

Massey-Ferguson

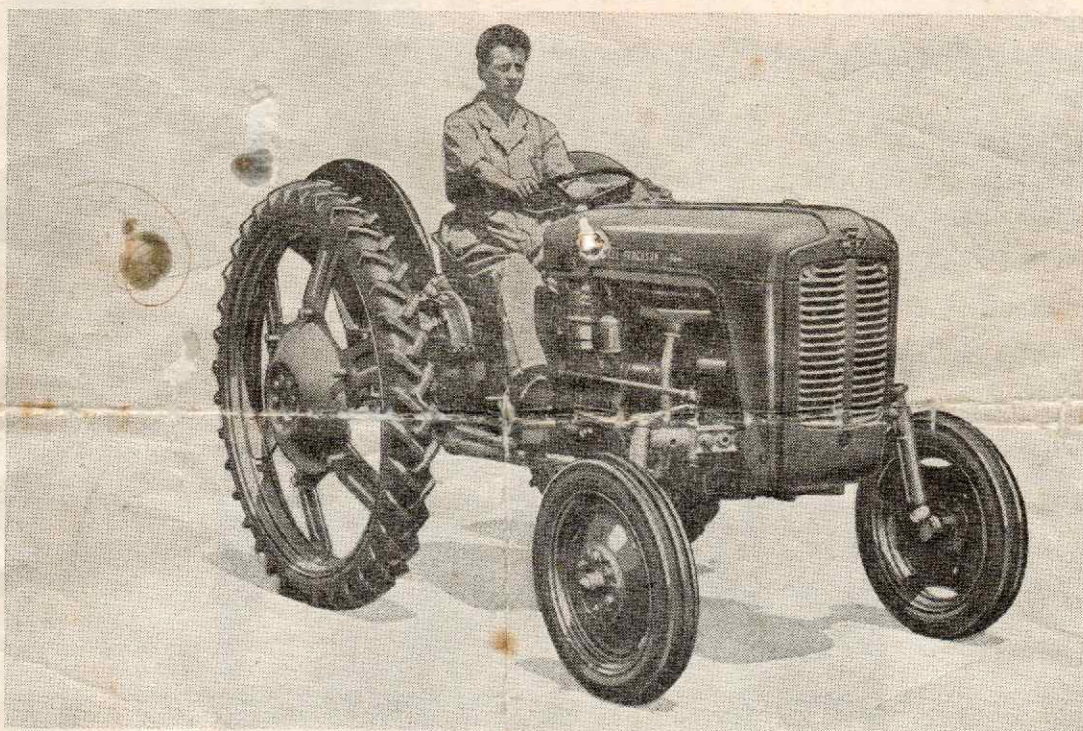


Product Information

Tractors U.K. 60-1

FE 35 HIGH CLEARANCE KIT

A high clearance kit, now released by the Engineering Department, is for the conversion of the normal FE 35 tractor into a high clearance row-crop model.



The demand for maximum productivity from row-crops grown on a farm scale calls for complete mechanisation with a minimum of crop damage. This conversion has been designed to achieve this ideal whilst maintaining the outstanding qualities of the Ferguson System FE 35 Tractor.

Advantages of the High Clearance are:—

- ★ Wheel damage to the foliage of potatoes, brassica and other crops is minimised without the use of cumbersome steel wheels.
- ★ 'Rolling down' or 'razing' the crop with the underside of the tractor is also brought to a minimum.
- ★ Using the narrow wheels, only a narrow band of soil between the rows is compacted. This allows the uninhibited development of the roots of such crops as potatoes, beet, etc.

- ★ A farmer who already owns a normal FE 35 tractor can convert it to an efficient row-crop machine at a comparatively low cost and still be able to revert back to the original fittings when he wishes to do heavier work, i.e. ploughing, discing and other operations.
- ★ Crop cultivations can be carried out long after the time when it was previously impossible to pass between the rows.

Crop spraying and other forms of plant protection work have greatly increased in importance during recent years. Better means of carrying out these jobs is likely to add to the volume of business in this field. Availability of this kit will point out the forward looking salesman who knows the farmers' problem.

