



MF5600 Series Utility Tractors Pocket Guide

This pocket guide is formatted for optimal viewing on your tablet and/or mobile device.

Updated: 09/01/2013

Photos



Model Overview



| Model | 5609 | 5610 | 5611 | 5612 | 5613 |
|----------------|---|------------|---|------------|------------|
| Frame Size | Small Frame | | Large Frame | | |
| PTO HP (kW) | 70 (52) | 75 (56) | 80 (60) | 90 (67) | 100 (75) |
| Engine HP (kW) | 90 (67.1) | 100 (74.6) | 105 (78.3) | 115 (85.8) | 125 (93.2) |
| Engine Type | AGCO Power 3.3L 3-cylinder Diesel, Tier 4i | | AGCO Power 4.4L 4-cylinder Diesel, Tier 4i | | |
| Transmission | Dyna-4: 16x16 Power Shift and Power Shuttle | | | | |
| Front Axle | Adjustable 2wd; Fixed Mechanical 4wd | | Adjustable 2wd; Fixed or Suspended Mechanical 4wd | | |
| Configuration | Large 6-post Deluxe Cab, Completely Flat Deck | | | | |

Model Progression



Massey Ferguson 5600 Series Mid-Range

| New Models | | Replaced Models | |
|------------|------------|-----------------|------------|
| MF5609 | 70 PTO HP | MF5445 | 70 PTO HP |
| MF5610 | 75 PTO HP | MF5450 | 75 PTO HP |
| MF5611 | 80 PTO HP | MF5455 | 85 PTO HP |
| MF5612 | 90 PTO HP | MF5460 | 95 PTO HP |
| MF5613 | 100 PTO HP | MF5465 | 100 PTO HP |

Configurations



Basic Specification “Affordable HP”

- Standard front axle
- Open center hydraulics
- Mechanical hydraulic valves
- T-handle in RH console

5609
5610
5611
5612
5613



Medium Specification

- Suspended front axle
- Closed center hydraulics
- 2 electronic hydraulic valves
- T-handle in armrest
- Control Center Display (CCD)

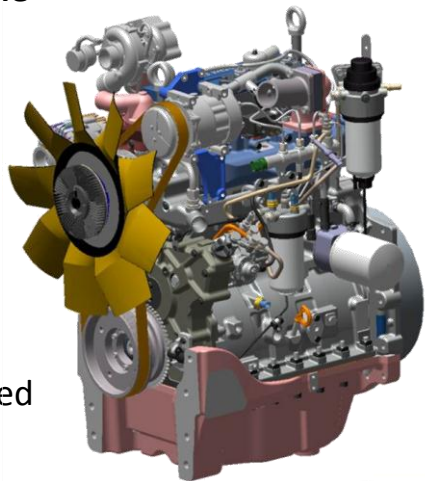
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Engine – Small Frame



Common AGCO Power Engine in Small Frame

- Model 33 AWI HD 3-cylinder engine
- Manufactured by AGCO Power
- 3.3 liter (201 cu in) displacement
- Turbocharged and Intercooled
- 4 valves per cylinder, centered injector
- Bosch high pressure common rail (HPCR) injection system (23,000+ psi)
- SisuTronic EEM4 electronic engine mgmt.
- Structural block. Side support rails included when loader is installed
- Hand and foot throttle



Engine – Small Frame



EPA Tier 4i Emissions Compliant

- External cooled Exhaust Gas Recirculation (EGR)
- Diesel Oxidation Catalyst (DOC)
- No SCR, no need to add exhaust fluid
- No Diesel Particulate Filter (DPF)
- No filter regeneration
- No heat build-up, no wasted fuel
- No downtime

Just put in fuel and drive!

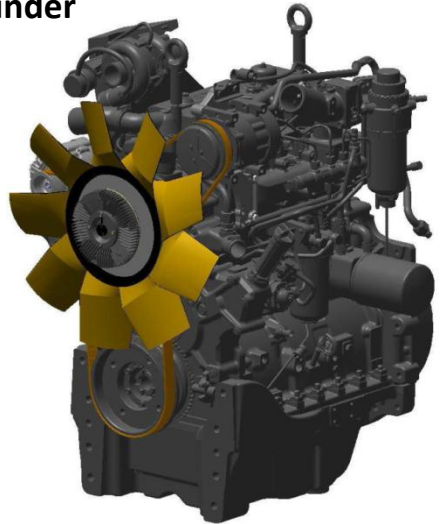


Engine – Small Frame



Advantages of 3-Cylinder Engine vs 4-Cylinder

- Smaller, more compact design
- Fit in smaller spaces, more room under hood for accessories and coolers
- Shorter wheelbase for tighter steering
- Fewer moving parts internally
- Less friction, more fuel efficient
- Less expensive to produce
- Less potential for failure, as failure tends to occur where parts interact

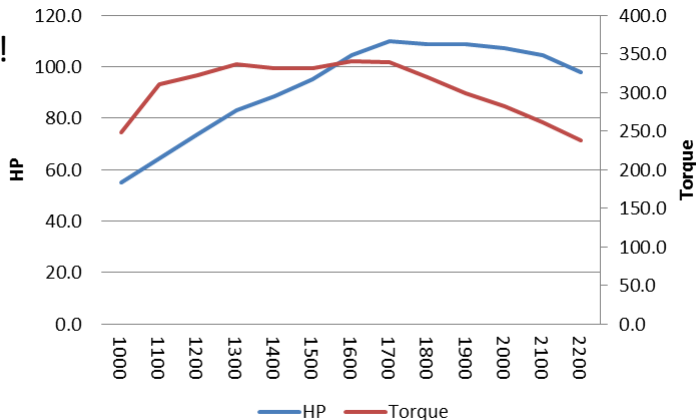


Engine – Small Frame



How to Sell the 3-Cylinder Engine

- Number of cylinders is NOT what does work!
- Torque does work!
- 33 AWI HD engine has greater torque across engine range than previous Perkins[®] 4-cylinder engines in MF utility tractors.

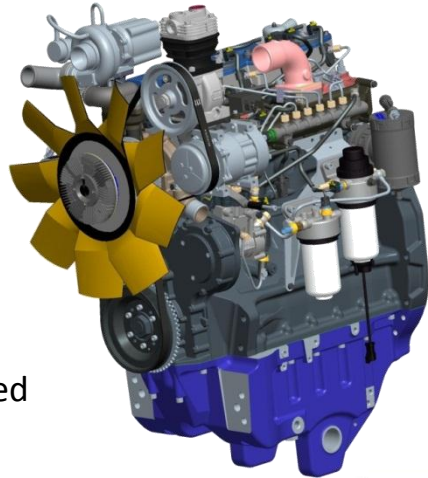


Engine – Large Frame



Common AGCO Power Engine in Large Frame

- Model 44 AWI 4-cylinder engine
- Manufactured by AGCO Power
- 4.4 liter (269 cu in) displacement
- Turbocharged and Intercooled
- 4 valves per cylinder, centered injector
- Bosch high pressure common rail (HPCR) injection system (23,000+ psi)
- SisuTronic EEM4 electronic engine mgmt.
- Structural block. Side support rails included when loader is installed
- Hand and foot throttle



Engine – Large Frame



EPA Tier 4i Emissions Compliant

- Selective Catalytic Reduction (SCR)
 - 2nd generation e³ technology
 - Requires Diesel Exhaust Fluid (DEF)
 - Incorporates Diesel Oxidation Catalyst (DOC)
 - Highly fuel efficient
- No Diesel Particulate Filter (DPF)
- No filter regeneration
- No heat build-up
- No wasted fuel
- No downtime



Engine – Large Frame



IMPROVED



2nd Generation SCR

- Sensors throughout exhaust
- DEF usage based on actual conditions
- Reduced DEF consumption
- More efficient system



1st Generation SCR

- Few sensors
- DEF usage based on algorithms
- Greater DEF consumption
- Less efficient system

Engine – Large Frame



What is DEF?

