



**STILL
SAXBY**

**WORKSHOP
MANUAL**

**SYSTEM
DIAGNOSIS**

Diesel Fork Truck

M 15

LPG Fork Truck

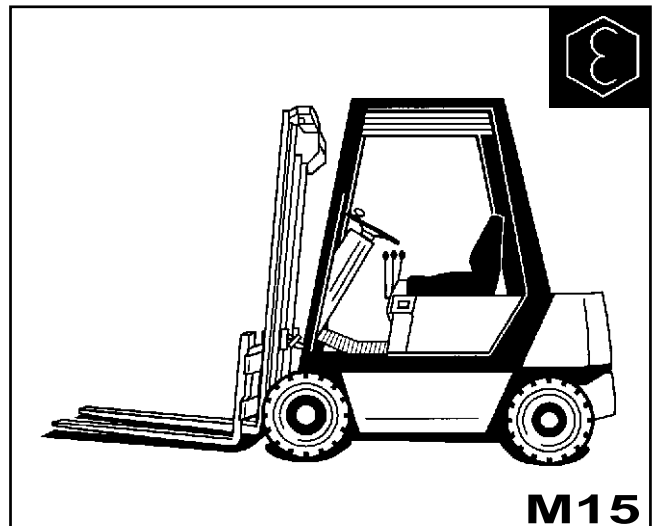
M 15T

STILL & SAXBY S.A.R.L.

Rue des Frères Lumière
F-77107 Meaux
Tel : 01 64 36 33 00

146975 - 10.90

GB



Manual Organization and Utilization

Organization

The M15 Workshop Manual includes the repair instructions divided into assembly groups 01 to 25.

The Workshop Manual is designed as a supplementable collection of sheets for filling in a STILL-SAXBY binder.

The contents are divided similarly as the assembly group system known from the Spare Parts and Assembly List.

The number of the respective group is located at the top outer corner of each page so that the groups can be located easily. The assembly groups are separated by coloured pages which contain the table of contents for the following assembly group.

If required, there follows the table with important data for servicing, which even the experienced mechanic must read.

The construction and function of components/assembly groups are described.

The described work procedures includes notes, hints and explanatory pictures.

Objectives of the Manual

In future, the user will only receive Workshop Manuals for the different vehicle types (in this case, M15). these are to replace the service bulletins, training letters and circuit diagrams (circuit diagram binder).

The Workshop Manual has the following advantages :

User friendliness :

Easy, quick, accurate and low error rate use of the Workshop Manual without needing to remember or reflect anything.

Accurate and unproblematic updating :

The form and division of the book as a collection of loose-leaf sheets results in an optimum and low-error method of filing information.

Updating

If single sheets or groups of sheets no longer reflect the to-date engineering state or the state of knowledge, updates will be supplied.

For organisational reasons, this can only be done within the STILL-SAXBY organisation.

The following types of updates are possible :

1. Replacement of a single sheet
You remove the former sheet and replace it by the new one (for example in case of misprints, figure changes).
2. Inserting additional sheets
These sheets have the page number of the page which is to precede it. For example, the sheet with the page numbers 6a and 6b should be inserted behind page 6. Then page 7 should follow (for example, expansions or product improvements).
3. Supplements/Multiple Supplements
Additional sheets which only apply starting with a certain serial number or production date are printed on coloured paper. The previous sheets, in this case, must remain in the book since they continue to be valid for the first serial numbers (for example, in case of multiple product improvements).

Each update also includes filing instructions for the recipient, i.e. where to insert the new sheets and if the former sheets are to be removed.

Issue : August 1991

Identification Nr. : 146 975

Notes, Imprint

To be followed when working with this Workshop Manual

This Workshop Manual contains the to-date standard types as well as a few especially widely distributed variants. Differences between the series are noted at the appropriate place in the Workshop Manual.

Many pages in this manual are designated M16 in the header. These pages are valid for truck models M15 or M15T.

No warranty will be given for work according to this Workshop Manual. The STILL-SAXBY conditions of warranty remain unaffected.

