

ORIGINAL INSTRUCTIONS

PREVIEW - YOUFIXTHIS.COM

Farmall 75C
Tractors

OPERATOR'S MANUAL

Part Number 84343417

1st edition English
February 2011



CONTENTS

SECTION 1

General Information and Safety	1-1
Product identification	1-2
Ecology and the Environment	1-4
Always work safely	1-5
Working safely	1-6
Safety decals	1-12
Guards and safety covers	1-16
Tractor noise level information sheet	1-18
Tractors main components	1-19

SECTION 2

General notes, controls and instruments	2-1
Analog control panel	2-2
Light control lever	2-9
Operating controls	2-10
Cab	2-20
Transmission (8 X 8) 18.64/24.35 mph (30/40 km/h)	2-30, 2-31
Transmission (12 X 12) 18.64/24.35 mph (30/40 km/h)	2-34, 2-35
Transmission (20 X 20) 18.64/24.35 mph (30/40 km/h)	2-40, 2-41

SECTION 3

Field operation	3-1
Starting and stopping	3-2
Brakes	3-6
Mechanical 4WD	3-9
Electro hydraulically controlled four-wheel drive	3-10
Differential lock	3-11
Limi-Slip front differential lock	3-12
Power Take- Off	3-13
Hydraulic lift with mechanical control	3-16
Rear three-point linkage	3-18
Implement linkage points	3-21
Rear remote auxiliary control valves	3-25
Front 2 WD wheel track adjustment	3-26
4WD wheel track adjustment	3-29
Tires	3-35
Metal ballast	3-46
Liquid ballasting	3-47
Permitted maximum weights	3-50

ALWAYS WORK SAFELY

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 and on machine decals, 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 which, if not avoided that, will result in death or serious injury. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation which, if not avoided. Could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

