

SERVICE MANUAL

CX5.80 / CX5.90 / CX5.90 Laterale
CX5.90 Hillside / CX6.80 / CX6.90
CX6.90 Laterale
Combine

Part number 51431545

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SERVICE MANUAL

CX5.80 FPT NEF 6 STAGE IV, CX5.90 FPT NEF 6 STAGE IV, CX5.90 FPT NEF 6 TIER 3, CX5.90 Hillside FPT NEF 6 STAGE IV, CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV, CX6.80 FPT NEF 6 STAGE IV, CX6.80 FPT NEF 6 TIER 3, CX6.90 FPT CURSOR 9 STAGE IV, CX6.90 FPT CURSOR 9 TIER 3, CX6.90 FPT CURSOR 9 TIER 3, CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV

Link Product / Engine

Product	Market Product	Engine
CX5.80 FPT NEF 6 STAGE IV	Europe	F4HFE613D*B007
CX5.90 FPT NEF 6 TIER 3	Europe	F4HE9687G*J104
CX5.90 FPT NEF 6 TIER 3	Asia Pacific	F4HE9687G*J104
CX5.90 FPT NEF 6 TIER 3	Middle East Africa	F4HE9687G*J104
CX5.90 FPT NEF 6 STAGE IV	Europe	F4HFE613E*B005
CX5.90 Hillside FPT NEF 6 STAGE IV	Europe	F4HFE613E*B005
CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV	Europe	F4HFE613E*B005
CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV	Asia Pacific	F4HFE613E*B005
CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV	Middle East Africa	F4HFE613E*B005
CX6.80 FPT NEF 6 TIER 3	Middle East Africa	F4HE9687G*J104
CX6.80 FPT NEF 6 TIER 3	Europe	F4HE9687G*J104
CX6.80 FPT NEF 6 TIER 3	Asia Pacific	F4HE9687G*J104
CX6.80 FPT NEF 6 STAGE IV	Europe	F4HFE613E*B005
CX6.90 FPT CURSOR 9 TIER 3	Middle East Africa	F2CE9684C*E030
CX6.90 FPT CURSOR 9 TIER 3	Europe	F4HE9687G*J104
CX6.90 FPT CURSOR 9 TIER 3	Asia Pacific	F2CE9684C*E030
CX6.90 FPT CURSOR 9 TIER 3	Asia Pacific	F2CE9684C*E030
CX6.90 FPT CURSOR 9 STAGE IV	Europe	F2CFE613F*B003
CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV	Asia Pacific	F2CFE613F*B003
CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV	Middle East Africa	F2CFE613F*B003
CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV	Europe	F2CFE613F*B003

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INTRODUCTION

Basic instructions - How to use and navigate through this Manual

Technical information

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 in 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 his machine it is usually because a function or system on his machine is not working at all, is not working efficiently, or is not responding correctly to his 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 then you will 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 - is the component or function on the machine, that the piece of technical information is going to describe e.g. Fuel tank.
- INFORMATION TYPE - is 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 that would describe the amount of fuel held by the Fuel tank.
- PRODUCT - is the model for which the piece of technical information is written.

Every piece of technical information will have those 3 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 his machine.

That information could be:

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

How to use this manual

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 a 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 and, assemblies.
- Functional Data (how it works) for all the mechanical, electrical or hydraulic devices, components and assemblies.
- Diagnostic Data (fault codes, electrical and hydraulic troubleshooting) for all the mechanical, electrical or hydraulic devices, components and assemblies.
- Service Data (remove disassembly, assemble, install) for all the mechanical, electrical or hydraulic devices, components and 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 amount of 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						
05 - Machine completion and equipment						
10 - Engine						
14 - Main gearbox and drive						
18 - Clutch						
21 - Transmission						
23 - Four wheel drive system						
25 - Front axle system						
27 - Rear axle system						
29 - Hydrostatic drive						
31 - Implement power take-off						
33 - Brakes and controls						
35 - Hydraulic systems						
36 - Pneumatic system						
37 - Hitches, drawbars and implement couplings						
39 - Frames and ballasting						
41 - Steering						
44 - Wheels						
46 - Steering clutches						
48 - Tracks and track suspension						
50 - Cab climate control						
55 - Electrical systems						
56 - Grape harvester shaking						
58 - Attachments/headers						
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73 - Residue handling						
74 - Cleaning						
75 - Soil preparation/Finishing						
76 - Secondary cleaning / Destemmer						
77 - Seeding						
78 - Spraying						
79 - Planting						
80 - Crop storage / Unloading						
82 - Front loader and bucket						
83 - Telescopic single arm						
84 - Booms, dippers and buckets						
86 - Dozer blade and arm						
88 - Accessories						
89 - Tools						
90 - Platform, cab, bodywork and decals						

Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.



