

Service Manual

FASTRAC 125 135 145 150 155 185

PUBLISHED BY THE
TECHNICAL PUBLICATIONS DEPARTMENT
OF JCB SERVICE; ©
ROCESTER,STAFFORDSHIRE, ST14 5LS
ENGLAND
Tel. ROCESTER (01889) 590312
PRINTED IN ENGLAND

Publication No. 9803/8000

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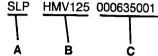
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Identifying the Machine

Serial Number Plate

Each machine has a serial number plate located at either X or Y. Various designs of serial number plate have been used but in each case the Vehicle Identification Number (VIN), and the serial numbers of the engine and transmission are stamped on the plate.

Typical Early Style Vehicle Identification No. (VIN)

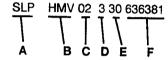


A = Manufacturing Code

B = Machine Model

C = Serial Number

Typical Later Style Vehicle Identification No. (VIN)



E = Vehicle Max. Speed

F = Serial Number

30 = 30 km/h

A = Manufacturing Code D = Transmission Speed B = Machine Range 3 = 30 km/hC = Engine Type 4 = 40 km/h01 = 1006-6 $5 = 55 \, \text{km/h}$ 02 = 1006-6T6 = 65 km/h03 = 145T $7 = 75 \, \text{km/h}$ 04 = 160T

> 05 = 1006-606 = 1006-6THR5 07 = 1006-6T4

09 = 160TW

10 = Cummins 6BTA

Typical Engine Identification Number

50347 123456

G = Engine Type:-

YA = Normally Aspirated

YB = Turbocharged

YD = Turbocharged/intercooled

H = Build List Number

(see Engine Technical Data for details)

J = Country of Origin

K = Engine Serial Number

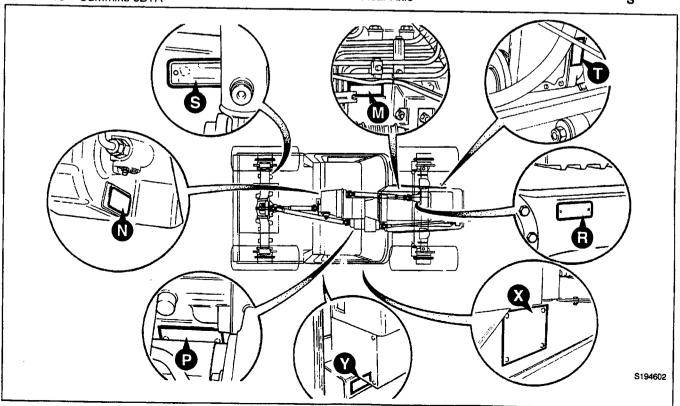
L = Year of Manufacture

Note: Cummins engines are identified by the model number 6BTA and a separate engine serial number.

Unit Identification

The serial number of each major unit is also stamped on the unit itself as shown below. If a major unit is replaced by a new one, the serial number on the plate will be wrong. Either stamp the new number of the unit on the identification plate, or simply stamp out the old number. This will prevent the wrong unit number being quoted when replacement parts are ordered.

M
T
N
P
R
s



9 - 1

Torque Settings

Use only where no torque setting is specified in the text. Values are for dry threads and may be within three per cent of the figures stated. For lubricated threads the values should be REDUCED by one third.

Note: All bolts used on JCB machines are high tensile and must not be replaced by bolts of a lesser tensile specification.

Metric Grade 8.8 Botts

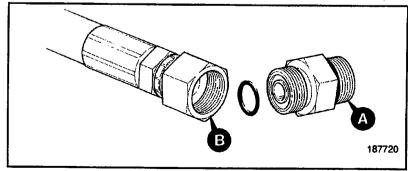
		Boit size		To	orque Settings	
*	Dia.	(mm)	Hexagon (A/F) mm	Nm	kgf m	lbf ft
	M5	(5)	8	7	0.7	5
	M6	(6)	10	12	1.2	9
	M8	(8)	13	28	3.0	21
	M10	(10)	17	56	5.7	42
	M12	(12)	19	98	10	72
	M16	(16)	24	244	25	180
	M18	(18)	27	350	36	258
	M20	(20)	30	476	48	352
	M24	(24)	36	822	84	607
	M30	(30)	46	1633	166	1205
	M36	(36)	55	2854	291	2105

Metric - All Internal Hexagon Headed Cap Screws

Diameter			
mm	Nm	Torque kgf m	lbf ft
МЗ	2	0.2	1.5
M4	6	0.6	4.5
M5	· 11	1.1	8
M6	19	1.9	14
M8	46	4.7	34
M 10	91	9.3	67
M12	159	16.2	117
M16	395	40	292
M18	550	56	406
M20	770	79	568
M24	1332	136	983

Hose and Pipe Connections

- * All the hydraulic fittings on the Fastrac to machine number 636000 use the 'O' ring face seal system, with the 'O' ring located between the hose or pipe **B** and the adapter **A** as shown below. Adapters screwed into valve blocks etc. seal onto an 'O' ring which is compressed into a 45° seat machined in the face of the tapped port. Later machines have BSP hose connections without 'O' rings. Adapters are then sealed into components by means of bonded washers. See next page for torque settings.
- * Note: Adapters have a UNF thread for the ORFS hose connection **B** but the thread **A** on the opposite end of the adapter may be either UNF or metric. Measure the thread diameter carefully before choosing the relevant torque setting table.



