

**MAXXUM 110 EP / MAXXUM 110 Multicontroller EP / MAXXUM CVT 110 /
MAXXUM 115 EP / MAXXUM 115 Multicontroller EP /
MAXXUM 120 EP / MAXXUM 120 Multicontroller EP / MAXXUM CVT 120 /
MAXXUM 125 EP / MAXXUM 125 Multicontroller EP /
MAXXUM 130 EP / MAXXUM 130 Multicontroller EP / MAXXUM CVT 130 /
MAXXUM 140 EP / MAXXUM 140 Multicontroller EP
Tier 4A
Tractor**

SERVICE MANUAL

Part number 47665854

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March 2014

Replaces part number 47461571

CASE II
AGRICULTURE



SERVICE MANUAL

**MAXXUM 110 EP , MAXXUM 110 Multicontroller EP , MAXXUM 115 EP
 , MAXXUM 115 Multicontroller EP , MAXXUM 120 EP , MAXXUM 120
 Multicontroller EP , MAXXUM 125 EP , MAXXUM 125 Multicontroller EP ,
 MAXXUM 130 EP , MAXXUM 130 Multicontroller EP , MAXXUM 140 EP ,
 MAXXUM 140 Multicontroller EP , MAXXUM CVT 110 , MAXXUM CVT 120 ,
 MAXXUM CVT 130**

Link Product / Engine

Product	Market Product	Engine
MAXXUM CVT 110	North America	F4DFE413C*A
MAXXUM CVT 120	North America	F4DFE413B*A
MAXXUM CVT 130	North America	F4DFE413A*A
MAXXUM 110 EP	North America	F4DFE413E*A
MAXXUM 110 Multicontroller EP	North America	F4DFE413C*A
MAXXUM 115 EP	North America	F4DFE613F*A
MAXXUM 115 Multicontroller EP	North America	F4DFE613F*A
MAXXUM 120 EP	North America	F4DFE413D*A
MAXXUM 120 Multicontroller EP	North America	F4DFE413B*A
MAXXUM 125 EP	North America	F4DFE613E*A
MAXXUM 125 Multicontroller EP	North America	F4DFE613E*A
MAXXUM 130 EP	North America	F4DFE413C*A
MAXXUM 130 Multicontroller EP	North America	F4DFE413A*A
MAXXUM 140 EP	North America	F4DFE6132*A
MAXXUM 140 Multicontroller EP	North America	F4DFE6132*A

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INTRODUCTION

Foreword

IMPORTANT INFORMATION

All repair and maintenance works listed in this manual must be carried out only by staff belonging to the CASE IH Service network, strictly complying with the instructions given and using, whenever required, the special tools.

Anyone who carries out the above operations without complying with the prescriptions shall be responsible for the subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional or local dealers, reject any responsibility for damages due to the anomalous behavior of parts and/or components not approved by the manufacturer himself, including those used for the servicing or repair of the product manufactured or marketed by the Manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the Manufacturer in case of damages due to an anomalous behavior of parts and/or components not approved by the Manufacturer.

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Foreword - How to use and navigate through this manual

This manual has been produced by a new technical information system. This new system is designed to deliver technical information electronically through web delivery (eTIM), DVD, and paper manuals. A coding system called SAP has been developed to link the technical information to other Product Support functions, e.g., Warranty.

Technical information is written to support the maintenance and service of the functions or systems on a customer's machine. When a customer has a concern on their machine it is usually because a function or system on their machine is not working at all, is not working efficiently, or is not responding correctly to their commands. When you refer to the technical information in this manual to resolve that customer's concern, you will find all the information classified using the SAP coding, according to the functions or systems on that machine. Once you have located the technical information for that function or system, you will then find all the mechanical, electrical or hydraulic devices, components, assemblies, and sub assemblies for that function or system. You will also find all the types of information that have been written for that function or system: the technical data (specifications), the functional data (how it works), the diagnostic data (fault codes and troubleshooting), and the service data (remove, install adjust, etc.).

By integrating SAP coding into technical information, you will be able to search and retrieve just the right piece of technical information you need to resolve that customer's concern on his machine. This is made possible by attaching 3 categories to each piece of technical information during the authoring process.

The first category is the Location, the second category is the Information Type and the third category is the Product:

- LOCATION - the component or function on the machine, that the piece of technical information is going to describe (e.g., Fuel tank).
- INFORMATION TYPE - the piece of technical information that has been written for a particular component or function on the machine (e.g., Capacity would be a type of Technical Data describing the amount of fuel held by the fuel tank).
- PRODUCT - the model for which the piece of technical information is written.

Every piece of technical information will have those three categories attached to it. You will be able to use any combination of those categories to find the right piece of technical information you need to resolve that customer's concern on their machine.

That information could be:

- the procedure for how to remove the cylinder head
- a table of specifications for a hydraulic pump
- a fault code
- a troubleshooting table
- a special tool

Manual content

This manual is divided into Sections. Each Section is then divided into Chapters. Contents pages are included at the beginning of the manual, then inside every Section and inside every Chapter. An alphabetical Index is included at the end of each Chapter. Page number references are included for every piece of technical information listed in the Chapter Contents or Chapter Index.

Each Chapter is divided into four Information types:

- Technical Data (specifications) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Functional Data (how it works) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Diagnostic Data (fault codes, electrical and hydraulic troubleshooting) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.
- Service Data (remove disassemble, assemble, install) for all the mechanical, electrical or hydraulic devices, components, assemblies or sub-assemblies.

Sections

Sections are grouped according to the main functions or a systems on the machine. Each Section is identified by a number (00, 35, 55, etc.). The Sections included in the manual will depend on the type and function of the machine that the manual is written for. Each Section has a Contents page listed in alphabetic/numeric order. This table illustrates which Sections could be included in a manual for a particular product.

SECTION	PRODUCT					
	Tractors					
	Vehicles with working arms: backhoes, excavators, skid steers,					
	Combines, forage harvesters, balers,					
	Seeding, planting, floating, spraying equipment,					
Mounted equipment and tools,						
00 - Maintenance	X	X	X	X	X	
05 - Machine completion and equipment	X	X	X	X	X	
10 - Engine	X	X	X	X		
14 - Main gearbox and drive	X	X	X	X		
18 - Clutch	X	X	X			
21 - Transmission	X	X	X	X		
23 - Four wheel drive (4WD) system	X	X	X	X		
25 - Front axle system	X	X	X	X		
27 - Rear axle system	X	X	X	X		
29 - Hydrostatic drive	X	X	X	X		
31 - Power Take-Off (PTO)	X		X			
33 - Brakes and controls	X	X	X	X		
35 - Hydraulic systems	X	X	X	X		
36 - Pneumatic system	X	X	X	X		
37 - Hitches, drawbars and implement couplings	X		X	X		
39 - Frames and ballasting	X	X	X	X	X	
41 - Steering	X	X	X	X		
44 - Wheels	X	X	X	X		
46 - Steering clutches						
48 - Tracks and track suspension	X	X	X			
50 - Cab climate control	X	X	X	X		
55 - Electrical systems	X	X	X	X	X	
56 - Grape harvester shaking						
58 - Attachments/headers			X			
60 - Product feeding			X			

INTRODUCTION

61 - Metering system				X	
62 - Pressing - Bale formation			X		
63 - Chemical applicators				X	
64 - Chopping			X		
66 - Threshing			X		
68 - Tying/Wrapping/Twisting			X		
69 - Bale wagons					
70 - Ejection			X		
71 - Lubrication system	X	X	X	X	X
72 - Separation			X		
73 - Residue handling			X		
74 - Cleaning			X		
75 - Soil preparation/Finishing					
76 - Secondary cleaning / Destemmer					
77 - Seeding				X	
78 - Spraying				X	
79 - Planting				X	
80 - Crop storage / Unloading			X		
82 - Front loader and bucket	X	X			
83 - Telescopic single arm	X	X			
84 - Booms, dippers and buckets	X	X			
86 - Dozer blade and arm	X	X			
88 - Accessories	X	X	X	X	X
89 - Tools	X	X	X	X	X
90 - Platform, cab, bodywork and decals	X	X	X	X	



SERVICE MANUAL

Engine

**MAXXUM 110 EP , MAXXUM 110 Multicontroller EP , MAXXUM 115 EP
 , MAXXUM 115 Multicontroller EP , MAXXUM 120 EP , MAXXUM 120
 Multicontroller EP , MAXXUM 125 EP , MAXXUM 125 Multicontroller EP ,
 MAXXUM 130 EP , MAXXUM 130 Multicontroller EP , MAXXUM 140 EP ,
 MAXXUM 140 Multicontroller EP , MAXXUM CVT 110 , MAXXUM CVT 120 ,
 MAXXUM CVT 130**

Engine - Disconnect

MAXXUM 115 EP	NA
MAXXUM 115 Multicontroller EP	NA
MAXXUM 125 EP	NA
MAXXUM 125 Multicontroller EP	NA
MAXXUM 140 EP	NA
MAXXUM 140 Multicontroller EP	NA

Prior operation:

Discharge the Air conditioning system, for further information refer to **Air conditioning - Discharging (50.200)**

Prior operation:

Disconnect battery, for further information refer to **Battery - Disconnect (55.302)**

Prior operation:

Drain the engine coolant system, for further information refer to **Engine cooling system - Drain fluid (10.400)**

Prior operation:

Remove the selective catalytic reduction (SRC) muffler, for further information refer to **Selective Catalytic Reduction (SCR) muffler and catalyst - Remove (10.500)**

Prior operation:

Remove the selective catalytic reduction (SRC) coolant control valve, for further information refer to **Coolant control valve - Remove (10.500)**

⚠ WARNING

Heavy objects!

Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.

Failure to comply could result in death or serious injury.

W0398A

⚠ WARNING

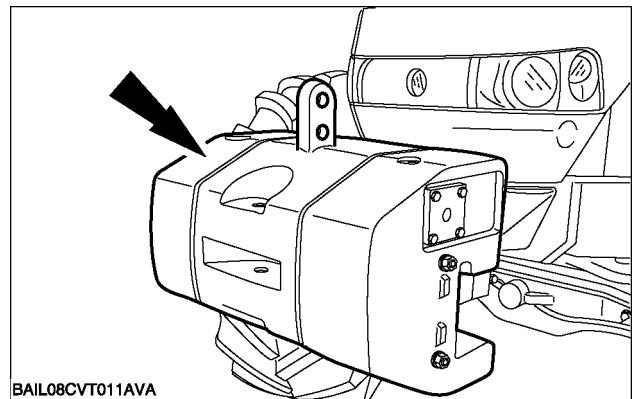
Avoid injury!

Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.

Failure to comply could result in death or serious injury.

W0208A

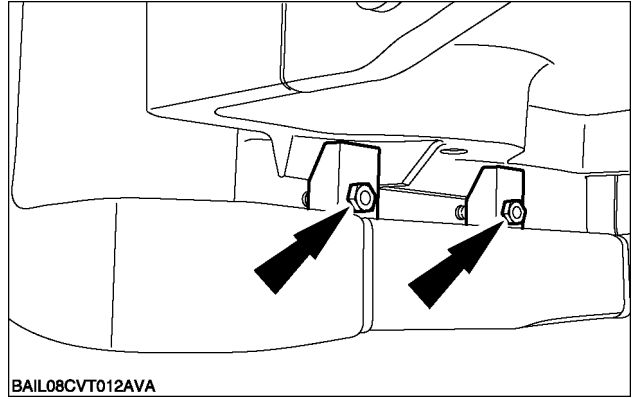
1. Using suitable lifting equipment support the front weights.



BAIL08CVT011AVA

BAIL08CVT011AVA 1

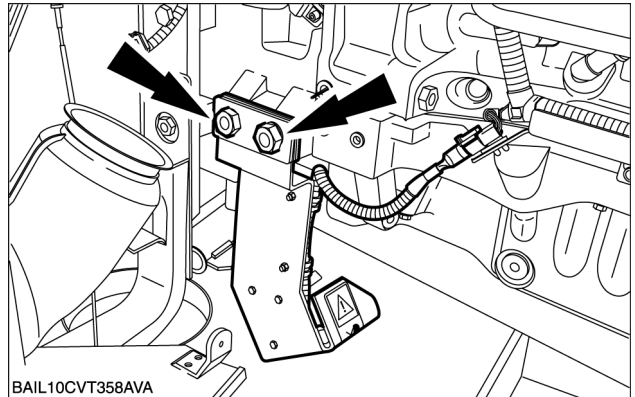
2. Disconnect and remove the front weights from the weight carrier.



BAIL08CVT012AVA

BAIL08CVT012AVA 2

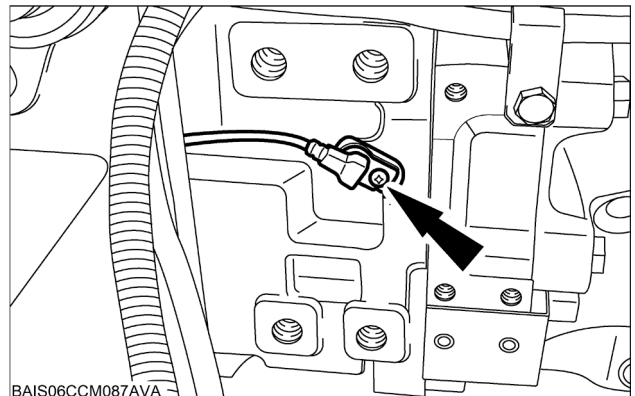
3. Disconnect the radar electrical connector and remove the radar (if fitted).



BAIL10CVT358AVA

BAIL10CVT358AVA 3

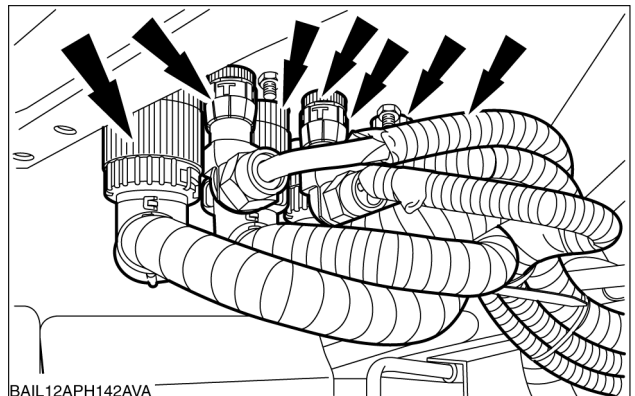
4. Remove the flywheel speed sensor.



BAIS06CCM087AVA

BAIS06CCM087AVA 4

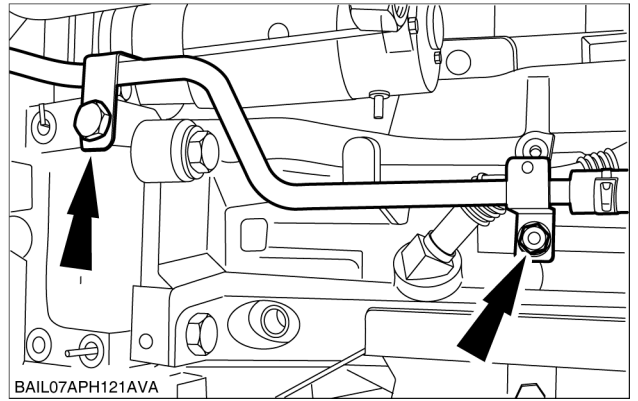
5. Disconnect the engine harness electrical connectors.



