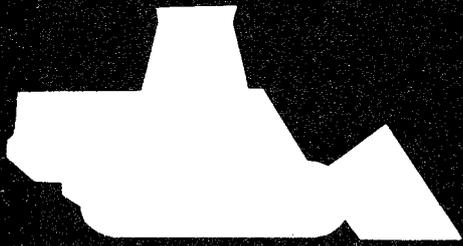


# Crawler Loading Shovel

## Dealer parts catalogue



Numerical index

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Buckets & attachments

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A

Body & framework

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B

Electrics - machine

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C

Controls

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Hydraulics

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Transmission

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Brakes

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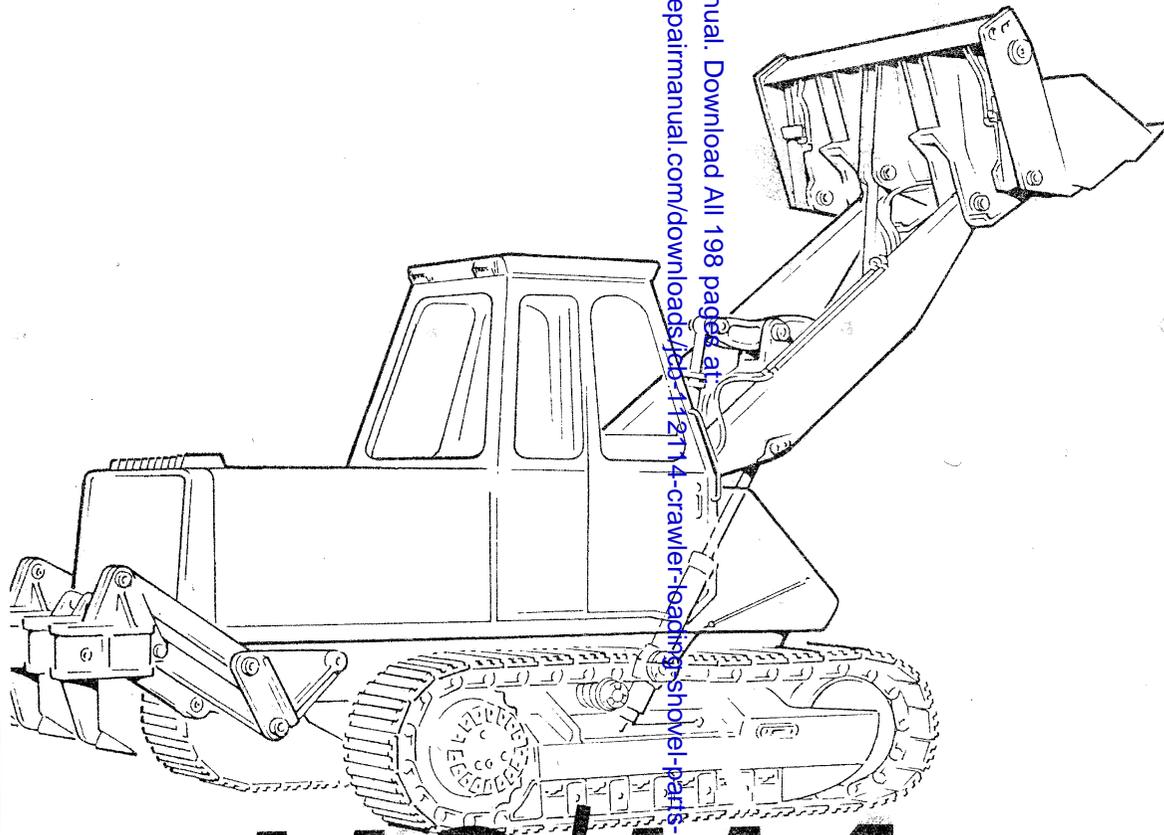
Track & running gear

---

J



Sample of manual. Download All 198 pages at <https://www.aresairmanual.com/downloads/jcb-112114-crawler-loading-shovel-parts-manual/>



# 112/114

## Numerical Index

**Buckets & Attachments** **A**

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## Parts Catalogue General Information

The catalogue is divided into the sections listed on the front cover. At the beginning of each section is a page number index of major assemblies or of components belonging to a particular machine build. The machine serial number at which a change has occurred is also shown in the index. **Always check with the index before ordering.**

### Assemblies and Components

To indicate which parts are included in a particular assembly, a system of 'indenting' is in use, for example:—

Item	Part No.	m/c No.	Description.	Remarks	Qty. m/c Assy.
1	256/40600	.....	Working Light Kit	.....	1
2	707/08500	.....	:Working Light	.....	2
3	707/08502	.....	::Lens	.....	1
4	720/10039	.....	::Bulb	12V 38W	1
5	706/04100	.....	:Harness	.....	1
6	707/08700	.....	:Stoneguard	.....	1

Item 1 includes items 2 to 6, Item 2 includes items 3 and 4. The groups would also be 'boxed' on the corresponding illustration page.

**Note:—** 'R' in the remarks column indicates that a reconditioned exchange unit is available, this should be ordered by adding R to the part number, thus 919/07500 R.

### Part Number Changes

Where a design change is made to a component, the new part number is listed directly below the Original part number. The machine number at which the change takes effect is shown in the m/c No. column, this column will also read 'N/A Use' or 'Superseded' if the original and new parts are interchangeable, for example:—

Item	Part No.	m/c No.	Description.	Remarks	Qty. m/c Assy.
1	447/05200 447/06800	Superseded	Gearbox L.H.	.....	1
20	447/05207 447/06801	To M75193	:Carrier/Cover	(4 gear) (3 gear)	1

Part number 447/06800 supersedes part number 447/05200 but each is interchangeable with the other. Part number 447/06801 replaces 447/05207 with effect from machine number 75193.

### Amendments

Two methods of revising information are in use, Number Change Supplements (N.C.S.) and Replacement Pages.

The number change supplement contains new or revised information and is issued as a temporary measure, being eventually superseded by replacement pages. New supplements should be inserted in the front of the catalogue, earlier ones being removed and destroyed. Revised information may then be transferred to the catalogue pages or stock lists as required.

Replacement pages are issued in sets complete with a revision index printed on grey paper. Pages having an asterisk (\*) against the issue number replace existing pages of lower issue which should be discarded, (except for index pages which should be retained in the front of the catalogue).

### Abbreviations

A.R.	As required	No./Con.	Number Conversion.
Assy.	Assembly	N.S.P.	Non serviced part.
Kg/cm <sup>2</sup>	Kilograms per square centimetre	N/R	Not Required.
K.P.H.	Kilometres per hour.	P.S.I.	Pounds per square inch.
L.H.	Left Hand (viewed from rear of machine facing forward).	R.H.	Right Hand (viewed from rear of machine facing forward).
M/C	Machine.	S/S	Superseded
M.P.H.	Miles per hour.	STD	Standard
N/A	Not available.	*	Revised Information.
N.C.S.	Number Change Supplement		



# General Index

# ISSUE 1

This index is intended to assist in the location of items within this catalogue (Publication No. 9802/2200).

	Index	Section		Index	Section
Actuator	E	4	Mechanical Control Box	D	4
Air Ducting	B	2	Neutral Servo	E	5
Battery	C	1	Neutral Start Switch	C	1
Bonnet	B	2	Paints & Transfers	B	9
Brake	G	1	Pipe Clips	B	11
Bucket—General Purpose	A	1	Pressure Regulator	E	4
—6 in 1	A	2			
—Reset	DC	5	Ram —Assys.	E	14
Cab	B	6	—Components	E	15
Chassis	B	1	—Reset Valve	E	13
—Cover Plates	B	3	Recoil Unit	J	5
Changeover Valve	E	10	—Covers	B	4
Composite Valve	E	7	Refuelling Pump	B	12
			Restrictor Valve	E	4
			Ripper	A	3
Earthing Straps	C	1			
Engine—See Perkins Catalogue			Screenwasher	B	6
			Seat	B	7
Filter—Anti-Stall	E	18	Sender Units	C	1
—Loader	E	16	Sight Gauge (Hydraulic Fluid)	B	3
—Transmission	E	17	Soundproofing	B	10
Fuel Tanks	B	1	Splitter Box	F	3
Grease Pipes (Ram Trunnions)	B	5	Tank Fittings	B	3
Governor Valve	E	4	Tipping Lever & Link	B	5
Grille	B	1	Tool Kit	B	8
			Towing Bracket	A	4
Heater	C	5	Track		
Horn	C	2	—Guards	B	4
Hydraulic Fluid	E	19	—Roller (Top)	J	2
—Circuit (Anti-Stall)	E	4	—Roller (Bottom)	J	3
—Circuit (Loader Neutral)	E	1	Track Gearbox (Primary)	F	1
—Circuit (Loader Pressure)	E	2	(Secondary)	F	2
—Circuit (6 in 1)	E	100	Transmission Controls	D	2
—Circuit (Ripper)	E	101	—Pipework/Adapters	E	8
—Circuit (Transmission)	E	3	—Pumps	E	5
—Tank	B	1	—Motors	E	6
			—Unload System	D	3
Idle Wheel	J	1	Washer	C	7
Instrumentation	C	4	Washer	C	2
			Washer	C	1
Lights	C	2	Wiring Harness		
Loader Arms	B	5			
—Arm Pivots	B	5			
—Arm Seals	B	5			
Loader Pump	E	9			
Loader Valve	E	10			
—Valve Adapters	E	12			
—Valve Controls	D	1			
—Valve Spools	E	11			