- Diesel Exhaust Fluid (DEF)
- Solution: 32.5% urea, 77.5% water
- Clear liquid
- Non-toxic
- Non-flammable
- Biodegradable



Usage Rate

- 1 DEF tank = 2 fuel tanks
- Approx. 3-6% consumption rate
- Usage varies based on application
- Real-time measurements for usage



Engine – Large Frame

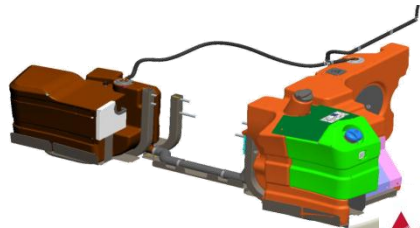


SCR Emissions System

- Fully automated
- DEF tank incorporated into fuel tank
 - 6.6 gallons DEF, 49 gallons Diesel
- Built-in heater for cold climates
- Left side ground fill, both tanks

How it Works

- DEF reacts with NOx and other gasses
- Heat and catalyzer causes chemical reaction in exhaust system
- Results in N₂ and H₂O release



Engine – Large Frame



SCR at Work

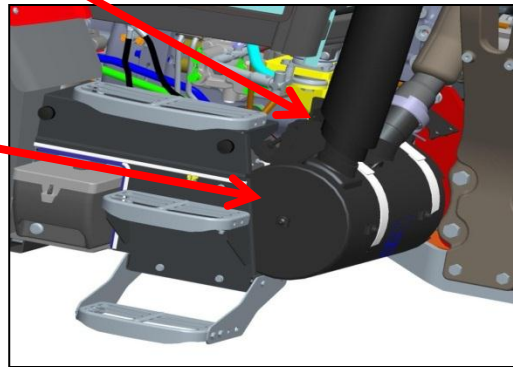
- DEF injected in exhaust stream
 - Sensors adjust flow
 - Sliding scale application
 - Reduces DEF usage

Catalyzer Chamber

- At base of exhaust stack
- Integrated DOC

Flow-Through System

- No clogging
- No maintenance
- Just add fluid



Engine



ECO Engine Idle Feature

- Built into engine electronics, always active, automatically engages
- Active engine idle is 850 RPM
- ECO idle engine speed is 720 RPM
 - Power control lever must be in “N”
- Saves fuel when at idle
- Reduces noise level



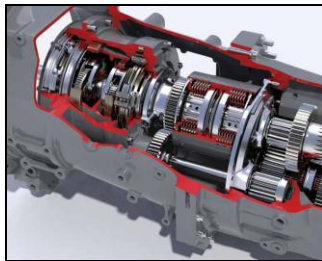
Transmission



Dyna-4 Transmission Standard

- Power shift and power shuttle
- Wet multi-disc main clutch
- Foot clutch pedal
- 16 forward, 16 reverse speeds
- 4 gears, 4 ranges
- All electronic shifting
- 25 mph (40 kph) max speed
- Optional 14:1 creeper

Dyna-4



Transmission

T-handle Transmission Control

- Upshift / downshift by push or pull
- Press orange button when push/pull to shift ranges
- No need to use foot clutch for shifting



3-function Power Control Lever

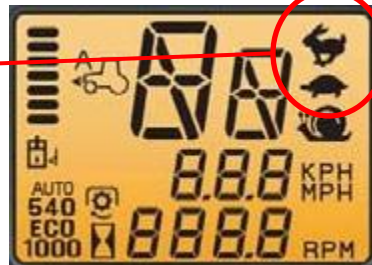
- Left side of steering wheel
- Performs 3 functions
 - Shuttle forward/reverse
 - Upshift/downshift
 - Clutch when lifted
- No need to use foot clutch for shifting



Transmission

Field and Road Modes

- Designated by icons in front dash
 - Turtle = field mode
 - Rabbit = road mode
- Change mode by pressing T-handle button 5 seconds (tractor in neutral)
- Field mode allows only gears to be changed with lever pulse or automatically in AUTO-DRIVE
- Road mode allows gears and ranges to be changed with lever pulse or automatically in AUTO-DRIVE



Transmission



Speed Matching

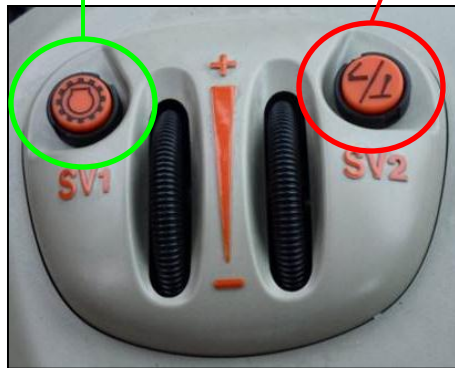
- Standard, built-in electronic function
- Automatic selection of most appropriate gear:
 - After range change
 - After clutch and brake

AUTO-DRIVE System

- Optional feature on Classic models
- Tractor automatically shifts gears like automatic transmission in car
- Use hand or foot throttle to accelerate
- Adjustable on the go

AUTO-DRIVE On/Off Button

Dyna-TM On/Off Button



AUTO-DRIVE Control Group

Transmission

Dash Control Center (Dot Matrix)

- Digital display in lower left corner of front dash
- Input key pad
- Interactive with Operator
- Customize tractor functions and operation
- Standard equipment



DCC

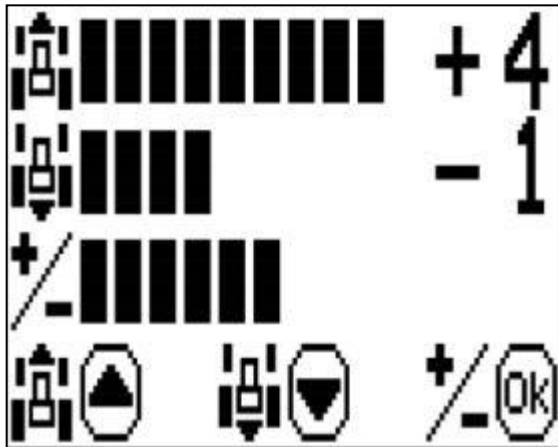
Key Pad

Transmission



DCC Screens – Shift/Shuttle Modulation

- Adjust the intensity of the shift and shuttle:
 - Adjust how hard the transmission will shift and change direction
- Adjust forward and reverse intensity independently
- Customize for the operator

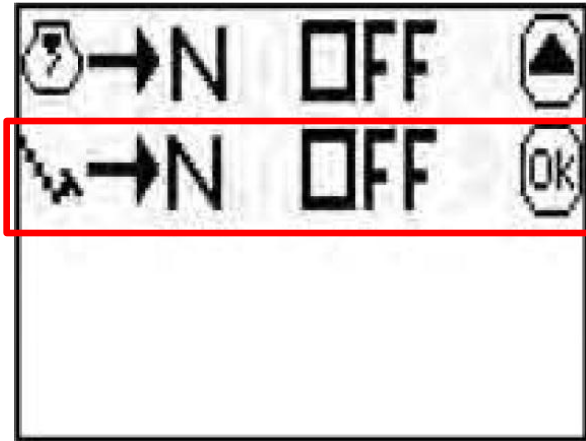


Transmission



DCC Screens – Auto-N Function

- Standard feature – built in
- Automatically neutralizes transmission when both brakes are applied
- Transmission re-engages upon release of pedals
- Turn feature on and off
- Requires use of both brake pedals
- Ideal for stop-n-go and loader work

