

# MF 4600

Series Tractors Models: 4608 / 4609 / 4610

## **SERVICE MANUAL**

FROM MASSEY FERGUSON



## 4608 / 4609 / 4610 Service Manual

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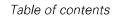
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#### 1.1 Introduction

#### 1.1.1 The service manual

Read the table of contents and basic layout. Become familiar with all parts of this service manual. This service manual gives the technician very important information.

Machine movement when in normal use determines right-hand and left-hand.

This manual covers general safety practices for this machine.

The photos, illustrations, and data used in this manual were current at the time of printing. Inline production changes can make machines vary from the information in the service manual. The manufacturer reserves the right to redesign and change the machine as necessary without notification.



#### WARNING:

In some of the illustrations and photos used in this manual, shields or guards may have been removed for clarity. Never operate the machine with any shields or guards removed. If the removal of shields or guards is necessary to make a repair, they must be replaced before operation.

#### 1.1.2 Replacement parts

To receive prompt efficient service, remember to have the following information:

Correct part description and part number

Model number of the machine

Serial number of the machine

#### 1.1.3 Units of measurement

Measurements are given in metric units followed by the equivalent in US units. Hardware sizes are given in millimeters for metric hardware and inches for US hardware.

#### 1.1.4 Machine identification

Each machine is identified by a model and a serial number.

Record these numbers in the spaces given.

Give the model number and serial number to your dealer when parts or service are required.

Machine model number:	
Machine serial number:	
Date of delivery:	
Dealer name:	
Dealer address:	
Dealer telephone number:	
Dealer e-mail address:	
Dealer fax number	



#### 1.1.5 Serial number plate

The serial number plate (1) is located below the operator seat.

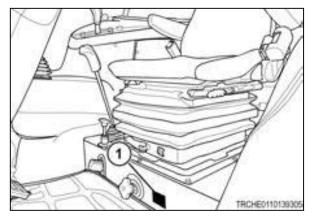


Fig. 1

The serial number plate contains the model number and serial number.

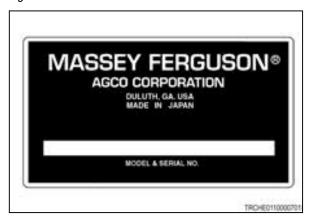


Fig. 2

#### 1.1.6 Engine identification

The engine model number (1) is cast on the righthand side of the engine block, below the injection pump.

The engine serial number (2) is stamped into the cylinder block, below the engine model number.

Engine model number:	
Engine serial number:	

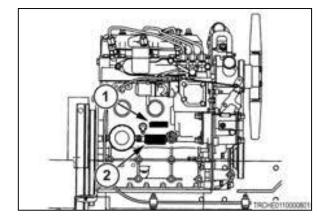


Fig. 3



#### 1.1.7 Chassis number

The chassis number (1) is stamped in right-hand side of front frame.

Chassis number:	
-----------------	--

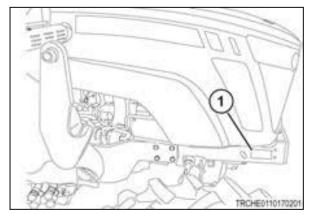


Fig. 4



### 1.2 Specifications

#### 1.2.1 Engine specifications

	4608	4609	4610	
Туре	Four stroke diesel engine			
Model		33 AWIC		
Make		AGCO power		
Number of cylinders		3		
Aspiration	Turboc	harged and air to air inte	rcooled	
Injection		Direct		
Bore		108 mm		
Stroke		120 mm		
Displacement	3.3 L			
Rated speed	2200 rpm			
Low idle speed	912 to 988 rpm			
High idle speed	2218 to 2402 rpm			
Maximum torque at rpm	346 Nm at 1500 rpm   387 Nm at 1500 rpm   410 Nm at 1500 r		410 Nm at 1500 rpm	
Engine horse power (Maximum output)	63 kW at 2000 rpm	71 kW at 2000 rpm	75 kW at 2000 rpm	
Engine cooling		Liquid, forced circulation	)	
Air cleaner	Dual stage, dry element			
Air intake	Engine cover grille			
Cold starting aid	Intake heater			
Firing order	1-2-3			
Valve clearance (cold)		0.35 mm		

#### 1.2.2 Electrical specifications

	4608	4609	4610	
System voltage		12 volt		
Grounding		Negative		
Battery cold cranking amperes (cca) @ - 18 °C	799 cca			
Battery JIS type	130E41R			
Battery case dimensions				
Length	410 mm			
Width	175 mm			
Height	234 mm			
Alternator	12 volt, 95 ampere			
Starter	12 volt, 3.0 kW			



#### 1.2.3 Transmission specifications

	4608	4609	4610	
Primary transmission		Six speed synchronized		
Range transmission	Without co	Without creep gear, two speed sliding mesh  With creep gear, three speed sliding mesh		
	With cree			
Mechanical shuttle	Electro-hydraulic cor	Electro-hydraulic control with multi plate weet disc, 95% reverse reduction		
Gear speeds				
Power shuttle	Without c	Without creep gear, 12 forward, 12 reverse		
With creep gear, 18			reverse	
Clutch	Multipl	Multiple stage wet with 128 mm disc		

#### 1.2.4 Power takeoff specifications

	4608	4609	4610	
Туре	Independent, engine driven			
Control	Electro-hydraulic control			
Clutch	Hydraulic	ally engaged, multi-plate	wet disk	
Output	Clockwise	rotation from the rear of	the tractor	
Shaft				
540 rpm (North America only)	35 mm diameter, 6 spline, ISO type 1			
1000 rpm (North America only)	35 mm diameter, 21 spline, ISO type 2			
540/750 rpm (Australia)	35 mm diameter, 6 spline, ISO type 1			
Engine speed				
540 rpm	1993 rpm			
1000 rpm (North America only)	2178 rpm			
750 rpm (Australia only)	2129 rpm			

#### 1.2.5 Front axle specifications

	4608	4609	4610
Engagement	Mechanical		
Joint on axle	Bevel gear		
Oscillation angle	6 to 8 degrees		
Steering	Hydrostatic		
Rear wheel to front wheel drive ratio	1:1 .45		.4



#### 1.2.6 Rear axle specifications

	4608	4609	4610
Final reduction		Planetary	

#### 1.2.7 Brake specifications

	4608	4609	4610
Туре	Wet multi disc		
Actuation	Mechanical		
Braking area	467.36 sq cm (72.68 sq in) x 8 pieces		
Parking brake	Hook type		

#### 1.2.8 Hydraulic specifications

	4608	4609	4610	
Main hydraulic system				
Pump		Transmission mounted		
Maximum output		66.5 l/min		
Pressure		19.6 mPa		
Steering system				
Туре		Hydrostatic		
Pump		Transmission mounted		
Maximum output		25.7 l/min		
Pressure	15.8 mPa			
Rear linkage				
Туре	Three-point hitch			
Size	Category II			
Control	Single control lever			
Lift capacity - measured at ball e	nds			
Standard:	2500 kg			
Optional:	3300 kg			
Lift capacity - measured at 610 m	nm			
Standard:	1500 kg			
Optional:		2000 kg		

#### 1.2.9 Fuel specifications

	4608	4609	4610
Туре	Ultra low sulfur fuel only		
Above 4 °C	No. 2-D		
Below 4 °C		No. 1-D	

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