# A

Page A1-1 to A4-1

**Buckets &  
Attachments**

**A**

**Body &  
Framework**

**B**

**Electrics —  
Machine**

**C**

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**Hydraulics**

**E**

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**Track &  
Running Gear**

**J**



# A Buckets & Attachments

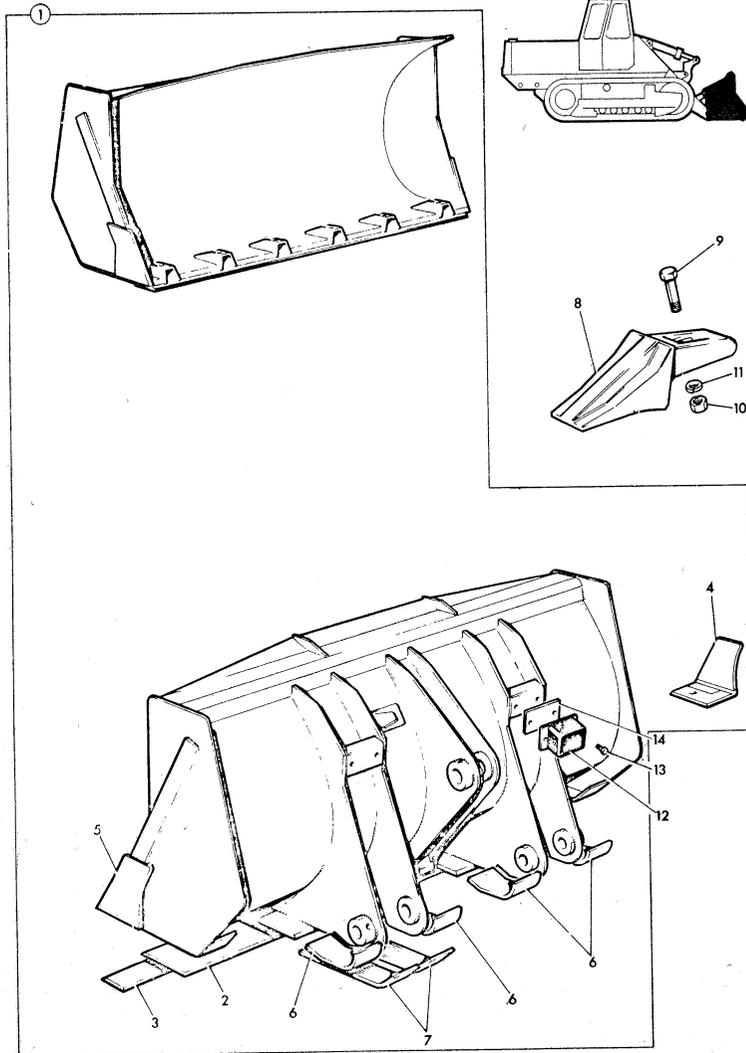
ISSUE 4

	112	114
Bucket	A 1-1	A 1-2
6 in 1 Bucket	A 2-1 M85018 A 2-3	A 2-2 M90037 A 2-4
Ripper Attachment	A 3-1	A 3-1
Drawbar Attachment	A 4-1	A 4-1



# A 1-1 BUCKET

ISSUE 2

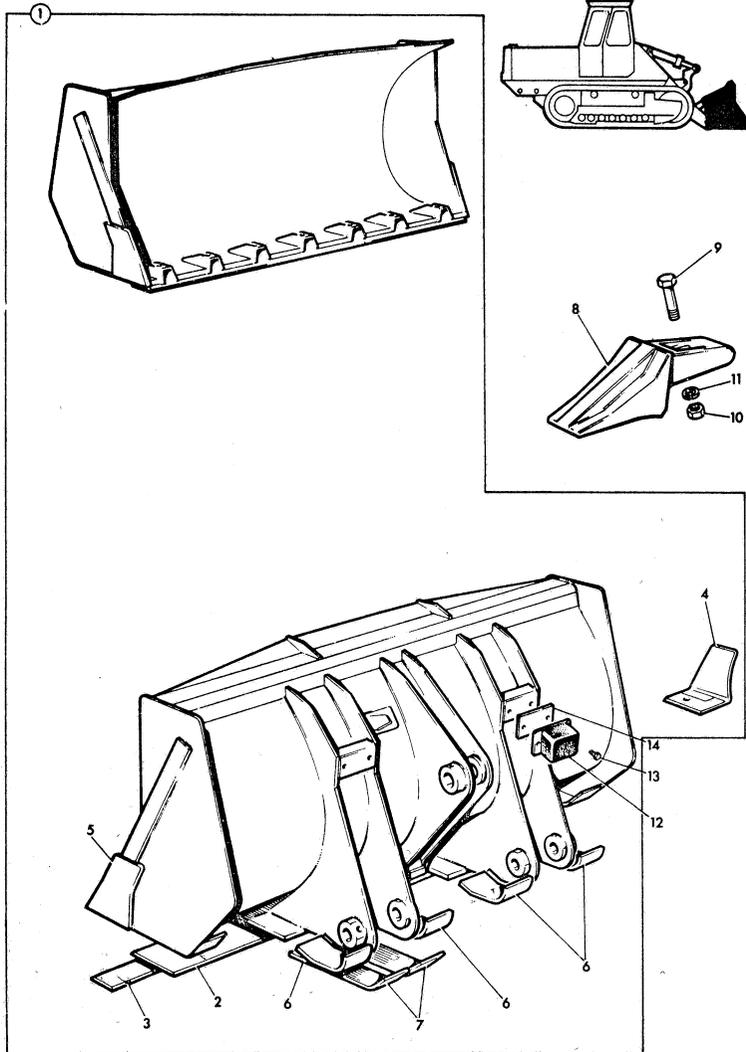


Item	Part No.	M/c No.	Description	Remarks	Quantity	
1	521/05700	.....	.....	Bucket	.....	1
2	521/05704	.....	.....	:Toe Plate	.....	1
3	521/05705	.....	.....	:Toe Plate	.....	1
4	510/50901	.....	.....	:Side Cutter	.....	1
5	510/50904	.....	.....	:Side Cutter	.....	1
6	521/02505	.....	.....	:Runner	.....	4
7	521/05708	.....	.....	:Runner	.....	2
8	544/21003	.....	.....	* Tooth	544/21003 N/A Use 256/59801 with Bolt 1305/3620 and Taper Washer 1415/0003	A/R
9	1305/3618	.....	.....	Bolt	.....	A/R
10	1340/0601	.....	.....	Nut	.....	A/R
11	1416/0010	.....	.....	Washer	.....	A/R
12	251/00202	.....	.....	Buffer	.....	2
13	1305/0207	.....	.....	Bolt	.....	4
14	270/00417	.....	.....	Spacer	.....	8



# A 1-2 BUCKET

ISSUE 2



Item	Part No.	M/c No.	Description	Remarks	Quantity	
1	521/06300	.....	.....	Bucket	.....	1
2	521/06302	.....	.....	:Toe Plate	.....	1
3	521/06303	.....	.....	:Toe Plate	.....	1
4	510/50901	.....	.....	:Side Cutter	.....	1
5	510/50904	.....	.....	:Side Cutter	.....	1
6	521/02505	.....	.....	:Runner	.....	4
7	521/05708	.....	.....	:Runner	.....	2
8	544/21003	.....	.....	*Tooth	544/21003 N/A Use 256/59801 with Bolt 1305/3620 and Taper Washer 1415/0003	A/R
9	1305/3618	.....	.....	Bolt	.....	A/R
10	1340/0601	.....	.....	Nut	.....	A/R
11	1416/0010	.....	.....	Washer	.....	A/R
12	251/00202	.....	.....	Buffer	.....	2
13	1305/0207	.....	.....	Bolt	.....	4
14	270/00417	.....	.....	Spacer	.....	8



*dd*

## TECHNICAL INFORMATION

## Section A

Sheet 1 of 1  
February 1978

A11/H — Issue 1  
A9/E — Issue 1

### JCB 100 SERIES

#### Clamshovel Hoses

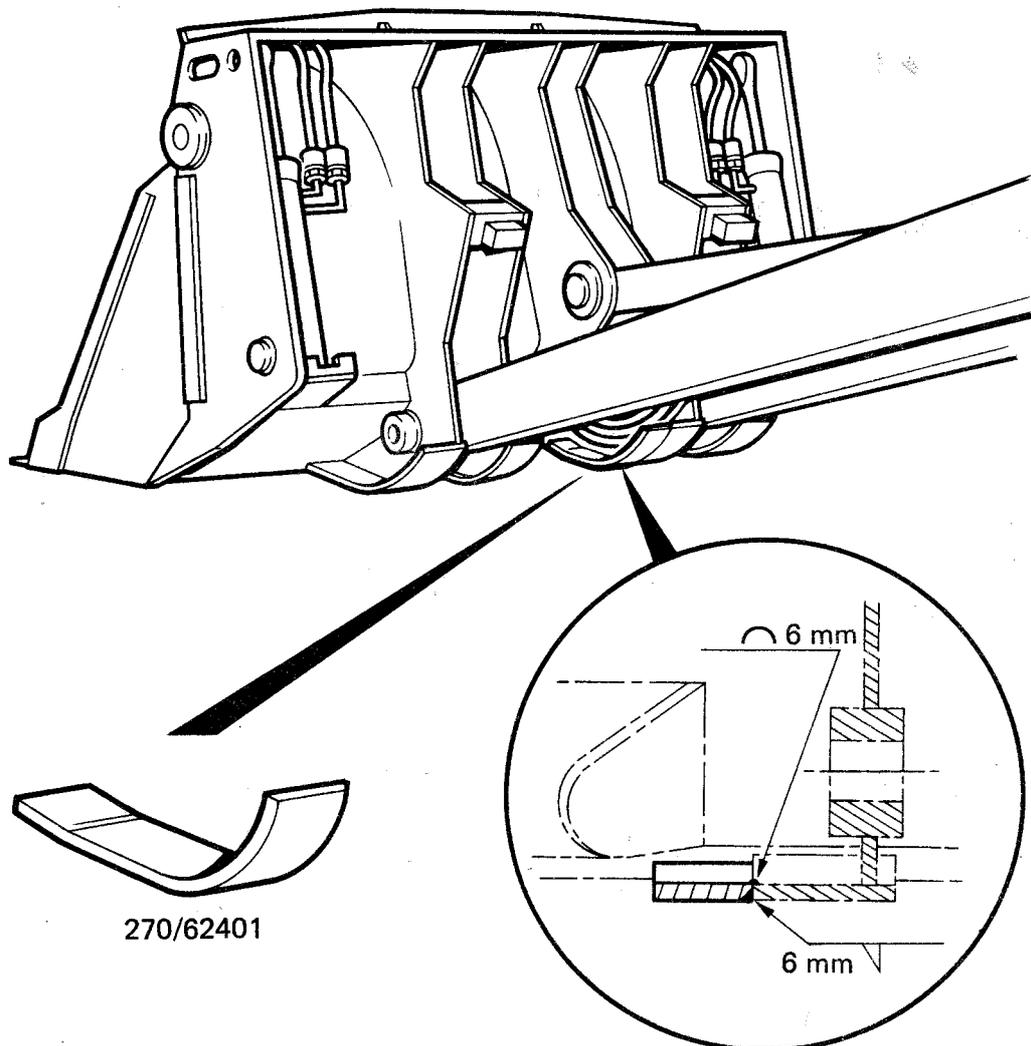
#### Problem

The supply hoses to the clamshovel rams may, in extreme conditions, be susceptible to damage when using the shovel for back-blading.