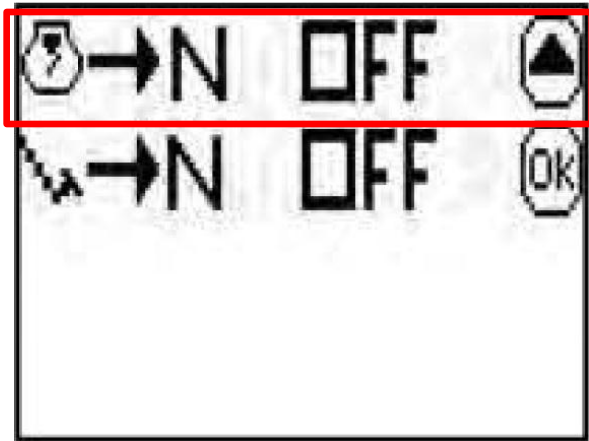


Transmission



DCC Screens – Anti-Stall

- Standard feature – built in
- Automatically neutralizes transmission when engine speed dips below 650 RPM
- Helps prevent engine stall
- Turn feature on and off
- Ideal for tillage and heavy draft applications where engine might lug down and stall

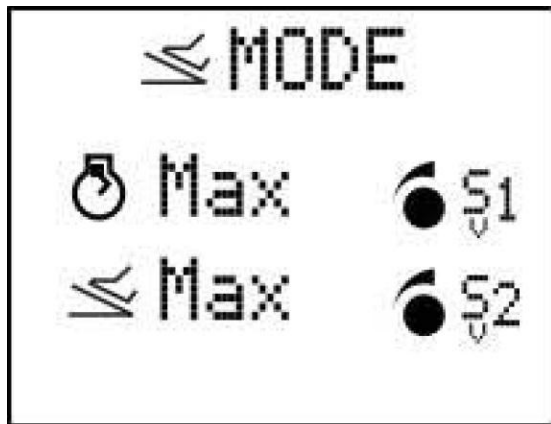


Transmission



DCC Screens – AUTO-DRIVE

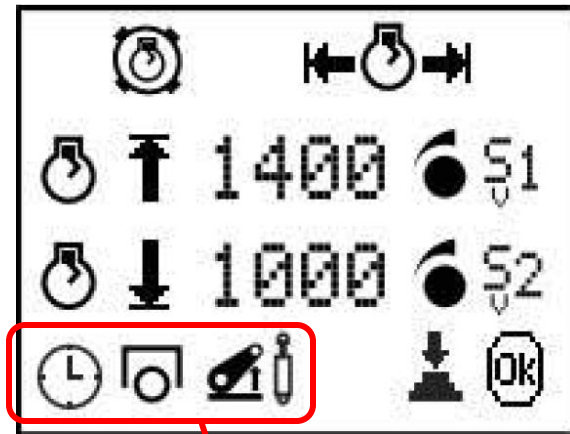
- Optional feature
- Tractor drives like car with automatic transmission – simple
- Auto upshift and downshift
- Push-button engagement
- Operator uses hand or foot throttle
- Adjustable on the go
 - Set max. gear
 - Set max. engine speed for shift



Transmission

DCC Screens – Dyna-TM Function

- Included with AUTO-DRIVE
- Operator sets min. and max. engine speed
- Tractor will automatically shift to maintain engine speed
- Push-button on/off
- Operator can tie function to trigger (engagement):
 - PTO trigger
 - 3-point/hydraulic trigger
 - Always on



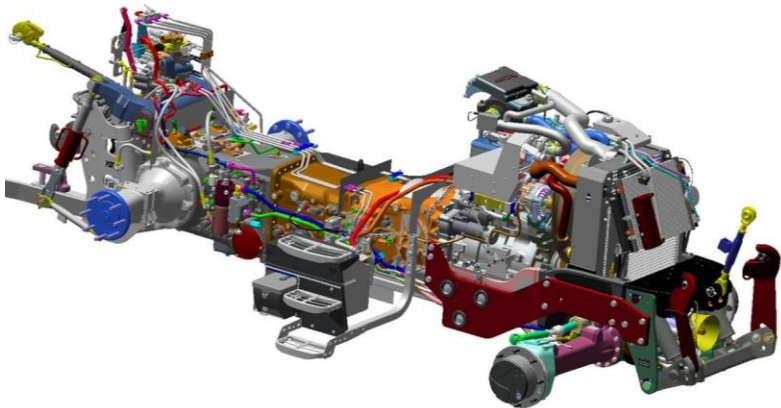
Triggers

Chassis



Rigid, Structural Chassis from Front to Back

- Load bearing structure
- Durable design for better distribution of stress and torque



Rear Axle

Heavy Duty Cast Steel Rear Axle

- Solid rear axle with flange
- Internal planetary final drives
- Internal wet multi-disc brakes
 - Hydraulically engaged
 - 4-wheel braking with 4wd front axle
- Individual LH and RH brake pedals
- Hand parking brake lever
- Electro-hydraulic differential lock
 - Front and rear axles lock
 - Locks wheels for traction



Front Axle



Adjustable 2wd Front Axle

- Adjustable box-in-box design
- Spindle steering system
 - Hydrostatic power steering
- High steering angle
- High ground clearance
- Axle oscillates for stability on uneven ground
- Triple-ribbed front tires for directional traction

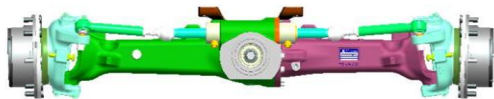


Front Axle



4wd Front Axle

- Solid cast steel design
- Center front differential with electro-hydraulic diff. lock
- Outboard planetary final drives for high torque and long service life
- Hydrostatic power steering
- Centered axle oscillation
- Electro-hydraulic engagement
- Auto-engagement with brake pedals for 4-wheel braking
- Diff. lock automatically engages 4wd



Front Axle

Suspended 4wd Front Axle

- Large frame models only
- New suspension design from Beauvais factory
- Solid axle in cast steel cradle
- Cradle electro-hydraulically suspended in front
- Hydraulic cylinders and accumulators provide suspension effect
- On/off button in cab pillar
- Axle can oscillate when system is off
- 40 kph only



Front Axle

Auto 4wd Engagement

- Provides automated system for engaging and disengaging 4wd
- Controlled by transmission computer

Auto Differential Lock Engagement

- Engagement controlled by transmission computer
- Disengages with brake pedals



NOTE: Auto functions require Radar and Slip Control option

Power Take Off



Independent Rear Power Take Off (PTO)

- Options available
 - 540/540e speeds
 - 540/540e/1000 speeds
- Electro-hydraulically engaged
- Multi-disc wet clutch
- Flange-type shaft
 - Easy to change shafts
 - Dry change

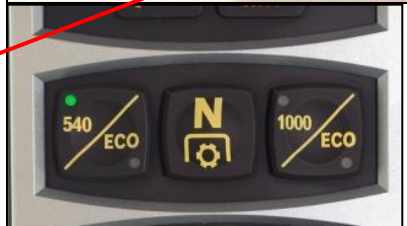


| | | |
|--------------------------|--------------------------|--------------------------|
| 540 Shaft Speed | 540e Shaft Speed | 1000 Shaft Speed |
| 1920 Engine Speed | 1560 Engine Speed | 1964 Engine Speed |

Power Take Off

Electronic PTO Control

- Push-button engagement
- 2-stage rocker switch in RH console
 - On/Off/Brake positions
 - Safety switch prevents accidental engagement
- PTO speed selection buttons in right side cab pillar
- Auto PTO function engages PTO when rear 3-point hitch is lowered
- No front PTO option currently available



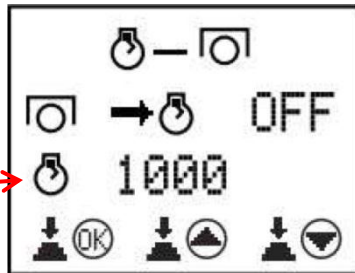
Power Take Off

Economy PTO

- Achieves rated PTO speed at reduced engine speed
- Saves fuel when full power is not required