2 - 2

Torque Settings (continued)

'O' Ring Boss Adapters (Item A to machine number 636000)

Nominal Diameter of UNF Thread	To	orque Setting	S	Nominal Diameter of Metric Thread		Torque Setti	nao
(inches)	Nm	kgf m	lbf ft	(mm)	Nm	kgf m	lbf ft
7/16	20	2.1	15	8	10	1.1	7
⁹ /16	35	3.6	26	10	20	2.1	, 15
3/4 ⁷ /8	81	8.3	60	12	35	3.6	26
7/8 1 ¹ /16	108 183	11.1	80	14	45	4.7	33
1 ⁵ / ₁₆	298	18.7 30.5	135	16	55	5.8	41
15/8	380	38.8	220 280	18	70	7.1	52
1 ⁷ /8	488	50	360	20 22	80	8.2	59
				27	100 170	10.2 17.3	74 105
				33	310	32	125 229
				42	330	34	243
				48	420	43	310
				60	500	51	369

ORFS Hydraulic Hose Connections (Item B to machine number 636000)

Nominal Thread	Torque Settings			
Diameter (inches)	Nm	kgf m	lbf ft	
9/16	24	2.5	18	
11/16	33	3.3	24	
13/16	44	4.8	35	
1	58	6.0	43	
13/16	84	8.6	62	
1 ⁷ /16	115	11.8	85	
1 ¹¹ / ₁₆	189	19.4	140	
2	244	24.9	180	

Hydraulic Hose to Adapter Connections (from machine number 636001)

Hydraulic Adapter into Component Connections with bonded washers (from machine number 636001)

BSP Size (inches)			
1/8	14	1.4	10
1/4	24	2.5	18
3/8	33	3.3	24
1/2	44	4.8	35
5/8	58	6.0	43
3/4	84	8.6	62
1	115	11.8	85
1 ¹ /2	244	24.9	180

	Torque Settings			
BSP Size (inches)	Nm	kgf m	lbf ft	
1/8	20	2.1	15	
1/4	34	3.4	25	
3/8	75	7.6	55	
1/2	102	10.3	75	
5/8	122	12.4	90	
3/4	183	18.7	135	
1	203	20.7	150	
1 ¹ /2	305	31	225	

3 - 1

Service To	ols Numerical List	Page No.	892/00284 892/00285	Digital Tachometer Oil Temperature Probe	3 - 6 3 - 6
* 1370/0901Z	Nut	5 - 4	892/00286	Surface Temperature Probe	3-6
1406/0021	Bonded Washer	4 - 1	892/00293	Connector Pipe	4 - 1
1604/0006	Adapter	4 - 1	892/00298	Fluke Multimeter	3-6
1604/0008	Adapter	4 - 1	892/00294	Connector Pipe	4 - 1
1606/0012	Adapter	4 - 1	* 892/00311	Brake Test Kit	5 - 4
1606/0015	Adapter	4 - 1	892/00312	Dummy End Plate	5-2
1612/0006	Adapter	4 - 1	892/00313	Clutch Alignment Tool	5 - 1
4101/0202	Lock and Seal	3-2	892/00314	Accumulator Adapter	5-4
4101/0602	High Strength Retainer	3 - 2	892/00315	Engine Support Brackets	5-1
4101/0402	Threadlock	3 - 2	892/00316	Hexagon Extension	4-2
4102/0502	High Strength Gasketing	3 - 2	892/00317	Diagnostic Test Kit	4-2
4102/0933	Clear Silicone Sealant	3 - 2	892/00318	Hose and Adapter Kit	4-2
4102/1201	Multi Gasket	3 - 2	892/00333	Heavy Duty Socket, 19 mm A/F	5-2
4102/1201	Loctite 577	3 - 2	892/00334	Gland Seal Fitting Tool	4-2
4102/2002	Loctite 518	3 - 2	892/00706	Test Probe	4-2
4102/2210	Clayton System Seal SC1251		892/00800	Splitting Frame	5 - 1
4102/2309	Black Polyurethane Sealant	3 - 2	892/00801	Clutch spanner	3-5
4103/2109	Ultra Fast Adhesive	3 - 2	892/00802	Rotor puller set	3-5 3-5
4104/0101		3-2	892/00803	Rotor installer set	
4104/0101	Activator N (Aerosol) Activator N (Bottle)	3-2	892/00807	Front plate puller	3-5
4104/0601			892/00808	Shaft protector	3-5
4104/1203	Super Clean Solvent	3 - 2	892/00808		3-5
	Active Wipe 205 (250 g)	3 - 2		Drive Coupling Spanner	5 - 1
4104/1206	Active Wipe 205 (30 ml)	3 - 2	892/00817	Heavy Duty Socket, 17 mm A/F	5 - 2
4104/1310	Hand Cleaner	3 - 3	892/00819	Heavy Duty Socket, 15 mm A/F	5 - 2
4201/4906	Black Primer	3 - 2	892/00842	Glass Lifter	3-3
477/00437	Gearbox Lifting Adapter	5 - 2	892/00843	Folding Stand	3 - 3
816/15118	Adapter/Test Point	4 - 1	892/00844	Long Knife	3 - 4
816/20008	Adapter	4 - 1	892/00845	Cartridge Gun	3 - 3
816/20013	Adapter	4 - 1	892/00846	Glass Extractor Handles	3 - 4
816/55040	Adapter/Test Point	4 - 1	892/00847	Nylon Spatula	3 - 5
* 892/00041	Deglazing Tool	5 - 5	892/00848	Wire Starter	3 - 4
892/00078	Connector	4 - 1	892/00849	Braided Cutting Wire	3 - 4
892/00137	Micro Bore Hose	4 - 2	* 892/00864	PD90 Axle Locknut Spanner	5 - 3
892/00174	Measuring Cup	5 - 2	* 892/00871	Frame	5 - 4
892/00179	Bearing Press	5 - 1	* 892/00874	Brace	5 - 4
892/00223	Hand Pump	4 - 2	* 892/00875	Bar	5 - 4
892/00224	Impulse Extractor	5 - 2	* 892/00876	Block	5 - 4
892/00225	Adapter for Impulse Extractor	5 - 1	892/00882	Socket	3 - 6
892/00253	Pressure Test Kit	4 - 1	* 892/00883	Spanner	5 - 4
892/00255	Adapter/Test Point	4 - 1	* 892/00884	'C' Spanner	5 - 4
892/00256	Adapter/Test Point	4 - 1	* 892/00891	Oil Seal Insertion Tool	5 - 3
892/00257	Adapter/Test Point	4 - 1	* 892/00892	Speed Gearbox Locking Tool	5 - 3
892/00258	Adapter/Test Point	4 - 1	992/12300	Mobile Oven	3 - 3
892/00259	Adapter/Test Point	4 - 1	992/12400	Static Oven	3 - 3
892/00260	Adapter/Test Point	4 - 1	992/12600	Static Oven	3 - 4
892/00261	Adapter/Test Point	4 - 1	992/12800	Cut-out Knife	3 - 4
892/00262	Adapter/Test Point	4-1&4-2	992/12801	'L' Blades	3 - 4
892/00263	Adapter/Test Point	4 - 1	926/15500	Rubber Spacer Blocks	3 - 5
892/00264	Adapter/Test Point	4 - 1	993/45400	Torque Multiplier	5 - 2
892/00265	Adapter/Test Point	4 - 1	993/55700	Direct Glazing Kit	3 - 2
892/00268	Flow Monitoring Unit	4 - 1	* 993/59300	Pressure Test Adapter/Clamp	5 - 3
892/00269	Sensor Head	4 - 1	993/69800	Seal Kit	4 - 1
892/00270	Load Valve	4 - 1	* 993/85700	Battery Tester	3-6
892/00271	Adapter	4 - 1	FABLM10	Ball End Allen Key	4 - 2
892/00272	Adapter	4 - 1	FXW11A	Wobble Drive Extension	4 - 2
892/00273	Sensor Head	4 - 1			
892/00274	Adapter	4 - 2	The following	parts are replacement items for kits a	and would
892/00275	Adapter	4 - 1	normally be in	cluded in the kit numbers above.	
892/00276	Adapter	4 - 1	,		
892/00277	Adapter	4 - 1	Replacement	items for kit no. 892/00253	
892/00278	Gauge 0 - 40 bar	4 - 2	892/00201	Gauge 0 - 20 bar	4 - 1
892/00279	Gauge 0 - 400 bar	4 - 2	892/00202	Gauge 0 - 20 bar	4 - 1
892/00281	Avo Meter	4 - ∠ 3 - 6	892/00203	Gauge 0 - 400 bar	4 - 1
892/00282	Shunt	3-6	892/00254	Hose	4 - 1
892/00283	Tool Kit Case	3-6	772/00207	. 1000	-7 - 1
	. Joi Mi Odde	J - 0			