#### Service Procedure

If the problem is severe, a small skid plate part no. 270/62401 may be welded to the inside edge of the bucket runner as shown.

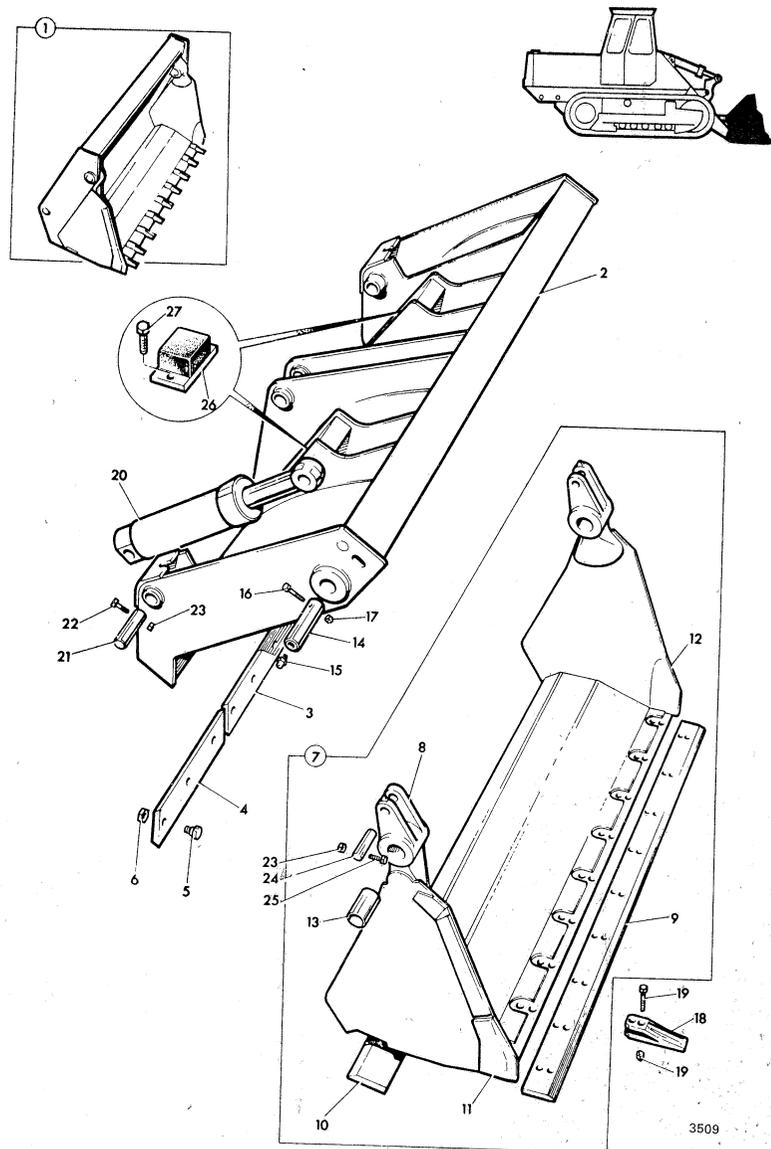
NOTE: DISCONNECT BATTERY AND ALTERNATOR BEFORE WELDING.





# A 2-1 6 IN 1 BUCKET

ISSUE 3

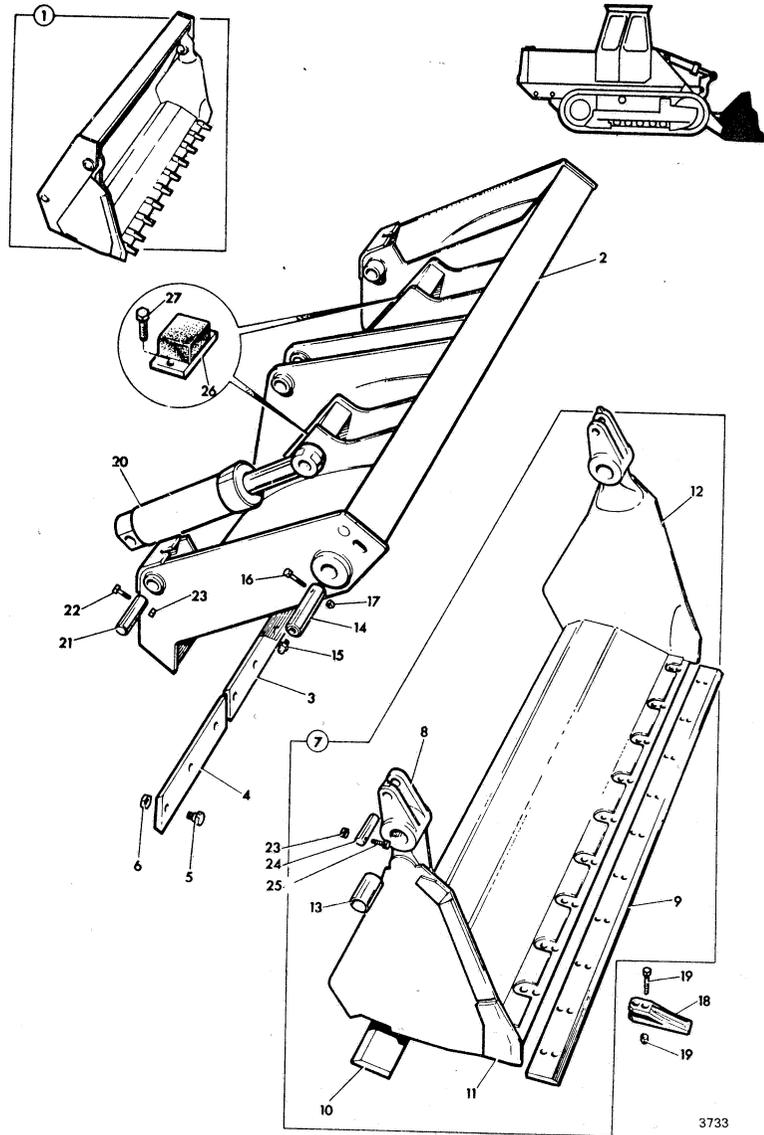


Item	Part No.	M/c No.	Description	Remarks	Quantity
1	521/03600	.....	6 in 1 Bucket	.....	1
2	521/03700	.....	:Blade	.....	1
3	521/03601	.....	:Toe Plate	1170mm hole 6 HOLES	1
4	521/02303	.....	:Side Plate	.....	2
5	826/00235	.....	:Plough Bolt	.....	12
6	1340/0701	.....	:Nut	.....	12
7	521/03800	.....	:Clam	.....	1
8	521/03801	.....	::Clam Pivot	.....	2
9	521/03802	.....	::Toe Plate—Front	.....	1
10	521/03803	.....	::Toe Plate—Rear	.....	1
11	521/02401	.....	::Side Cutter	.....	1
12	521/02402	.....	::Side Cutter	.....	1
13	1209/0026	.....	::Bush	.....	2
14	1021/3821	M	*:Pivot Pin	9 <sup>1</sup> / <sub>2</sub> in. Long	2
	1021/3823	.....	*:Pivot Pin	10 <sup>1</sup> / <sub>2</sub> in. Long	2
15	1450/0001	.....	:Grease Nipple	.....	2
16	1305/3236	M	*:Bolt	3/8in. UNF	2
	1305/3436	.....	*:Bolt	1/2in. UNF	2
17	1340/0203	M	*:Nut	3/8in. UNF	2
	1340/0403	.....	*:Nut	1/2in. UNF	2
18	521/02306	.....	:Tooth	.....	9
19	990/15900	.....	:Bolt and Nut	.....	18
20	See Index E	.....	:Clam Ram	.....	2
21	1017/2032	.....	:Pivot Pin	.....	2
22	1305/3222	.....	:Bolt	.....	2
23	1340/0203	.....	:Nut	.....	4
24	1017/2006	.....	:Pivot Pin	.....	2
25	1305/3226	.....	*:Bolt	.....	2
26	251/00202	.....	:Buffer	.....	2
27	1305/0207	.....	:Bolt	.....	4