Publisher :

STILL & SAXBY S.A.R.L.
Rue des Frères Lumière
F-77107 Meaux
Tél. 01 64 36 33 00

STILL-SAXBY continually improves its industrial trucks. We reserve the right to make changes, and the data, illustrations and descriptions in this Workshop Manual do not express or imply a warranty that the products necessarily conform to the illustrations or descriptions.

Notes on repair

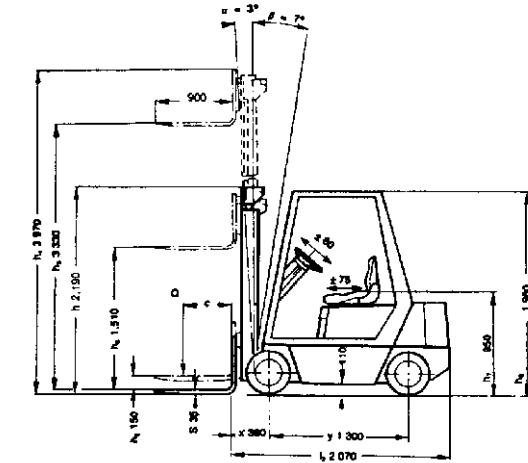
Table of Component Groups

00	General
01	Chassis
02	Running Axle
03	Drive Gear
04	Wheels and Tyres
05	Driving Controls
06	Steering
07	Brakes
08	Electrical Equipment
09	Lighting and Instruments
10	Hydraulic System
11	Engines
20	Mast
25	Tilt Cylinders

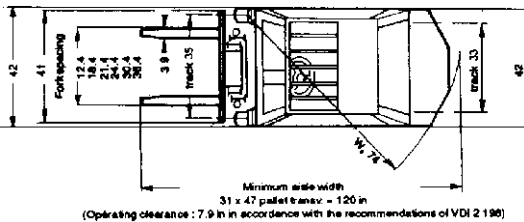
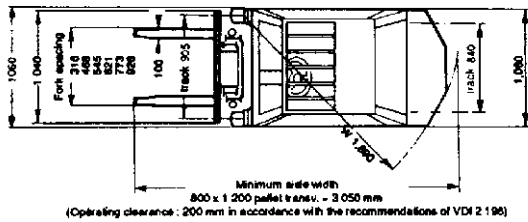
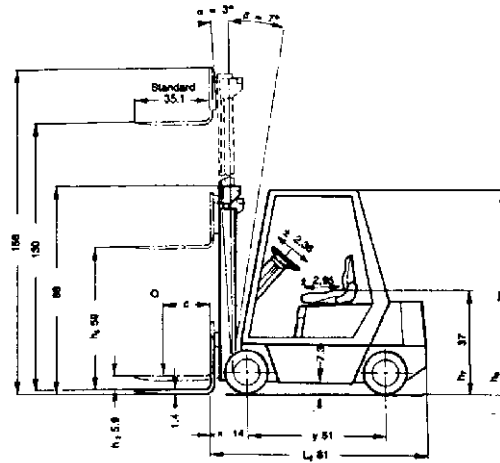
Table of Contents	Page
Data Sheet M15.....	00-1
Data Sheet M15 T.....	00-3
Data Sheet M15, M15 T new.....	00-5



Dimensions in mm



Dimensions in inches



Notes on

Line 31 Acceleration time:
The time the fork truck requires to cover - from rest to top speed - a distance of 15 m on a dry level surface.
Line 58 Noise level:
Average noise peak at operator's ears (Lm = average noise peak) to DIN 45 653, Section 35, Appendix A covering measuring point at ear level. Fork trucks fitted with overhead guard but without rigid all weather cab or removable weather protection.