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C	ection	1
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General Information

Section 1

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3 - 2

Sealing and Retaining Compounds

JCB Multigasket	A medium strength sealant suitable for all sizes of gasket flanges, and for hydraulic fittings of 25-65 mm diameter.	4102/1212	50ml
JCB Threadlocker	For threads of 50mm diameter upwards, eg. suction strainer.	4101/0451	50ml
JCB Threadlocker (High Strength)	A high strength locking fluid for use with threaded components. Gasketing for all sizes of flange where the strength of the joint is important.	4102/0551	50mi
JCB Retainer (High Strength)	For all retaining parts which are unlikely to be dismantled.	4101/0651	50ml
JCB Threadlocker And Sealer	A medium strength locking fluid for sealing and retaining nuts, bolts, and screws up to 50 mm diameter, and for hydraulic fittings up to 25 mm diameter.	4101/0250 4101/0251	10ml 50ml
JCB Threadlocker And Sealer (High Strength)	A high strength locking fluid for sealing and retaining nuts, bolts, and screws up to 50 mm diameter, and for hydraulic fittings up to 25 mm diameter.	4101/0550 4101/0552	10ml 200ml
JCB Threadseal	A medium strength thread sealing compound.	4102/1951	50ml
JCB Activator	A cleaning primer which speeds the curing rate of anaerobic products.	4104/0251 4104/0253	Aerosol (1 ltr) Bottle (200 ml)
JCB Cleaner/Degreaser	For degreasing components prior to use of anaerobic adhesives and sealants.	4104/1557	Aerosol (400ml)
Direct Glazing Kit	For one pane of glass; comprises items marked † below plus applicator nozzle etc.		
† Ultra Fast Adhesive	For direct glazing	4103/2109	310 ml
† Active Wipe 205	For direct glazing	4104/1203	250 g
† Black Primer 206J	For direct glazing	4201/4906	30 ml
Clear Silicone Sealant	To seal butt jointed glass.	4102/0901	

Service Tools (continued)

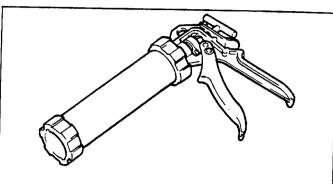
Body and Framework (continued)



S186240

Hand Cleaner - special blend for the removal of polyurethane adhesives.