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

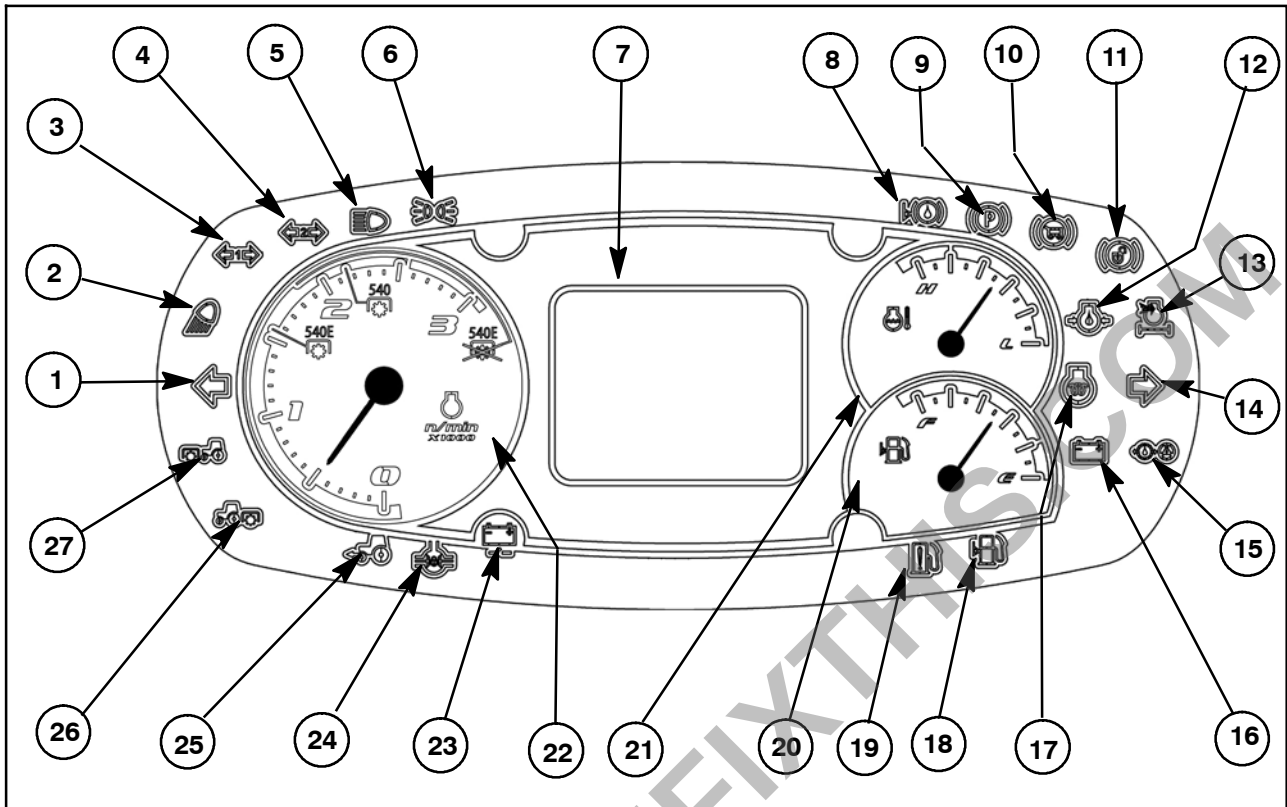
MACHINE SAFETY

NOTICE: Notice indicates a situation which, if not avoided, could result in machine or property damage. The color associated with Notice is BLUE

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.

NOTE: Note indicates additional information which 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.



1

INSTRUMENT CLUSTER

- | | |
|---------------------------------|---|
| 1. Left turn indicator. | 15. Power steering oil pressure. |
| 2. Work lights. | 16. Abnormal battery charging system operation. |
| 3. Trailer turn signal.1 | 17. Thermostarter (Grid Heater) indicator. |
| 4. Trailer turn signal.2 | 18. Fuel level (amber) indicator. |
| 5. Headlight high beam | 19. Fuel filter clogged (amber). |
| 6. Side lights. | 20. Fuel gauge. |
| 7. Multifunction display (LCD). | 21. Engine coolant temperature indicator. |
| 8. Brake fluid level | 22. Speedometer/tachometer. |
| 9. Parking brake | 23. Position not used |
| 10. Position not used | 24. Differential lock (amber). |
| 11. Position not used | 25. Four-wheel drive (green). |
| 12. Engine oil pressure. | 26. Power take-off (amber). |
| 13. Engine air filter. | 27. Position not used |
| 14. Right direction indicator. | |

CAUTION

When starting the engine after extended periods of non-use, avoid using the hydraulic system immediately. All the moving parts need to be lubricated properly before they are subjected to full load.

Especially when the external temperature approaches 32 °F (0 °C), run the engine at 1300 to 1500 rpm for approximately 5 minutes in order to heat the oil in the rear transmission to working temperature.

CAUTION

Before accelerating, let the engine idle at 1000 rpm for 30 seconds to ensure that the turbocharger is lubricated.

CAUTION

*If one of the warning lights illuminates to signal a fault, check and repair the faulty part.
If the warning light continues to signal a fault, have the machine checked by your dealer.*

CAUTION

With outside temperatures below 32 °F (0 °C), in order to prevent separation of the paraffin components in the diesel fuel, leading to a reduction in fluidity and subsequent fuel supply problems (especially when starting the engine), use winter fuel or fuel additive specific for low temperature usage by following the quantities and instructions provided by the manufacturer

The additive must be mixed with the diesel fuel before there is any sign of paraffin separation; adding it later will have no effect on an engine if the cold has already caused the engine to stop running or prevent it being started.

The fuel additive will ensure that there is an optimum fuel supply to the engine without reducing performance, even when the external temperature drops below -4 °F (-20 °C).

STARTING THE TRACTOR

- Sit down correctly in the driving seat.
- Press the transmission clutch pedal and move the gear lever and range lever to the required position.
- Increase engine speed the engine.
- Lower the handbrake lever.
- For tractors with mechanical transmissions, engage the clutch by slowly releasing the relative pedal.
- For tractors with hydraulic transmissions, lift the Power Shuttle lever, moving it slowly in the required travel direction (this operation can only be carried out when seated in the driving position).

STOPPING THE TRACTOR

- Reduce engine speed.
- Press the transmission clutch pedal and apply the brakes.