# A 2-2 6 IN 1 BUCKET

ISSUE 2



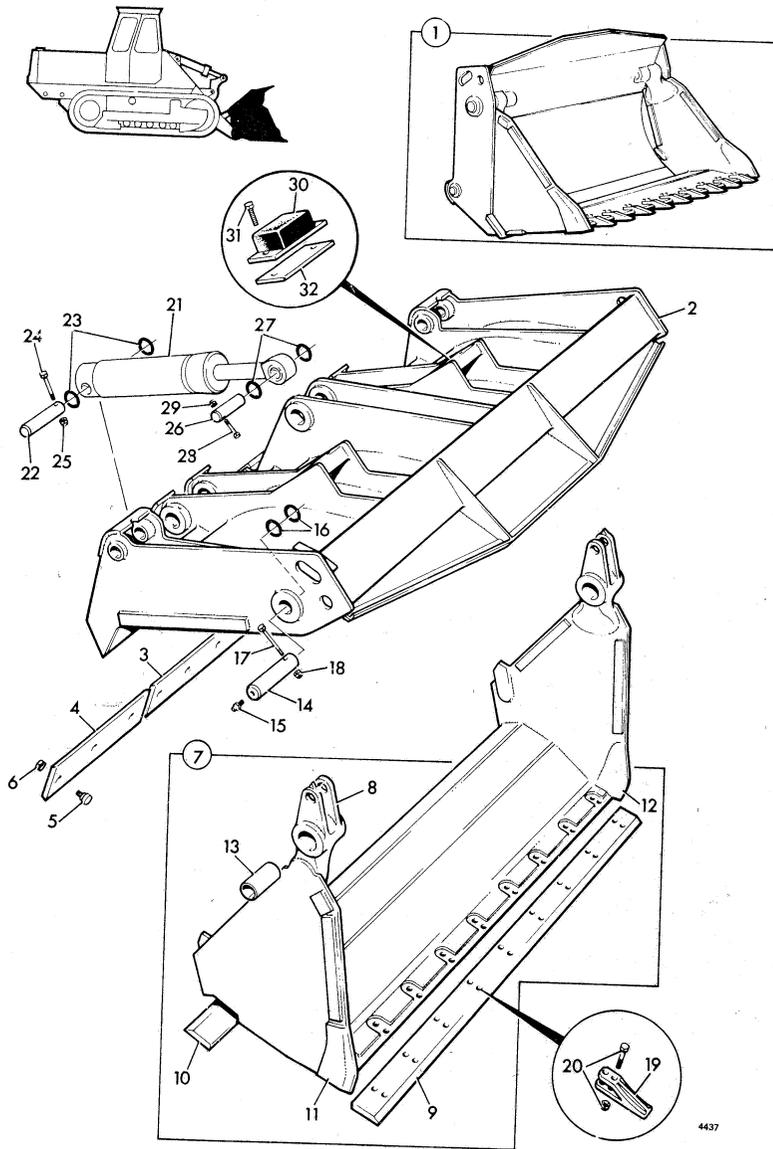
Item	Part No.	M/c No.	Description	Remarks	Quantity
1	521/04100	.....	6 in 1 Bucket	.....	1
2	521/06600	.....	:Blade	.....	1
3	521/04101	.....	:Toe Plate	1520mm long 9 Holes	1
4	521/02303	.....	:Side Plate	.....	2
5	826/00235	.....	:Plough Bolt	.....	15
6	1340/0701	.....	:Nut	.....	15
7	521/04200	.....	:Clam	.....	1
8	521/03801	.....	::Clam Pivot	.....	2
9	521/04201	.....	::Toe Plate	Front	1
10	521/04202	.....	::Toe Plate	Rear	1
11	521/02401	.....	::Side Cutter	.....	1
12	521/02402	.....	::Side Cutter	.....	1
13	1209/0026	.....	::Bush	.....	2
14	1021/3821	M	*:Pivot Pin	9 1/4 in. Long	2
	1021/3823	.....	*:Pivot Pin	10 1/4 in. Long	2
15	1450/0001	.....	:Grease Nipple	.....	2
16	1305/3236	M	*:Bolt	3/8 in. UNF	2
	1305/3436	.....	*:Bolt	1/2 in. UNF	2
17	1340/0203	M	*:Nut	3/8 in. UNF	2
	1340/0403	.....	*:Nut	1/2 in. UNF	2
18	521/02306	.....	:Tooth	.....	10
19	990/15900	.....	:Bolt & Nut	.....	20
20	See Index E	.....	:Clam Ram	.....	2
21	1017/2032	.....	:Pivot Pin	.....	2
22	1305/3222	.....	:Bolt	.....	2
23	1340/0203	.....	:Nut	.....	4
24	1017/2006	.....	:Pivot Pin	.....	2
25	1305/3226	.....	:Bolt	.....	2
26	251/00202	.....	:Buffer	.....	2
27	1305/0207	.....	:Bolt	.....	4

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# A 2-3 6 IN 1 BUCKET

ISSUE 1

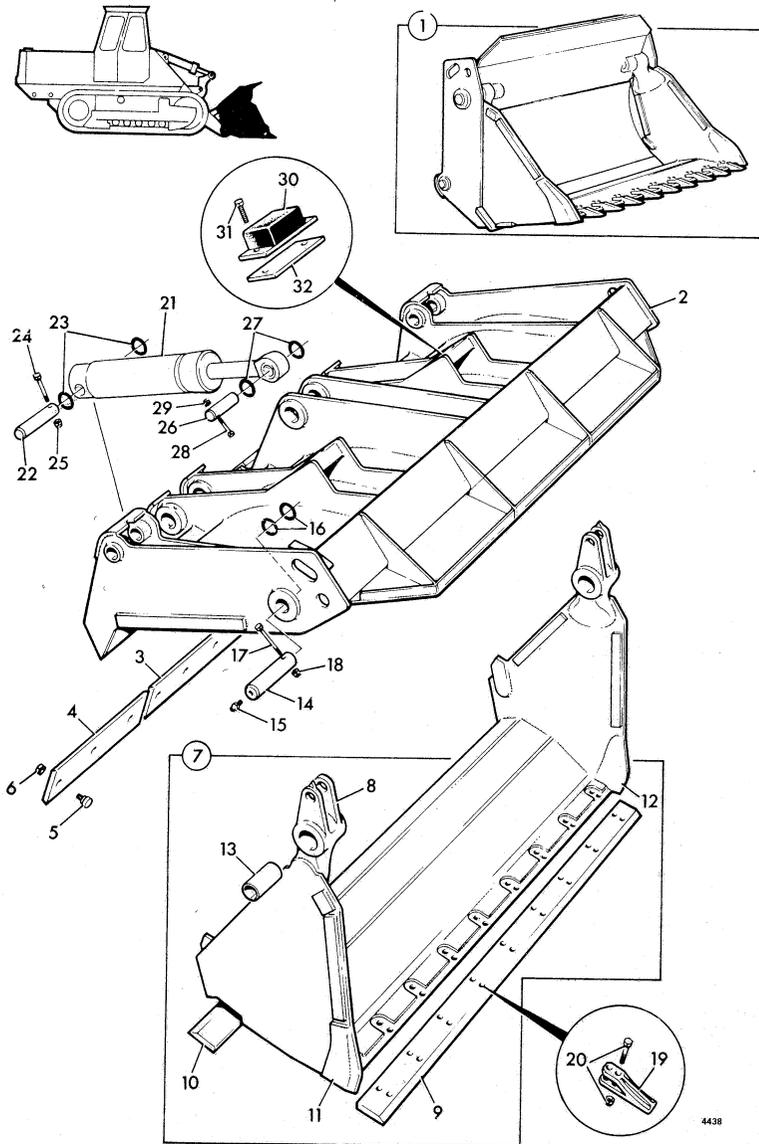


ITEM	PART No.	CHANGE No.	DESCRIPTION	REMARKS	QTY.
1	521/08000	.....	Bucket	.....	1
2	521/08300	.....	:Blade	.....	1
3	521/08001	.....	:Toe Plate	1174mm long 7 Holes	1
4	521/02303	.....	:Toe Plate	.....	2
5	826/00235	.....	:Plough Bolt	.....	13
6	1340/0701	.....	:Nut	.....	13
7	521/08800	.....	:Clam	.....	1
8	521/08701	.....	::Clam Pivot	.....	2
9	521/08805	X.....	::Toe Plate	Front	1
10	521/08805	.....	::Toe Plate	Rear	1
11	521/02401	.....	::Side Cutter	R.H.	1
12	521/02402	.....	::Side Cutter	L.H.	1
13	808/00144	.....	::Bush	.....	2
14	1021/3827	.....	:Pivot Pin	.....	2
15	1450/0001	.....	:Grease Nipple	.....	2
16	813/00151	.....	:O' Ring	.....	4
17	1305/3436	.....	:Bolt	.....	2
18	1340/0403	.....	:Nut	.....	2
19	521/02306	X.....	:Tooth	.....	9
20	990/15900	.....	:Nut and Bolt	.....	18
21	See Index E	.....	:Clam Ram	.....	2
22	1019/2048	.....	:Pivot Pin	.....	2
23	813/00152	.....	:O' Ring	.....	4
24	1305/3222	.....	:Bolt	.....	2
25	1340/0203	.....	:Nut	.....	2
26	1019/2013	.....	:Pivot Pin	.....	2
27	813/00152	.....	:O' Ring	.....	4
28	1305/3230	.....	:Bolt	.....	2
29	1340/0203	.....	:Nut	.....	2
30	251/00202	.....	:Buffer	.....	2
31	1305/0207	.....	:Bolt	.....	4
32	270/00417	.....	:Spacer	.....	8



# A 2-4 6 IN 1 BUCKET

ISSUE 1

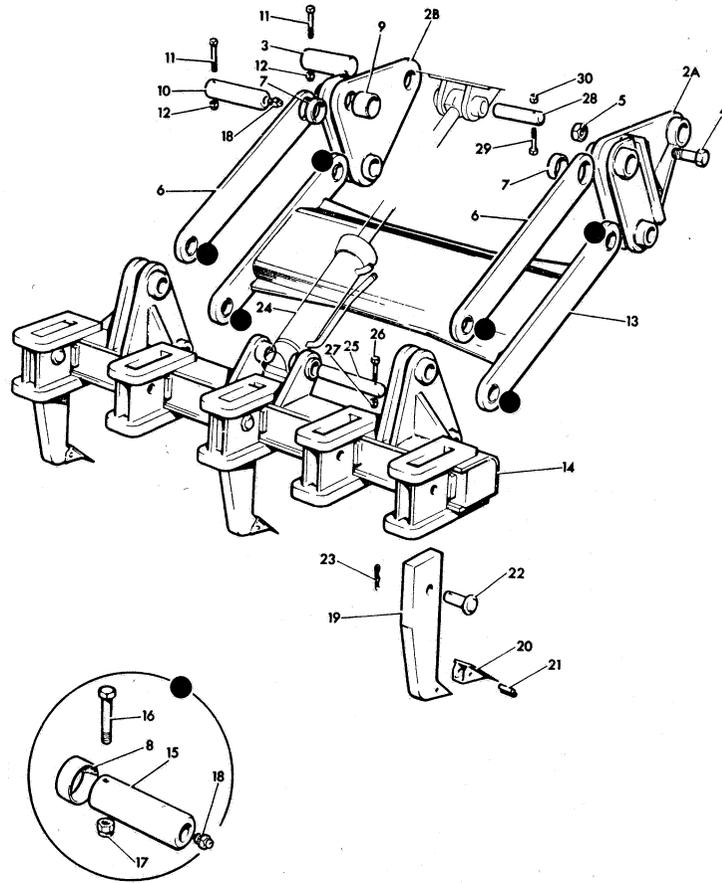
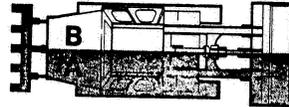
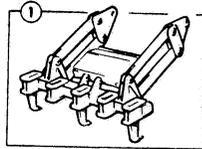