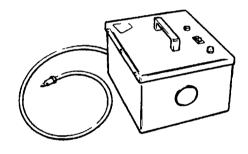
JCB part number - 4104/1310 (454g; 1lb tub)



S186270

Cartridge Gun - hand operated - essential for the application of sealants, polyurethane materials etc.

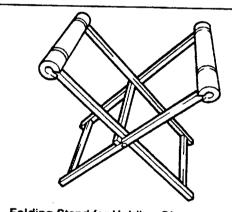
JCB part number - 892/00845



S186250

12V Mobile Oven - 1 cartridge capacity - required to pre-heat adhesive prior to use. It is fitted with a male plug (703/23201) which fits into a female socket (715/04300).

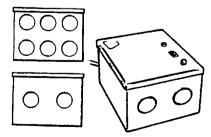
JCB part number - 992/12300



186280

Folding Stand for Holding Glass - essential for preparing new glass prior to installation.

JCB part number - 892/00843



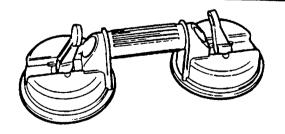
S18626

240V Static Oven - available with 2 or 6 cartridge capacity - required to pre-heat adhesive prior to use. No plug supplied. Note: 110V models available upon request - contact JCB Technical Service

JCB part number:

992/12400 - 2 cartridge x 240V

992/12600 - 6 cartridge x 240V



S186300

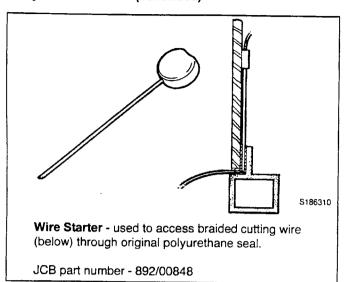
Glass Lifter - minimum 2 off - essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

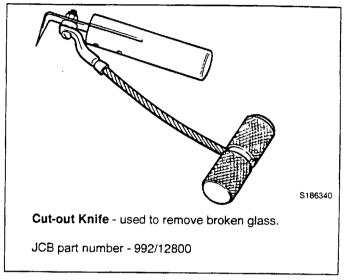
JCB part number - 892/00842

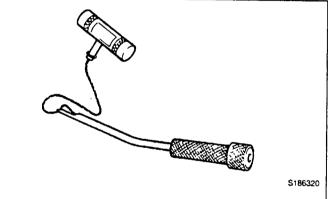
3 - 1

Service Tools (continued)

Body and Framework (continued)

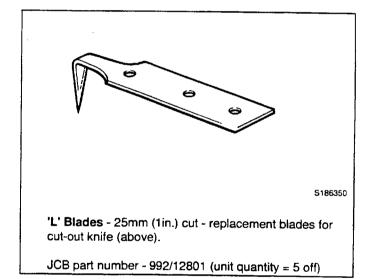


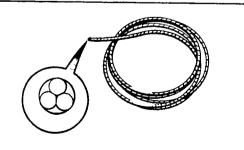




Glass Extractor (Handles) - used with braided cutting wire (below) to cut out broken glass.

JCB part number - 892/00846

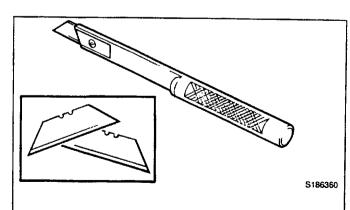




S186330

Braided Cutting Wire - consumable heavy duty cut-out wire used with the glass extraction tool (above).

JCB part number - 892/00849 (approx 25m length)



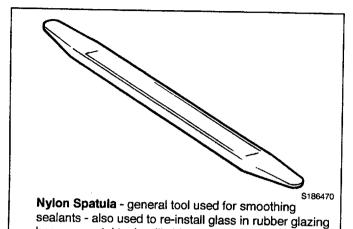
Long Knife - used to give extended reach for normally inaccessible areas.

JCB part number - 892/00844

3 - 5

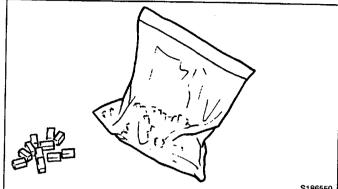
Service Tools (continued)

Body and Framework (continued)



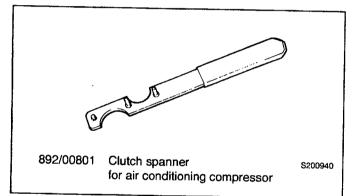
JCB part number - 892/00847

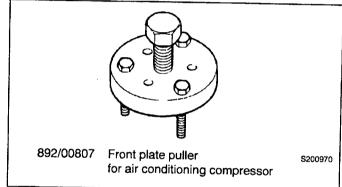
because metal tools will chip the glass edge.

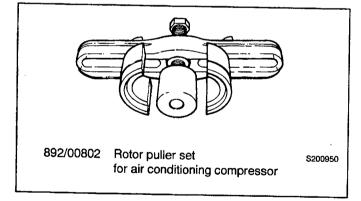


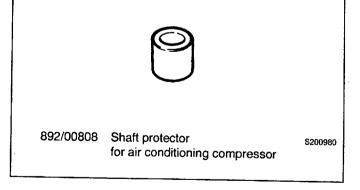
Rubber Spacer Blocks - used to provide the correct set clearance between glass edge and cab frame.