External PTO Fender Switch

- Turn on/off in Control Center Display
- Allows PTO activation from tractor rear
 - Hold button for 5 sec, PTO will engage
 - Continue to hold button, engine will increase to speed set in CCD
- Press and release button to deactivate



Hydraulics



Implement Hydraulic System

- Open center available (all models)
- Closed center (large frame only)
- 2900 PSI operating pressure
- Hydraulics share transmission reservoir
- Rear valves stacked vertically
- ISO ½" quick connect push/pull couplers
- Up to 4 rear remote valves all models



Standard System

- Open center system with single pump
- 15 gpm flow to implements and 3-point
- Simple, basic, economical system



Hydraulics

Optional Twin Flow System

- Two separate pumps and circuits
 - 15 gpm pump to 3-point hitch
 - 11 gpm pump to remote valves
- Combining valve connects circuits
 - Electronic push-button
 - Combines flow of 2 pumps
 - 26 gpm flow to remote valves
 - 3-point hitch will not work when combined
- Provides fast implement and loader cycle times

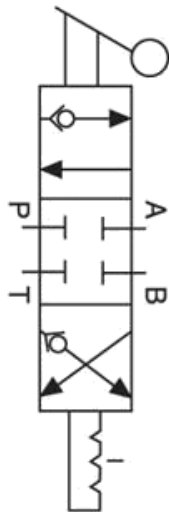


Hydraulics



Optional Closed Center Load Sensing

- Single variable displacement piston pump
 - Instantaneous reaction
 - Fast response to changing conditions
- 29 gpm maximum flow rate
- Only pumps oil when needed
 - Saves power, more efficient
- More consistent flow rate across changing engine speeds
- Offers power beyond ports for implement needs
- Ideal for hydraulic motors



Hydraulics



Valve Types and Configurations

| Base Machine | Remote Valve Options and Configurations |
|---------------------|--|
| Small Frame Classic | Up to 4 mechanical valves – lever controls in RH console |
| Large Frame Classic | Up to 4 mechanical valves – lever controls in RH console |
| | * 2 electronic valves – joystick control in RH armrest Up to 2 mechanical valves – lever controls in RH console |
| Large Frame Deluxe | 2 electronic valves – fingertip controls in RH armrest Up to 2 mechanical valves – lever controls in RH console |
| | 2 electronic valves – joystick controls in RH armrest Up to 2 mechanical valves – lever controls in RH console |

** Requires ordering loader provision 7293680*

Hydraulics



Factory Loader Provision

- Factory-supplied option
- Provision includes:
 - Loader sub-frames
 - Loader mid-valves
 - Integrated factory loader joystick
- Loader mainframe ordered separately
- Easy loader connection
- Includes Pioneer flat-faced couplers
- Clean factory installation
- Saves dealer time and money
- Includes multi-function loader joystick



Hydraulics



Multi Function Loader Joystick – Available Factory Installed Only



Hydraulics



Factory Loader Provision - Classic

- Mechanical joystick option
 - Joystick integrated into RH console
 - Mechanical movement operates loader via pull cables
- Electronic joystick option
 - Large frame models only
 - Joystick integrated into armrest
 - Movement operates loader electrically
 - 2 sets of rear couplers controlled via joystick
 - Must disconnect loader to operate rear couplers



See bulletin MF13-31PMB for more info.

Hydraulics

Factory Loader Provision - Deluxe

- Electronic joystick Standard
 - Joystick integrated into seat armrest with T-handle controller
 - Movement operates loader valves electronically – no cables
 - Joystick movement also controls 2 sets of couplers at rear
 - Must disconnect loader to operate rear couplers



See bulletin MF13-31PMB for more info.

3-Point Hitch



Rear 3-Point Hitch

- ASAE Category II hitch
- Electronically operated
- Telescopic stabilizers
- Fixed and extendable ball ends
- Turn buckle height adjustment
- Lower link draft sensing standard
- Adjustable top link – length and position



| Lift Capacity | @ Ball Ends | @ 24" |
|---------------|---------------------|--------------------|
| Small Frame | 9,480 lb (4300 kg) | 7,100 lb (3220 kg) |
| Large Frame | 11,450 lb (5190 kg) | 8,575 lb (3890 kg) |

3-Point Hitch

Rear 3-Point Hitch Controls (in Cab)



Draft Sensing

Rate of Drop

Max. Lift Height



Depth Wheel

Raise/Neutral/Lower

Active Transport (*3-point hitch suspension system*)

3-Point Hitch

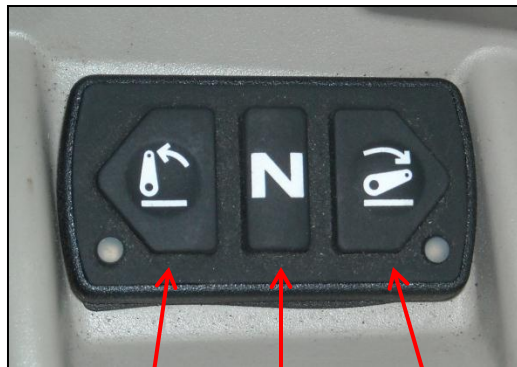


3-Point Activation

- Hitch is locked and inoperable upon engine start-up
- Press N twice to activate hitch

3-Point Operation

- Press “raise” button to raise hitch
- Press “lower” button to lower hitch
- Press N button to hold position
- Press/hold “lower” button for “quick drop”



Raise

N (Neutral)

Lower

3-Point Hitch

External 3-point Fender Buttons

- Control hitch from outside tractor
- Quickly press “raise” then “lower” to activate fender buttons



Front 3-Point Hitch

- Factory option
- 5,500 lb lift capacity at ball ends
- Side frame rails for support
- Double-acting cylinders
- Rear remote valve for operation
 - Manual diverter valve controls oil flow

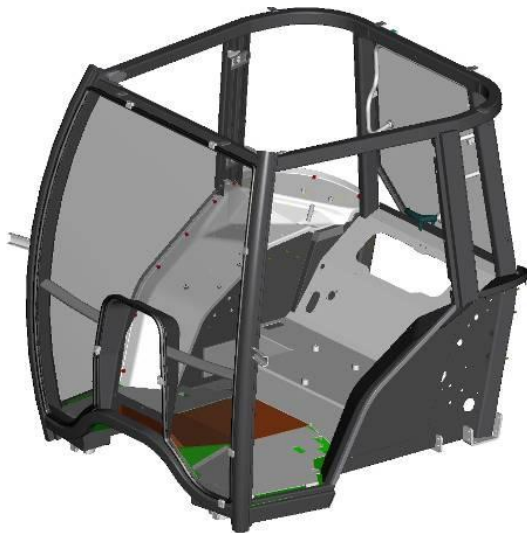


Operator's Area



Cab Only All Models

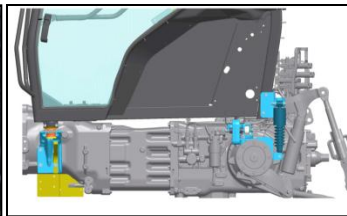
- 6-post ROPS design
- 62.5 ft² of glass
- 71 dB(A) inside sound level
- Rounded design offers more room and improved styling
- Two curved all-glass doors
- Foot steps and grab handles for entry on either side
- Completely flat rubber-coated floor



Operator's Area

Operator Comfort

- Mechanical suspended swivel seat with full adjustment standard
- Retractable seat belt and folding armrests
- Manual adjust air suspended seat or auto air suspended seat optional
- Instructor's seat available
- Mechanical cab suspension optional
 - Coil spring over shock in rear
 - Silent block bushings up front



Operator's Area



Cab Ventilation

- Manual adjust HVAC with roofline controls
- 4-speed fan for operator preference
- Replaceable outside air filter
- Replaceable inside recirculation air filter
- Cool box for drink storage cooled by HVAC
- Rear and corner windows open
- Pull-down front shade



