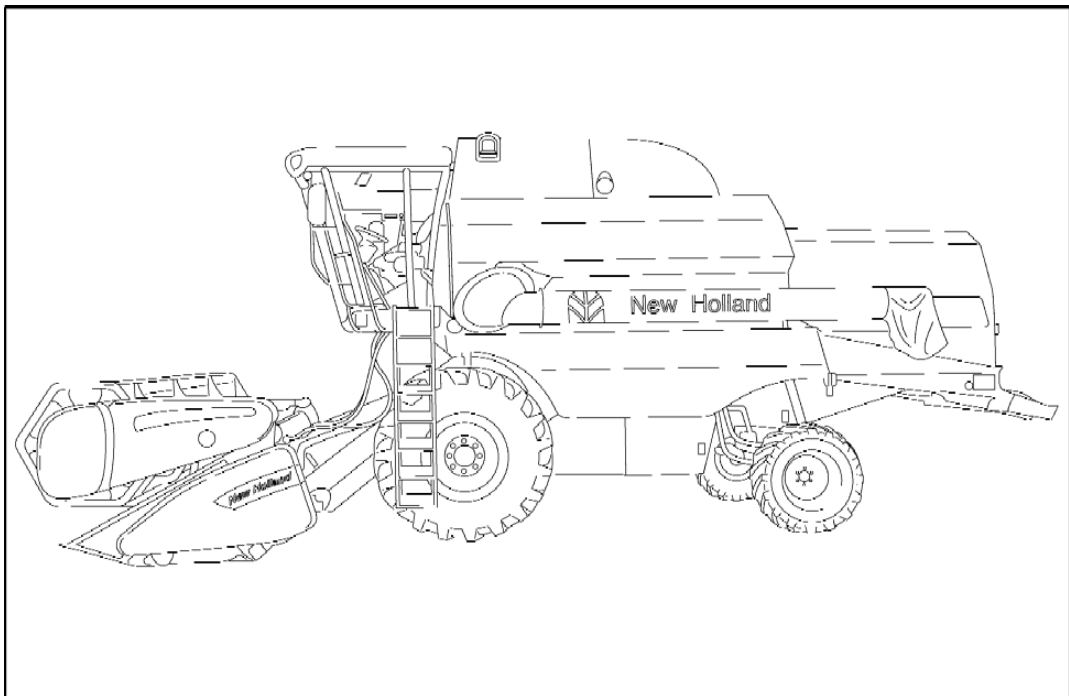


SERVICE MANUAL



**TC5040 [9622 -] , TC5050 [9622 -] , TC5060 [9622 -] , TC5070 [9622 -] ,
TC5070 , TC5080 Hillside , TC5080 [9622 -] , TC5080**

Contents

INTRODUCTION

Engine.....	10
Engine air compressor	10.450
Clutch	18
Clutch hydraulic release control	18.104
Clutch and components	18.110
Transmission.....	21
Mechanical transmission	21.114
Mechanical transmission external controls	21.130
Gearbox	21.120
Gearbox internal components	21.145
Differential	21.182
Front axle system	25
Final drives	25.310
Rear axle system.....	27
Planetary and final drives.....	27.120
Hydrostatic drive.....	29
Transmission and steering hydrostatic control	29.100
Reservoir, cooler, and lines.....	29.204
Pump and motor components	29.218
Hydrostatic transmission	29.202
Rear hydrostatic transmission	29.300
Brakes and controls	33
Hydraulic service brakes	33.202
Parking brake.....	33.110
Hydraulic systems.....	35

Hydraulic systems	35.000
Reservoir, cooler, and filters	35.300
Variable displacement pump	35.106
Main control valve	35.359
Remote control valves	35.204
Machine leveling control system	35.610
Machine lateral leveling system	35.630
Machine longitudinal leveling system.....	35.640
Header/Attachment leveling system.....	35.602
Reel control system	35.518
Steering.....	41
Hydraulic control components	41.200
Pump	41.206
Cylinders	41.216
Cab climate control	50
Air conditioning	50.200
Electrical systems	55
Electrical system	55.000
Harnesses and connectors	55.100
Selective Catalytic Reduction (SCR) electrical system.....	55.988
Electronic modules	55.640
Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls.....	55.051
Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.050
Sieve electric control	55.834
Precision farming system.....	55.785
FAULT CODES	55.DTC
Attachments/Headers.....	58
Attachment/Header reel	58.101
Belt feeding.....	58.900