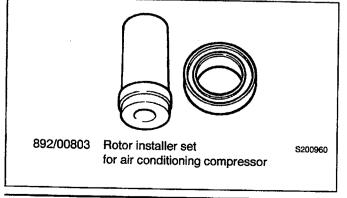
JCB part number - 926/15500 (unit quantity = 500 off)







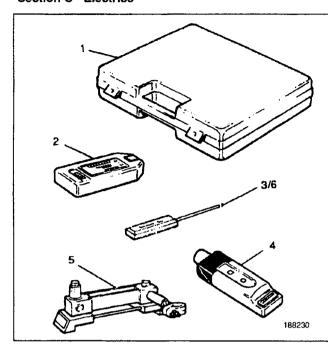




3 - 6

Service Tools (continued)

Section C - Electrics



Electrical Test Equipment

1 892/00283 Tool Kit Case

2 892/00281 AVO Meter

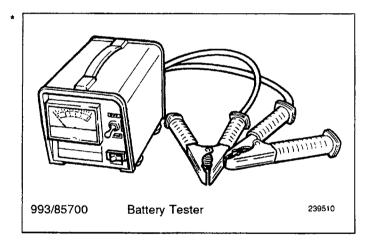
3 892/00286 Surface Temperature Probe

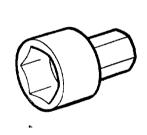
4 892/00284 Microtach Digital Tachometer

5 892/00282 100 Amp Shunt - open type

6 892/00285 Hydraulic Oil Temperature Probe

7 892/00298 Fluke 85 Multimeter





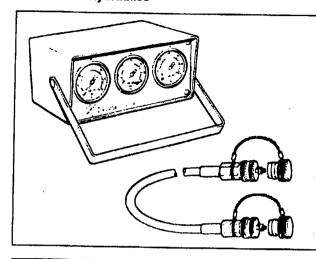
S216770

892/00882 Socket for Pulley Nut on Magneti Marelli Alternator.

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Service Tools (cont'd)

Section E - Hydraulics



Hydraulic Circuit Pressure Test Kit

892/00253 892/00201 892/00202 892/00203 892/00254 :993/69800 Pressure Test Kit

Replacement Gauge 0-20 bar (0-300 lbf/in²) Replacement Gauge 0-40 bar (0-600 lbf/in²) Replacement Gauge 0-400 bar (0-6000 lbf/in²)

Replacement Hose

Seal Kit for 892/00254 (can also be used with

probe 892/00706)

S188120

S200140



Pressure Test 'T' Adapters

892/00262 1/4 in M BSP x 1/4 in F BSP x Test Point 3/8 in M BSP x 3/8 in F BSP x Test Point 1/2 in M BSP x 1/2 in F BSP x Test Point 5/8 in M BSP x 5/8 in F BSP x Test Point 3/4 in M BSP x 3/4 in F BSP x Test Point 1 in M BSP x 1 in F BSP x Test Point 1 in M BSP x 1 in F BSP x Test Point 1

S188130



Pressure Test Adapters

892/00255 1/4 in BSP x Test Point 3/8 in BSP x Test Point 892/00256 892/00257 1/2 in BSP x Test Point 892/00258 5/8 in BSP x Test Point 3/4 in BSP x Test Point 816/15118 892/00259 1 in BSP x Test Point 1.1/4 in BSP x Test Point 892/00260 892/00261 5/8 in UNF x Test Point

Flow Test Equipment

892/00268 Flow Monitoring Unit

892/00269 Sensor Head 0 - 100 l/min (0 - 22 UK gal/min)

892/00293 Connector Pipe 892/00270 Load Valve

1406/0021 Bonded Washer 1604/0006 Adapter 3/4 in M x 3/4 in M BSP

1612/0006 Adapter 3/4 in F x 3/4 in M BSP

892/00271 Adapter 3/4 in F x 5/8 in M BSP

892/00272 Adapter 5/8 in F x 3/4 in M BSP 816/20008 Adapter 3/4 in F x 1/2 in M BSP

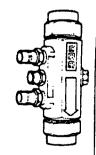
892/00275 Adapter 1/2 in F x 3/4 in M BSP

892/00276 Adapter 3/4 in F x 3/8 in M BSP 892/00277 Adapter 3/8 in F x 3/4 in M BSP

892/00273 Sensor Head 0 - 380 l/min 892/00294 Connector Pipe

1606/0015 Adapter 1.1/4 in M BSP x 1 in M BSP

1606/0012 Adapter 1 in M x 3/4 in M BSP 816/20013 Adapter 3/4 in F x 1 in M BSP



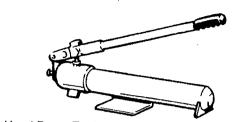
S188150

S193850

4-2

4 - 2

Service Tools - Hydraulics (continued)



Hand Pump Equipment

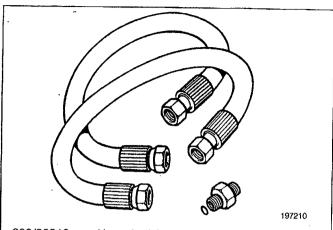
892/00223 Hand Pump

892/00137 Micro-bore Hose ¼ in BSP x 3 metres 892/00274 Adapter ¼ in BSP male x ¾ BSPT male 892/00262 Test Point on ¼ in BSP male x ¼ BSP

female adapter

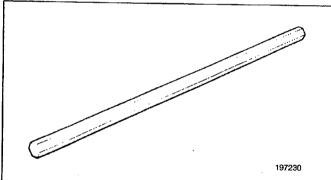
892/00706 Test Probe

892/00278 Gauge 0-40 bar (0-600 lbf/in²) 892/00279 Gauge 0-400 bar (0-6000 lbf/in²)



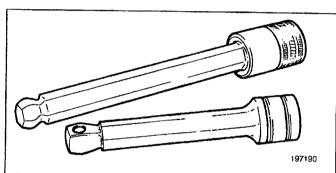
892/00318

Hose And Adapter Kit
To enable flow and pressure test
equipment to be connected to adapters
fitted with 'O' ring face seals.