Operator's Area

Visibility

- Steeply sloped Hi Vis hood
- Narrow front dash cross section for exceptional forward visibility
- Operator sits up high for bird's eye view all around
- Visio Roof for visibility of raised loader bucket without leaning forward



Operator's Area

Front Dash

- Adjustable with steering wheel
- Digital and analog display
- Incorporates Dash Control Center (DCC) in lower left corner
- Operator can customize information displayed
- Easy to read at a glance
- Keeps operator informed of tractor status and operation



Operator's Area

Control Center Display

- Deluxe models only
- Advanced user interface
- Color terminal with video input
- ISO BUS compatible
- More capability than DCC
- Easy to use, intuitive
- Greater display of information
- Customizable screens
- Adjustable on-the-go
- Not guidance capable



Operator's Area

Right Hand Console and Pillar

- Convenient location of major tractor functions
- Ergonomically designed for natural hand placement
- Intuitive layout with recognizable controls



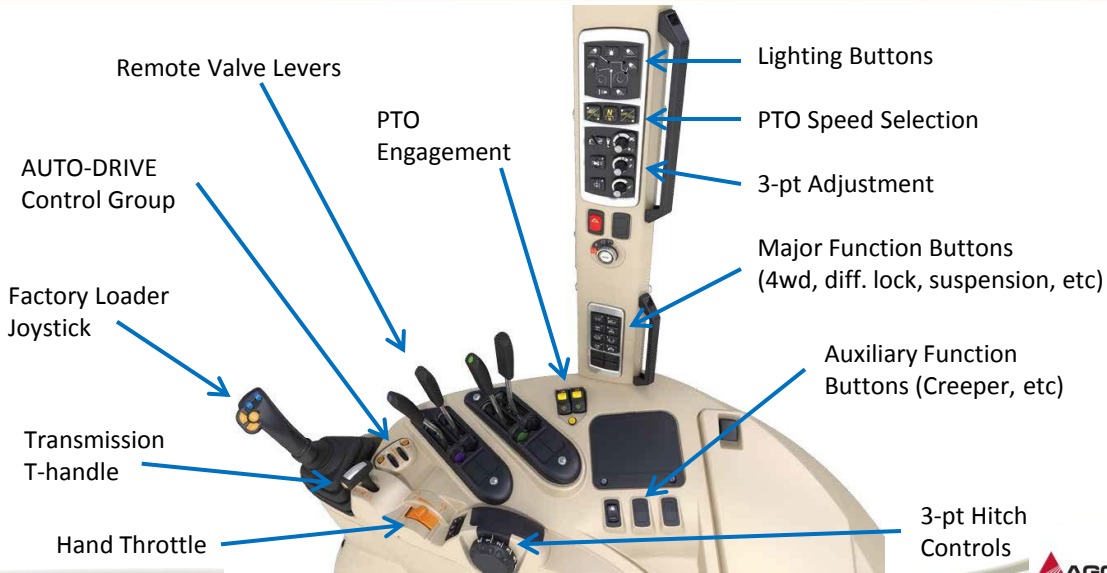
Operator's Area



Classic Layout



Operator's Area



Operator's Area

Deluxe Layout



Operator's Area

Electronic Joystick for
Loader & Hydraulics

Transmission T-handle

Stored Function Buttons

- Headland
- SV1
- Engine Speed

3-point Hitch Controls

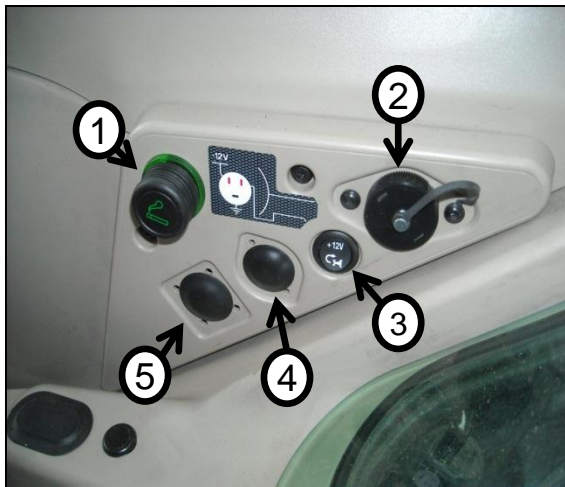
Hand Throttle



Operator's Area

Electrical

- 120 amp alternator
- Multiple in-cab plugs
 1. 12v cigarette plug
 2. 12v 3-prong power plug
 3. On/off switch for 12v power plug
 4. ISO 11783 Plug *(when equipped)*
 5. ISO 11786 Plug *(when equipped)*
- 7-pin trailer plug standard



Operator's Area



Tractor Lighting

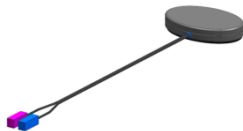
- Ample halogen work lighting for night time jobs
- Roof-line work lights
 - 4 front / 4 rear
- Rear fender lights
- Front waist-line lights
- Front headlights – low/high beams
- Marker and hazard lights
- Optional rotating beacons
- Light controls in RH pillar



Operator's Area

AG COMMAND Ready

- All tractors AG COMMAND ready standard
- Wiring harness and connectors included
- System collects data and transmits to central server
- Data can include: location, hours, status, work, diagnostics, etc.
- Customer can access info for machine and fleet management
- AM50 "black box"
 - Brains of system in tractor
 - Connects to tractor CAN-bus



Service

Service Items

- Fuel tank and DEF under platform – ground level fill
- Single piece raising hood with lockable push button latch
- Easy access to:
 - Engine oil check
 - Engine air filter
 - Battery
 - Transmission check
 - Cabin air filters
- Integrated lockable toolbox



Service

Service Items

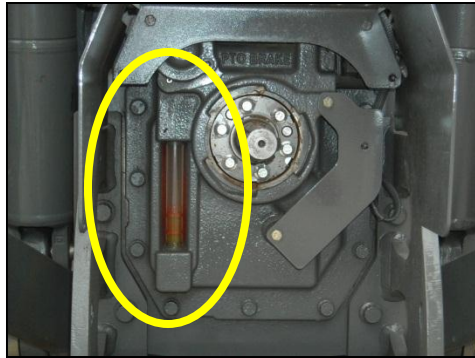
- Cooling package designed for easy cleaning
- Radiators
 - Engine coolant
 - Intercooler
 - Fuel cooler
 - Transmission cooler
 - A/C cooler
- Engine oil check using accessible dipstick
- 2-stage dry engine air filter is easy to check









Service

Service Items

- Transmission oil level check via sight-glass at rear
- Transmission fill at rear
- Battery access under step on right side of tractor
- Service screen and error codes displayed in CCD
- EDT tool required for tractor diagnostics and service



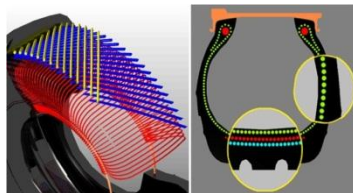
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|---|------|---|---|
|  | 500 |  |  E100 |
|  | 14.0 | V | |
|  | 44 | °C | |
|  | 44 | °C | |

Tires & Ballast



Radial R1 Tires

- R1 radial agricultural tires only
- Excellent off-road traction
- Improved construction over bias tires
- Flexible sidewall for traction
- Balanced for better road speed



18.4 R 30 R1W

Tire Width Radial Rim Diameter Tread Design

Radial Rim Diameter

Tire Width Sidewall Aspect Ratio
(as % of tire width) Tread Design

480/70 R 34 R1W



Tires & Ballast



Ballast

- Ballast improves traction and provides machine stability
- Front ballast counteracts heavy rear draft loads for pulling efficiency
 - Suitcase weights, front 3-pt hitch weights, front loader
- Rear ballast counteracts heavy front loads, such as loader
 - Wheel weights, rear 3-pt hitch weight, rear implement