BAIL12APH142AVA

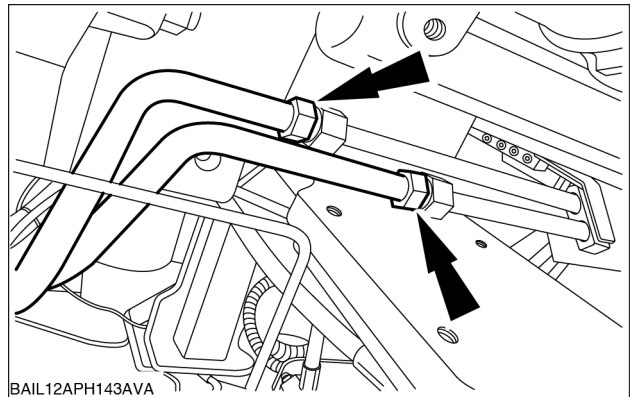
BAIL12APH142AVA 5

6. Detach the cab heater return pipe.



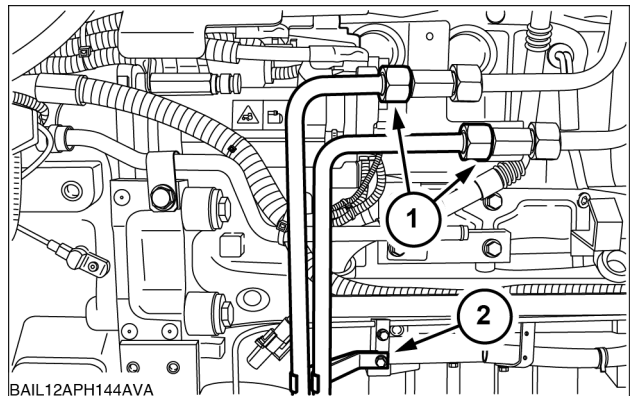
BAIL07APH121AVA 6

7. Disconnect the oil cooler supply pipes.



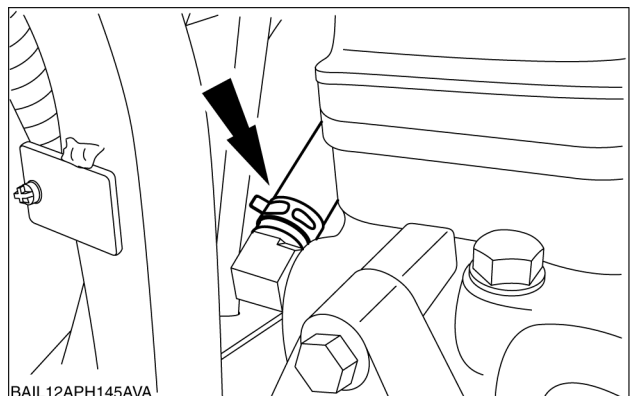
BAIL12APH143AVA 7

8. Disconnect the oil cooler supply and return pipes (1).
Remove the oil cooler pipes (2).



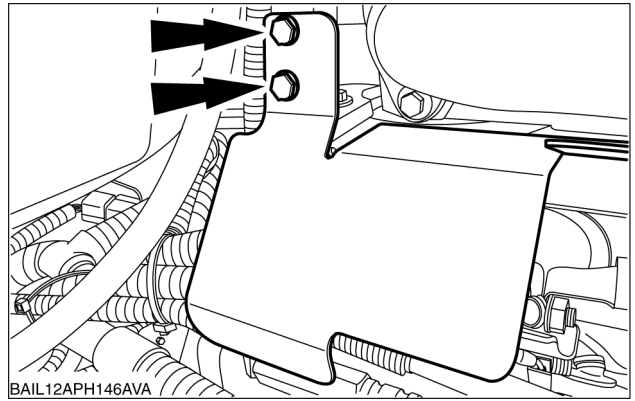
BAIL12APH144AVA 8

9. Disconnect the heater supply hose from the rear of the engine cylinder head.



BAIL12APH145AVA 9

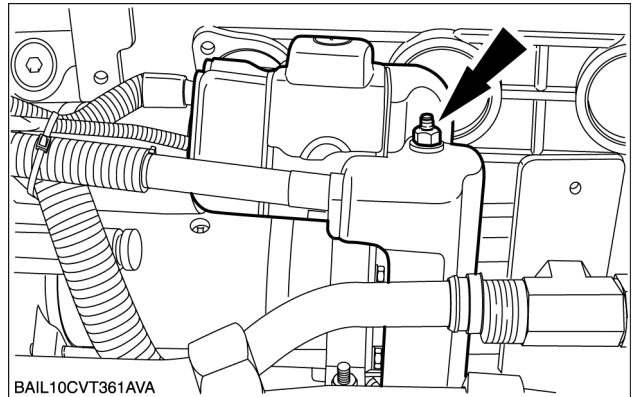
10. Remove the starter motor heat shield.



BAIL12APH146AVA

BAIL12APH146AVA 10

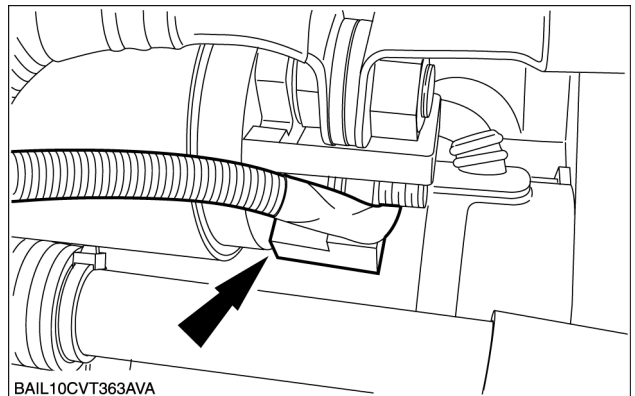
11. Remove the starter motor cover.



BAIL10CVT361AVA

BAIL10CVT361AVA 11

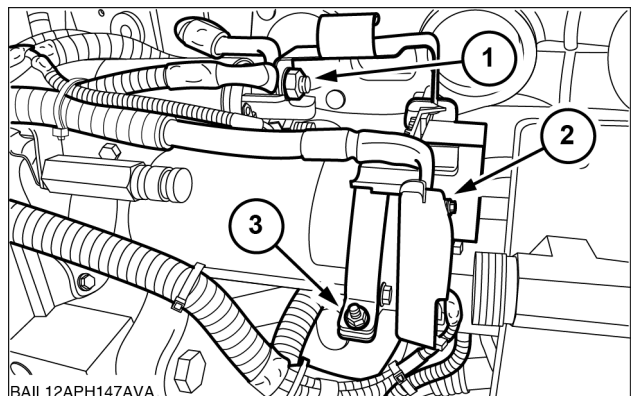
12. Disconnect the starter motor electrical connector.



BAIL10CVT363AVA

BAIL10CVT363AVA 12

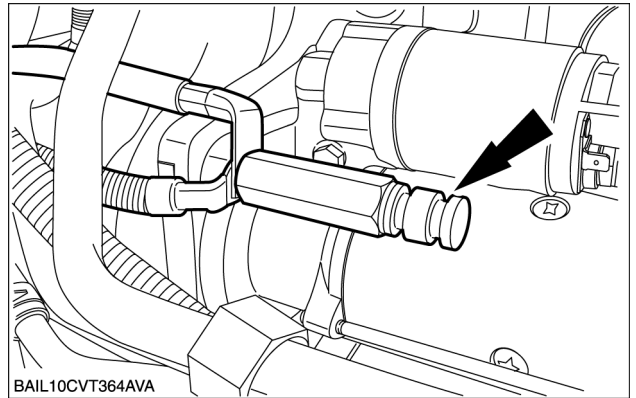
13. Disconnect the positive terminal (1), negative terminal (2) relay and bracket (3) and position to one side.



BAIL12APH147AVA

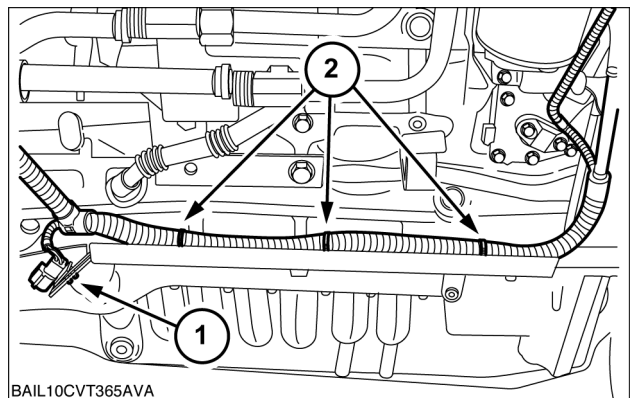
BAIL12APH147AVA 13

14. Disconnect the starter motor negative cables.



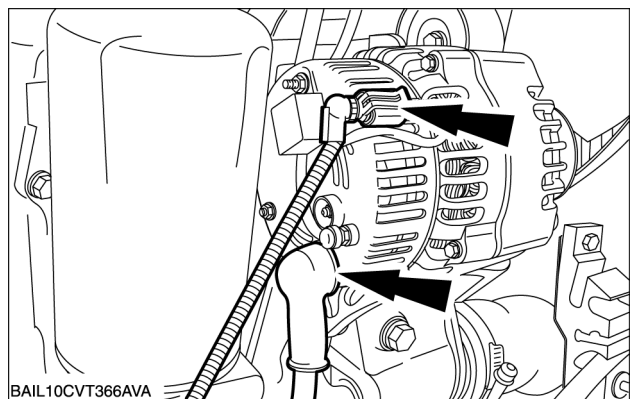
BAIL10CVT364AVA 14

15. Detach the alternator wiring harness electrical connector from the bracket (1) and detach the wiring harness (2).



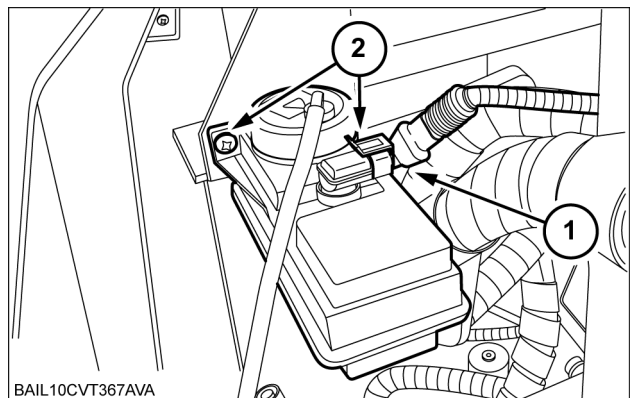
BAIL10CVT365AVA 15

16. Disconnect the alternator electrical connectors.



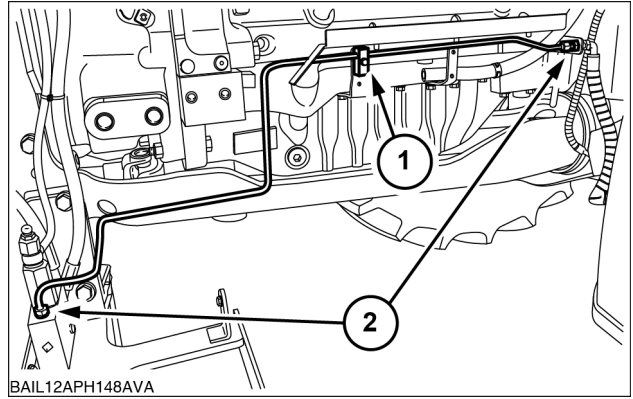
BAIL10CVT366AVA 16

17. Disconnect the brake fluid reservoir electrical connector (1) and detach the brake fluid reservoir (2) and position it to one side.