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Product feeding	60
Feed roll	60.101
Floating roll, feed chain, and drive	60.105
Feeder drive system	60.150
Length-of-cut gearbox	60.122
Threshing	66
Threshing	66.000
Drum	66.330
Drum/Rotor variator with electrical control	66.321
Concave	66.105
Separation	72
Beater	72.350
Straw walkers and shafts	72.101
Residue handling	73
Straw chopper drive system	73.210
Straw chopper electromagnetic clutch support	73.215
Cleaning	74
Cleaning	74.000
Cleaning drive systems	74.101
Grain pan	74.110
Upper shaker shoe	74.114
Lower shaker shoe	74.118
Fan housing	74.130
Fan drive system	74.136
Tailings return system	74.140
Crop storage / Unloading	80
Clean grain elevator	80.101
Platform, cab, bodywork, and decals	90

Cab doors and hatches..... 90.154



INTRODUCTION

Foreword

TC5040, TC5050, TC5060, TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

IMPORTANT INFORMATION

All repair and maintenance works listed in this manual must be carried out only by staff belonging to the NEW HOLLAND 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.

No reproduction, though partial of text and illustrations allowed

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.

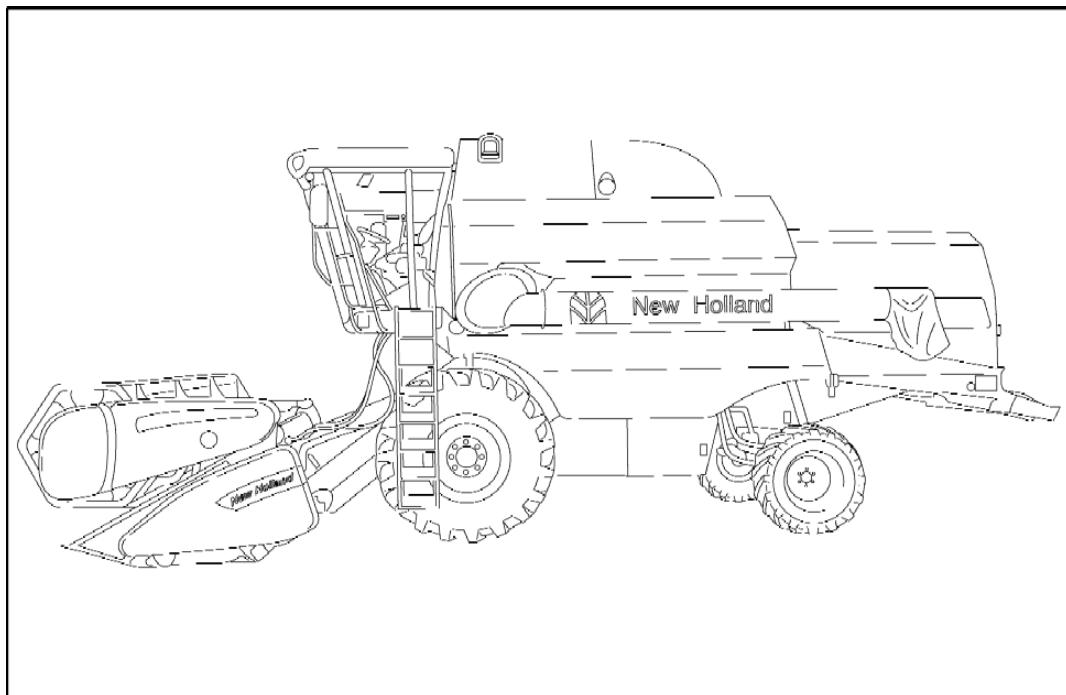
SECTION	PRODUCT				
	Tractors				
	Vehicles with working arms: backhoes, excavators, skid steers,				
	Combines, forage harvesters, balers,				
	Seeding, planting, floating, spraying equipment,				
	Mounted equipment and tools,				
00 - Maintenance	X	X	X	X	X
05 - Machine completion and equipment					
10 - Engine	X	X	X	X	
14 - Main gearbox and drive					
18 - Clutch	X				
21 - Transmission	X	X	X	X	
23 - Four wheel drive system	X		X	X	
25 - Front axle system	X		X		
27 - Rear axle system	X	X	X	X	
29 - Hydrostatic drive	X				
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					
60 - Product feeding					