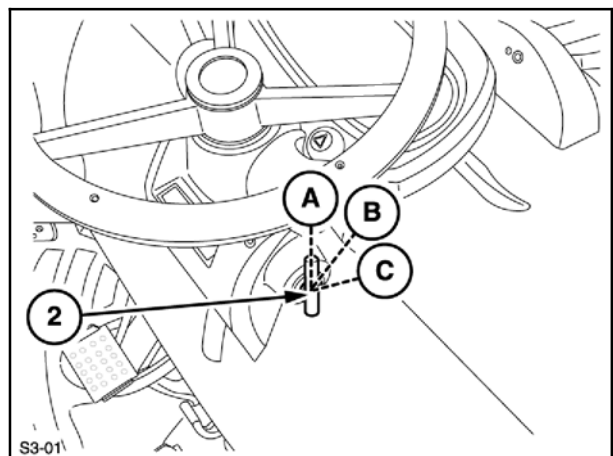
With the tractor stationary, shift the gear and range levers into neutral, release the clutch pedal and apply the handbrake.

STOPPING THE ENGINE

CAUTION

Before stopping the engine, allow it to idle at 1000 rpm for at least 3 minutes. This allows the turbocharger and manifold to cool, preventing deformation of the components.

- Turn the starter key (2) to the STOP position (A fig. 3).



LUBRICATION AND MAINTENANCE TABLE

The numbers in the second column are with reference to the operations shown in the following pages of this section.

Hours of operation	Operation Number	Maintenance operations	Efficiency check	Fill-up level	Cleaning	Greasing	Adjust	Renew	Page
Flexible maintenance	1.	Radiator expansion tank		X					4-10
	2.	Windscreen wash reservoir		X					4-10
	3.	Tractor lights	X						4-10
	4.	Hydraulic control valve oil recovery cup			X				4-11
	5.	Engine clutch					X		4-11
	6.	Radiator			X				4-12
	7.	Braking system					X		4-12
	8.	Oil cooler			X				4-13
	9.	Condenser			X				4-13
	10.	Tyre pressure	X						4-14
	11.	Wheel nut torque	X						4-14
With warning light ON	12.	Outlet valve, dry air filter			X				4-15
	13.	Main cartridge, dry air filter			X				4-15
	14.	Drain fuel system water separator			X				4-16
	15.	Brake fluid reservoir	X	X					4-16
Every 10 hours	16.	Engine sump oil level		X					4-17
Every 50 hours	17.	Lift and linkage				X			4-18
	18.	Front axle pivots 4WD				X			4-18
	19.	2WD steering cylinder				X			4-18
	20.	2WD right and left-hand stub axle				X			4-19
Every 100 hours of work	21.	Transmission oil cooler			X				4-20
	22.	Condenser			X				4-20
	23.	Cab air filters			X				4-21

ENGINE

CONDITION	POSSIBLE CAUSE	REMEDY
The engine will not start or starts with difficulty	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace filter element
	Fuel injector fault	Contact your dealer
The engine does not run properly and/or cuts out	Fuel system contaminated	Clean system
	Fuel injector fault	Contact your dealer
Engine does not develop full power	Engine overload	Change to lower gear or reduce load
	Air filter clogged	Carry out maintenance on air filter
	Incorrect fuel type	Use the right fuel
	Engine operating temperature	Check thermostat
	Implement incorrectly set	See equipment manual

ENGINE DATA**Engine**

- F5A E9454 k * A
- Clutch 11"
- Injection pump BOSCH
- Intake Turbocharged
- Number of cylinders 4
- Diameter and stroke:in. (mm) .. 99 x 104
- Total displacement: cm³ 3200
- Compression ratio 17.1 ± 0.5: 1
- Engine power (ECE R120):
 - KW 55
 - (CV) 75
- Torque rise (%) 35
- Rated engine speed rpm 2300
- Maximum torque speed rpm 1400

FUEL SYSTEM

Double-diaphragm fuel pump on injection pump supply line.

Rotary injection pump with centrifugal speed governor, operating at all speeds and incorporating automatic advance type BOSCH-VE

Fuel filtration:

- mesh filter in the diesel intake;
- mesh filter before the fuel pump;
- replaceable cartridge filter on the injection pump feed line with water-in-fuel indicator.