ITEM	PART No.	CHANGE No.	DESCRIPTION	REMARKS	QTY.
1	521/08100	.....	Bucket	.....	1
2	521/08400	.....	:Blade	.....	1
3	521/08101	.....	:Toe Plate	1276mm hole 8 Holes	1
4	521/02303	.....	:Toe Plate	.....	2
5	826/00235	.....	:Plough Bolt	.....	14
6	1340/0701	.....	:Nut	.....	14
7	521/08900	.....	:Clam	.....	1
8	521/08701	.....	::Clam Pivot	.....	2
9	521/08905	.....	::Toe Plate	Front	1
10	521/08903	.....	::Toe Plate	Rear	1
11	521/02401	.....	::Side Cutter	R.H.	1
12	521/02402	.....	::Side Cutter	L.H.	1
13	808/00144	.....	::Bush	.....	2
14	1021/3827	.....	:Pivot Pin	.....	2
15	1450/0001	.....	:Grease Nipple	.....	2
16	813/00151	.....	: 'O' Ring	.....	4
17	1305/3436	.....	:Bolt	.....	2
18	1340/0403	.....	:Nut	.....	2
19	521/02306	.....	:Tooth	.....	9
20	990/15900	.....	:Nut and Bolt	.....	18
21	See Index E	.....	:Clam Ram	.....	2
22	1019/2048	.....	:Pivot Pin	.....	2
23	813/00152	.....	: 'O' Ring	.....	4
24	1305/3222	.....	:Bolt	.....	4
25	1340/0203	.....	:Nut	.....	2
26	1019/2013	.....	:Pivot Pin	.....	2
27	813/00152	.....	: 'O' Ring	.....	2
28	1305/3230	.....	:Bolt	.....	2
29	1340/0203	.....	:Nut	.....	2
30	251/00202	.....	:Buffer	.....	2
31	1305/0207	.....	:Bolt	.....	4
32	270/00417	.....	:Spacer	.....	8



# A 3-1 RIPPER ATTACHMENT

ISSUE 1

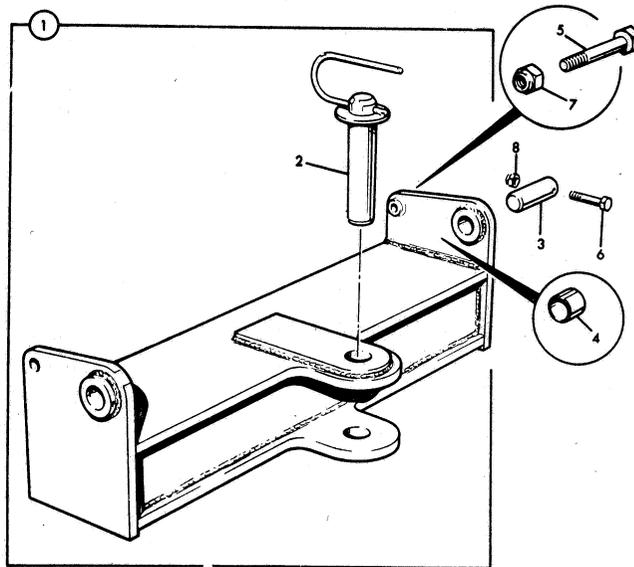
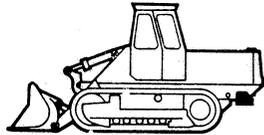


Item	Part No.	M/c No.	Description	Remarks	Quantity
1	520/05900	.....	Ripper Attachment	.....	1
2A	520/05901	.....	:Bracket	.....	1
2B	520/05902	.....	:Bracket	.....	1
3	520/00006	.....	:Pivot Pin	.....	2
4	1305/3938	.....	:Bolt	.....	2
5	1340/0903	.....	:Nut	.....	2
6	520/00001	.....	:Link	.....	2
7	809/00028	.....	:Bush	.....	2
8	809/00027	.....	:Bush	.....	6
9	809/00029	.....	:Bush	.....	4
10	1025/3815	.....	:Pivot Pin	.....	2
11	1305/3431	.....	:Bolt	.....	4
12	1340/0403	.....	:Nut	.....	4
13	520/06200	.....	:Bottom Link	.....	1
14	520/05800	.....	:Frame	.....	1
15	1021/3810	.....	:Pivot Pin	.....	6
16	1305/3430	.....	:Bolt	.....	6
17	1340/0403	.....	:Nut	.....	6
18	1450/0001	.....	:Grease Nipple	.....	8
19	520/00005	.....	:Tooth Shank	.....	A/R
20	520/00002	.....	:Tooth	.....	A/R
21	520/00003	.....	:Pin	.....	A/R
22	520/06300	.....	:Pin	.....	A/R
23	530/14001	.....	:Clip	.....	A/R
24	See Index E	.....	:Ripper Ram	.....	1
25	1019/2056	.....	:Pivot Pin	.....	1
26	1305/3234	.....	:Bolt	.....	1
27	1340/0203	.....	:Nut	.....	1
28	1019/2024	.....	Pivot Pin	.....	1
29	1305/3426	.....	Bolt	.....	1
30	1340/0403	.....	Nut	.....	1



# A 4-1 DRAWBAR ATTACHMENT

ISSUE 1



Item	Part No.	M/c No.	Description	Remarks	Quantity
					112 114
1	520/08900	.....	Drawbar	.....	1
2	520/08800	.....	Towing Pin	.....	1
3	1025/2001	.....	Pivot Pin	.....	2
4	809/00029	.....	Bush	.....	2
5	1305/3932	.....	Bolt	.....	2
6	1305/3432	.....	Bolt	.....	2
7	1340/0903	.....	Nut	.....	2
8	1340/0404	.....	Nut	.....	2



# B

Page B1-1 to B6-1

**Buckets &  
Attachments**

**A**

**Body &  
Framework**

**B**

**Electrics —  
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**J**



# B Body & Framework

ISSUE 4\*

	112	114
Cab	B 7-1 Superseded B 7-2 B 7-3	B 7-1 Superseded B 7-2 B 7-3
Chassis/Arms	B 1-1	B 1-1
Cover Plates	B 3-1	B 3-1
Cowlings	B 6-1	B 6-1
Fire Extinguisher	B 13-1	B 13-1
Loader Arm Assemblies	B 2-1	B 2-1
Paint and Transfers	B 12-1	B 12-1
Pipe Clips	B 5-1	B 5-1
Refuelling Pump	B 11-1	B 11-1
Seat	B 8-1	B 8-1
Soundproofing	B 9-1	B 9-1
Tank Fittings	B 4-1	B 4-1
Tool Kits	B 10-1	B 10-1

DO NOT SCALE

THIS DRG. WILL BE MICROFILMED.

APPLY CORRECT DRAUGHTING TECHNIQUE

THIRD ANGLE PROJECTION

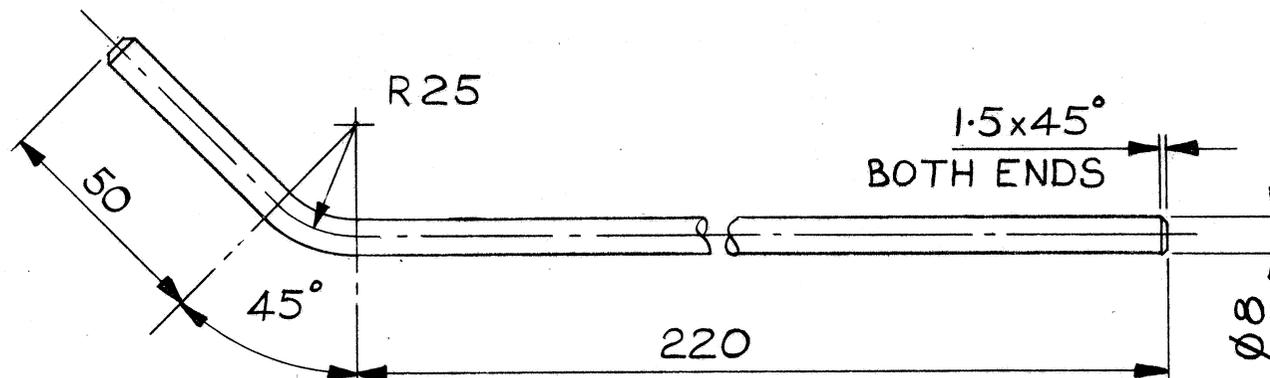
P.I. NO P271/572

UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES

ISSUE	DRAWN	DATE
1	MJE	12/78

NEW ISSUE

DEVELOPED LENGTH 290 (PROVE BY TRIAL)



MICROFILM REFERENCE SCALE 0 50 100 MILLIMETRES

MACHINED SURFACES & MICROMETRE FINISHES SHOWN THUS  $\nabla$  WELDING SYMBOLS TO BS499 OTHER SYMBOLS TO BS 308.  
 INSIGNIA :- & PART NO., MAT'L SPEC'N & MANUFACTURERS CODE TO BE PUT ON SURFACE SHOWN THUS  $\oplus$

MATERIAL:  
 070M20 BRIGHT  
 TO BS 970

TITLE: PROTECTION BAR

TOLERANCES TO BE AS SPECIFIED BELOW UNLESS OTHERWISE STATED.