INTRODUCTION

61 - Metering system					
62 - Pressing - Bale formation					
63 - Chemical applicators					
64 - Chopping					
66 - Threshing					
68 - Tying/Wrapping/Twisting					
69 - Bale wagons					
70 - Ejection					
71 - Lubrication system					
72 - Separation					
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					

SERVICE MANUAL

Engine



**TC5040 [9622 -] , TC5050 [9622 -] , TC5060 [9622 -] , TC5070 [9622 -] ,
TC5070 , TC5080 Hillside , TC5080 [9622 -] , TC5080**

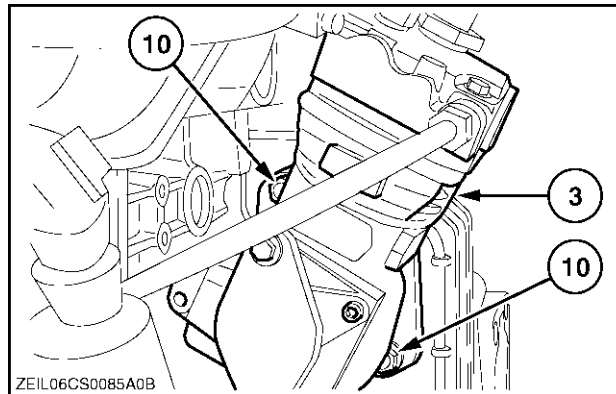
Air compressor - Static description

TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

The air compressor **(3)** is a single cylinder, gear driven air compressor, which supplies air to a reservoir tank, enabling the operator to have a source of compressed air for cleaning purposes and tyre inflation. The compressor is mounted directly on the engine with the two nuts **(10)**.

Engine oil is supplied through an internal connection with the engine, using engine oil pressure to lubricate the compressor.

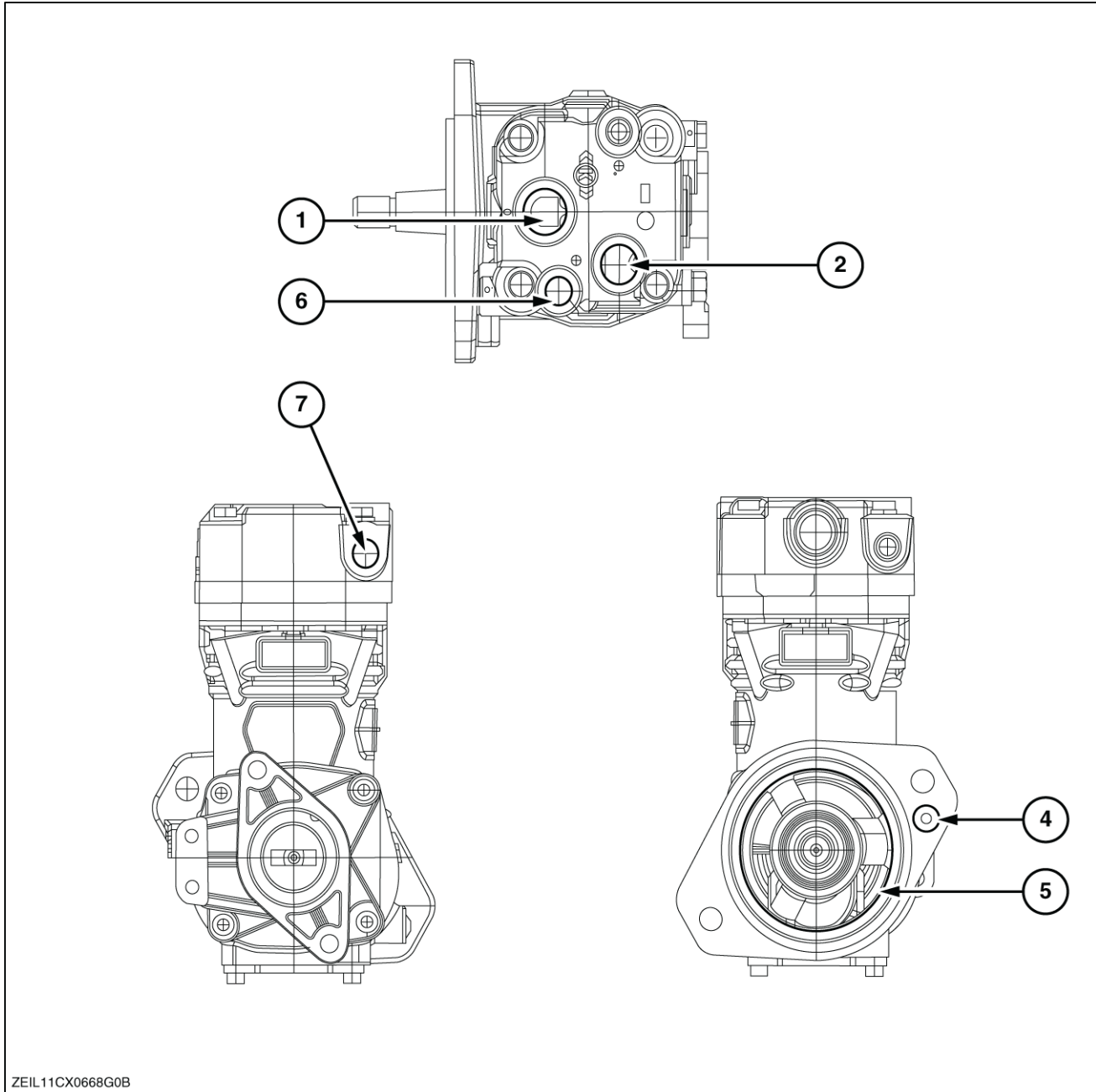
The compressed air is delivered through tubing to a combination pressure relief control valve, and from there to the reservoir tank located on the straw hood of the combine. A quick disconnect fitting allows easy connection to the air supply for blow off nozzles as well as for tyre inflation equipment.