Loaders



Loader Models & Features

- Manufactured by ALO
- 3 models available
- Quick-attach design
- Built-in parking stands, no tools to disconnect
- High quality design and manufacture, very durable



| | | |
|-------|-------------------|------------------|
| MF931 | Non-self leveling | Small frame only |
|-------|-------------------|------------------|

| | | |
|-------|-------------------|------------|
| MF941 | Non-self leveling | All models |
|-------|-------------------|------------|

| | | |
|-------|---------------|------------|
| MF946 | Self leveling | All models |
|-------|---------------|------------|

Loaders

Hydraulics

- Factory mid valves on RH side of tractor
- Mechanical valves with electrical connection for 3rd function
- Flat-face couplers for easy connection
- Optional single lever quick-connect
- Optional 3rd function capability with diverter valve – grapple, bale pinch
- Optional soft-ride loader suspension system



Loaders

Quick Attach Loader Tools

- Amplifying links for bucket
- Bucket level indicator
- Grill guard
- Quickly change loader tools
 - Manual quick attach
 - Hydraulic quick attach
- 3rd function capable
- Tools available:
 - Buckets – multiple sizes
 - Bale spear
 - Pallet forks
 - Grapple buckets



Specifications



Performance

| | 5609 | 5610 | 5611 | 5612 | 5613 |
|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Rated Engine HP | 90 | 100 | 105 | 115 | 125 |
| Max Engine HP | 95 | 105 | 110 | 120 | 130 |
| Rated Engine Speed | 2200 RPM | | | | |
| PTO HP | 70 | 75 | 80 | 90 | 100 |
| Rated Torque | TBA | 237 lb ft @ 2200 RPM | TBA | TBA | TBA |
| Maximum Torque | 298 lb ft @ 1600 RPM | 304 lb ft @ 1600 RPM | 468 lb ft @ 1500 RPM | 502 lb ft @ 1500 RPM | 545 lb ft @ 1500 RPM |
| Torque Rise | TBA | 28.3% | TBA | TBA | TBA |

Specifications



Engine – Small Frame

| | |
|-----------------------|------------------------------|
| Make | AGCO Power |
| Model | 33 AWI HD |
| Cylinders | 3 |
| Bore x Stroke | 4.25 in. x 4.72 in. |
| Displacement | 3.3 L (201 in ³) |
| Cylinder Construction | Wet replaceable liner |
| Intake | 2-stage dry |
| Aspiration | Turbocharged and intercooled |
| Turbocharger | Fixed geometry, Wastegate |
| Injectors | Direct, centered |
| Valves | 4 / cylinder |

| | |
|----------------------|--------------------|
| Injection Type | Bosch Common Rail |
| Injection Pressure | 23,000+ psi |
| Rotation | Counter clockwise |
| Engine Management | Electronic |
| Engine Controller | SisuTronic EEM4 |
| EPA Compliance | Tier 4i |
| Emissions Components | External EGR, DOC |
| Low / High Idle | 850 RPM / 2402 RPM |
| Starting Aid | Intake Heater |
| Alternator | 95 amp |
| Starter Motor | 3.2 kW, 12V |
| Bio Fuel Use | Up to B20 |

Specifications



Engine – Large Frame

| | |
|-----------------------|------------------------------|
| Make | AGCO Power |
| Model | 44 AWI |
| Cylinders | 4 |
| Bore x Stroke | 4.25 in. x 4.72 in. |
| Displacement | 4.4 L (269 in ³) |
| Cylinder Construction | Wet replaceable liner |
| Intake | 2-stage dry |
| Aspiration | Turbocharged and intercooled |
| Turbocharger | Fixed geometry, Wastegate |
| Injectors | Direct, centered |
| Valves | 4 / cylinder |

| | |
|----------------------|--------------------|
| Injection Type | Bosch Common Rail |
| Injection Pressure | 23,000+ psi |
| Rotation | Counter clockwise |
| Engine Management | Electronic |
| Engine Controller | SisuTronic EEM4 |
| EPA Compliance | Tier 4i |
| Emissions Components | SCR, DOC |
| Low / High Idle | 850 RPM / 2402 RPM |
| Starting Aid | Intake Heater |
| Alternator (amp) | 120 std / 175 opt |
| Starter Motor | TBA |
| Bio Fuel Use | Up to B20 |

Specifications



Transmission and Rear Axle

| | |
|------------------------|---|
| Transmission Model | Dyna-4 |
| Type | power shift / shuttle |
| Gears | 4, electro-hydraulic shift |
| Ranges | 4, electro-hydraulic shift |
| Clutch Type | Wet multi-disc |
| Transmission Controls | LH 3-function Shuttle Lever and RH T-Handle |
| Shuttle Lever Location | Left side steering wheel |
| Shuttle Lever Control | Electro-hydraulic |
| Shuttle Lever Function | Shuttle, upshift & downshift, clutch |
| T-Handle Location | RH Console or Armrest |
| T-Handle Control | Electro-hydraulic |

| | |
|-------------------------|---|
| T-Handle Function | Upshift & downshift |
| Foot Clutch | Modulating valve |
| Travel Speeds | 16 forward x 16 reverse |
| Creeper Reduction | 14:1 |
| Rear Axle Type | Cast Steel with Flange |
| Axle Reduction | Internal Planetary |
| Diff. Lock Type | Dog clutch, fully locking |
| Diff Lock Control | Electro-hydraulic |
| Brakes Type | Internal wet disc |
| Brake Actuation | Hydraulic |
| Optional Trailer Brakes | Pneumatic & hydraulic |
| Parking Brake | Hand lever, 4wd engage |
| Flange to Flange (in) | 62.8 (5609), 66.1 (5610), 69.8 (5611/12/13) |

Specifications



Drivetrain Components (compared to previous models)

| Current Models | | | |
|----------------|--------------|-----------------|------------------|
| Model | Trans. Model | Rear Axle Model | Front Axle Model |
| MF5609 | GBA50 | GPA52 | Dana 725 |
| MF5610 | GBA50 | GPA54 | Dana 725 |
| MF5611 | GBA25 | GPA54 | Dana 730 |
| MF5612 | GBA25 | GPA54 | Dana 730 |
| MF5613 | GBA25 | GPA54 | Dana 730 |

| Previous Models | | | |
|-----------------|--------------|-----------------|------------------|
| Model | Trans. Model | Rear Axle Model | Front Axle Model |
| MF5435 | GBA25 | GPA21 | Dana 720 |
| MF5445 | GBA25 | GPA21 | Dana 720 |
| MF5450 | GBA50 | GPA54 | Dana 725 |
| MF5455 | GBA25 | GPA21 | Dana 720 |
| MF5460 | GBA25 | GPA22 | Dana 730 |
| MF5465 | GBA25 | GPA22+ | Dana 735 |

Specifications



Front Axle

Small Frame

Large Frame

| Front Axle | Small Frame | Large Frame |
|-----------------------|---------------------------------------|---------------------------------------|
| 2wd Axle Design | Adjustable box-in-box | Adjustable box-in-box |
| Steering Angle | 55 degrees | 55 degrees |
| 4wd Axle Design | Cast Steel Fixed | Cast Steel Fixed or Suspended |
| Differential | Centered, locking | Centered, locking |
| Diff. Lock Engagement | With rear axle | With rear axle |
| 4wd Engagement | Electro-hydraulic / with brake pedals | Electro-hydraulic / with brake pedals |
| Final Reduction | Outboard planetary | Outboard planetary |
| Steering System | Hydrostatic | Hydrostatic |
| Steering Angle | 55 degrees | 55 degrees |
| Oscillation | ± 6 degrees | ± 6 degrees |
| 4wd Lead Ratio | 1.383 | TBA |
| Flange to Flange | 64.57 inches | TBA |