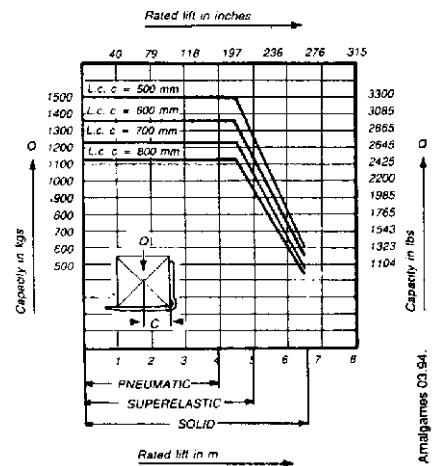
Mast unit variations

Mast features	Telescopic - Open centre - Part free tilt				MHo - Open centre - Full free tilt			Triplex - Open centre - Full free tilt			
height of lift	h ₁ mm	2 730	3 330	3 730	4 230	2 700	3 300	3 700	4 190	4 790	5 490
height, mast lowered	h ₁ mm	1 890	2 190	2 390	2 640	1 840	2 140	2 340	1 940	2 140	2 440
height, mast raised	h ₂ mm	3 370	3 970	4 370	4 870	3 340	3 940	4 340	4 845	5 445	6 145
free lift	h ₁ /h ₂ mm		150			1 210	1 510	1 710	1 310	1 510	1 810
Mast tilt angle	alpha / beta degrees	3°		7°		3°		7°	1°30'		5°30'
Tyres solid		x		x		x		x	x		x
pneumatic			x				x			x	
superelastastic		x		x				x			
length to front face of forks L _f	mm	2 070				2 070			2 095		
frame width - overall B	mm	1 060				1 060			1 060		
from centre of front axle to front face of forks (x)	mm	360				360			385		
Aisle width Ast ¹⁾		800 x 1 200 1 000 x 1 200				3 050			3 275		
height of lift	h ₁ in	107	131	147	166	106	130	145	165	188	216
height, mast lowered	h ₁ in	74	86	94	103	72	84	92	76	84	96
height, mast raised	h ₂ in	132	156	172	191	132	155	171	190	214	248
free lift	h ₁ /h ₂ in		5.9			48	59	67	51	50	71
Mast tilt angle	alpha / beta degrees	3°		7°		3°		7°	1°30'		5°30'
Tyres solid		x		x		x		x	x		x
pneumatic			x				x			x	
superelastastic		x		x				x			
length to front face of forks L _f	in	81				81			82		
frame width - overall B	in	42				42			42		
from centre of front axle to front face of forks (x)	in	14				14			15		
Aisle width Ast ¹⁾		39 x 47				120			129		

¹⁾ without allowance for operating clearance

Our products and specifications are subject to improvements and changes without notice

Capacity Chart



Amalgames 03.94.



STILL GmbH - International Division

P.O.B 740720. D - Hamburg - Tél. : (0) 40-7339-0. Telefax : (0) 407339-1603. Telex : 215 131 std

Complying with the VDI guidelines 2198, the technical specifications quoted below apply to the standard truck only. The specifications relating to tyres, mast types and ancillary equipment other than those figuring on the technical specification sheet, and where indicated in the quotation, may differ from the data marked with an *.