ZEIL06CS0085A0B 1

Air compressor - Drawing

TC5070, TC5080, TC5070, TC5080, TC5080 Hillside



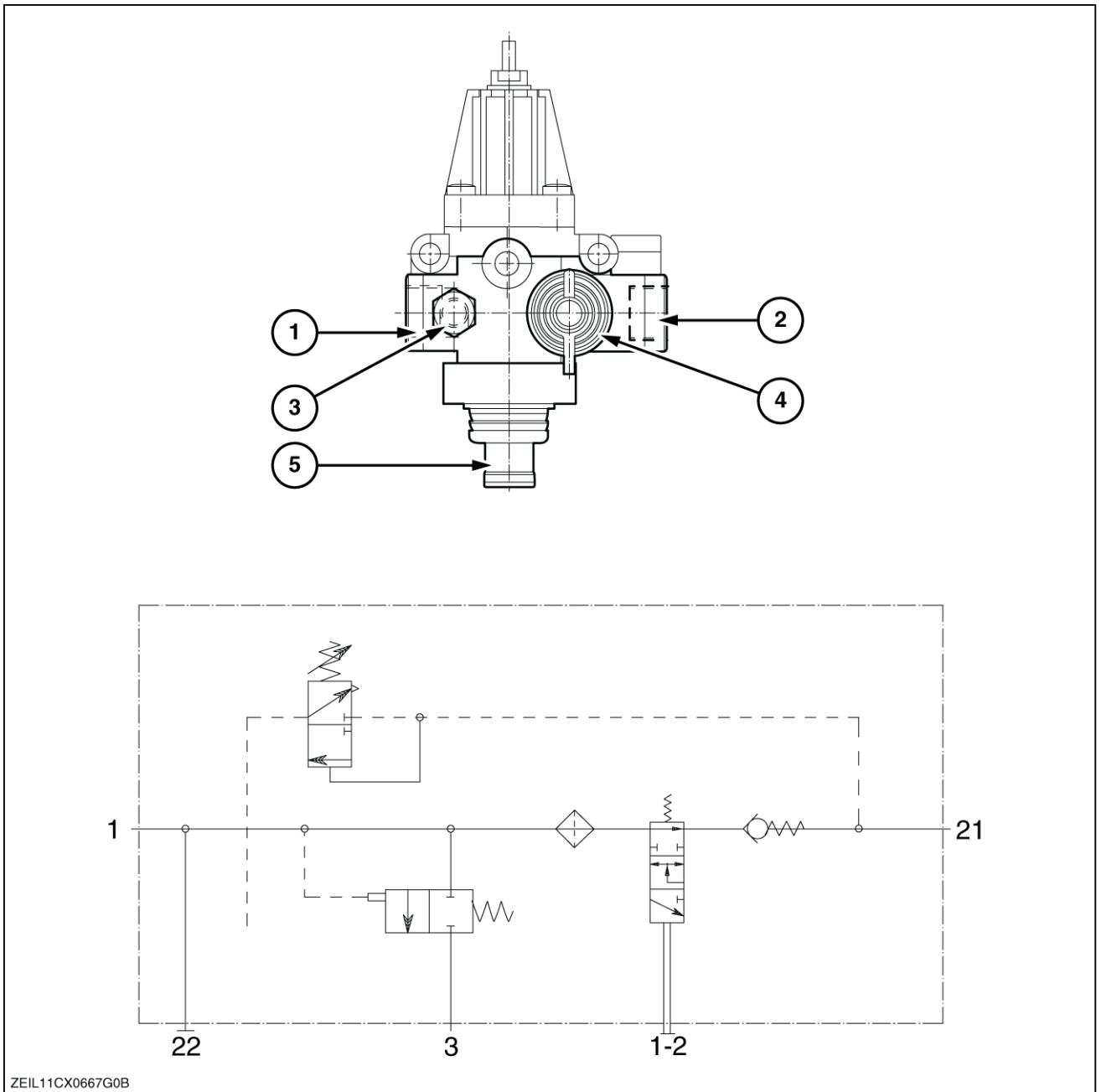
ZEIL11CX0668G0B

ZEIL11CX0668G0B 1

Reference	Port	Port Name	Port Function
1	0	Inlet Port	Supplies Compressor with clean intake air
2	2	Discharge Port	Expels pressurized air for system
4	8.1	Oil Supply	Supplies compressor with lube oil from engine
5	8.2	Oil Drain	Allows lube oil to return to engine
6	9.1	Coolant	Receive coolant from engine
7	9.2	Coolant	Return coolant to engine

Compressed air tank Relief valve - Drawing

TC5070, TC5080, TC5070, TC5080 Hillside



ZEIL11CX0667G0B 1

Reference	Port	Port name	Port function
1	1	Inlet	Pressurized air "in" from compressor
2	21	Outlet	Pressurized air "out" to reservoir tank and blow off line quick connect port
3	22	Auxiliary supply	Auxiliary port not used in this application
4	1-2	Tire inflation device	Port used to connect tire inflation device
5	3	Exhaust for compressor idling	Discharge exhaust for excess pressure in system