892/00316

Hexagon Extension to reach the lower mounting capscrew on the transmission and external hydraulics pump. (prior to machine no. 636001)

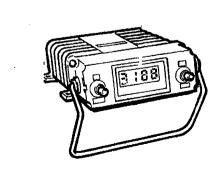


Tools to reach the lower mounting capscrew on the transmission and external hydraulics pump.

(These suit all machines before and after serial no. 636001.)

10 mm Ball End Allen Key 60 mm Wobble Drive Extension Obtain from Snap-on suppliers

Part no. FABLM10 Part no. FXW11A

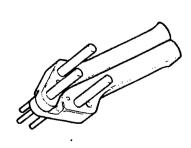


S191580A

892/00317 Diagnostic Test Box for Electronic Draft Control

892/00334

Gland Seal Fitting Tool

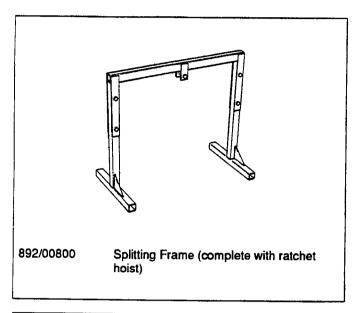


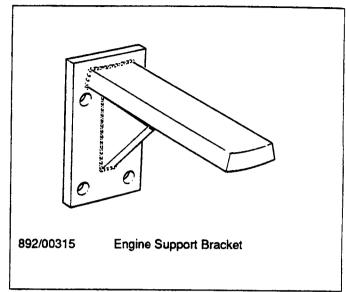
197220

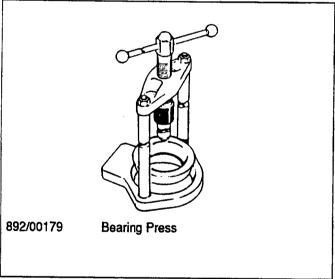
5 - 1

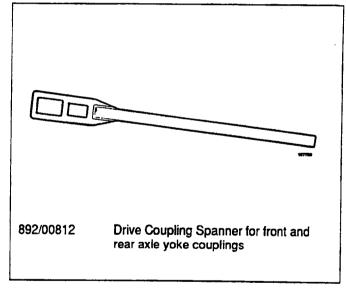
Service Tools (cont'd)

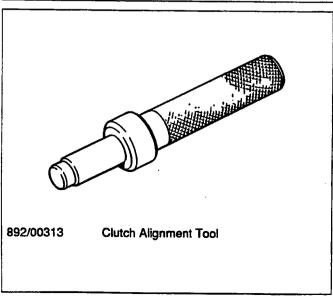
Section F - Transmission

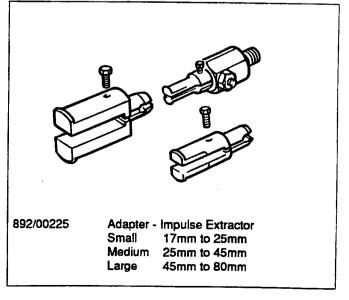












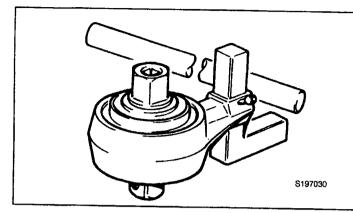
S190770

5 - 2

5 - 2

Service Tools (continued)

Section F - Transmission



993/45400 Torque Multiplier
(use in conjunction with a torque wrench to give a 5 : 1 multiplication)



* Heavy Duty Sockets

892/00817 892/00818 17 mm A/F x 3/4in. square drive

892/00819

22 mm A/F x 3/4in. square drive 15 mm A/F x 1/2in. square drive

892/00333

19 mm A/F x 3/4in. square drive



892/00174 Measuring Cup - Pinion Head Bearing

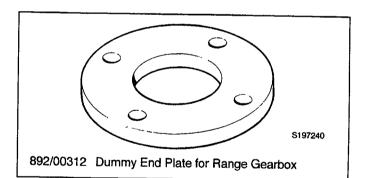


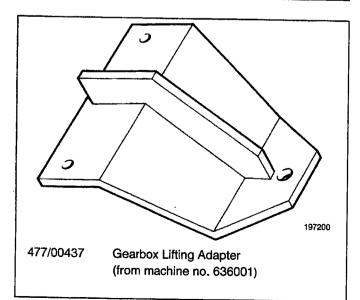
S197070

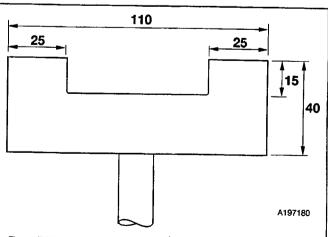
197250

892/00224

Impulse Extractor Set for Hub Bearing Seals





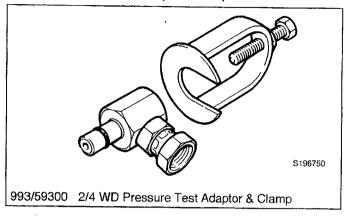


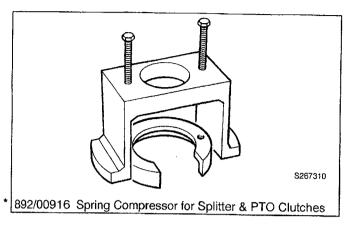
Rear Differential Setting Key (from machine no. 636001) Cut from 5 mm plate to dimensions shown. Fabricate handle to suit.