BAIL10CVT367AVA 17

18. Remove the front brake retaining bracket (1) and remove the front brake pipe (2).

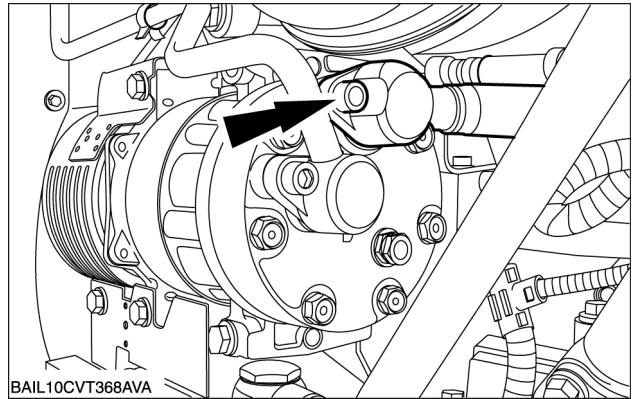


BAIL12APH148AVA

BAIL12APH148AVA 18

19. Disconnect the A/C pipe from the A/C compressor.

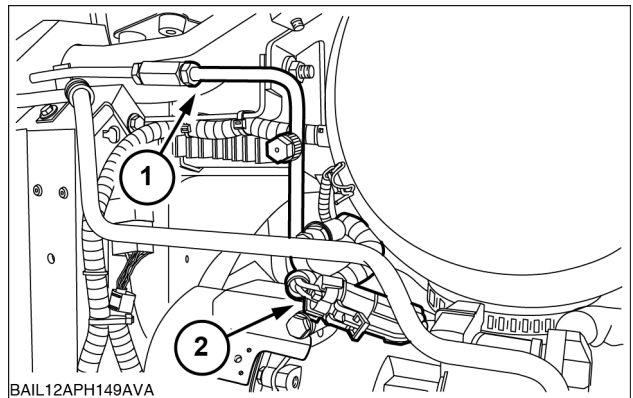
NOTE: Install blanking plugs/caps to all openings to prevent dirt ingress.



BAIL10CVT368AVA

BAIL10CVT368AVA 19

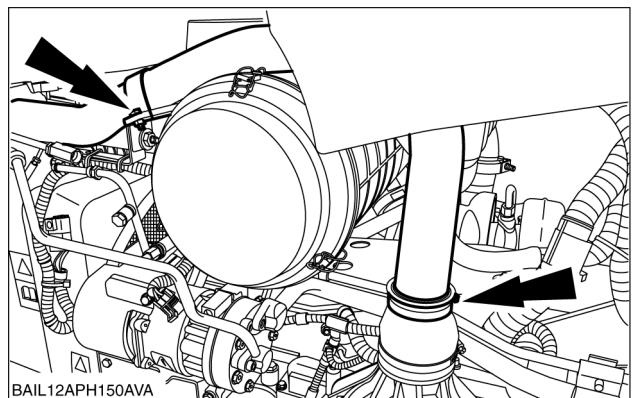
20. Disconnect the high pressure A/C pipe (1). Disconnect the low pressure switch electrical connector (2).



BAIL12APH149AVA

BAIL12APH149AVA 20

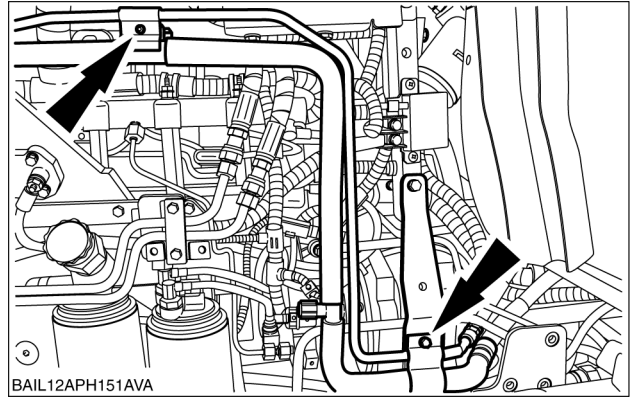
21. Disconnect the charge air cooler intake pipe.



BAIL12APH150AVA

BAIL12APH150AVA 21

22. Detach the A/C pipes and position it to one side.

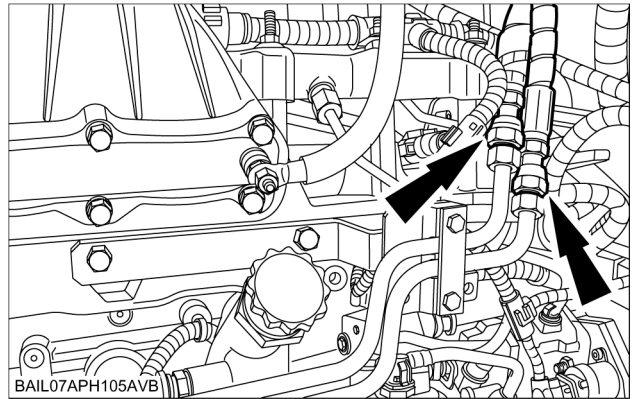


BAIL12APH151AVA

BAIL12APH151AVA 22

23. Disconnect the steering hoses.

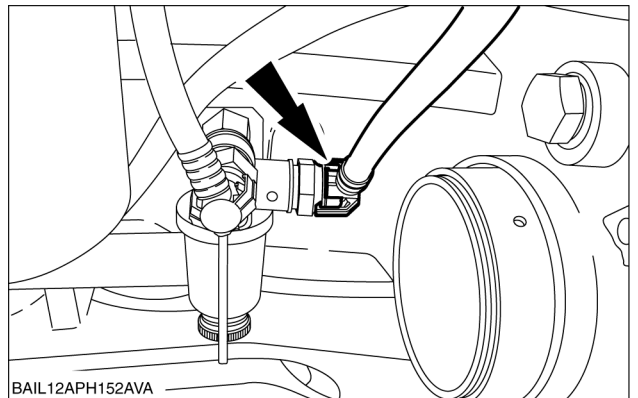
NOTE: Mark the hoses to aid installation.



BAIL07APH105AVB

BAIL07APH105AVB 23

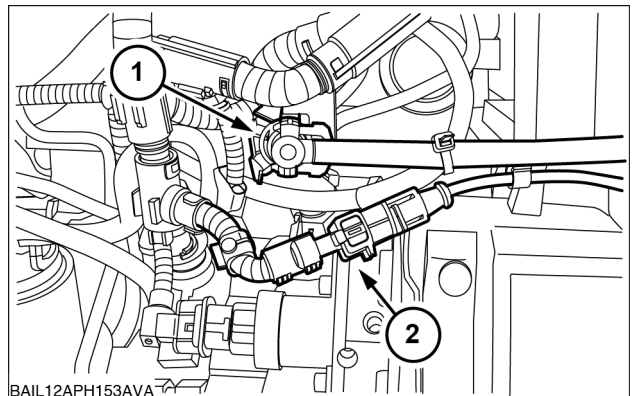
24. Disconnect the fuel supply line from the pre-filter/water trap.



BAIL12APH152AVA

BAIL12APH152AVA 24

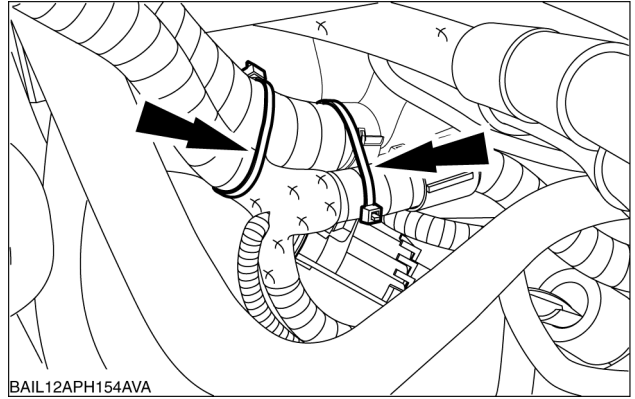
25. Disconnect the fuel return line (1).
Disconnect the flywheel electrical connector (2).



BAIL12APH153AVA

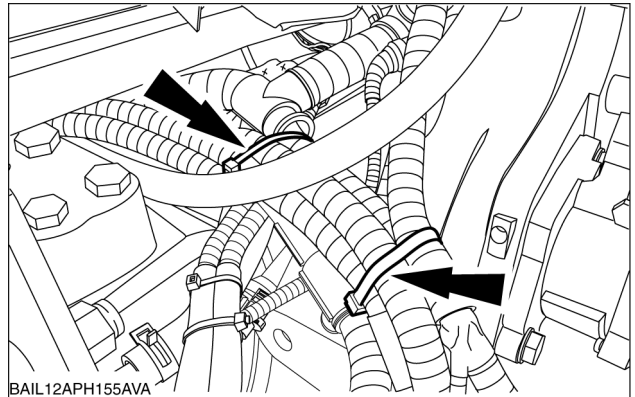
BAIL12APH153AVA 25

26. Cut the cable ties.



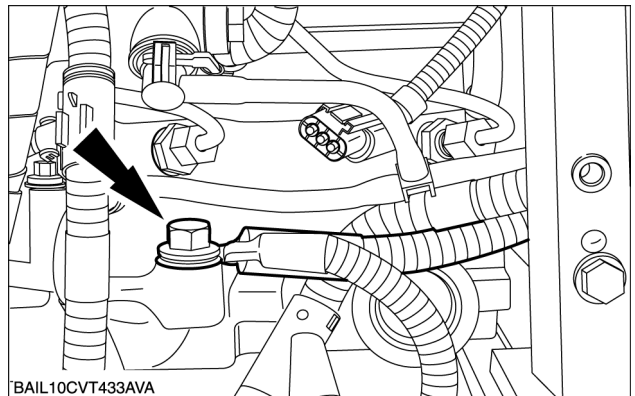
BAIL12APH154AVA 26

27. Cut the starter motor wiring harness cable ties.



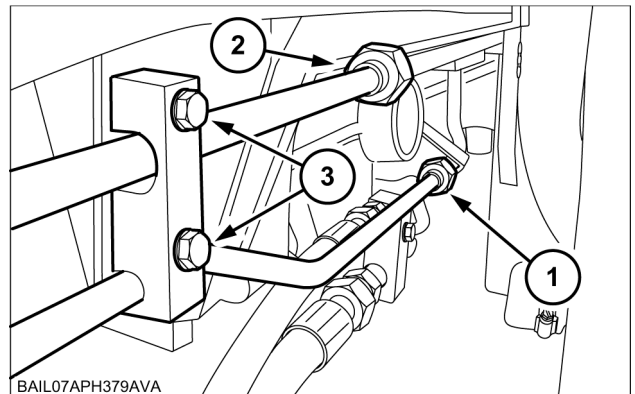
BAIL12APH155AVA 27

28. Disconnect the engine earth connector.



BAIL10CVT433AVA 28

29. Disconnect the diff lock supply pipe (1) and pneumatic brake supply pipe (2). Remove the pipe retaining bracket (3) and remove the pipes.



