

70-80-85-90-100-110-120 (T3) F | F-GE | F-XL

NEW

F



McCORMICK



**McCORMICK**

# McCormick F, the specialist changes its look



The McCormick F tractor gets an all-new look for 2015 in line with the distinctive family styling introduced on the latest generation of McCormick tractors.

The new McCormick F series features a fully redesigned hood and front grille with integrated round headlights, while the decals on the hood sides reflect the new look adopted in 2012. The driving position on both cab and platform models has been updated with a new colour for the plastics of the dashboard and side consoles. The cab version also sports a new colour for the ceiling.

The new McCormick F tractors still offer a choice of three transmissions and a variety of front and rear axle solutions, resulting in different wheelbase sizes and track widths.

The range comprises three models designed for specific applications:

> F model: (narrow orchard) ideal for work in small-sized, narrow-lane orchards.

> F-GE model: (low orchard) ideal for work under low orchards and overhead trellis systems.

> F-XL model: (large orchard) for standard orchards and field work.

The new McCormick F offers the same high standards of comfort and performance as its predecessor. The driving position is designed to offer the driver a roomy and comfortable workstation with ergonomically-arranged controls capable of responding more efficiently to the ever more specialized needs of modern farming.

Powered by powerful Perkins Tier 3 turbo-aftercooled engines, the new McCormick F series features a transmission with Hi-Lo splitter gear and power shuttle, a PTO with electrohydraulic engagement, an electronically-controlled rear hitch and a variety of hydraulic options. Plus, a tight steering radius provides excellent manoeuvrability, further enhancing the tractor performance and productivity.

All these features convert the McCormick F tractors into reliable, versatile machines capable of handling a variety of implements with ease and of coping with almost any terrain and crop. The McCormick F tractors deliver a unique combination of performance, functional features and efficiency, without compromising on look and comfort.

**A**

### ENGINES

The McCormick F tractors are powered by the Perkins 1103D and 1104D three- and four-cylinder engines. Specially designed for farming applications, these modern, eco-friendly engines incorporate advanced features and technologies and meet the Tier 3 emission regulations. The McCormick F range comprises seven models with power ratings of 74 hp (naturally aspirated), 83 hp (turbocharged), 68, 79, 92.5, 102, and 110 hp (turbo aftercooled). Featuring an advanced fuel injection system that optimizes air-fuel mixture and enhances combustion efficiency, these engines combine high levels of power and torque and low running costs. The tilt-up hood opens wide to provide easy access to the engine compartment for routine service and maintenance (fig. A).

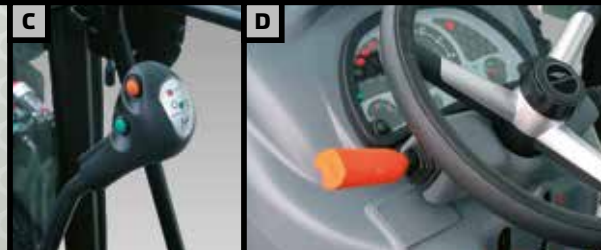
**B**

### FRONT AXLE

The McCormick F series offers a choice of two 4WD front axles: narrow for the F and F-GE models and large for the F-XL model. Both axles incorporate advanced features including a central drive, a Hydralock type differential lock, and a hydraulic four-wheel drive engagement. The optimization of the engine compartment and the adoption of either 18- or 16-inch tyres have allowed increasing the steering angle by 20%, providing excellent manoeuvrability in tight spaces. In addition, the combined front and rear wet disc brakes ensure efficient braking on all four wheels (fig. B). The F model is also available with 2WD front axle.

### TRANSMISSION

The McCormick F series is offered with three transmission options. The Speed Four transmission (4 gears providing 12FWD+12REV speeds) and the Speed Five transmission (5 gears providing 15FWD+15REV speeds) feature a mechanical gearbox with a synchro shuttle. The PowerFive is a hydraulic 5-gear transmission with power shuttle which incorporates an electro-hydraulically engaged Hi-Lo gear splitter that allows the selected gear to be reduced by 20%, thus providing 30FWD+30REV speeds. The PowerFive transmission allows the operator to double the number of speeds of the basic gearbox by simply pressing on the green pushbutton integrated into the gearshift lever (fig. C). The hydraulic transmission further incorporates a De-clutch feature (orange button integrated into the gearshift lever) (fig. C) and a power shuttle lever adjacent to the steering wheel (fig. D) that allow the operator to easily shift through all gears and change from forward to reverse without using the clutch pedal.

**C****D****E**

### DASHBOARD

The stylish dashboard features intuitive, easy-to-read digital instruments and constantly provides the operator with precise and immediate indications about the performance of the tractor and implements. The dashboard is further equipped with an on-board computer that monitors the progress of farming operations (fig. E).



## KEY FEATURES & BENEFITS

- › PERKINS 3- AND 4-CYLINDER ENGINES WITH POWER RATINGS FROM 68 TO 110 HP
- › NEW HOOD DESIGN IN LINE WITH MCCORMICK FAMILY FEELING
- › CHOICE OF THREE TRANSMISSIONS: SPEED FOUR, SPEED FIVE OR POWERFIVE
- › ELECTRO-HYDRAULIC POWERFIVE TRANSMISSION (HI-LO POWERSHIFT)
- › DE-CLUTCH FUNCTION AND POWER SHUTTLE LEVER
- › FOUR-POST CAB WITH ALL-ROUND VISIBILITY
- › NEW COLOURS FOR CAB INTERIOR AND CONTROL CONSOLES
- › ERGONOMICALLY-ARRANGED INTUITIVE CONTROLS
- › ELECTRONIC POWER LIFT FOR THE CAB VERSION
- › HYDRAULIC SYSTEM WITH CHOICE OF DOUBLE OR TRIPLE PUMP

## PTO

The 1<sup>3</sup>/<sub>8</sub> PTO offers a choice of two speeds: 540/750 rpm or, optionally, 540/1000 rpm. Hydraulically operated by a push-button (P), the multi-disc wet clutch enables smooth and modulated engagement of the PTO, ensuring a soft start-up of the implement (fig. F-H).

## DIFFERENTIAL LOCKS AND 4WD

The combined front and rear differential locks and the four-wheel drive are electro-hydraulically engaged via a pushbutton (fig. F).

## NEW ELECTRONIC POWER LIFT FOR F AND F-XL MODELS WITH CAB

With the main controls located in an extremely ergonomic and intuitive position and the main settings conveniently integrated into the right-hand console (fig. F-G), the rear power lift allows the operator to use the implements with maximum ease and comfort. In addition, the power lift sensitivity can be easily adjusted to improve the working accuracy. The lift controls are located on the rear fenders making it easier to attach implements from the ground (fig. H).



## HYDRAULIC SYSTEM

The hydraulic system features a double pump that provides a total flow of 82 l/min. The McCormick F tractors are fitted as standard with either two (F / F-G models) or three (F-XL model) single-/double-acting remote valves, including one with float function. The tractor can be optionally equipped with an electro-hydraulic three-way flow divider that is operated by a lever (L) integrated into the right-hand console (fig. G). The lever incorporates three buttons that enable the operator to control either the right lifting rod, the hydraulic top link or a remote valve. As an alternative, a triple pump with three front remote valves controlled by a joystick can be optionally fitted to operate front-mounted implements. The high-quality quick-release couplings, mounted on both the front and rear of the tractor, are easily accessible for convenient and fast operation (fig. I).

## CAB

With its rear-hinged, fully-glazed side doors, the Deluxe cab offers the operator unequalled all-round visibility. The cab features a modern and stylish interior with automotive-grade fit and finish and new colours for the plastics of the dashboard and side consoles and for the ceiling. All controls are ergonomically placed for convenient operation, while the air-suspended seat and the height-adjustable steering wheel further enhance the operator comfort. The cab is pressurized to keep a clean, dust-free environment and features an efficient heating, ventilation and air-conditioning system which integrates an air filter that cleans the air inside the cab providing the operator with a safe, healthy and comfortable work environment. Natural ventilation is ensured by the opening front and rear windscreens (fig. L). The colours of the dashboard and side console have been updated also in the platform version.