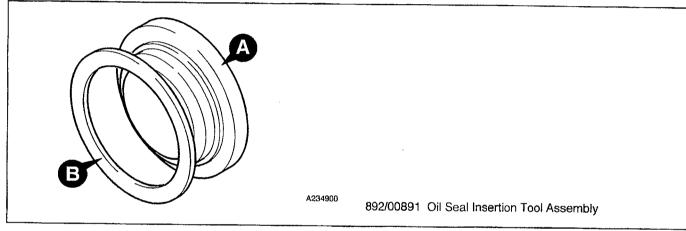
5 - 3

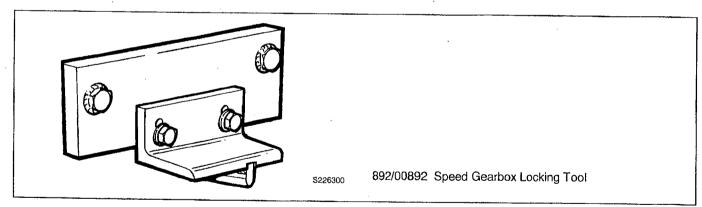
Service Tools (continued)

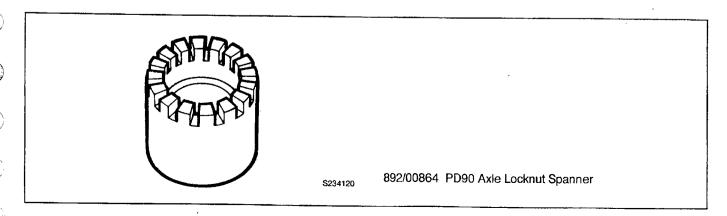
Section F - Transmission (continued)







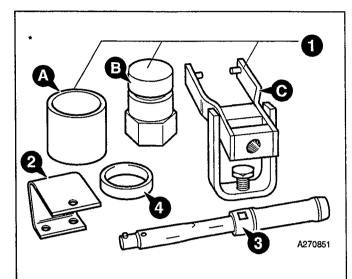




5 - 4

Service Tools (continued)

Section F - Transmission (continued)



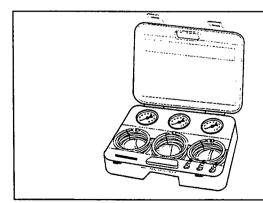
*Solid Spacer Setting Tools

- 1 892/00918 Setting Tool Kit. Contains the following:
 - A Sleeve for M24 Pinion
 - B Adapter for M30 Pinion
 - C Fork (suitable for all axles)

The following setting tools must be purchased separately:

- 997/11100
- 892/00945 A Sleeve for M30 Pinion
- 2 997/11000
- **B** Adapter for M24 Pinion Drive Head Setting Bracket
- 3 993/70111
- Break-back Torque Wrench
- 4
- Solid spacer (see parts CD or michrofiche for part numbers)

Section G - Brakes



892/00311 Brake Test Kit

3 x Calibrated Test Gauges - 0-20 bar (0 - 290 lbf/in²)

3 x 5 Metre Hoses with Quick Release Adapters

3 x ISO Test Point Adapters

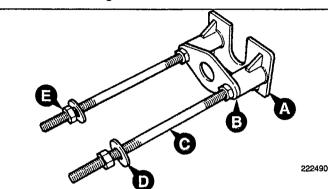
\$199470

9803/8000

5 - 5

Service Tools (continued)

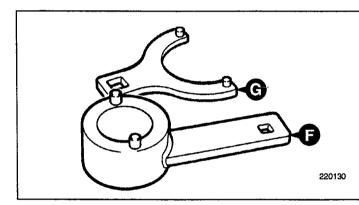
Section H - Steering



Puller adapter assembly for removal of drop arm from steering box from machine no. 636372. Comprises:

Α	892/00871	Frame	1 off
В	892/00874	Brace	1 off
С	892/00875	Bar M24	2 off
D	892/00876	Block	2 off
E	1370/0901Z	Nut M24	2 off

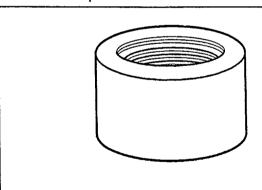
Use in conjunction with a 20 tonne hydraulic ram as obtainable from Sykes Pickavant to suit puller bars at 185 mm centres.



Spanners for input shaft nuts on steering box from machine no. 6363372.

F 892/00884 'C' Spanner G 892/00883 Spanner

Section S - Suspension

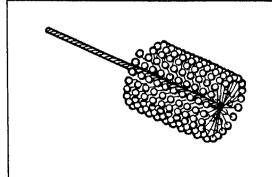


S199480

892/00314

Accumulator and Gas Spring Pressure Test Adapter

Section T - Engine



892/00041

De-glazing Tool for Cylinder Bores (to assist bedding-in of new piston rings)

Note: For other engine tools refer to the relevant Engine

Service Manual.

S192390

9803/8000

Issue 2*

Moving a Disabled Machine

6 - 1

General

Do not tow a machine unless there is no alternative. Remember that more damage might be caused to the machine by towing it. If at all possible repair the machine where it stands.