BAIL07APH379AVA 29

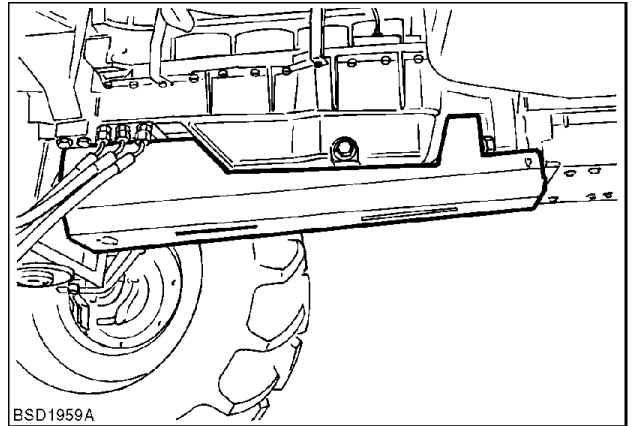
NOTE: Repeat the operation on both sides of the vehicle.

30.

Vehicles with standard front axle

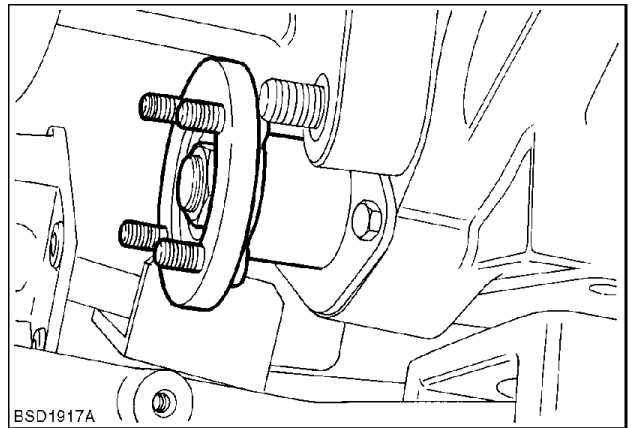
31. Remove the front wheel drive shaft guard and drive shaft.

NOTE: The type of drive shaft fitted is dependant on type of front axle installed.



BSD1959A 30

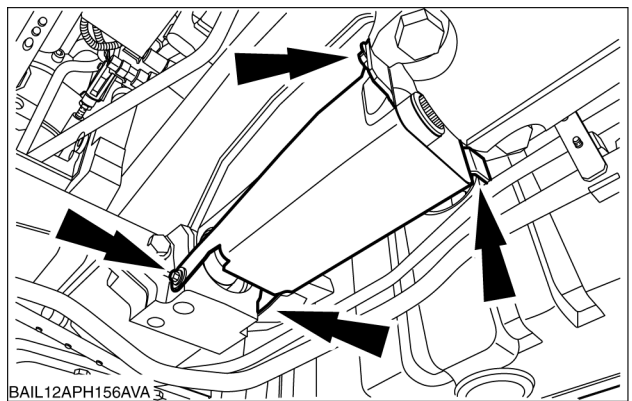
32. Remove the drive shaft flange, where fitted.



BSD1917A 31

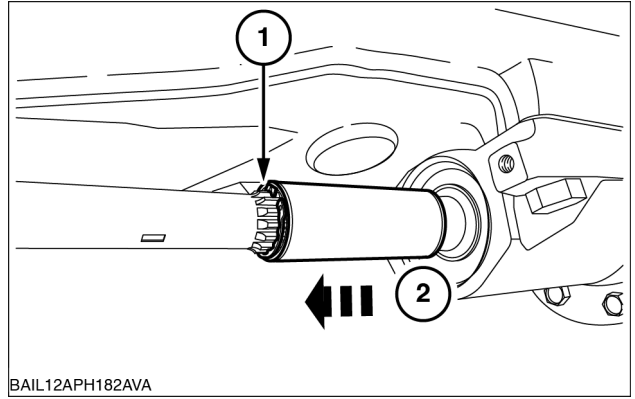
Vehicles with suspended front axle

33. Remove the front wheel drive shaft guard.



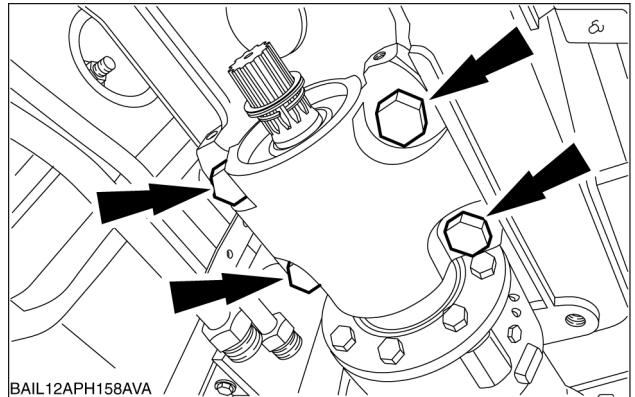
BAIL12APH156AVA 32

34. Remove the circlip (1).
Slide the drive shaft sleeve (2).



BAIL12APH182AVA 33

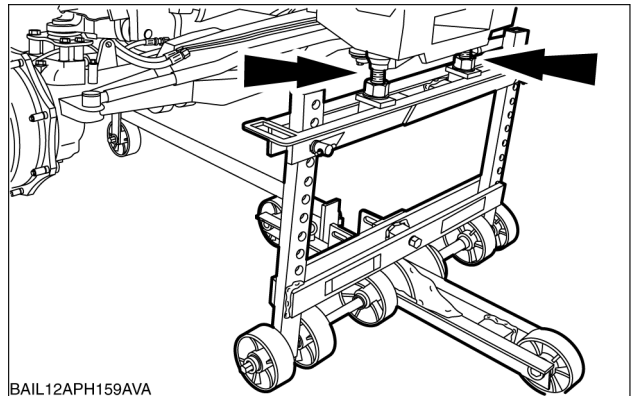
35. Disconnect the drive shaft bearing carrier.



BAIL12APH158AVA 34

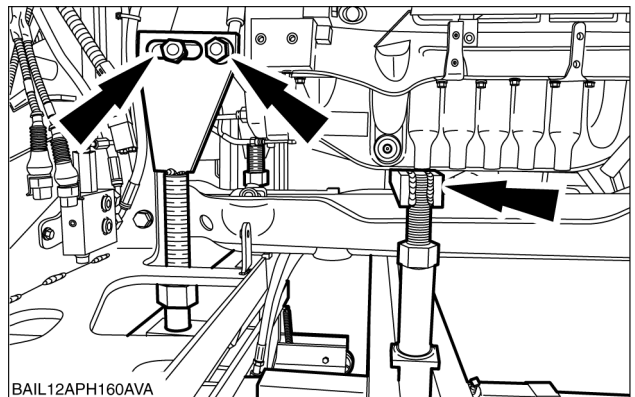
All vehicles

36. Using the tractor splitting equipment **380040228** Install the larger wheeled part of the splitting equipment under the front weight carrier.



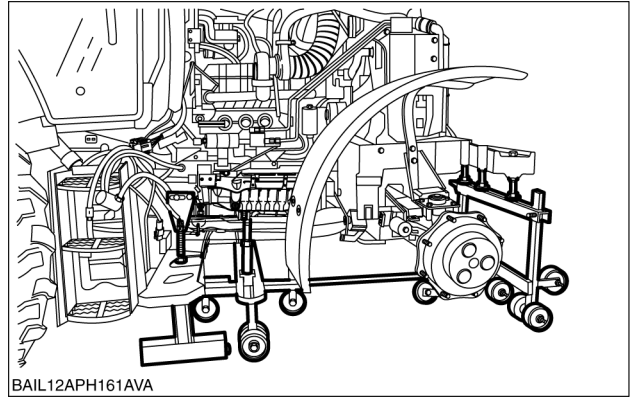
BAIL12APH159AVA 35

37. Position the static part of the splitting equipment under the transmission and secure to the transmission. Install the smaller wheeled part of the splitting equipment under the engine.



