

# SERVICE MANUAL

**T7.220 / T7.235 / T7.250 / T7.260 / T7.270 Auto Command**  
**T7.220 / T7.235 / T7.250 / T7.260 Power Command**  
Tractor

Part number 47524331

English  
May 2013





## SERVICE MANUAL



**T7.220 AutoCommand , T7.220 Power Command , T7.235 AutoCommand ,  
T7.235 Power Command , T7.250 AutoCommand , T7.250 Power Command ,  
T7.260 AutoCommand , T7.260 Power Command , T7.270 AutoCommand**

## Link Product / Engine

<b>Product</b>	<b>Market Product</b>	<b>Engine</b>
T7.220 Power Command	Europe	F4DFE613L*A
T7.220 Power Command	North America	F4DFE613L*A
T7.220 Power Command	International Region	F4DFE613L*A
T7.235 Power Command	Europe	F4DFE613K*A
T7.235 Power Command	International Region	F4DFE613K*A
T7.235 Power Command	North America	F4DFE613K*A
T7.250 Power Command	North America	F4DFE613J*A
T7.250 Power Command	International Region	F4DFE613J*A
T7.250 Power Command	Europe	F4DFE613J*A
T7.260 Power Command	North America	F4DFE613H*A
T7.260 Power Command	Europe	F4DFE613H*A
T7.260 Power Command	International Region	F4DFE613H*A
T7.220 AutoCommand	Europe	F4DFE613L*A
T7.220 AutoCommand	International Region	F4DFE613L*A
T7.235 AutoCommand	International Region	F4DFE613K*A
T7.235 AutoCommand	Europe	F4DFE613K*A
T7.235 AutoCommand	North America	F4DFE613K*A
T7.250 AutoCommand	North America	F4DFE613J*A
T7.250 AutoCommand	Europe	F4DFE613J*A
T7.250 AutoCommand	International Region	F4DFE613J*A
T7.260 AutoCommand	Europe	F4DFE613H*A
T7.260 AutoCommand	North America	F4DFE613H*A
T7.260 AutoCommand	International Region	F4DFE613H*A
T7.270 AutoCommand	North America	F4DFE613G*A
T7.270 AutoCommand	International Region	F4DFE613G*A
T7.270 AutoCommand	Europe	F4DFE613G*A

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# INTRODUCTION

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## **Advice - Important notice regarding equipment servicing**

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any 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 caused by parts and/or components not approved by the manufacturer, 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 caused by parts and/or components not approved by the manufacturer.

The information in this manual is up-to-date at the date of the publication. It is the policy of the manufacturer for continuous improvement. Some information could not be updated due to modifications of a technical or commercial type, or changes to the laws and regulations of different countries.

In case of questions, refer to your Sales and Service Networks.

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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



# SERVICE MANUAL

## Engine



**T7.220 AutoCommand , T7.220 Power Command , T7.235 AutoCommand ,  
T7.235 Power Command , T7.250 AutoCommand , T7.250 Power Command ,  
T7.260 AutoCommand , T7.260 Power Command , T7.270 AutoCommand**

## Engine - Disconnect

**Prior operation:**

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

**Prior operation:**

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

**Prior operation:**

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

**Prior operation:**

Remove the selective catalytic reduction (SCR) exhaust line, for further information refer to **Exhaust pipes - Remove (10.254)**

**Prior operation:**

Remove the front AoH converter, for further information refer to **Air-over-Hydraulic (AoH) converter - Remove (33.350)**

**Prior operation:**

Remove the front wheels, for further information refer to **Front wheels - Remove (44.511)**