Compressed air tank Relief valve - Static description

TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

The pressure relief valve is developed to protect the system against pressures higher than **8 bar (116 psi)**.

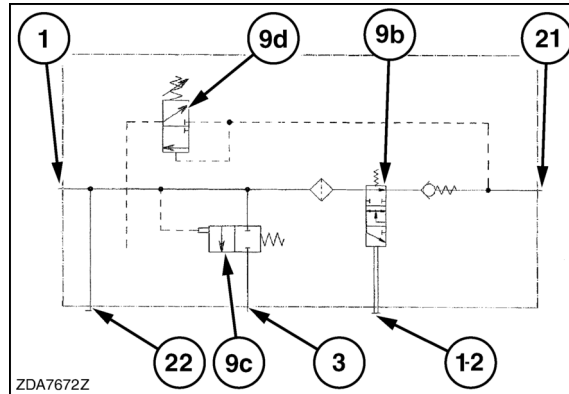
Port **(1)** is connected to the air compressor, port **(21)** is connected to the pressurized reservoir.

When the pressure on port **(21)** reaches **8 bar (116 psi)**, the control valve **(9d)** will be activated which means that also control valve **(9c)** will be activated. The pressure from the compressor will now pass through port **(3)**.

If the pressure drops below **8 bar (116 psi)** by activation a engaging valve, control valve **(9d)** will close.

Valve **(9c)** will not close immediately but will remain in the open position until the pressure exerted on the control of valve **(9c)** will be reduced by **0.6 bar (8.7 psi)**. Then the air will pass through valve **(9b)**.