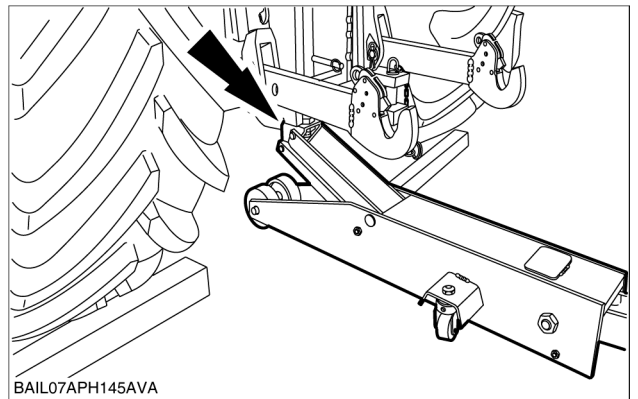
BAIL12APH160AVA 36

38. Connect the two pieces of the wheeled splitting gear together with the alignment bar.



BAIL12APH161AVA 37

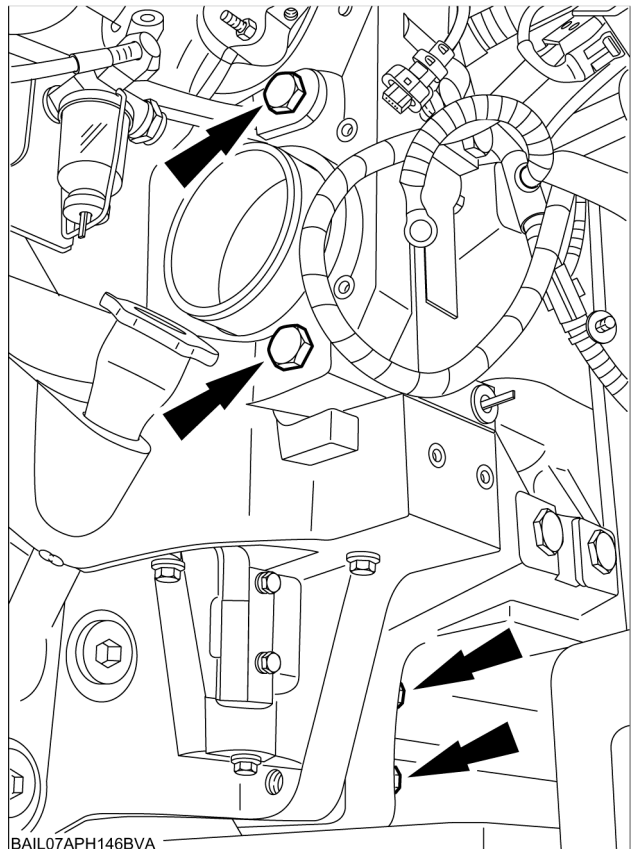
39. Support the rear of the vehicle.



BAIL07APH145AVA 38

40. Remove the left-hand side engine to transmission securing bolts.

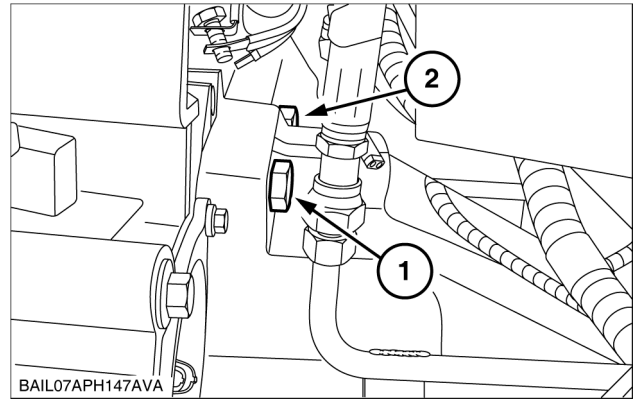
NOTE: Repeat this step for the right-hand side.



BAIL07APH146BVA 39

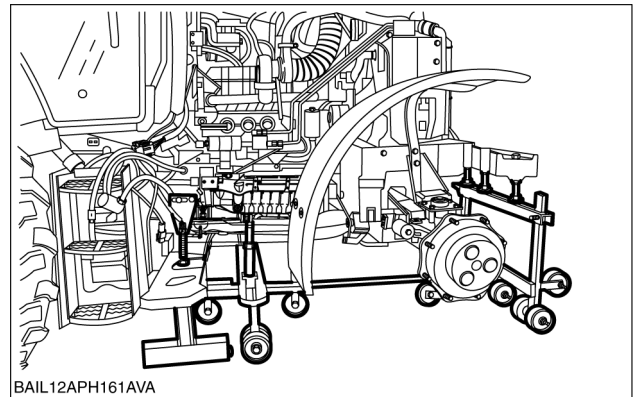
41. Remove the centre engine to transmission securing bolt (2). Remove the top left-hand engine to transmission securing bolt (1).

NOTE: Repeat this step for the right-hand side.



BAIL07APH147AVA 40

42. Separate the engine from the transmission.



BAIL12APH161AVA 41

Engine - Connect

MAXXUM 115 EP	NA
MAXXUM 115 Multicontroller EP	NA
MAXXUM 125 EP	NA
MAXXUM 125 Multicontroller EP	NA
MAXXUM 140 EP	NA
MAXXUM 140 Multicontroller EP	NA

⚠ WARNING

Heavy objects!

Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.

Failure to comply could result in death or serious injury.

W0398A

⚠ WARNING

Avoid injury!

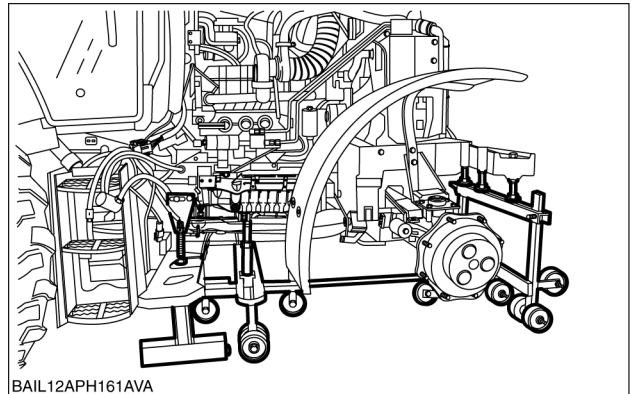
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.

Failure to comply could result in death or serious injury.

W0208A

All vehicles

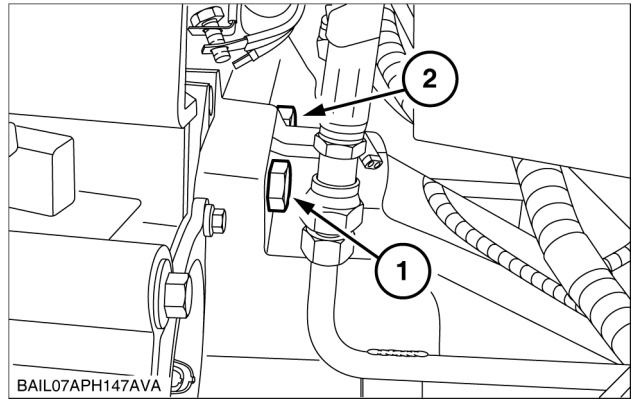
1. Thoroughly clean the engine to transmission mating surfaces and apply a bead of sealant.
2. Align the front support and engine assembly to the transmission and relocate.
Tighten to **285-315 Nm (210-232 lb ft)**.



BAIL12APH161AVA 1

3. Install the centre engine to transmission securing bolt (2). Install the top left hand engine to transmission securing bolt (1). Tighten to **285-315 Nm (210-232 lb ft)**.

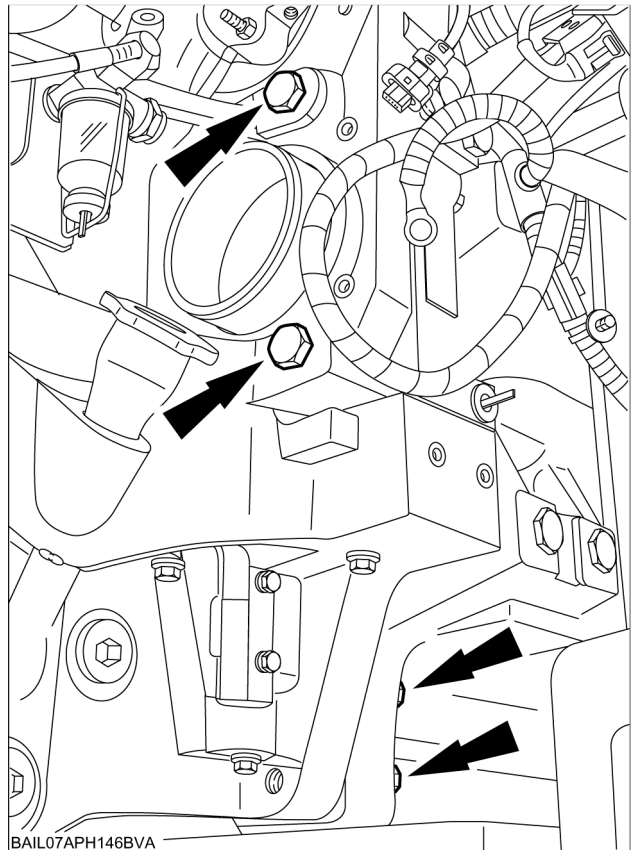
NOTE: Repeat this step for the right-hand side.