SERVICE MANUAL

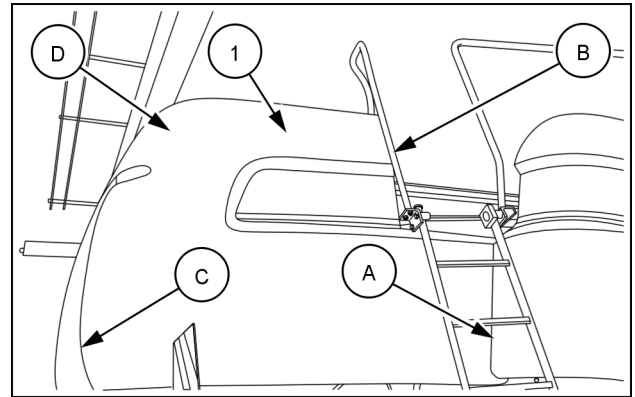
Engine

CX5.80 FPT NEF 6 STAGE IV, CX5.90 FPT NEF 6 STAGE IV, CX5.90 FPT NEF 6 TIER 3, CX5.90 Hillside FPT NEF 6 STAGE IV, CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV, CX6.80 FPT NEF 6 STAGE IV, CX6.80 FPT NEF 6 TIER 3, CX6.90 FPT CURSOR 9 STAGE IV, CX6.90 FPT CURSOR 9 TIER 3, CX6.90 FPT CURSOR 9 TIER 3, CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV

Diesel Exhaust Fluid (DEF)/AdBlue®/ARLA tank - Remove

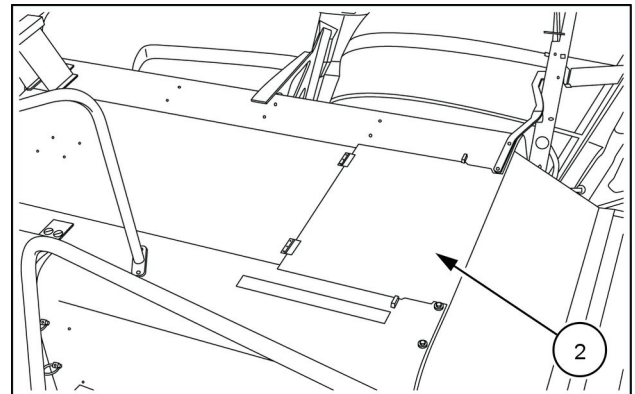
CX5.80 FPT NEF 6 STAGE IV	
CX5.90 FPT NEF 6 STAGE IV	
CX5.90 Hillside FPT NEF 6 STAGE IV	
CX5.90 Laterale FPT NEF 6 TIER 4B (FINAL) AND STAGE IV	
CX6.80 FPT NEF 6 STAGE IV	
CX6.90 FPT CURSOR 9 STAGE IV	
CX6.90 Laterale FPT CURSOR 9 TIER 4B (FINAL) AND STAGE IV	

NOTE: It is required to remove the rear right-hand side shield (1) to gain access to the DEF/AdBlue® tank. The shield (1) is secured to the machine frame at four locations (A), (B), (C) and (D).



ZEIL14CXM0123AZ 1

NOTE: Access to some of the hardware is through the straw walker inspection cover (2).



ZEIL14CXM0131AA 2

⚠ CAUTION

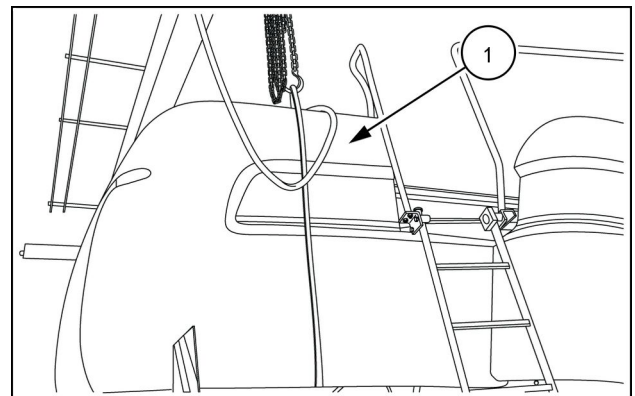
Heavy object!