**MACHINING**  
 LINEAR DIMENSIONS AND HOLE CENTRES  $\pm 0.5$ mm  
 DRILLED HOLES UP TO 8mm DIA.  $+0 +0.16$ mm  
 DRILLED HOLES OVER 8mm DIA.  $+0 +2\%$  OF DIA. ANGLES  $\pm 0.5^\circ$   
 6-3 MICROMETRE FINISH ON MACHINED SURFACES  
 0.1mm TOTAL INDICATOR READING ON MACHINED DIAMETERS.  
 TOTAL TOL. ZONE FOR FLATNESS 0.1% OF LONGEST SURFACE LENGTH  
 1 IN 2000 STRAIGHTNESS ON SHAFTS AND PINS.

FABRICATIONS	
DETAILS	ASSEMBLIES
0-500mm $\pm 1$ mm	0-1000mm $\pm 1.5$ mm
OVER 500-2000mm $\pm 1.5$ mm	OVER 1000-2000mm $\pm 3$ mm
2000mm AND OVER $\pm 3$ mm	2000mm AND OVER $\pm 5$ mm
ANGLES $\pm 1^\circ$	ANGLES $\pm 1^\circ$

USED ON 271/03100  
 272/02000

J.C. BAMFORD EXCAVATORS LTD.  
 ROCHESTER. STAFFS. ENGLAND.

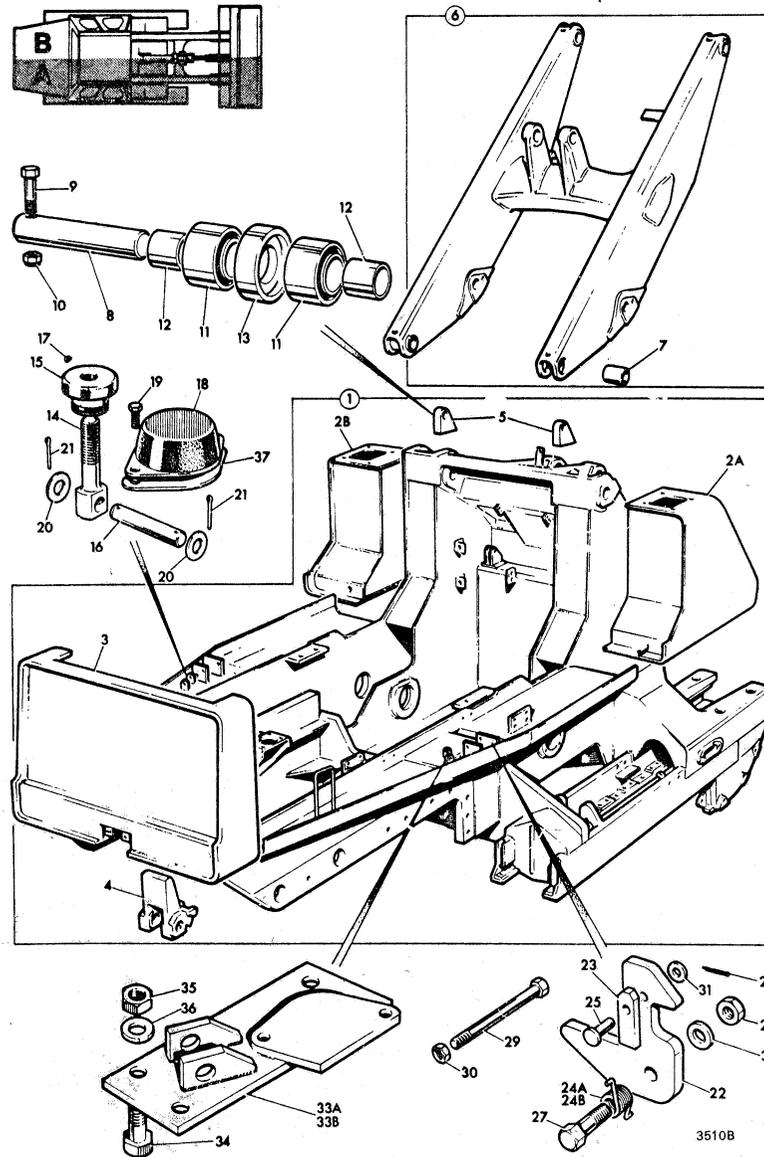
THIS DRAWING IS THE PROPERTY OF J.C. BAMFORD EXCAVATORS LTD. & MUST NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT.

DRAWN	DATE	CHECKED	SUPERSEDES	SUPERSEDED BY	M/F AT ISSUE	SCALE	DRAWING NUMBER
MJE	12/78				A3	1:1	271/03142



# B 1-1 CHASSIS/ARMS

ISSUE 4\*

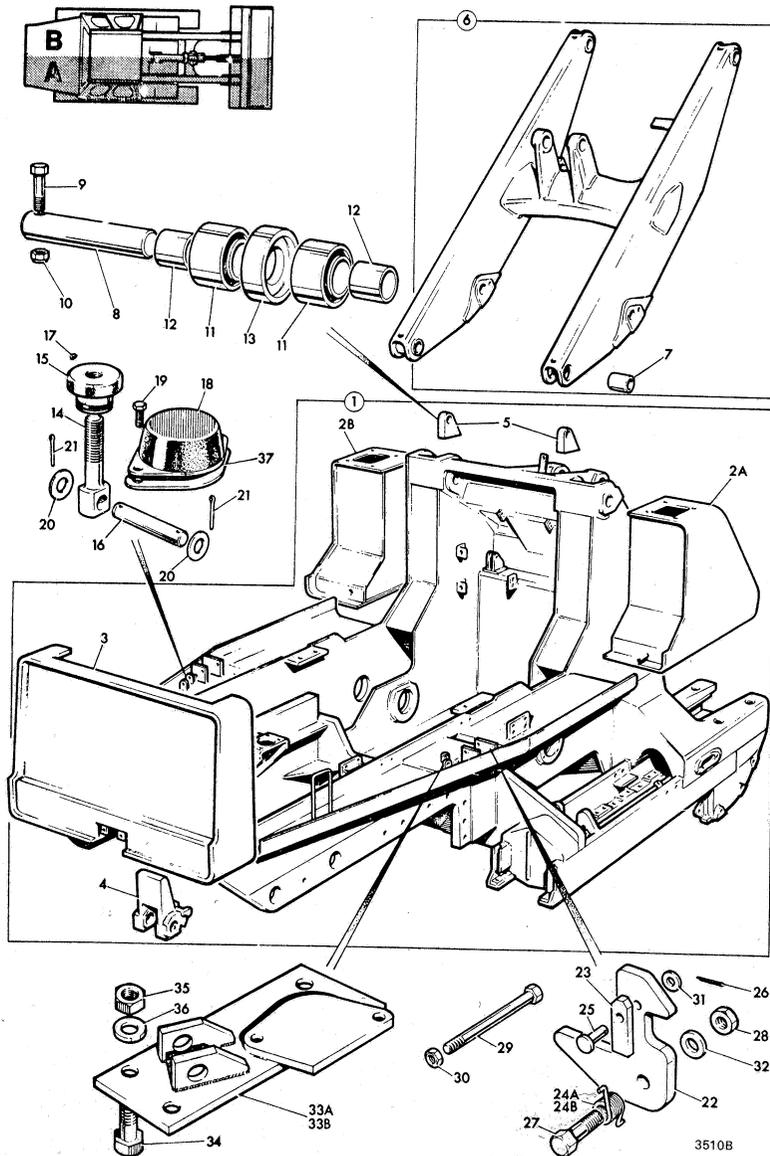


Item	Part No.	M/c No.	Description	Remarks	Quantity
					<b>112 114</b>
1	271/03100	.....	Chassis - 112	.....	1
	272/02000	.....	Chassis - 114	.....	1
2A	271/03300	.....	:Fuel Tank	R.H.	1 1
2B	271/03400	.....	:Fuel Tank	L.H.	1 1
3	271/03200	.....	:Rear Grille	.....	1 1
4	271/03119	.....	:Towing Bracket	.....	1 1
5	271/03130	.....	:Cab Pivot	.....	2 2
6	271/29000	Superseded	*Loader Arms	.....	1 1
	271/33000	.....	.....	.....	.....
7	1123/0021	Superseded	*:Pivot Boss	.....	4 4
	1121/0021	.....	.....	.....	2 2
8	1013/2017	.....	Cab Pivot Pin	.....	2 2
9	1305/3016	.....	Bolt	.....	2 2
10	1340/0003	.....	Nut	.....	2 2
11	206/67503	.....	Bush	.....	4 4
12	831/00030	Superseded	*Bush	.....	4 4
	831/00038	.....	.....	.....	.....
13	271/00511	.....	Snubbing Ring	.....	2 2
14	271/00505	.....	Lockdown Bolt	.....	2 2
15	271/22900	.....	Nut	.....	2 2
16	271/00506	.....	Pivot Pin	.....	2 2
17	271/00507	.....	Plug	.....	2 2
18	271/10500	.....	Buffer	.....	2 2
19	1305/0205	Superseded	*Bolt	.....	4 4
	1305/0202	.....	Bolt	1/2in. Long	A/R A/R
	1305/0204	.....	Bolt	3/4in. Long	A/R A/R
20	1411/0007	Deleted	Washer	.....	4 4
21	2103/0709	.....	Split Pin	.....	4 4
22	271/00509	.....	Safety Catch	.....	2 2
23	271/00510	.....	Retainer	.....	2 2
24A	814/00021	.....	Spring	R.H.	1 1
24B	814/00020	.....	Spring	L.H.	1 1
25	2101/0106	.....	Clevis Pin	.....	2 2
26	2103/0206	.....	Split Pin	.....	2 2
27	1305/3426	.....	Bolt	.....	2 2