BAIL07APH147AVA 2

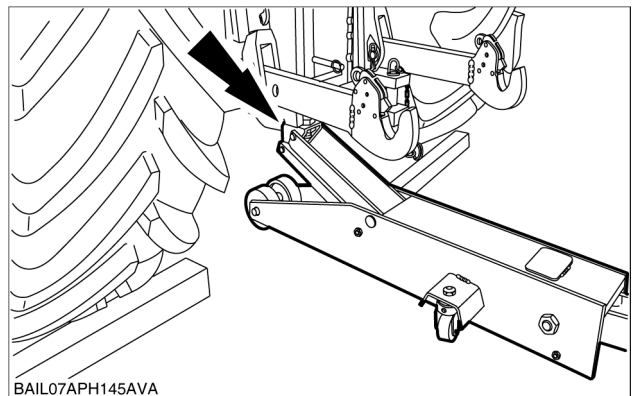
4. Install the left-hand side engine to transmission securing bolts.

NOTE: Repeat this step for the right-hand side.



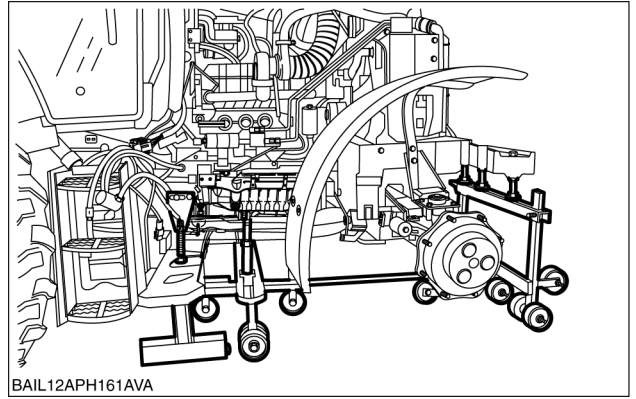
BAIL07APH146BVA 3

5. Remove the support from the rear of the vehicle.



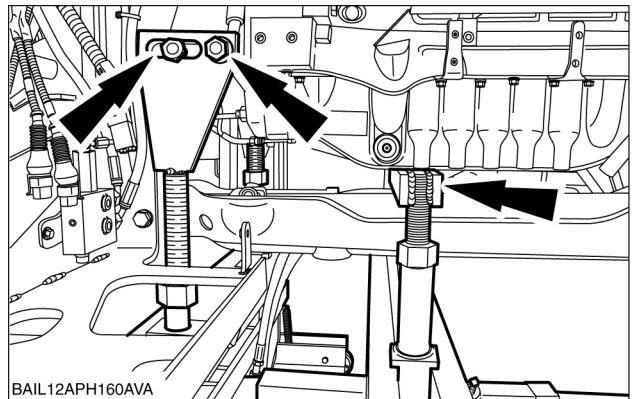
BAIL07APH145AVA 4

6. Disconnect the two pieces of the wheeled splitting gear **380040228** by removing the alignment bar.



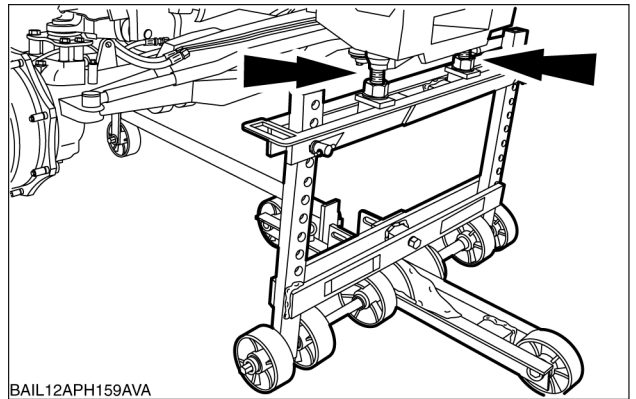
BAIL12APH161AVA 5

7. Remove the smaller wheeled part of the splitting equipment from under the engine.
Remove the splitting equipment securing bolts from the transmission.
Remove the splitting equipment from under the transmission.



BAIL12APH160AVA 6

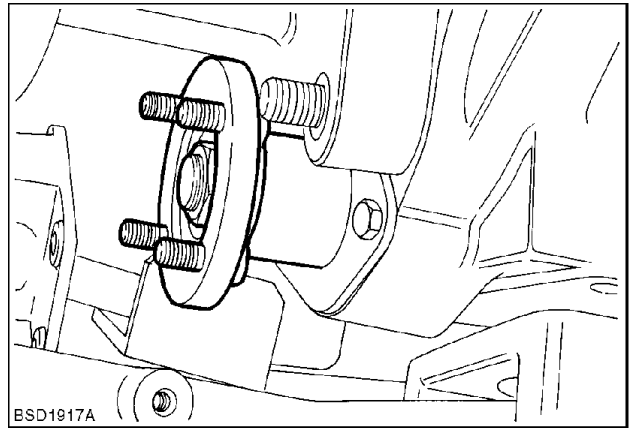
8. Place suitable axle stands under the front axle and support the vehicle. .
9. Remove the larger wheeled part of the splitting equipment from under the front weight carrier.



BAIL12APH159AVA 7

Vehicles with standard front axle

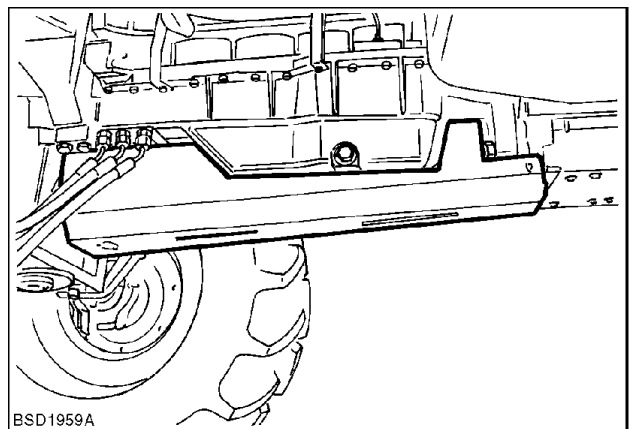
10. Install the drive shaft flange (if equipped).



BSD1917A 8

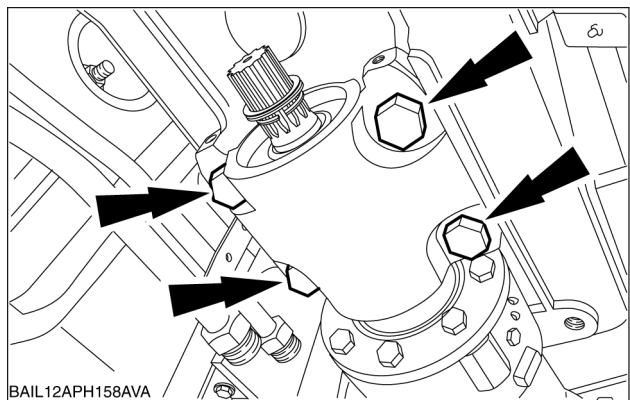
11. Install front wheel drive shaft and drive shaft guard.

NOTE: The type of drive shaft fitted is dependant on type of front axle installed.



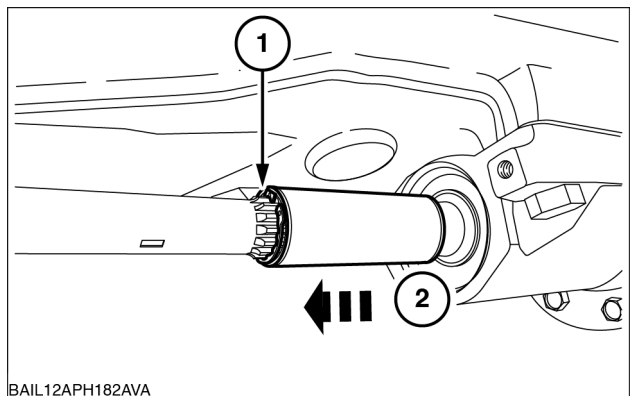
BSD1959A 9

12. Connect the drive shaft bearing carrier.



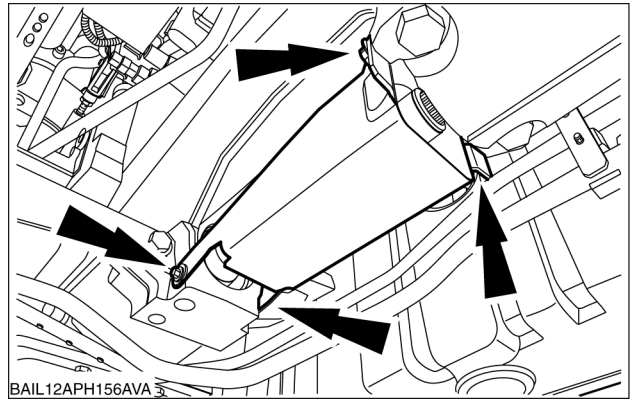
BAIL12APH158AVA 10

13. Slide the drive shaft sleeve (2) and install the circlip (1).



BAIL12APH182AVA 11

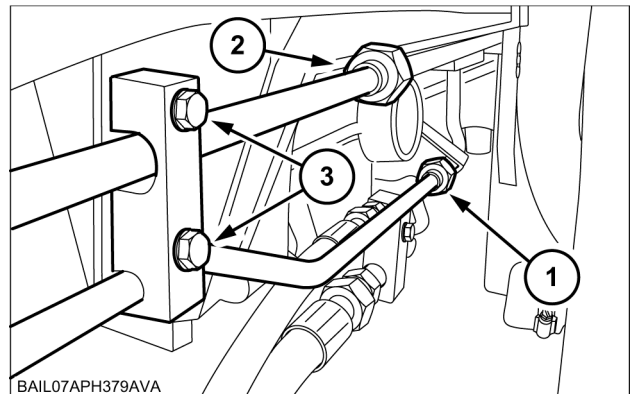
14. Install the front wheel drive shaft guard.