Diesel Fork Truck Series M 15

3300 lbs Imperial
1.5 t Metric

		STILL & SAXBY											
Characteristics	1	Manufacturer		STILL & SAXBY									
	2	Model		M 15									
	3	Carrying capacity		Q rated capacity (basic capacity)		lb/kg		3300 *	1500 *				
	4	Load centre		c from front face of forks		in/mm		20	500				
	5	Power supply		Battery, diesel, L.P.G., mains				Diesel	Diesel				
	6	Type of control		Pedestrian, stand-on, rider seated				Rider seated	Rider seated				
	7	Tyre equipment		S = solid, P = pneumatic, SE = superlastic		front rear		S/P/SE	S/P/SE	S/P/SE	S/P/SE		
	8	Wheels (x = drive wheel)		Number front rear				2x	2	2x	2		
Dimensions	9	Lift double mast		h ₃ height of lift		in/mm		130 *	3330 *				
	10			h ₂ standard free lift		in/mm		5,9 *	150				
	11			h ₅ full free lift		in/mm		59 *	1510 *				
	12	Fork carriage		to DIN 15 173 A/B/no (FEM...)		DIN 15 173 B (FEM II B)		DIN 15 173 B (FEM II B)					
	13	Fork (standard)		Length x width x thickness		mm		35.1 x 3.9 x 1.4		900 x 100 x 35 *			
	14	Mast tilt angle		forward backward		degree		3 *	7 *	3 *	7 *		
	15	Overall dimensions		L ₂ length to front face of forks		in/mm		81 *	2070 *				
	16			B frame width - overall		in/mm		42 *	1060 *				
	17			h height, mast lowered		mm		86 *	2190 *				
	18			h ₄ height, mast raised		in/mm		156 *	3970 *				
	19			h ₆ height to top of overhead guard		in/mm		78 *	1980 *				
	20	h ₇ seat height		in/mm		37 *	950 *						
21	Turning radius		W _a		mm		74 *	1890 *					
22	Load distance		x From centre of front axle to front face of forks		in/mm		14 *	360+					
23	Aisle width		800 x 1,200 pallet (trans.)		1,000 x 1,200 pallet (trans)		in/mm		120* +	128* +	3050* +	3250* +	
Performance data	24	Speeds		Travel speed laden		unladen		mph/km/h		11.30 *	11.30 *	18 *	18 *
	25			Lift speed laden		unladen		ft/min/m/s		98.5 *	108.35 *	0.50 *	0.55 *
	26			Lowering speed laden		unladen		ft/min/m/s		98.5 *	78.8 *	0.50 *	0.40 *
	27	Rated drawbar pull		laden		unladen (1 hr motor rating)		N		12000	7200	12000	7200
	28	Max. drawbar pull		laden		unladen		N		-	-	-	-
	29	Gradeability		laden		unladen		%		20	20	20	20
	30	Max gradeability		laden		unladen		%		-	-	-	-
31	Acceleration time		for travelling laden		unladen, 15 m distance		s		6 *	5.4 *	6 *	5.4 *	
Weight	32	Weight		unladen - standard mast fitted		lb/kg		6160 *		2795 *			
	33	Axle loadings		laden front rear		lb/kg		8000	1460	3625	670		
	34			unladen front rear		lb/kg		2370 *	3790 *	1075 *	1720 *		
Wheels and Tyres	35			Number front rear				2	2	2	2		
	36	Tyres		Size front		in/mm		S=457x152x308		P=18x7-8/16 PR		SE=18x7-8	
	37			rear		in/mm		S=457x152x308		P=18x7-8/16 PR		SE=18x7-8	
	38	Wheelbase		y		in/mm		51		1300			
	39	Track width		centre of tyre front rear		in/mm		35	33	905	840		
	40	Ground clearance		m ₁ at the lowest point		in/mm		4.5		115			
	41			Laden m ₂ centre of wheelbase		in/mm		4.3		110			
	42	Service foot brakes		mech./hydr./electr./pneum.		electr. hydr.		hydr.		hydr.			
43	Parking handbrake		pedal-operated/hand/deadman				handbrake		handbrake				
Drive Unit and Transmission	44			to DIN 43 535/36 A/B/C/no				-					
	45	Battery equipment		Voltage Capacity		V amp. hrs.		12	55	12	55		
	46			Weight		lb/kg		-		-			
	47	Electric motors		Drive motor hourly capacity				kW		-			
	48			Hoist motor capacity at 15 % duty factor				kW		-			
	49	I.C. engine		Manufacturer Model		Peugeot XUD9		Peugeot XUD9					
	50			Maximum engine rated power		kW (h.p.)		33.5	(46)	33.5	(46)		
	51			Rated rpm to DIN 70 020		rpm		3000		3000			
	52			No of cyl. Displacement		cu/in/cm ³		4	1905	4	1905		
	53			Fuel consumption		gall./lh		1.8 *		1.8 *			
	54	Speed control		Type Stages		-		-					
	55	Transmission		for IC engined models		Type Stages		Torque Converter		Torque Converter			
	56	Clutch		for IC engined models		Type		without		without			
	57	Operating pressure		for attachments		bar		180		180			
	58	Average noise - peak		at operator's ears		dB (A)		82,7		82,7			

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