Schematic diagram

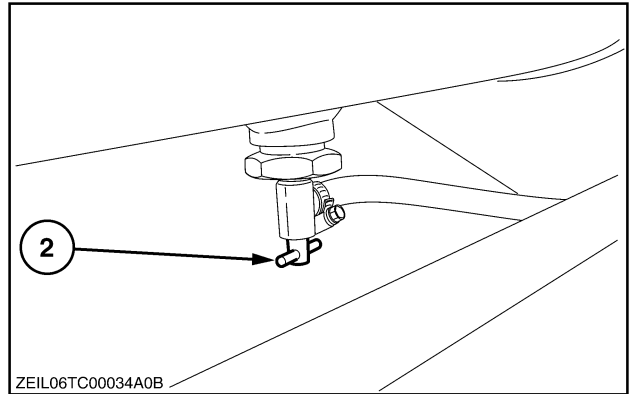


ZDA7672Z 1

Air compressor - Remove

TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

1. Bleed the air from the system by opening the drain (2) at the bottom of the air reservoir.

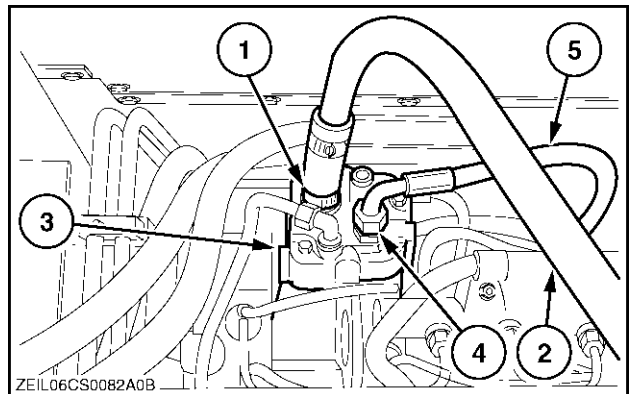


ZEIL06TC00034A0 1

2. Loosen the retaining strap (1) and remove the air inlet pipe (2) from the air compressor (3).

NOTE: Protect the air inlet and outlet ports from dirt ingress.

3. Loosen the connection (4) to remove the hose (5) from the air compressor (3).

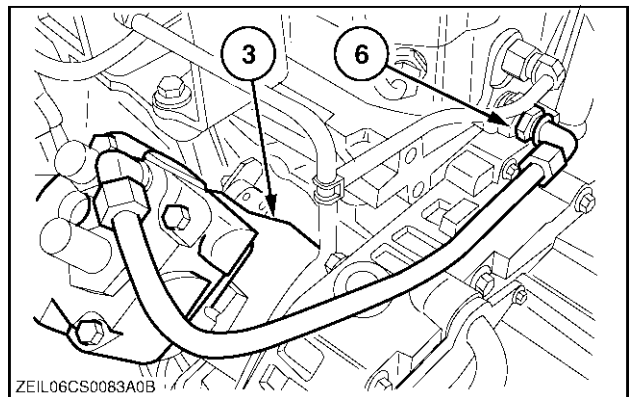


ZEIL06CS0082A0B 2

4. Drain sufficient coolant from the engine cooling system to allow removal of the coolant lines.

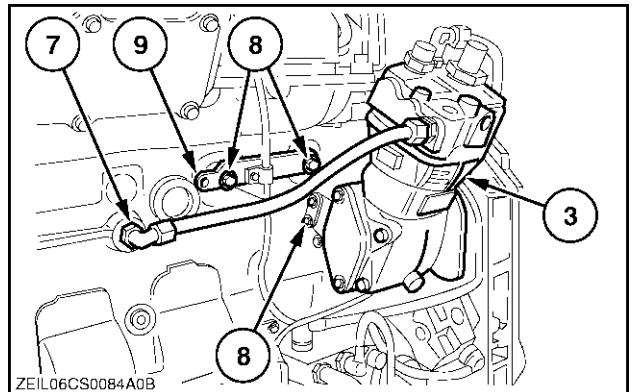
NOTE: Refer to the Operator's Manual of your machine.

5. Loosen the connection (6).



ZEIL06CS0083A0B 3

6. Loosen the connection (7).
7. Remove the four bolts (8) to remove the support (9).



ZEIL06CS0084A0B 4



Suggest:

If the above button click is invalid.

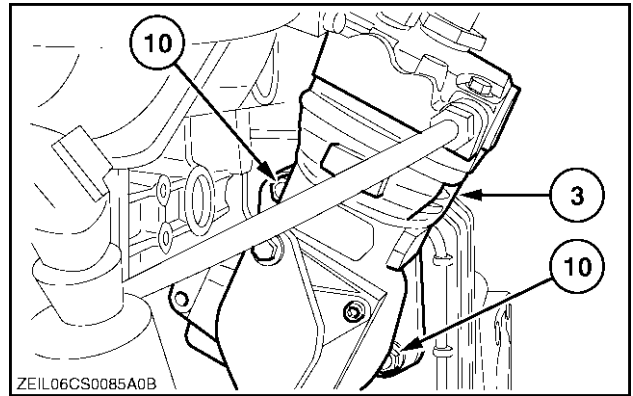
Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

8. Remove the two nuts **(10)** to remove the air compressor **(3)** from the engine.



ZEIL06CS0085A0B 5

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>