-9006-C10013*	2	Rivet Dome Blind 3/16"

Notes:

TORQUE		
PROCESS NAME INSTALL MODIFIED LOWER RADIATOR TRAY WITH THE S-LINE FASCIA		



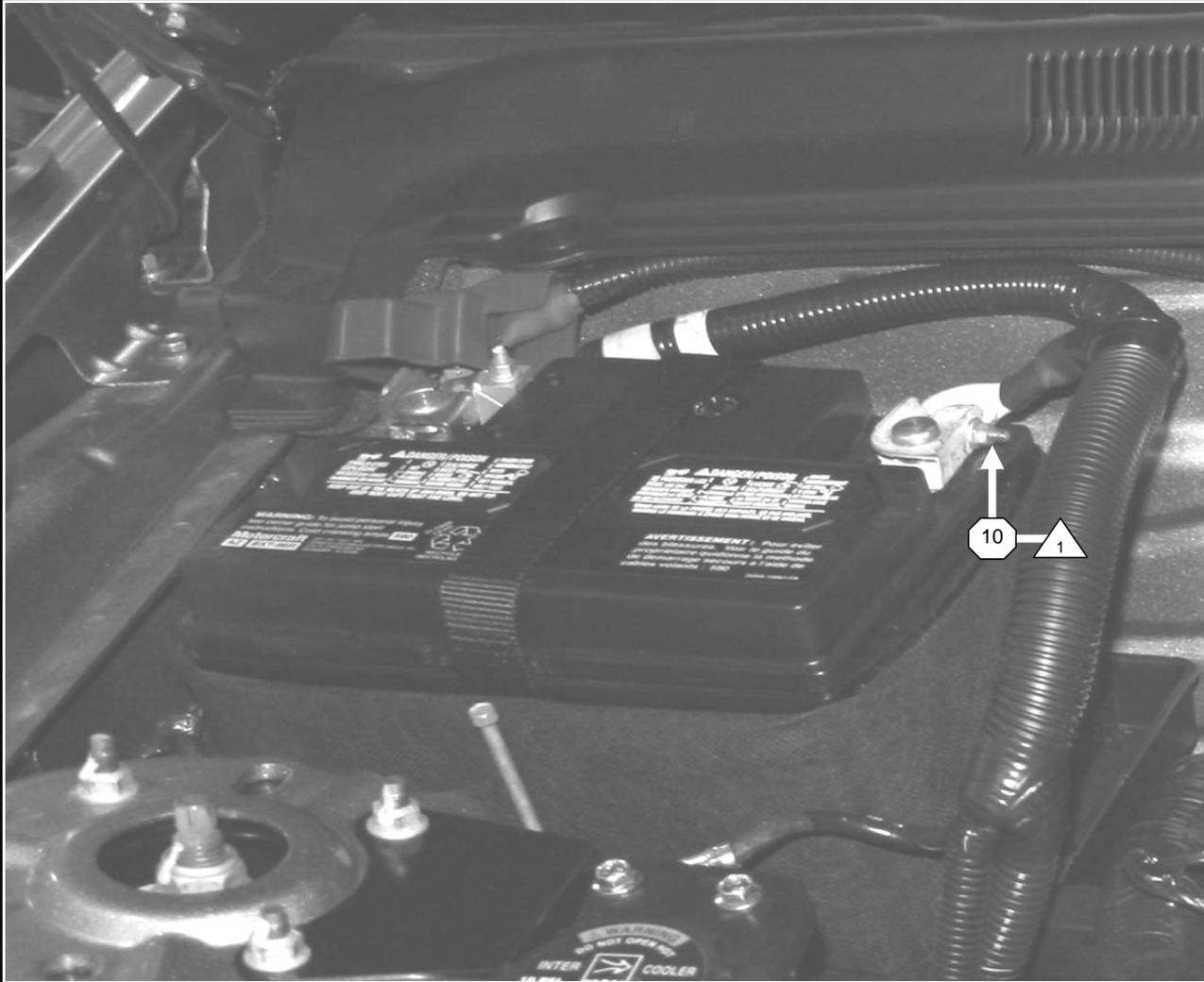
TORQUE



ITEM NUMBER



OPERATION



10

Set the negative battery cable down onto the negative battery post. Reconnect the negative battery cable using an 8mm Socket. With a torque wrench, tighten the cable clamp to **71 Lb-in +/- 10.6 Lb-in.**

10

1

ITEM	PART NUMBER	QTY.	DESCRIPTION

Notes:

TORQUE		SALEEN	
1	71 +/- 10.6 Lb-in	PROCESS NAME	PAGE
		RECONNECT BATTERY	



Post Installation Inspection

Now that you have completed the installation of the Intercooler Upgrade Kit, perform a few basic checks of the system to verify that your new kit is properly installed and operating correctly. The installation of such a kit is complex and there may be items that were missed. With a post installation inspection, anything that might have been missed (electrical connections, fasteners, etc..) will be identified and corrected before you operate the vehicle. Below are a few inspection bullet points...

Inspect the vehicle:

- Walk around the vehicle. Look for anything out of the ordinary (coolant leaks, hanging wires, loose fasteners, etc...)
- Turn the ignition to the "ON" position and validate that all external lighting comes on and functions properly (headlamps, parking lights, turn signals).
- Start the vehicle. Immediately check to see if the water pump is operating. **If not, immediately shut off the vehicle and re-check all connection.** Check again for coolant leaks. Validate that the heat exchanger fans are operating.

Purge the heat exchanger of air:

Now that the vehicle has been inspected, and is running, purge the heat exchanger of any air that may be trapped in it. To perform this, follow the steps below. To make sure the coolant is not too hot to touch, perform this procedure soon after starting the vehicle.

MAKE SURE TO WEAR SAFTEY GLASSES FOR THIS PROCEDURE.

- While the vehicle is running, locate the petcock valve on the driver side of the heat exchanger (the valve is located towards the top).
- CAREFULLY reach up to the petcock and slowly open the valve. Air will start to exit the valve. As soon as coolant starts to pass through the valve, close the petcock and make sure the valve is completely closed.

If you have any additional questions or tech support, contact Saleen at 1-800-888-8945.