Note: It is not possible to tow-start a machine fitted with JCB Powersplit.

Make sure you will be obeying all pertinent laws and regulations before towing the machine on public roads.

A DANGER

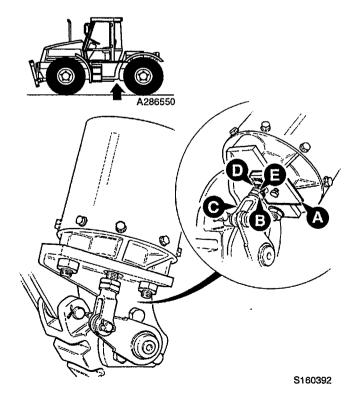
If the engine is not running, there will not be enough air to apply the service brakes or release the parking brake. Carefully follow the precautions in this section before moving the machine or there may be a serious accident. 13-2-2-6/1

A CAUTION

Towing a machine too far or too fast can damage the transmission. Do not tow the machine further than one mile. Use a trailer for greater distances. When towing do not travel faster than 25 km/h (15 mph).

Use a rigid drawbar. If you must use towing chains, then use two towing vehicles. One towing vehicle should be coupled to the front of the disabled machine. The other towing vehicle should be coupled to the rear of the disabled machine, to provide braking power.

The towing vehicle(s) must have enough pulling and braking power to move and stop the machine.



Preparation for Towing

1 Connect the towing vehicle.

- a Apply the parking brakes on the towing vehicle and securely chock the wheels on the Fastrac.
- b Fit the drawbar between towing vehicle and Fastrac.

2 Prepare the machine.

- a Make sure that the range and speed gearboxes are both in neutral.
- b If the gearbox has failed, disconnect both propshafts (see Section F).
- c If an axle has failed, remove the sun gears (see Section F).

3 Release the Fastrac parking brake.

If there is not enough air pressure to release the brake, start the engine to charge up the air system. If the engine cannot be run but the brake air system is serviceable, charge the system to 120 psi (8 bar) through Schrader valve X. This job must be done by a qualified mechanic, using the correct equipment.

A DANGER

Ensure that the chocks and towing vehicle will prevent the Fastrac from moving as it is necessary to work under the machine to release the parking brake. When the parking brake has been manually released as described below, it will be impossible to apply the brake until plate A has been removed.

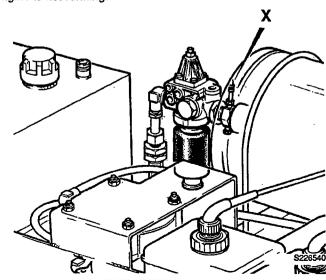
13-2-2-11

Alternatively, position plate **A** (if provided with the machine) as shown. Keeping nut **B** tight against clevis **C**, turn nut **D** against the plate so that rod **E** is drawn out of the actuator body and the parking brake is released.

Note: If the parking brake cannot be released, remove both propshafts (see Section F).

The machine is now ready for towing. If you will be steering the Fastrac, make sure you understand what the towing driver will be doing. Obey his instructions and all relevant regulations.

Remember that the steering will be much heavier if the engine is not running.



*Transporting the Machine

The safe transit of the load is the responsibility of the transport contractor and driver. Any machine, attachments or parts that may move during transit must be adequately secured.
52-59

Note: Before transporting the machine make sure you will be obeying the rules and laws of all the areas that the machine will be carried through.

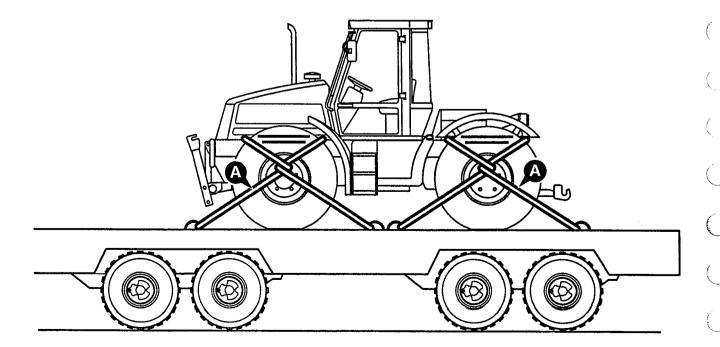
Make sure that the transporting vehicle is suitable. See **Static Dimensions** (SPECIFICATIONS section in the machine handbook) for the dimensions of the machine.

WARNING

Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Remove oil, grease and ice from the machine tyres. Make sure the machine will not foul on the ramp angle. See Static Dimensions in SPECIFICATIONS section for the minimum ground clearance of your machine.

- 1 Place blocks at the front and rear of the trailer wheels.
- 2 Move the machine on to the trailer as follows:
 - a Make sure the ramps are correctly in place and secure.
 - **b** Carefully drive the machine onto the trailer.
 - c Set the drive to neutral and engage the parking brake.
 - d Switch off the engine.
 - e Ensure that the overall height of the load is within regulations.
 - f Secure the cab.

- Anchor the machine to the trailer with chains or suitable webbing straps. The preferred fixing is to use webbing straps individually fixing all four wheels to the deck of the trailer as at A. If chains are used they should be connected to a suitable part of the drawbar at the rear of the machine. At the front, use the tie down points. Avoid chaining any part of the machine where the chains may damage critical componentry. For example, chaining around either axle provides the possibility of damaging the steel brake pipes running along their length.
- Measure the maximum height of the machine from the ground. Try to make sure the truck driver knows the clearance height before he drives away.



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