# B 1-1 CHASSIS/ARMS

ISSUE 3

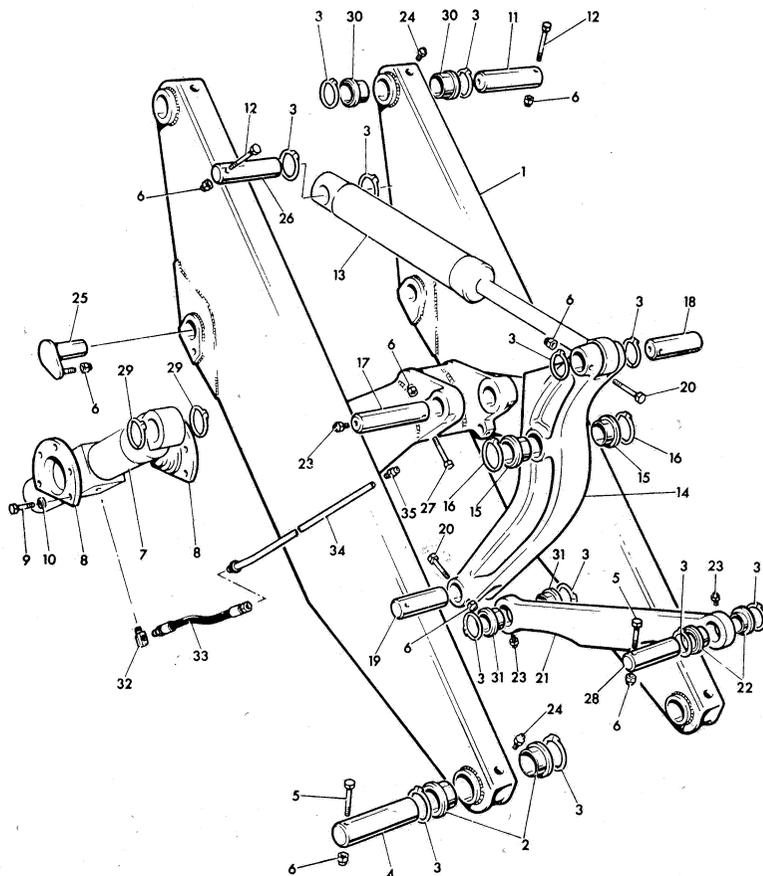
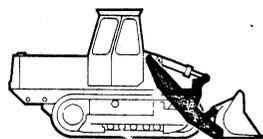


Item	Part No.	M/c No.	Description	Remarks	Quantity	
					112	114
28	1340/0403	.....	Nut	.....	2	2
29	1305/3022	.....	Bolt	.....	2	2
30	1340/0003	.....	Nut	.....	2	2
31	1411/0001	.....	Washer	.....	2	2
32	1411/0005	.....	Washer	.....	2	2
33A	271/31100	.....	*Lockdown	R.H. ....	1	1
33B	271/31200	.....	*Lockdown	L.H. ....	1	1
34	1305/3414	.....	*Bolt	.....	6	6
35	1340/0403	.....	*Nut	.....	6	6
36	823/00126	.....	*Washer	.....	12	12
37	271/26902	.....	*Spacer	3mm Thick	A/R	A/R



# B 2-1 LOADER ARM ASSEMBLIES

ISSUE 3



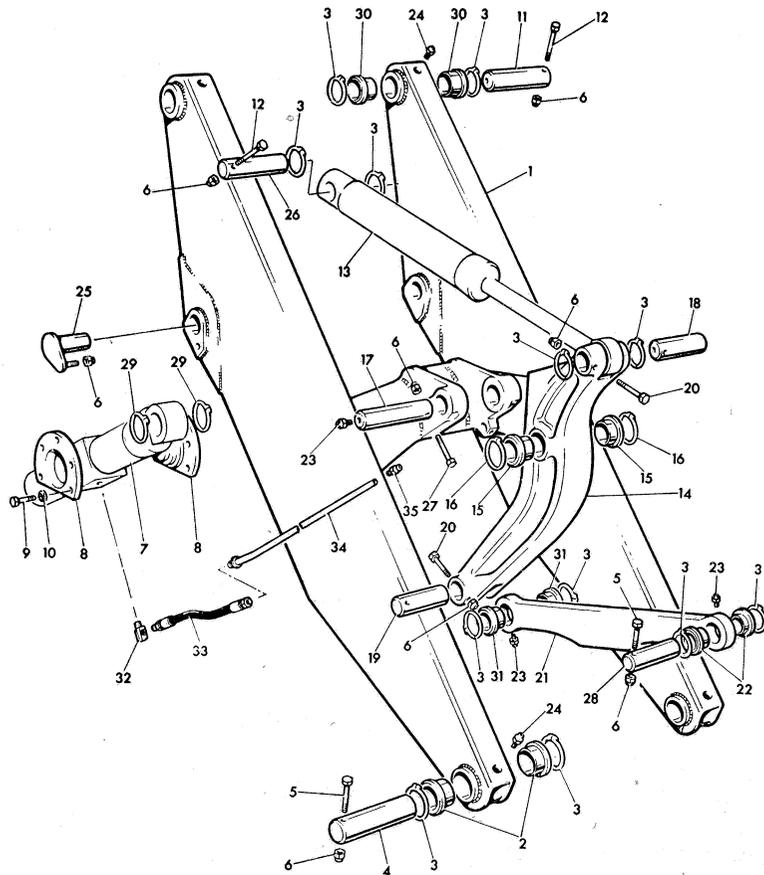
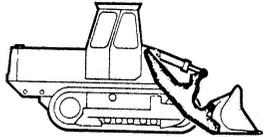
3514

Item	Part No.	M/c No.	Description	Remarks	Quantity
1	See Page B 1-1	.....	Arms	.....	1
2	809/00026	.....	Bush	.....	4
3	990/20800	.....	Seal Assembly	.....	16
4	1025/2005	.....	Pivot Pin	.....	2
5	1305/3434	.....	Bolt	.....	3
6	1340/0403	.....	Nut	.....	11
7	See Index E	.....	Lift Ram	.....	2
8	270/40403	.....	Trunnion	.....	4
9	1305/3614	.....	Bolt	.....	20
10	1411/0007	.....	Washer	.....	20
11	271/00402	.....	Pivot Pin	.....	2
12	1305/3430	.....	Bolt	.....	3
13	See Index E	.....	Bucket Ram	.....	1
14	271/00401 271/00407 808/00107	.....	Superseded * Tipping Lever Liner Bearing	.....	1 2
15	202/42900	.....	Seal Assembly	.....	2
16	1029/3810	.....	Pivot Pin	.....	1
17	271/00404	.....	* Pivot Pin	Correction was 1025/2004	1
18	1025/3804	.....	* Pivot Pin	Correction was 1025/2009- Not used.	1
19	1305/3432	.....	Bolt	.....	2
20	271/00405	.....	* Tipping Link	Correction was 271/00403- Not used	1
21	809/00040	.....	Liner Bearing	.....	2
22	1450/0001	.....	Grease Nipple 1/8in. B.S.P.	.....	2
23	1450/0002	.....	Grease Nipple 1/4in. B.S.P.	.....	4
24	270/42200	.....	Pivot Pin	.....	2
25	1025/2006	.....	Pivot Pin	.....	1
26	1305/3436	.....	Bolt	.....	1
27	1025/2002	.....	Pivot Pin	.....	1
28	990/20700	.....	Seal Assembly	.....	4
29	808/00112	.....	* Bush	Correction was 808/00102	4



# B 2-1 LOADER ARM ASSEMBLIES

ISSUE 2



Item	Part No.	M/c No.	Description	Remarks	Quantity
31	808/00109	.....	Bush	.....	2
32	109/11601	.....	Adapter-90°	.....	2
33	629/03200	.....	Grease Hose	.....	2
34	271/24300	.....	Pipe	.....	2
35	1450/0001	.....	Grease Nipple-1/8in. BSP	.....	2
36	828/00080	.....	*Blanking Plug (Loader Arms)	Not Illustrated	2