### **⚠ 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**

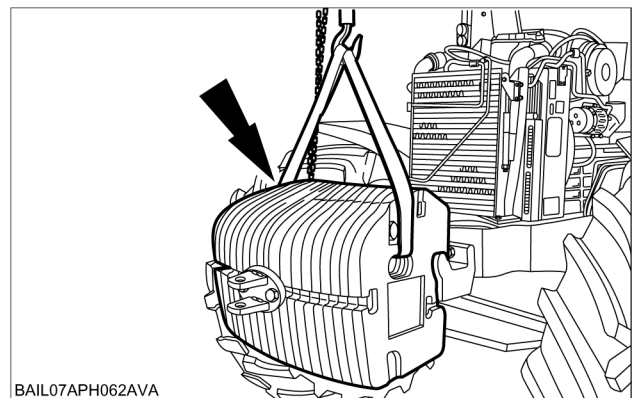
**Avoid injury!**

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

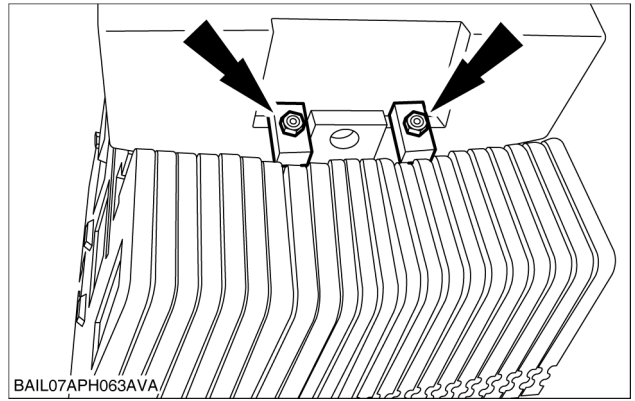
1. Using suitable lifting equipment support the front weights.



BAIL07APH062AVA

BAIL07APH062AVA 1

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

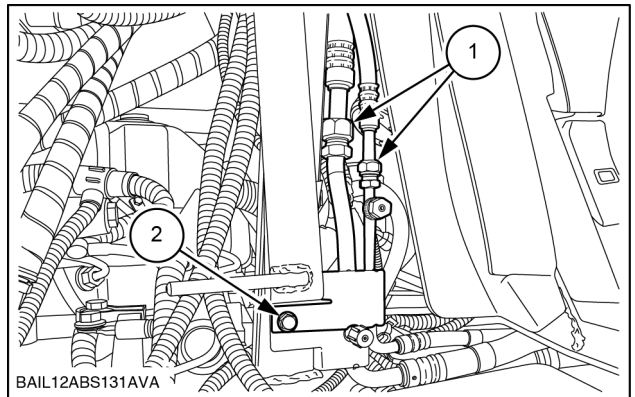


BAIL07APH063AVA

BAIL07APH063AVA 2

3. Disconnect the air conditioning hoses (1) and detach the bracket (2).

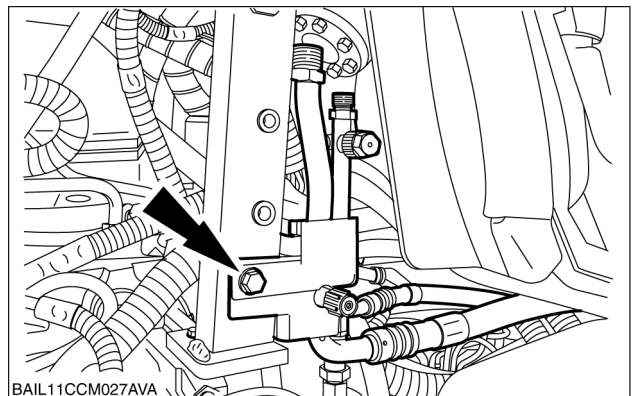
**NOTE:** Cap all open connections to prevent contamination of the system.



BAIL12ABS131AVA

BAIL12ABS131AVA 3

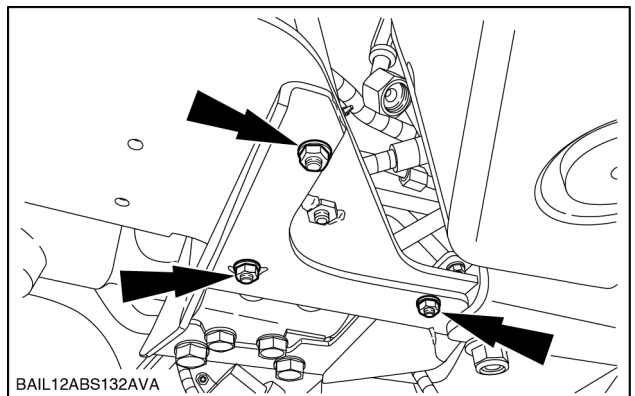
4. Detach the air conditioning pipe bracket from the engine frame.