The component is heavy. Use care not to drop the component when installing, removing, or handling.

Failure to comply could result in minor or moderate injury.

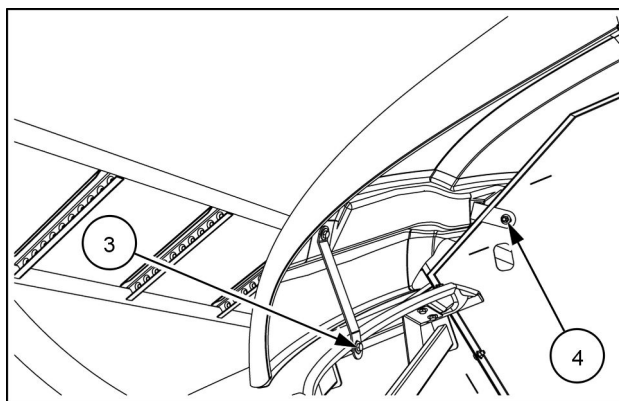
C0095A

1. Use a suitable hoist and secure the rear right-hand side shield (1).



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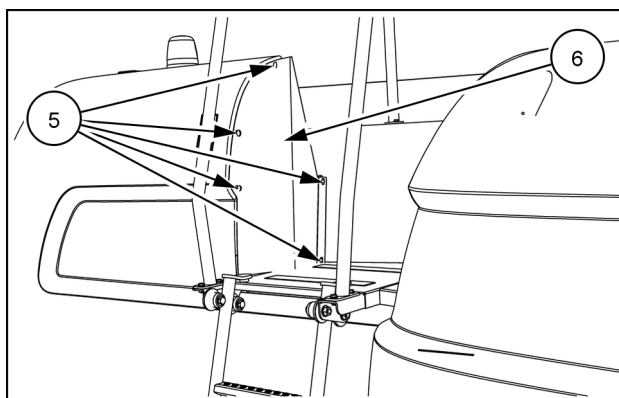
2. Remove the hardware (3) and (4) from the rear right-hand side shield at the location (A) (see figure 1).



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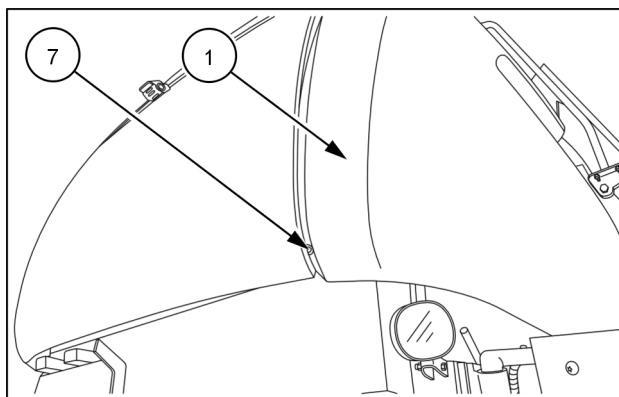
3. Remove the hardware (5) and the cover plate (6) at the location (B) (see figure 1).

NOTE: Get access to the hardware (5) through the cover (2) (see figure 2).



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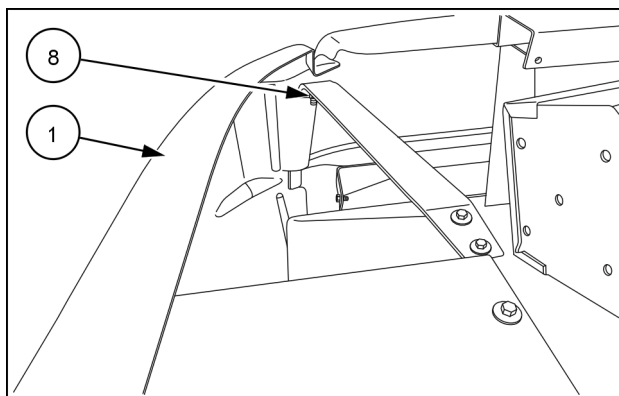
4. Remove the hardware (7) from the rear right-hand side shield (1) at the location (C) (see figure 1).