Composition of Kit

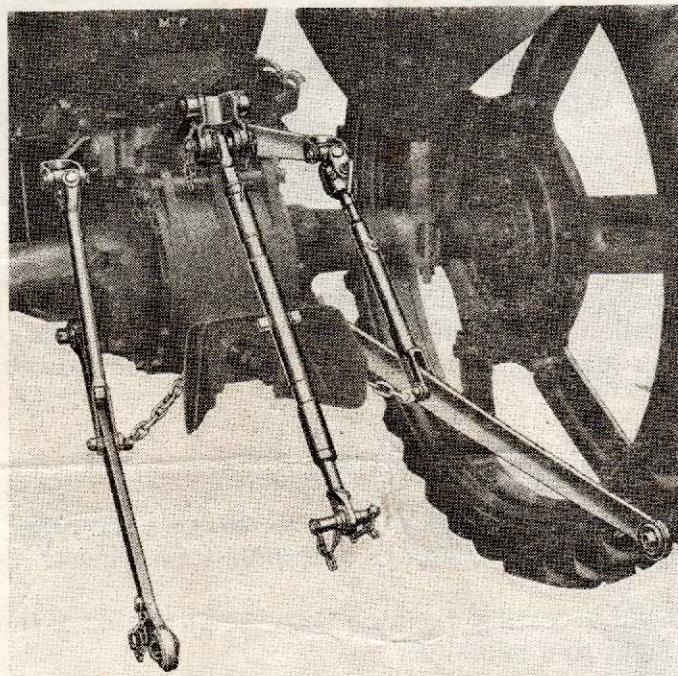
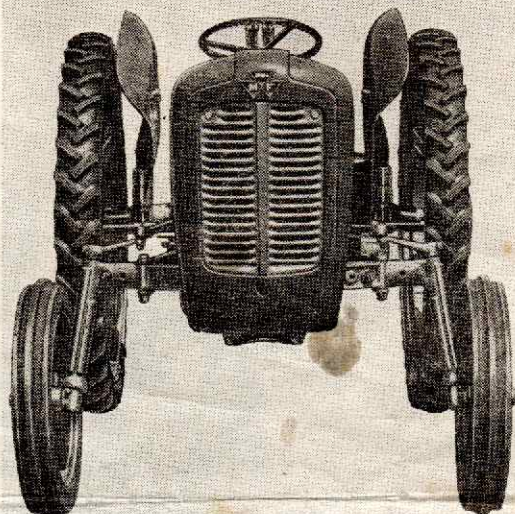
The FE 35 High Clearance Kit comprises:—

- R.H. and L.H. Front axle assemblies
- R.H. and L.H. Swivel pin and stubshaft assemblies
- Reinforced radius rods and larger clips for the toolbox
- Rear wheels and 6—48" tyres
- Fender risers
- R.H. and L.H. Lower link arm assemblies
- Adjustable high clearance top link

FEATURES TO NOTE

Extra Ground Clearance

The ground clearance is increased by 6" to 18 $\frac{5}{8}$ " at the centre with an extra 6 $\frac{1}{4}$ " under the rear axle housing and approximately 6" extra under the front axle.



Linkage

To maintain the **correct** linkage geometry and implement-to-rear wheel clearance, the lower links have been increased in length by approximately 6 $\frac{1}{2}$ " to 38 $\frac{1}{32}$ " between

centres. The links are fitted with ball ends for use with Category 1 type implements only. The top link is identical with that fitted to the MF 765 High Clearance tractor and has a range of length adjustment of 6" up to 32 $\frac{3}{4}$ ".