Specifications



PTO

| | |
|----------------------|--|
| PTO Clutch Type | Wet multi-disc |
| PTO Engagement | Electro-hydraulic via in-cab rocker switch |
| PTO Speeds Available | 540/540e/1000 RPM |
| PTO Speed Selection | Electro-hydraulic via in-cab push button |
| PTO Shaft Change | Dry 6-bolt flange |
| 540 RPM PTO Speed | 1920 |
| 540e RPM PTO Speed | 1964 |
| 1000 RPM PTO Speed | 1560 |
| 540 Shaft Size | 1 3/8" 6-spline |
| 1000 Shaft Size | 1 3/8" 21-spline |

Implement Hydraulics

| | |
|-------------------------|--------------------------|
| Standard System Type | Open center |
| Pump(s) | Single, gear-type |
| Pump Drive | Transmission driven |
| Flow to Implements | 15 gpm |
| System Pressure | 2900 psi |
| Rear Remote Valves | 2 std, up to 4 available |
| Valve Type | Mechanical Spool |
| Valve Control | Lever in RH console |
| Loader Mid Valves | Optional, mechanical |
| Factory Loader Joystick | Integrated in RH console |

Specifications



Implement Hydraulics, continued...

| | |
|-----------------------|---------------------------------------|
| Twin Flow System Type | Open Center |
| Pumps(s) | Two, gear-type |
| Pump Drive | Transmission driven |
| System Pressure | 2900 psi |
| Flow to 3-pt Hitch | 15 gpm |
| Flow to Remotes | 11 gpm |
| Combined Flow | 26 gpm to remotes |
| Combining Valve | Electronic, push button in cab |
| Rear Remote Valves | 2 std, up to 4 available |
| Valve Type | Mechanical or Electric |
| Valve Control | Levers in RH console or RH armrest |

| | |
|--------------------|---------------------------------------|
| Closed Center | Closed Center Load Sensing |
| Pumps(s) | Variable displacement piston pump |
| Pump Drive | Transmission driven |
| System Pressure | 2900 psi |
| Flow to Implements | 29 gpm |
| Rear Remote Valves | 2 std, up to 4 available |
| Valve Type | Mechanical or Electric |
| Valve Control | Levers in RH console or RH armrest |

Specifications



Rear Hitch

| | |
|------------------------|---|
| ASAE Category | 2 |
| Hitch Operation | Electro-hydraulic |
| Hitch Control | ELC in RH console |
| Functionality | Position and draft control |
| Draft Sensing | Lower Link |
| Lower Link Stabilizers | Telescopic |
| Implement Connection | Extendable |
| Lift Arm Adjustment | Twin turnbuckle |
| Lift Capacity Sm Frame | 7,100 lb @ 24" |
| Lift Capacity Lg Frame | 8,575 lb @ 24" |
| Active Transport | Can be turned on/off in Dash Control Center |

Front Hitch

| | |
|------------------------|-------------------------------------|
| Category | ASAE Category II |
| Hitch Operation | Double action |
| Control | Via tractor remote valve |
| Implement Connection | Fixed hook ends |
| Lift Capacity Sm Frame | 5512 lb @ Hitch |
| Lift Capacity Lg Frame | TBA |
| Configuration | Fold for stowage |
| Design | Integrated into tractor front frame |
| Additional Hydraulics | Set of implement couplers at front |

Specifications



Fluid Capacities – Small Frame

| | |
|----------------------|-------------------|
| Engine Crankcase Oil | 13.7 qts (13 L) |
| Cooling System | 15.3 qts (14.5 L) |
| Coolant Type | 50/50 Mix |
| Fuel Tank | 42.3 gal (160 L) |

| | |
|----------------------|------------------|
| Transmission | 17.2 gal (65 L) |
| 4wd Axle Beam | 5.3 qts (5 L) |
| 4wd Axle Final Drive | 0.85 qts (0.8 L) |
| Grease Type | Lithium Base #2 |

Fluid Capacities – Large Frame

| | |
|----------------------|--------------|
| Engine Crankcase Oil | TBA |
| Cooling System | TBA |
| Coolant Type | 50/50 Mix |
| Fuel Tank | 49 gal (185) |
| DEF Tank | 6.6 gal (25) |

| | |
|----------------------|-----------------|
| Transmission | 19.5 gal (73.8) |
| 4wd Axle Beam | 1 qts (.94 L) |
| 4wd Axle Final Drive | 0.85 qts (0.8L) |
| Grease Type | Lithium Base #2 |

Specifications



Hydraulic Valve Types

| | | |
|-------|-------------------------------|---|
| SA | Single acting | Oil flows out and back through same port |
| DA | Double acting | Oil flows out one port and in through other port |
| SA/DA | Single acting / double acting | Valve can be altered from SA to DA |
| KO | Kick out | Detent valve will stay in flow position until pressure kicks it back to neutral |
| FL | Float | Detent position where oil flows in and out of tractor without restriction |
| NF | Notch Float | Combines normal detent float with zero leak capability |
| FD | Flow Divider | Regulates oil flow to valve, making oil flow available to other valves |
| ZL | Zero Leak | Reduces internal leakage in valve, preventing ram movement from position |

Specifications



Tractor Dimensions (16.9R38)

| Dimension | Small Frame (16.9R38) | Large Frame (18.4R34) |
|-------------------------|-----------------------|-----------------------|
| Wheelbase | 97.1 in | TBA |
| Length w/o Weights | 167.5 in | TBA |
| Length w/ Front Weights | 183.8 in | TBA |
| Length w/ front Hitch | 188.7 in | TBA |
| Width at Fenders | 79.3 in | TBA |
| Height to Top of Cab | 109.5 in | TBA |
| Height to Top of Beacon | 115.7 in | TBA |
| Ground Clearance | 17.6 in | TBA |
| 2wd Base Weight | 8,426 lbs | TBA |
| 4wd Base Weight | 8,978 lbs | TBA |

Specifications



Tractor Dimensions

| Capacities | Small Frame | Large Frame |
|----------------------------------|-------------|-------------|
| 2wd Front Axle | 6,085 lbs | TBA |
| 4wd Front Axle | 10,500 lbs | TBA |
| Rear Axle | 11,000 lbs | TBA |
| Maximum Allowable Machine Weight | 21,500 lbs | TBA |

Specifications



Loader Capacities

| | 931 | 941 | 946 |
|-------------------------------------|---|-------------------|---------------|
| Loader Type | Non-self leveling | Non-self leveling | Self leveling |
| Lift Height Under Level Bucket | 126 in | 135 in | 135 in |
| Lift Capacity @ Pivot | 3,880 lbs | 4,735 lbs | 3,965 lbs |
| Max. Rollback Force | 5,313 lbs | 6,170 lbs | 6,100 lbs |
| Max. Dump Angle | 60 degrees | | |
| Max. Curl Angle | 44° | 43° | 43° |
| Rated Hydraulic Pressure | 2900 psi | | |
| Tractor Compatibility | 5600 Series | | |
| Tool Attachment Method | "Euro" quick attach design, single handle | | |
| 3 rd Function Capability | Standard 3 rd function optional, electric diverter valve | | |
| Loader Weight | 992 lbs | 1,135 lbs | 1,290 lbs |

Specifications



5609 Speed Chart (MPH) with 16.9-38 Rear Tires

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 1 / A | 1.11 | 1.36 |
| 1 / B | 1.37 | 1.67 |
| 1 / C | 1.69 | 2.07 |
| 1 / D | 2.08 | 2.54 |
| 2 / A | 2.73 | 3.34 |
| 2 / B | 3.36 | 4.10 |
| 2 / C | 4.15 | 5.07 |
| 2 / D | 5.09 | 6.21 |

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 3 / A | 5.72 | 7.00 |
| 3 / B | 7.02 | 8.58 |
| 3 / C | 8.68 | 10.61 |
| 3 / D | 10.64 | 13.01 |
| 4 / A | 13.56 | 16.58 |
| 4 / B | 16.63 | 20.33 |
| 4 / C | 20.57 | 25.13 |
| 4 / D | 25.21 | 30.81 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 16.9R34 | 0.9423 |
| 16.9R30 | 0.9158 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 18.4R30 | 0.925 |
| 18.4R34 | 0.9913 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 13.6R38 | 0.9453 |