ZEIL14CXM0127AA 6

5. Remove the hardware (8) from the rear right-hand side shield (1) at the location (D) (see figure 1).

6. Remove the rear right-hand side shield (1).



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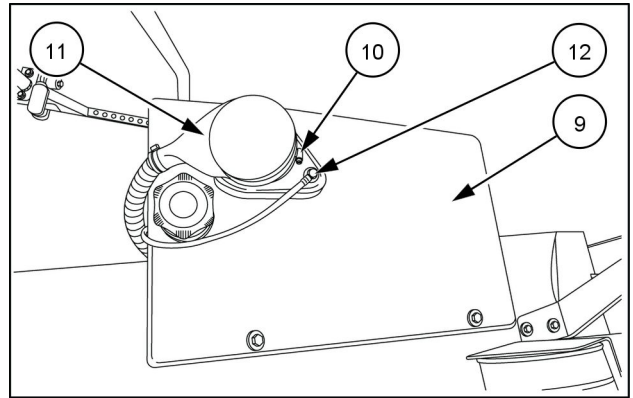
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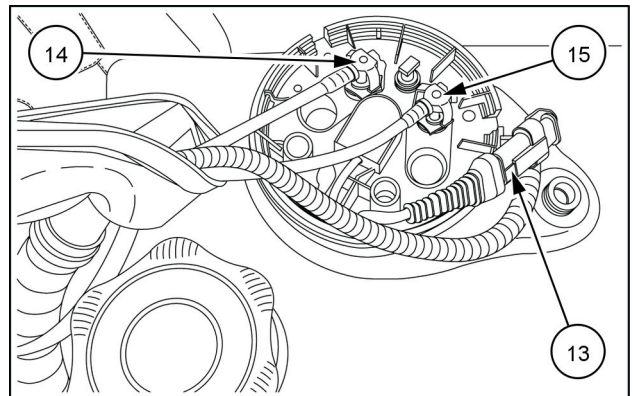
Thank you so much for reading

7. On the **DEF/AdBlue®** tank (9), loosen the clamp (10) and remove the cover (11).
8. Disconnect the **DEF/AdBlue®** line (12).



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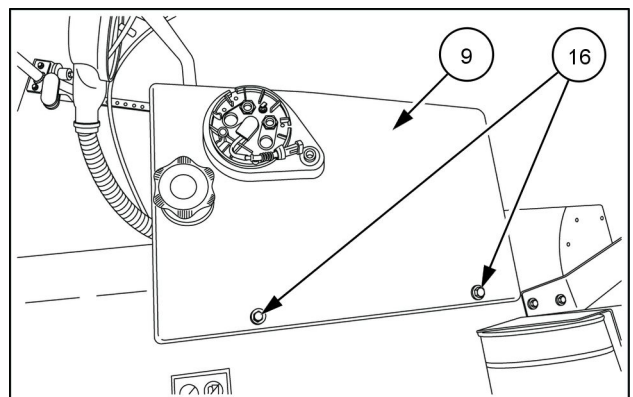
9. Disconnect the electrical connector (13).
10. Mark and disconnect the **DEF/AdBlue®** lines (14) and (15).



ZEIL14CXM0129AA 9

11. On the **DEF/AdBlue®** tank (9), remove the hardware (16).

NOTE: Get access to the hardware (16) through the straw walker inspection cover (2) (see figure 2).



ZEIL14CXM0130AA 10

⚠ CAUTION

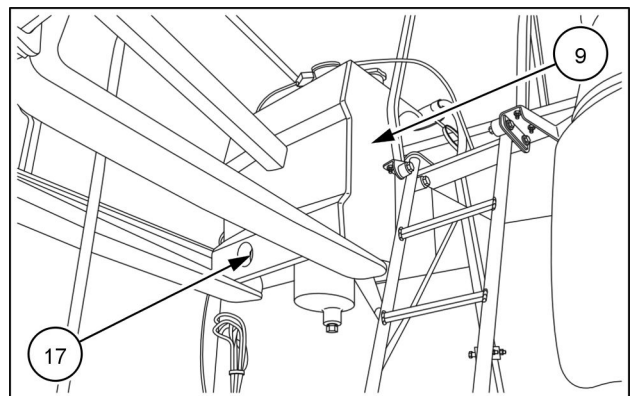
Heavy object!

The component is heavy. Use care not to drop the component when installing, removing, or handling.

Failure to comply could result in minor or moderate injury.

C0095A

12. Secure the **DEF/AdBlue®** tank (9) with a suitable fork-lift and slings.
13. Support the **DEF/AdBlue®** tank (9) and remove the hardware (17).
14. Slowly remove the **DEF/AdBlue®** tank (9) from the machine frame.



ZEIL14CXM0132AA 11

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