Double cartridge dry air filter, with centrifugal pre-filter and automatic dust extractor.

TRACTOR REFUELLING

COMPONENT TO BE FILLED OR TOPPED UP	QUANTITY US gal. (litres)	RECOMMENDED CASE IH PRODUCT	CASE IH SPECIFICATION	INTERNATIONAL SPECIFICATION
Cooling system: - less cab - with cab	3.69 (14.0) 4.22 (16.0)	Water and antifreeze liquid 50% + 50% AKCELA PREMIUM ANTI-FREEZE	MS1710	-
Windscreen wash reservoir	0.52 (2.0)	Water & liquid	-	-
Fuel tank:	23.78 (90)	Decanted, filtered diesel fuel	-	-
Engine sump:	2.25 (8.5)	AKCELA No. 1 ENGINE OIL	MS 1121 (SAE 15 - 40) MS 1121 (SAE 10W-30)	API CH-4 ACEA E5 SAE 15W-40 API CH-4 SAE 10W-30
Brake circuit	0.18 (0.7)	AKCELA LHM FLUID oil	-	ISO 7308
Front axle: axle housing final drives	1.18 (4.5) 0.26 (1.0)	AKCELA NEXPLORE oil	MAT 3525	API GL4 ISO 32/46 SAE 10W-30
Rear transmission (bevel drive, final drives and brakes), gearbox, hydraulic lift, PTO and hydraulic steering: - less power shuttle - with power shuttle	7.93 (30.0) 9.25 (35.0)			
Grease fittings	-	AKCELA MULTIPURPOSE GREASE grease	251H EP	NLGI 2
Air conditioning system - coolant - oil	- 0.34 (1.3) 0.0488 (0.185)	-	-	R-134a SP10