Specifications



5610 Speed Chart (MPH) with 16.9-38 Rear Tires

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 1 / A | 1.06 | 1.29 |
| 1 / B | 1.29 | 1.58 |
| 1 / C | 1.60 | 1.95 |
| 1 / D | 1.96 | 2.39 |
| 2 / A | 2.58 | 3.16 |
| 2 / B | 3.17 | 3.88 |
| 2 / C | 3.92 | 4.79 |
| 2 / D | 4.81 | 5.87 |

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 3 / A | 5.41 | 6.61 |
| 3 / B | 6.63 | 8.11 |
| 3 / C | 8.20 | 10.03 |
| 3 / D | 10.44 | 12.29 |
| 4 / A | 12.82 | 15.66 |
| 4 / B | 15.71 | 19.21 |
| 4 / C | 19.44 | 23.75 |
| 4 / D | 24.13 | 29.12 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 16.9R34 | 0.9423 |
| 16.9R30 | 0.9158 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 18.4R30 | 0.925 |
| 18.4R34 | 0.9913 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 13.6R38 | 0.9453 |

Specifications



5609 Speed Chart (MPH) with 16.9-38 Rear Tires (14:1 Creeper)

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 1 / A | 0.08 | 0.10 |
| 1 / B | 0.10 | 0.12 |
| 1 / C | 0.12 | 0.15 |
| 1 / D | 0.15 | 0.19 |
| 2 / A | 0.20 | 0.24 |
| 2 / B | 0.24 | 0.30 |
| 2 / C | 0.30 | 0.37 |
| 2 / D | 0.37 | 0.45 |

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 3 / A | 0.42 | 0.51 |
| 3 / B | 0.52 | 0.63 |
| 3 / C | 0.63 | 0.78 |
| 3 / D | 0.78 | 0.95 |
| 4 / A | 0.72 | 1.21 |
| 4 / B | 1.22 | 1.49 |
| 4 / C | 1.50 | 1.84 |
| 4 / D | 1.85 | 2.25 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 16.9R34 | 0.9423 |
| 16.9R30 | 0.9158 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 18.4R30 | 0.925 |
| 18.4R34 | 0.9913 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 13.6R38 | 0.9453 |

Specifications



5610 Speed Chart (MPH) with 16.9-38 Rear Tires (14:1 Creeper)

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 1 / A | 0.07 | 0.09 |
| 1 / B | 0.09 | 0.12 |
| 1 / C | 0.12 | 0.14 |
| 1 / D | 0.14 | 0.17 |
| 2 / A | 0.19 | 0.23 |
| 2 / B | 0.23 | 0.29 |
| 2 / C | 0.29 | 0.35 |
| 2 / D | 0.35 | 0.43 |

| Range / Gear | Speed MPH (1800 engine RPM) | Speed MPH (2200 engine RPM) |
|--------------|--------------------------------|--------------------------------|
| 3 / A | 0.40 | 0.48 |
| 3 / B | 0.48 | 0.59 |
| 3 / C | 0.60 | 0.73 |
| 3 / D | 0.73 | 0.90 |
| 4 / A | 0.94 | 1.14 |
| 4 / B | 1.15 | 1.40 |
| 4 / C | 1.42 | 1.73 |
| 4 / D | 1.74 | 2.13 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 16.9R34 | 0.9423 |
| 16.9R30 | 0.9158 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 18.4R30 | 0.925 |
| 18.4R34 | 0.9913 |

| Tire Size | Multiply By: |
|-----------|--------------|
| 13.6R38 | 0.9453 |

Web Links



Massey Ferguson Website

www.masseyferguson.us/

MF5600 Series Tractor Spec Page (English)

<http://www.masseyferguson.us/Library/upload/massey-ferguson-5600-series-spec-sheet.pdf>

MF5600 Series Tractor Spec Page (French)

<http://www.masseyferguson.us/Library/upload/massey-ferguson-5600-series-spec-sheet-french.pdf>

AGCO Corporation Website

www.agcocorp.com/

AGCO Facebook Page

www.facebook.com/AGCOcorp

AGCO Twitter Page

www.twitter.com/AGCOcorp

AGCO YouTube Page

www.youtube.com/AGCOcorp

Conversions



| TABLES OF CONVERSION FACTORS | | | | | | | |
|--|----------------------|--------|------------------------|---------------------|------------------------|------------------------|------------------------|
| TO CONVERT FROM METERS TO INCHES, FOR EXAMPLE, FIND THE ROW LABELED "1 METER" AND THE COLUMN LABELED "IN." THE CONVERSION FACTOR IS 39.37. THUS, 1 METER = 39.37 IN. | | | | | | | |
| LENGTH | CM | M | KM | IN | FT | YD | MI |
| 1 CENTIMETER | 1 | 0.01 | 10^{-5} | 0.3937 | 3.281×10^{-2} | 1.094×10^{-2} | 6.214×10^{-6} |
| 1 METER | 100 | 1 | 10^{-3} | 39.37 | 3.281 | 1.094 | 6.214×10^{-4} |
| 1 KILOMETER | 10^5 | 1000 | 1 | 3.937×10^4 | 3281 | 1094 | 0.6214 |
| 1 INCH | 2.54 | 0.0254 | 2.54×10^{-5} | 1 | 0.0833 | 0.0278 | 1.578×10^{-5} |
| 1 FOOT | 30.48 | 0.3048 | 3.048×10^{-4} | 12 | 1 | 0.3333 | 1.894×10^{-4} |
| 1 YARD | 91.44 | 0.9144 | 9.144×10^{-4} | 36 | 3 | 1 | 5.682×10^{-4} |
| 1 MILE | 1.6093×10^5 | 1609.3 | 1.6093 | 6.336×10^4 | 5280 | 1760 | 1 |

| VOLUME (CAPACITY) | | | | | | | |
|---|---------------------|------------------------|---------------------|------------------------|------------------------|---------------------|------------------------|
| | CM ³ | M ³ | IN ³ | FT ³ | ℓ | OZ | GAL |
| 1 CUBIC CENTIMETER | 1 | 10^{-6} | 0.06102 | 3.531×10^{-5} | 1.000×10^{-3} | 0.03381 | 2.642×10^{-4} |
| 1 CUBIC METER | 10^6 | 1 | 6.102×10^4 | 35.31 | 1000 | 3.381×10^4 | 264.2 |
| 1 CUBIC INCH | 16.39 | 1.639×10^{-5} | 1 | 5.787×10^{-4} | 0.01639 | 0.5541 | 4.329×10^{-2} |
| 1 CUBIC FOOT | 2.832×10^4 | 0.02832 | 1728 | 1 | 28.32 | 957.5 | 7.480 |
| 1 LITER | 1000 | 1.000×10^{-3} | 61.03 | 0.03532 | 1 | 33.81 | 0.2642 |
| 1 OUNCE | 29.57 | 2.957×10^{-5} | 1.805 | 1.044×10^{-3} | 0.02957 | 1 | 7.813×10^{-3} |
| 1 GALLON | 3785 | 3.785×10^{-3} | 231 | 0.1337 | 3.785 | 128 | 1 |
| 1 GALLON = 4 QUARTS (QT) = 8 PINTS (PT) = 16 CUPS (C) | | | | | | | |
| 1 CUP (C) = 8 ONCES (OZ) = 16 TABLESPOONS (TBSP) = 48 TEASPOONS (TSP) | | | | | | | |

Calendar



2013

January

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

May

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

September

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| 30 | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

February

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | | | |

June

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

October

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

March

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

July

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

November

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

April

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

August

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

December

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
| 30 | 31 | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

Notes



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