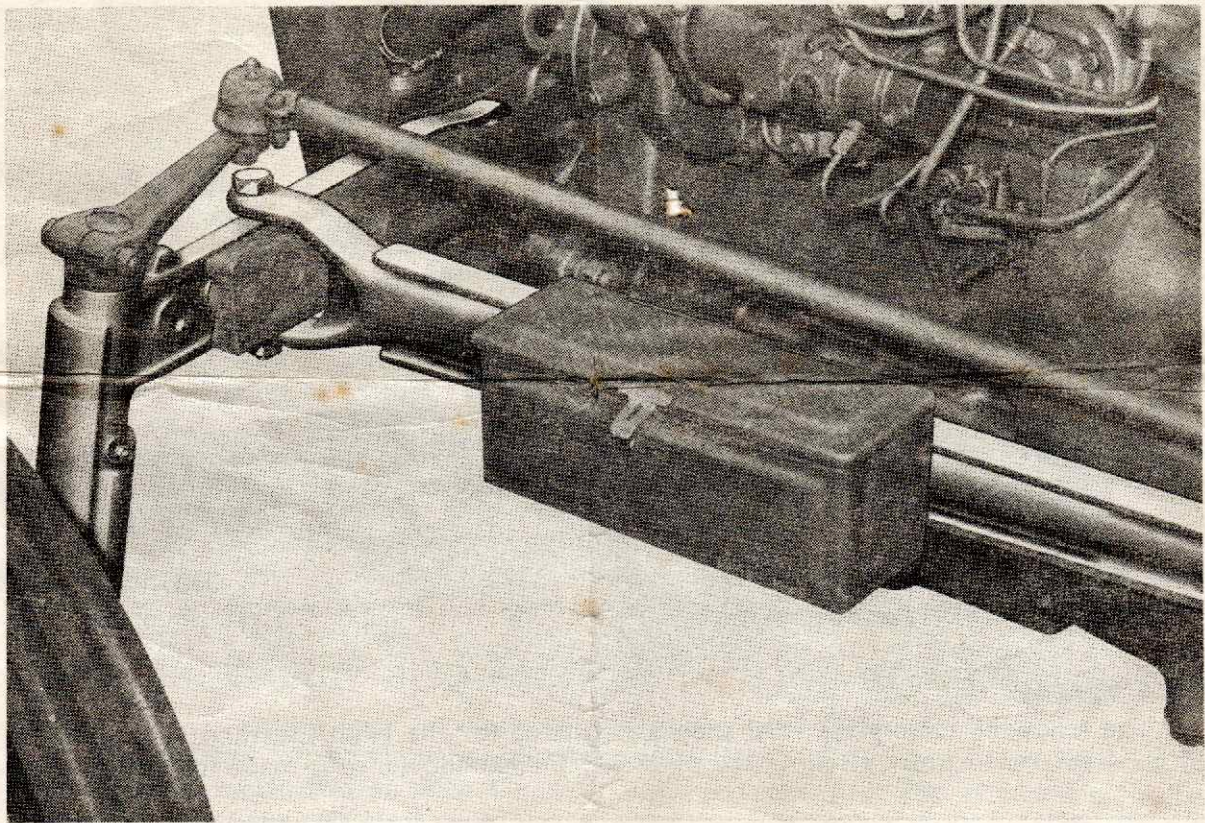
Wheels and Tyres

6"—48" Narrow section rear tyres are used in the conversion and are of a 4-ply rating. 6-ply tyres are to be made available. The maximum loading at the ends of the lower link arms for the 4-ply tyres is 1000 lb and 1480 lb for 6-ply. As the centre of gravity of mounted implements would, in most cases, be beyond the ends of the link arms then these maximum loadings in terms of implement weight would have to be proportionally reduced.

Additional Strength

The radius rods in the Kit have been reinforced because the use of longer swivel pins gives a greater twisting effect about the front axle.

The swivel pin housings themselves have been strengthened.



Hints to Operators

- ★ Avoid travelling over rough ground at high speed.
- ★ Great care should be exercised when turning on hillsides as the centre of gravity on the conversion is higher than that of the normal FE 35 tractor.
- ★ Use only the lighter row-crop implements or sprayer (not more than 90 gallon capacity) with the 4-ply 6—48" tyres. 6-ply tyres will increase the load carrying capacity. The lighter implements include the ridger, row-crop cultivators, weeder, etc.

SPECIFICATION DATA

FE 35 TRACTOR (High Clearance Kit)

				High Clearance Model	FE 35 Model
General Dimensions					
Overall length	...	...	...	123 $\frac{1}{2}$ "	117"
Overall height	...	...	...	61 $\frac{5}{8}$ "	54"
Overall width	...	...	...	64"	64"
Ground Clearance					
Under centre	...	...	...	18 $\frac{5}{8}$ "	12 $\frac{5}{8}$ "
Under rear axle	...	...	...	27 $\frac{1}{4}$ "	21"
Under front axle	...	...	...	26 $\frac{7}{8}$ "	21"
Wheelbase	...	...	...	72 $\frac{1}{2}$ "	72"
Track Adjustments					
Front	...	...	...	49 $\frac{3}{4}$ " to 81 $\frac{3}{4}$ "	48" to 80"
Rear	...	...	...	48" to 76" in 4" increments	48" to 76" in 4" increments
Tyres					
Front	...	...	...	4.00—19" or 6.00—16"	4.00—19" or 6.00—16"
Rear	...	...	...	6—43"	10—28" or 11—28"
Ground Speed p.t.o.	...	...	...	1 rev. p.t.o. gives 24 $\frac{5}{8}$ " forward travel	1 rev. p.t.o. gives 19.0" forward travel (10—28 tyres)
Weight with Fuel, Oil and Water (less operator)	...	...	...	3273 lbs	3185 lbs

Road Speeds

The following table gives road speeds calculated for the High Clearance tractor fitted with 6—48" rear tyres. (Rolling radius 28.875"). No allowance is made for tyre slip.

Gear	Road Speeds			
	1500 r.p.m.		2000 r.p.m.	
1st	1.26 m.p.h.	2.03 k.p.h.	1.68 m.p.h.	2.70 k.p.h.
2nd	1.87 "	3.00 "	2.51 "	4.04 "
3rd	3.45 "	5.55 "	4.61 "	7.41 "
4th	5.01 "	8.06 "	6.69 "	10.76 "
5th	7.53 "	12.11 "	10.04 "	16.15 "
6th	13.78 "	22.17 "	18.37 "	29.55 "
Reverse Low	1.69 "	2.71 "	2.27 "	3.65 "
Reverse High	6.80 "	10.94 "	9.07 "	14.59 "