MINIMUM HARDWARE TIGHTENING TORQUES

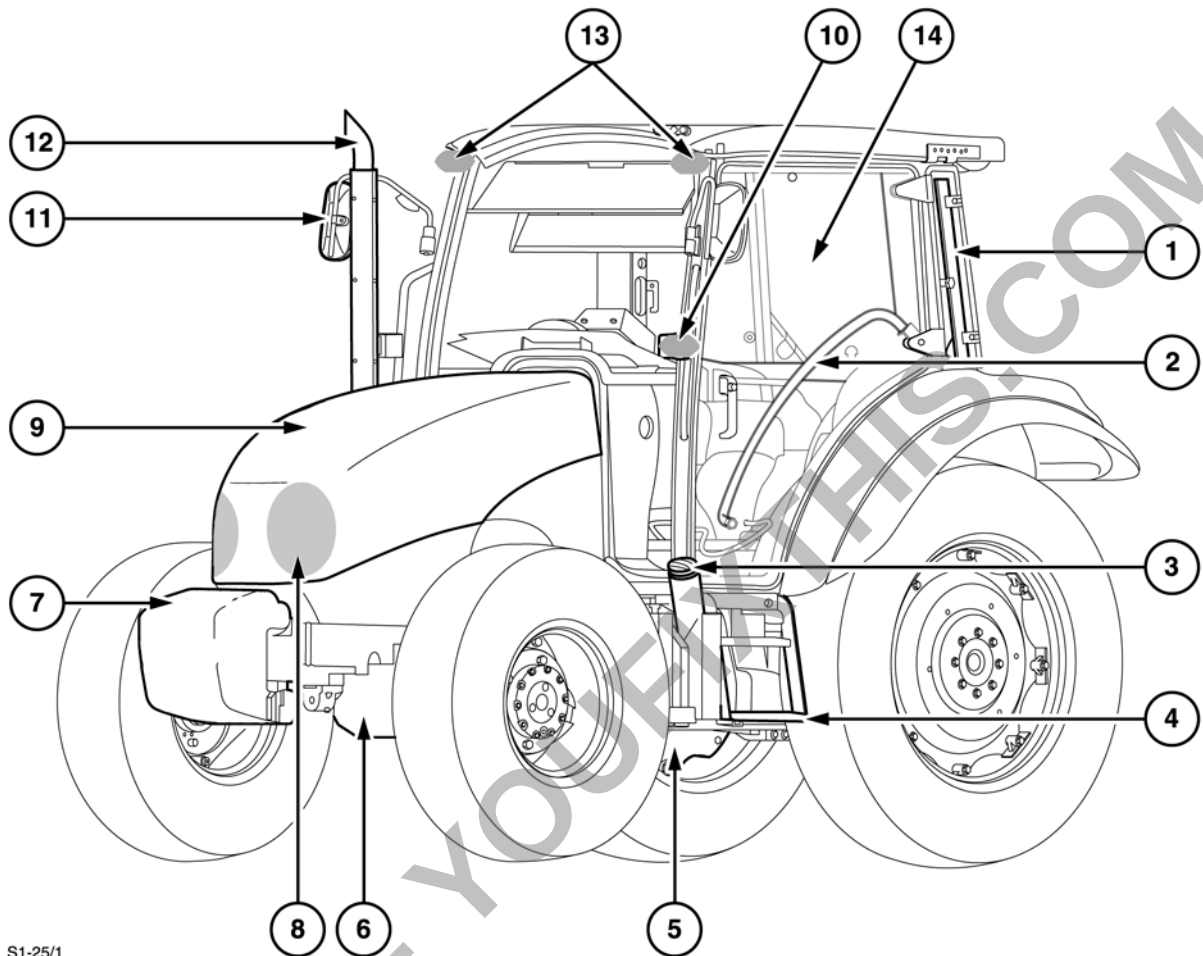
Screw Size	Class		Screw Size	Class	
	8.8	10.9		8.8	10.9
	Nm (lb.ft.)	Nm (lb.ft.)		Nm (lb.ft.)	Nm (lb.ft.)
M8	23 (17)	33 (24)	M20	380 (280)	530 (391)
M8X1	25 (18)	35 (26)	M20X2	400 (295)	560 (413)
M10	46 (34)	65 (48)	M20X1.5	420 (310)	590 (435)
M10X1.25	49 (36)	69 (51)	M22	510 (376)	720 (531)
M12	80 (59)	110 (81)	M22X2	540 (398)	750 (553)
M12X1.5	84 (62)	118 (87)	M22X1.5	560 (413)	790 (582)
M12X1.25	88 (65)	123 (91)	M24	630 (464)	890 (656)
M14	130 (96)	180 (133)	M24X2	680 (501)	950 (700)
M14X1.5	138 (102)	190 (140)	M27	930 (686)	1310 (966)
M16	190 (140)	270 (199)	M27X2	995 (733)	1400 (1032)
M16X1.5	210 (155)	290 (214)	M30	1260 (929)	1770 (1305)
M18	270 (199)	380 (280)	M30X2	1370 (1010)	1930 (1423)
M18X2	280 (206)	400 (295)			
M18X1.5	300 (221)	420 (310)	5/8" UNC	175 (129)	245 (180)
			5/8" UNF	200 (147)	280 (206)
			3/4" UNC	380 (280)	530 (391)
			3/4" UNF	420 (310)	590 (435)

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O-RING BOSS PLUGS, ADJUSTABLE FITTING LOCK NUTS, SWIVEL SEATS JIC - 37°			
SIZES	TUBING O.D.		THREAD SIZE	LB. FT.		N-m		LB. FT.		N-m	
	Inches	mm		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/16-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

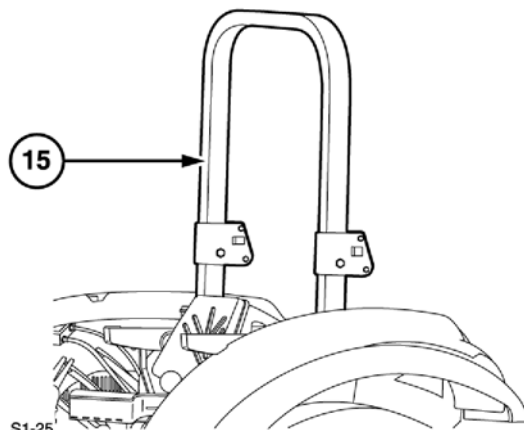
Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swaged or brazed.