BAIL12APH156AVA 12

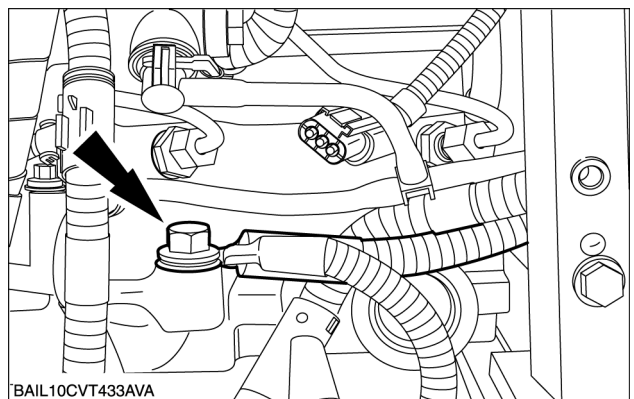
All vehicles

15. Connect the diff lock supply pipe (1) and pneumatic brake supply pipe (2).
Install the pipe retaining bracket (3).



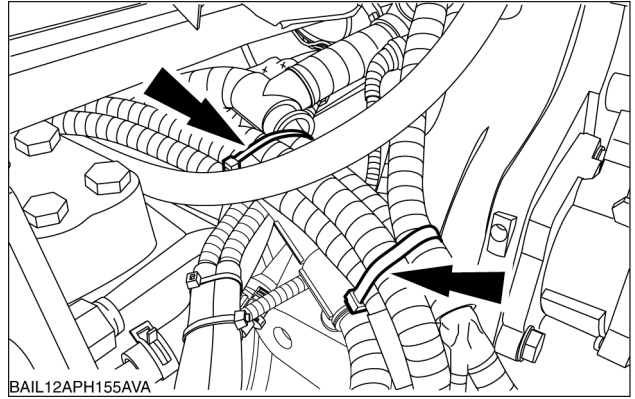
BAIL07APH379AVA 13

16. Connect the engine earth connector.



BAIL10CVT433AVA 14

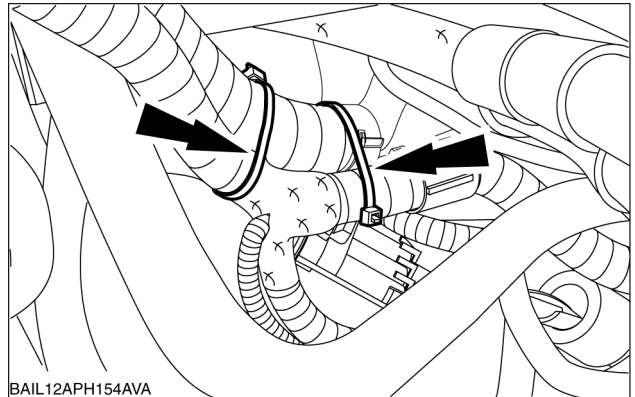
17. Install cable ties to the starter motor wiring harness.



BAIL12APH155AVA

BAIL12APH155AVA 15

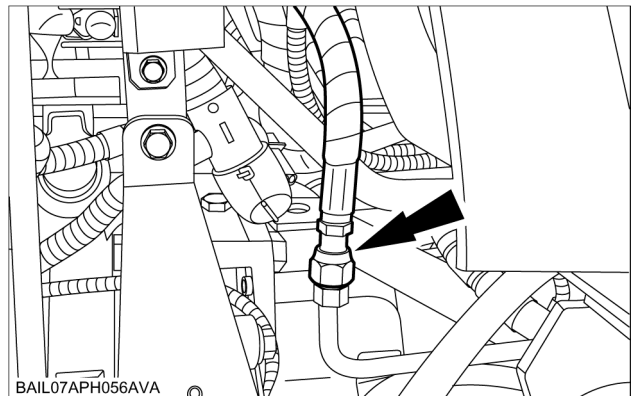
18. Install cable ties.



BAIL12APH154AVA

BAIL12APH154AVA 16

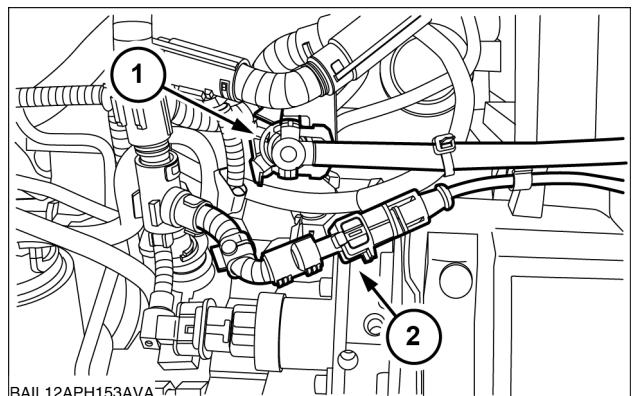
19. Connect the brake valve supply hose (if fitted).



BAIL07APH056AVA

BAIL07APH056AVA 17

20. Connect the fuel return line (1).
Connect the flywheel electrical connector (2).



BAIL12APH153AVA

BAIL12APH153AVA 18



Suggest:

If the above button click is invalid.

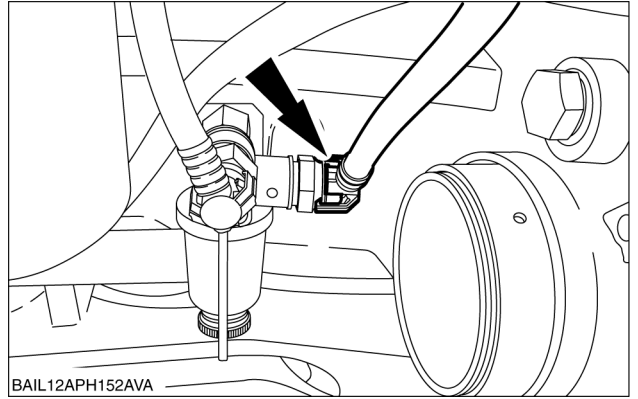
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first, and then click the above link

to download the complete manual.

Thank you so much for reading

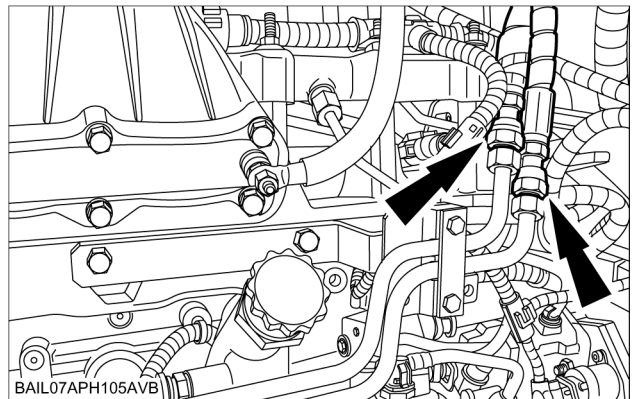
21. Connect the fuel supply line to the pre-filter/water trap.



BAIL12APH152AVA

BAIL12APH152AVA 19

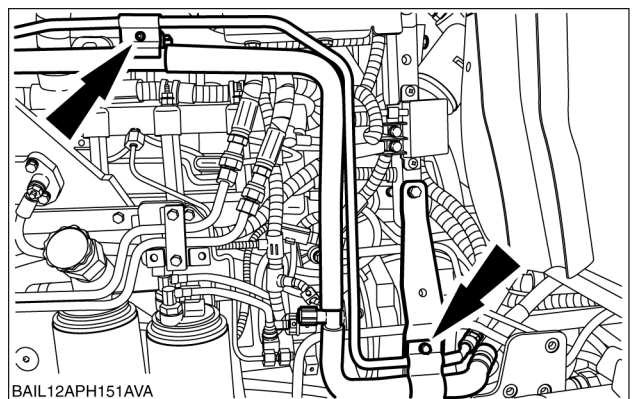
22. Connect the steering hoses.



BAIL07APH105AVB

BAIL07APH105AVB 20

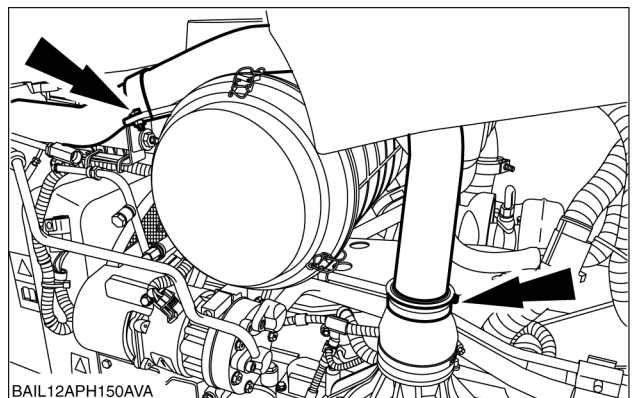
23. Attach the A/C pipes



BAIL12APH151AVA

BAIL12APH151AVA 21

24. Connect the charge air cooler intake pipe.



BAIL12APH150AVA

BAIL12APH150AVA 22

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