	<b>F 70 F-GE</b>		<b>F 80 F-GE-XL</b>		<b>F 85 F-GE</b>		<b>F 90 F-GE-XL</b>		<b>F100 F-GE-XL</b>		<b>F110 F-GE-XL</b>		<b>F120 F-GE-XL</b>	
	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE
<b>ENGINE</b>														
PERKINS TIER3 DIRECT-INJECTION ENGINE			1103D-33TA	1104D-44	1103D-33TA	1104D-44T	1104D-44TA	1104D-44TA	1104D-44TA	1104D-44TA	1104D-44TA	1104D-44TA	1104D-44TA	1104D-44TA
MAX. POWER (ISO)	HP/KW		68/50	74/54.5	79/58	83/61	92.5/68	102/75	110.2/81					
MAX. TORQUE	NM		280	261	310	352	393	416	410					
DISPLACEMENT	CM <sup>3</sup>		3300/3	4400/4	3300/3	4400/4	4400/4	4400/4	4400/4					
FUEL TANK CAPACITY STD F / F-GE	L		40 + (25 OPT)	40 + (25 OPT)	40 + (25 OPT)	65	65	65	65					
FUEL TANK CAPACITY STD F-XL	L		-	57 + (25 OPT)	-	82	82	82	82					
<b>CLUTCH</b>														
INDEPENDENT DRY DUAL CLUTCH	IN.		11	12	11	12	12	12	12					
MECHANICALLY OPERATED			●	●	●	●	●	●	●					
MULTI-DISC WET CLUTCH			●	●	●	●	●	●	●					
DECLUTCH CONTROL: BUTTON-OPERATED CLUTCH			●	●	●	●	●	●	●					
<b>TRANSMISSION</b>														
SPEED FOUR + SYNCHRO SHUTTLE: 12FWD+12REV			E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	-	-					
SPEED FOUR + CREEPER+SYNCHRO SHUTTLE: 16FWD+16REV			E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	-	-					
REAR ELECTROHYDRAULIC DIFF-LOCKS			E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	-	-					
SPEED FIVE + SYNCHRO SHUTTLE: 15FWD+15REV			●	●	●	●	●	●	●					
SPEED FIVE + CREEPER + SYNCHRO SHUTTLE: 20FWD+20REV			○	○	○	○	○	○	○					
POWERFIVE + SPEED FIVE: 30FWD+30REV			○	○	○	○	○	○	○					
POWERFIVE + SPEED FIVE + CREEPER: 40FWD+40REV			○	○	○	○	○	○	○					
REVERSE POWER SHUTTLE UNDER LOAD			●	●	●	●	●	●	●					
<b>POWER TAKE-OFF</b>														
POWER ASSISTED MECHANICAL ENGAGEMENT			●	●	●	●	●	●	●					
HYDRA-PTO WITH WET MULTIDISC CLUTCH			●	●	●	●	●	●	●					
ELECTROHYDRAULIC CONTROL			●	●	●	●	●	●	●					
2 SPEEDS 540/750 RPM			●	●	●	●	●	●	●					
2 SPEEDS 540/1000 RPM			○	○	○	○	○	○	○					
NET PTO POWER (ISO)	HP/KW		58/42.5	63/46.5	68/50	70/51.5	77.5/57	85.5/63	92.5/68					
<b>FRONT 4WD AXLE</b>														
ELECTROHYDRAULIC 4WD ENGAGEMENT			●	●	●	●	●	●	●					
MAX. STEERING ANGLE 55° (*)			●	●	●	●	●	●	●					
TWIN-LOCK ELECTROHYDRAULIC DIFF-LOCKS			●	●	●	●	●	●	●					
LIMITED SLIP DIFF-LOCKS			E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	-	-					
<b>BRAKES</b>														
GRAPHITE-COATED WET MULTI-DISK REAR BRAKES - 8 DISCS			●	●	●	●	●	●	●					
GRAPHITE-COATED WET MULTI-DISK FRONT BRAKES - 4 DISCS			●	●	●	●	●	●	●					
IBS - INTEGRAL BRAKING SYSTEM			●	●	●	●	●	●	●					
AUTOMATIC 4WD ENGAGEMENT ON BRAKING			E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	E-LINE VERSION	-	-					

Key: ● standard ○ option — not available

> 55° for special applications

N.B.: all other data not included in this table are the same for both the E-LINE and SYNCHRO SHUTTLE versions of the 70, 80, 85 and 90 F, F-GE and F-XL models. The E-LINE versions of the 100, 110 and 120 F, F-GE and F-XL models are not included in the price list.

	F 70 F-GE		F 80 F-GE-XL			F 85 F-GE		F 90 F-GE-XL			F 100 F-GE-XL			F 110 F-GE-XL			F 120 F-GE-XL			
	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	XL	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	XL	SYNCHRO SHUTTLE	POWER SHUTTLE	XL	SYNCHRO SHUTTLE	POWER SHUTTLE	XL	SYNCHRO SHUTTLE	POWER SHUTTLE	XL	
<b>HYDRAULIC POWER LIFT</b>																				
MECHANICALLY OPERATED																				
ELECTRONICALLY OPERATED (ONLY CAB VERSION)																				
MAX. LIFT CAPACITY	KG	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	
ADDITIONAL CAPACITY WITH 1 ASSISTOR RAM (ONLY FOR GT MOD.)	KG	-	+ 650	-	+ 650	-	+ 650	-	+ 650	-	+ 650	-	+ 650	-	+ 650	-	+ 650	-	+ 650	
HYDRAULIC FLOW @ REMOTES	L/MIN	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	52.3+29.9	
CAT. 2 THREE-POINT LINKAGE																				
REMOTE VALVES STD F/GE/GT																				
FLOW DIVERTER		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
TRIPLE PUMP FLOW RATE (LIFT+STEERING+REMOTE VALVES)	L/MIN	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	29.9+29.9+41	
TRIPLE PUMP + 3 FRONT REMOTE VALVES + JOYSTICK																				
<b>CAB AND DRIVING SEAT</b>																				
DELUXE CAB / RADIO ADAPTOR																				
HEATING / VENTILATION																				
AIR-CONDITIONING																				
ISO-MOUNTED PLATFORM																				
<b>DIMENSIONS AND WEIGHTS</b>																				
		F	GE	F	GE	XL	F	GE	F	GE	XL	F	GE	XL	F	GE	XL	F	GE	XL
FRONT TYRES 4WD		280/70R16	260/70R16	280/70R16	260/70R16	750-18	280/70R16	260/70R16	280/70R16	260/70R16	750-18	280/70R16	260/70R16	750-18	280/70R16	260/70R16	750-18	280/70R16	260/70R16	750-18
REAR TYRES		14.9R24	14.9LR20	14.9R24	14.9LR20	14.9R24	14.9R24	14.9LR20	14.9R24	14.9LR20	14.9R24	14.9R24	14.9LR20	14.9R24	14.9R24	14.9LR20	14.9R24	14.9R24	14.9LR20	14.9R24
A - MIN. LENGTH 2WD AND 4WD	MM	3900	3900	4009	4009	4009	3900	3900	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009	4009
B - MIN. WIDTH	MM	1437	1413	1437	1413	1554	1437	1413	1437	1413	1554	1437	1413	1554	1437	1413	1554	1437	1413	1554
C - WHEELBASE 2WD	MM	2065	-	2174	-	-	2065	-	2174	-	-	2174	-	-	2174	-	-	2174	-	-
C - WHEELBASE 4WD	MM	2017	2017	2134	2134	2134	2017	2017	2134	2134	2134	2134	2134	2134	2134	2134	2134	2134	2134	2134
D - HEIGHT TO STEERING WHEEL	MM	1440	1300	1440	1300	1440	1440	1300	1440	1300	1440	1440	1300	1440	1440	1300	1440	1440	1300	1440
E - HEIGHT TO SAFETY FRAME	MM	2315	2150	2315	2150	2315	2315	2150	2315	2150	2315	2315	2150	2315	2315	2150	2315	2315	2150	2315
E - HEIGHT OVER CAB	MM	2260	-	2260	-	2260	2260	-	2260	-	2260	2260	-	2260	2260	-	2260	2260	-	2260
F - GROUND CLEARANCE 4WD	MM	220	190	220	190	240	220	190	220	190	240	220	190	240	220	190	240	220	190	240
WEIGHT 2WD (WITHOUT BALLAST) + CAB 130 KG	KG	2500	-	2615	-	-	2500	-	2615	-	-	2615	-	-	2615	-	-	2615	-	-
WEIGHT 4WD (WITHOUT BALLAST) + CAB 130 KG	KG	2675	2480	2845	2540	2865	2675	2480	2845	2540	2865	2845	2540	2865	2845	2540	2865	2845	2540	2865

Key: ● standard ○ option — not available

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