TRACTOR'S MAIN COMPONENTS



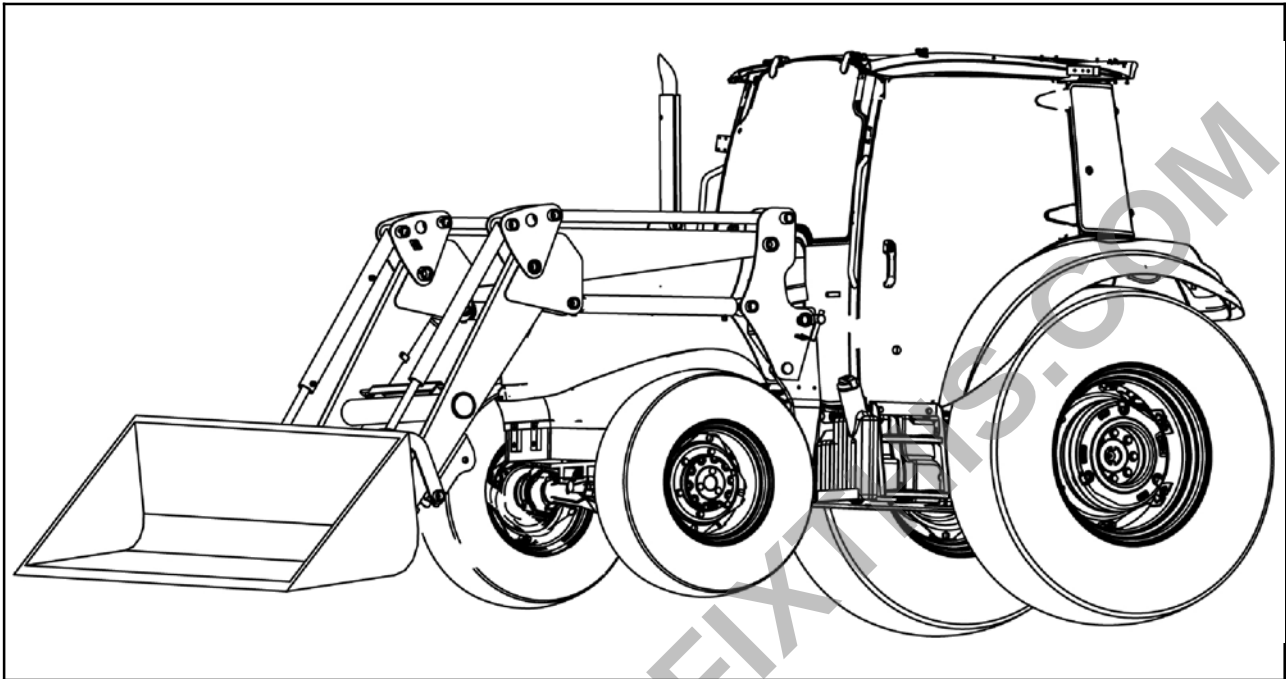
S1-25/1

1. Cab
2. Hand rail
3. Fuel tank
4. Steps
5. Transmission
6. Front axle
7. Ballast
8. Headlight
9. Hood/Engine
10. Indicator light
11. Rear view mirror
12. Exhaust stack
13. Front work lights
14. Rear widow emergency exit
15. R.O.P.S. (Roll Over Protective Structure)



S1-25

FRONT LOADER



11

GENERAL INFORMATION

This part of the manual contains information related to the user and maintenance of your loader. Only adequate maintenance can assure adequate and long-lasting performance.

This loader has been designed for agricultural use consistent with the power of the tractor. Always keep the identification number and model of your loader to hand in order to give them to your dealer when ordering spare parts.

Locate these numbers on the specific data plates and record them.

The images in this manual may show the guards open or removed in order to better illustrate a particular characteristic or setting. Make sure you have closed all the guards, or replaced any damaged ones, before operating the machine.

PREVIEW ONLY

You're viewing 12 of 240 pages

The full manual includes:

- All 240 pages, complete
 - Searchable PDF (find any keyword)
 - No watermarks
 - Instant download
 - Print-ready quality
-

GET FULL MANUAL NOW

Case IH Farmall 75C, Farmall 75 Operator Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual