

390/4 tractor

86 BS hp. 4 wheel drive



MASSEY FERGUSON

390/4

PERFORMANCE

Rated engine power *86 BS hp (64,1 kW)
 @ 2200 rev/min †80 DIN PS (58,9 kW)
 Max. engine torque
 @ 1600 rev/min *283 Nm (†223 lbf ft)
 Max PTO power @
 rated engine speed
 - high spec. #73,0 PS (53,7 kW)
 - low spec. †78,0 PS (57,4 kW)
 * BS Au 141a † DIN 70020
 # Manufacturer's estimate

ENGINE

Make/type Perkins/A4.248
 No. of cylinders 4
 Injection Direct
 Bore 101,0 mm (3.975 in)
 Stroke 127,0 mm (5.0 in)
 Capacity 4,07 litre (248 in³)
 Compression ratio 16.0:1
 Starting Aid Thermostat
 Throttle control Hand and foot

Cooling Water
 Air cleaner Oil bath or Dual dry element
 Air pre-cleaner over-bonnet, centrifugal or under-bonnet (dry only)
 Fuel filter Single, high capacity plus sedimenter
 Exhaust Vertical or horizontal

ELECTRICS

Voltage 12V negative earth
 Alternator/starter 45 Amp/2,2 kW
 Lights Headlights, sidelights, brake lights, direction indicators, rear work lamp
 Other Horn, 7 pin trailer socket

CLUTCH

Live PTO models Dual clutch
 305 x 254mm
 (12 x 10 in) dia

Independent PTO models Split torque clutch
 305 mm (12 in) dia.
 Lining material Cerametalic

POWER TAKE OFF

Live PTO models Dual clutch, pedal operated
 Independent PTO models Hydraulic clutch, operated by single hand lever (shiftable on 2-speed models)
 PTO speeds single speed 540 rev/min @ 1789 engine rev/min
 two speed (shiftable) 540 rev/min @ 1902 engine rev/min
 1000 rev/min @ 2000 engine rev/min
 Shaft diameter 35 mm (1.38 in)
 No. of splines 6



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TRANSMISSION

8 speed sliding spur	8 forward, 2 reverse speeds
8 speed synchro	8 forward, 2 reverse speeds, synchromesh
Synchro 12	12 forward, 4 reverse speeds, synchromesh, manual change
12/12 Shuttle	12 forward, 12 reverse speed synchro shuttle, manual 'sideshift' change
18/6 Speedshift*	18 forward, 6 reverse speeds, synchromesh, manual 'sideshift' change with 2-speed on-the-move 'powershift'

*Please check availability with your dealer

Road speeds - at rated engine speed
18.4-30 rear tyres. (km/h)

For.	8/2	12/4	12/12	18/6
1	2,5	1,9	1,7	1,5
2	3,7	2,5	2,2	1,8
3	5,1	2,9	2,9	2,2
4	6,8	3,7	3,8	2,7
5	10,4	5,4	4,8	3,2
6	15,2	6,8	6,2	3,8
7	20,8	8,0	8,2	4,2
8	27,9	10,1	10,7	5,1
9		12,1	12,9	6,2
10		15,2	16,8	7,5
11		22,0	22,0	8,9
12		27,9	28,9	10,7
13				11,5
14				13,8
15				16,8
16				20,2
17				24,0
18				28,9
Rev.				
1	3,5	2,9	as	2,0
2	14,1	3,7	forward	2,4
3		12,1	speeds	5,6
4		15,2		6,7
5				15,1
6				18,1

HYDRAULICS

Functions	Draft, Position and Response control
Max. oil flow	
- standard flow pump	16,7 litre/min (3.67 Imp. gal/min)

- high flow pump	27,6 litre/min (6.07 Imp. gal/min)
Max pressure	207 bar (3000 lbf/in ²)
Max. lift capacity at link ends, links horizontal	
- less assistor ram	2586 kg (5701 lb)
- with assistor ram	3059 kg (6744 lb)
Lower links	Cat 2 fixed ball end. Linkage check chains and chain stabilisers.
Drawbar	Heavy duty swinging drawbar.

AUXILIARY HYDRAULICS

Pump location	Engine mounted
Pump type	Dual element, gear
Max oil flow	36,0 litre/min (7.92 Imp. gal/min) @ 175 bar (2500 lbf/in ²)
Combined flow	
- standard flow pump	52,6 litre/min (11.57 Imp. gal/min)
- high flow pump	63,6 litre/min (13.99 Imp. gal/min)
Control	Selector valve
Spool valves	Up to 3 single/double acting, with spring-to-neutral, detent, detent/kick-out or float facilities available

STEERING

Type	hydrostatic
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4WD FRONT AXLE

Axle type	Parallel drive
Engagement*	Mechanical or electro-hydraulic
Differential†	Hydro-mechanical or automatic
Max. turning angle	50°
*varies by transmission specified	
†varies by hydraulics specified	

BRAKES

Type	Oil cooled, 4 plate disc
Braking area	1774 cm ² (275 in ²)
Operation	Hydraulic
Parking brake	Hand lever operated
Trailer brakes	Optional

OPERATOR AREA

Seat	Spring suspension
Fenders	Flat top, with tool box and basic tool kit

INSTRUMENTATION

Gauges: Tachometer/hourmeter, fuel, water temperature
Warning lights (*varies by tractor specification): Direction indicators, electric charge, headlight main beam, diff. lock engaged, handbrake, low fuel, low engine oil pressure, engine air cleaner blockage*, transmission oil pressure*, transmission oil filter blockage*, 4WD engaged

WHEELS AND TYRES

Front	12.4-24 6PR pressed
Rear	18.4-30 6PR pressed

TRACK ADJUSTMENTS

Front	1376-1944 mm (54-76 in)
Rear - pressed	1431-2131 mm (56-84 in)
- cast PAVT	1398-2109 mm (55-83 in)

WEIGHTS AND DIMENSIONS

With full fuel, oil and water. 12.4-24 front and 18.4-30 Pressed rear tyres/wheels.

Weight - front	1429 kg (3150 lb)
- rear	1582 kg (3488 lb)
- total	3011 kg (6638 lb)
Overall length	3811 mm (150.0 in)
Width - minimum	1871 mm (73.7 in)
Height, over	
- exhaust	2485 mm (97.8 in)
- steering wheel	1781 mm (70.1 in)
Wheelbase	2350 mm (92.5 in)
Turning circle	
- less brakes	8518 mm (335 in)
Ground clearance, under	
- drawbar	379 mm (14.9 in)
- 4WD axle	395 mm (15.6 in)

CAPACITIES

Fuel tank	108 litre (23.8 Imp. gal)
Engine sump	7,7 litre (13.6 Imp. pt)
Cooling system	15,5 litre (27.3 Imp. pt)
Hydraulic system	47,4 litre (10.3 Imp. gal)

VARIABLE EQUIPMENT

Range of gearbox options. Live or independent PTO. Economy PTO. Standard or high flow linkage pump. Auxiliary hydraulic pump. 21spline (1000 rev/min) PTO shaft. Trailer tipping pipe. Rigid stabilisers. Auto hitch. Height adjustable 2-axle trailer hitch. Hydraulic trailer brakes. Lift assistor ram. Front weights. Wheel weights. O.E.C.D. tested safety frame. Seatbelt (for use with safety frame). Sunroof. Sun canopy. Tilt-adjustable steering column. Range of wheel and tyre options.



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Specifications are subject to change without notice and may vary from country to country. Please check with your distributor or dealer at the time of placing your order.