BAIL11CCM027AVA

BAIL11CCM027AVA 4

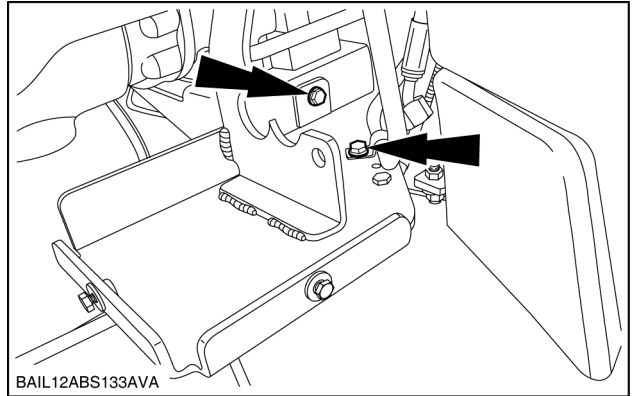
5. Remove the front AoH bracket lower bolts.



BAIL12ABS132AVA

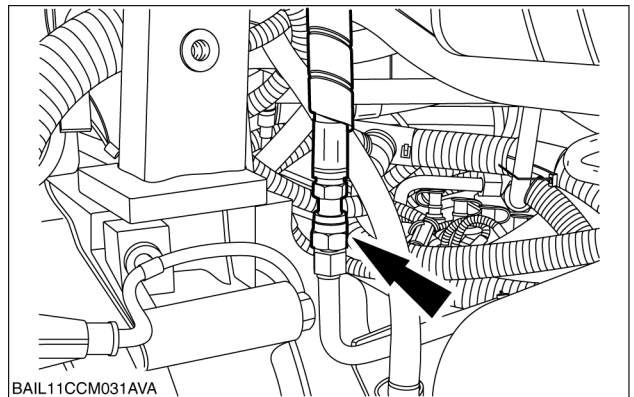
BAIL12ABS132AVA 5

6. Detach the pipe bracket and remove the AoH bracket.



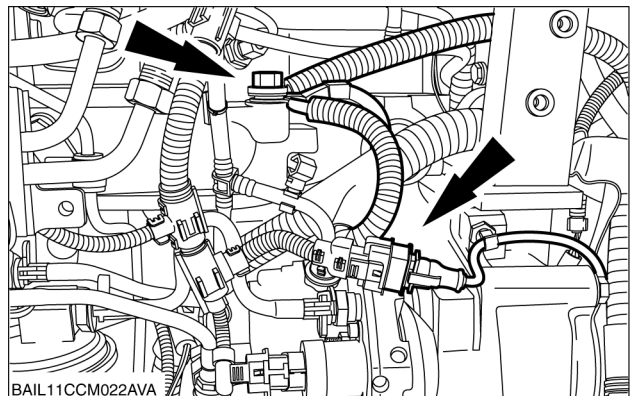
BAIL12ABS133AVA 6

7. Disconnect the brake valve supply hose (if fitted).



BAIL11CCM031AVA 7

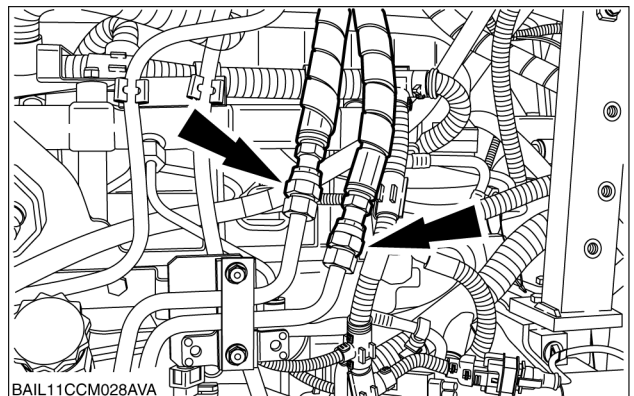
8. Disconnect the flywheel position sensor electrical connector.



BAIL11CCM022AVA 8

9. Disconnect the steering hoses.

**NOTE:** Make a note of the position of the hoses to aid installation.



BAIL11CCM028AVA 9



**Suggest:**

**If the above button click is invalid.**

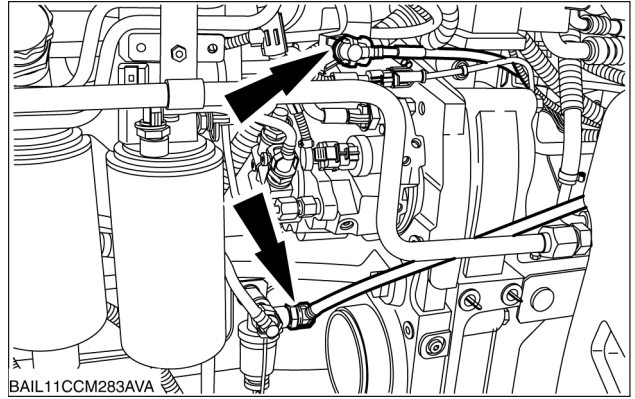
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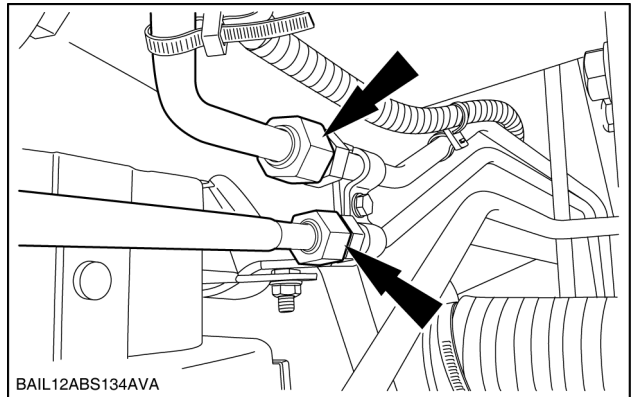
**Thank you so much for reading**

10. Disconnect the fuel supply and return lines.



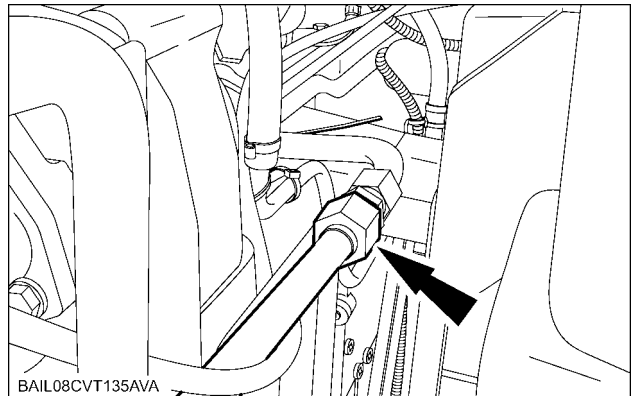
BAIL11CCM283AVA 10

11. Disconnect the diff lock and suspension pipes.



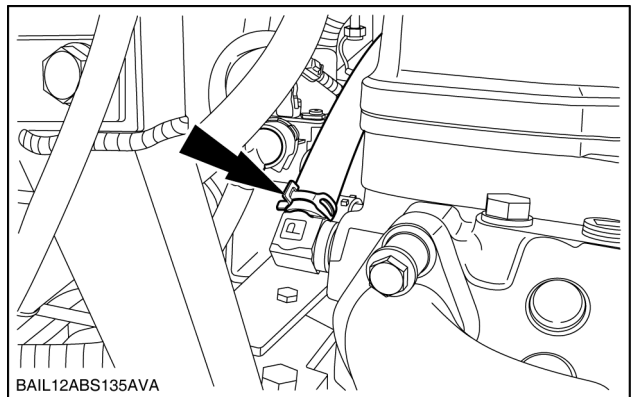
BAIL12ABS134AVA 11

12. Disconnect the trailer brake air supply pipe.



BAIL08CVT135AVA 12

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



BAIL12ABS135AVA 13

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