DO NOT SCALE

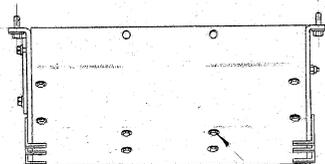
THIS DRAWING WILL BE MICROFILMED APPLY CORRECT DRAUGHTING TECHNIQUE

THIRD ANGLE PROJECTION

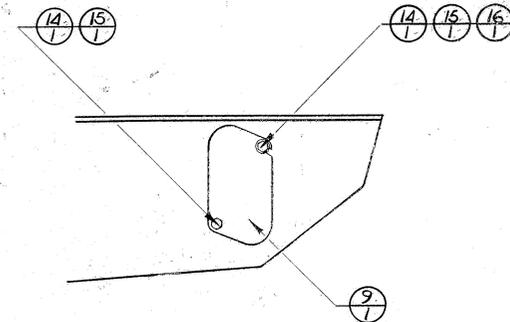
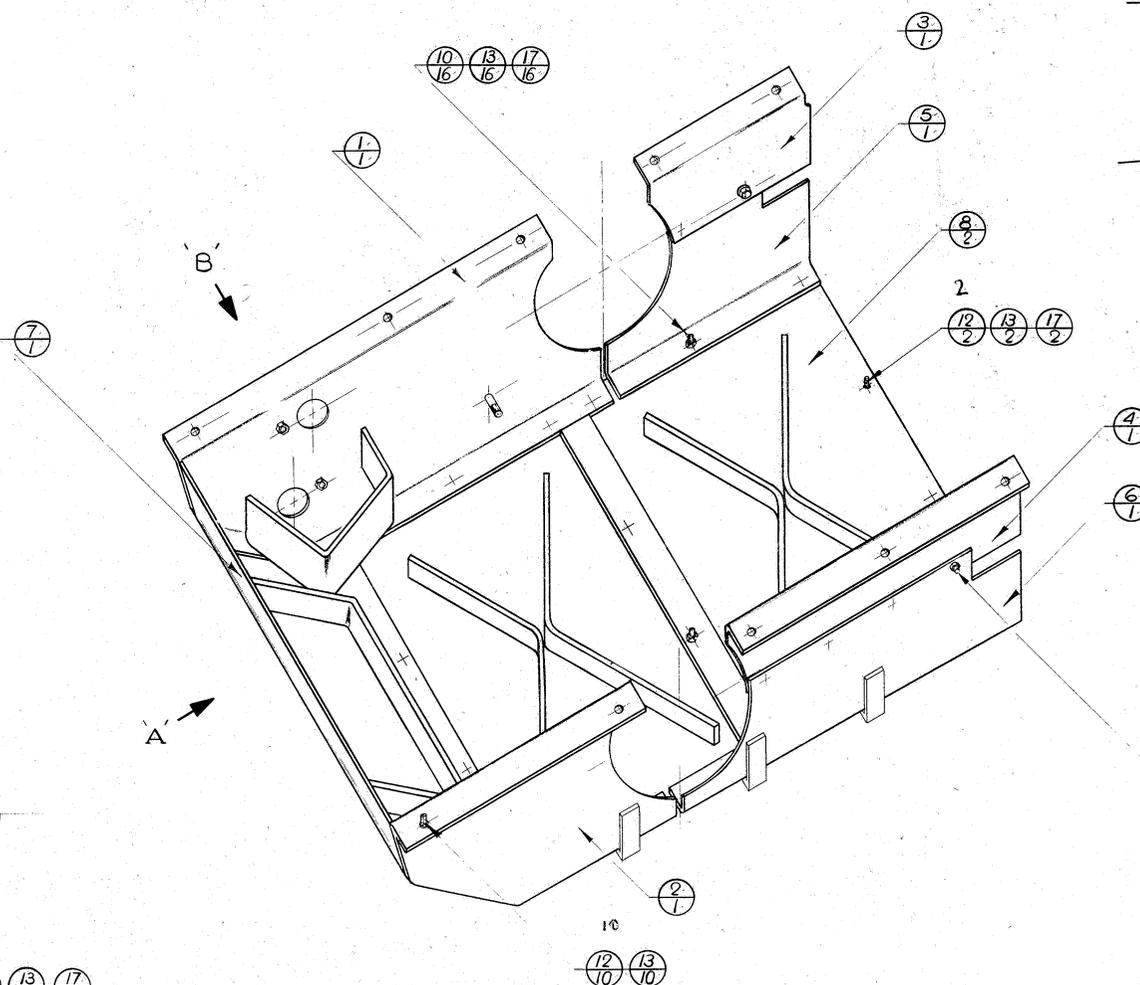
Pl. No. **W27/480**  
ISSUE **1** DRAWN DATE **12/1/77**  
NEW ISSUE

UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES

APPROX WT. 103.5 kg (227lb)



VIEW ON A



VIEW ON B

MICROFILM REFERENCE SCALE 0 50 100 150 200 MILLIMETRES

GEOMETRIC TOLERANCE SYMBOLS

STRAIGHTNESS	PROFILE OF A LINE	ANGULARITY	RUN OUT
PARALLELISM	CONCENTRICITY	POSITION	MAXIMUM MATERIAL CONDITION
SYMMETRY	DATUM	BASIC DIMENSION	

TOLERANCE FRAME

SYMBOL	TOLERANCE AT MMC AS REQUIRED
⓪	0.05
Ⓜ	A
Ⓜ	M
TOTAL TOLERANCE VALUE (PRECEDED BY ⓪ WHEN TOLERANCE ZONE IS CIRCULAR OR CYLINDRICAL)	

MACHINED SURFACES & MICROMETRE FINISHES SHOWN THUS

INSIGNIA	PART NO., MAT'L SPEC'N & MANUFACTURERS CODE TO BE PUT ON SURFACE SHOWN THUS
TOLERANCES TO BE AS SPECIFIED BELOW UNLESS OTHERWISE STATED.	
MACHINING	
LINEAR DIMENSIONS AND HOLE CENTRES	± 0.5mm
Holes up to 8mm DIA.	+0 -0.15mm
Holes over 8mm DIA.	+0 -0.2% OF DIA.
6.3 MICROMETRE FINISH ON MACHINED SURFACES	
0.075mm TOTAL INDICATOR READING ON MACHINED DIAMETERS	
TOTAL TOL. ZONE FOR FLATNESS 0.1% OF LONGEST SURFACE LENGTH	
1 IN 2000 STRAIGHTNESS ON SHAFTS AND PINS	

WELDING SYMBOLS TO BS 499

OTHER SYMBOLS TO BS 308	
TOLERANCES TO BE AS SPECIFIED BELOW UNLESS OTHERWISE STATED.	
FABRICATIONS	
DETAILS	ASSEMBLIES
0-500mm	± 1mm
OVER 500-2000mm	± 1.5mm
2000mm AND OVER	± 3mm
ANGLES	± 1°

HEAT TREATMENT:

USED ON	27/00200/272/00200
DRAWN	RC/SL
DATE	12-1-77
CHECKED	
SUPERSEDES	
SUPERSEDED BY	

MATERIAL:

--	--

TITLE GA. BELLYPLATES 112/114

J.C. SAMFORD EXCAVATORS LTD.

ROCESTER STAFFS ENGLAND

SCALE DRAWING NUMBER  
A0 NTS 271/39800



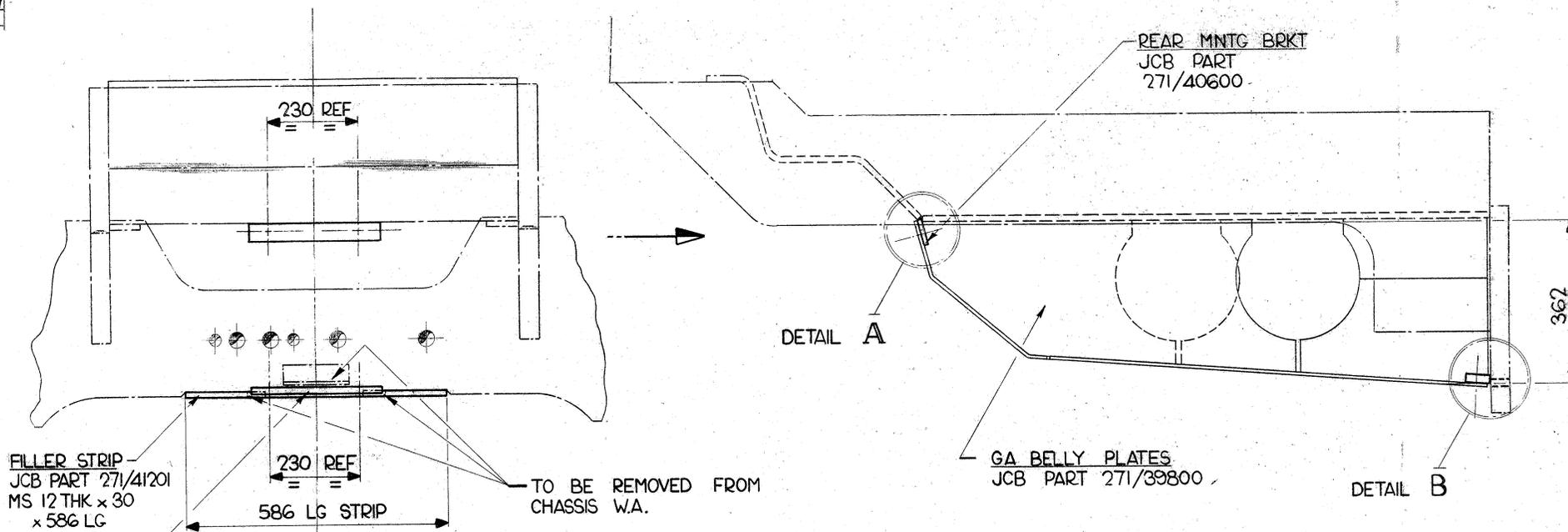
DO NOT SCALE

THIS DRAWING WILL BE MICROFILMED. APPLY CORRECT DRAUGHTING TECHNIQUE

THIRD ANGLE PROJECTION

PL. NO	N 271/480
ISSUE	DATE
	12.1.77
ISSUE	

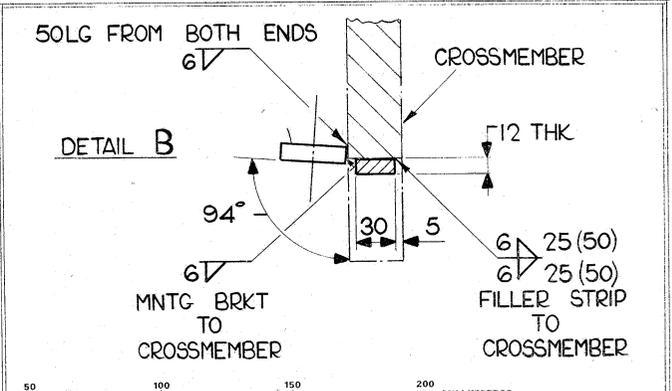
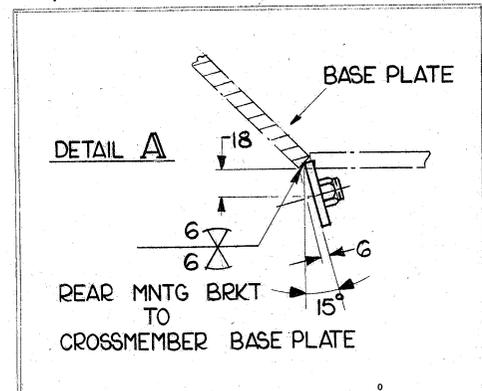
UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES



FILLER STRIP  
JCB PART 271/41201  
MS 12 THK x 30  
x 586 LG

MNTG BRKT  
JCB PART  
270/53704

TO BE REMOVED FROM  
CHASSIS W.A.



SERVICE SCHEME TO REPLACE GA BELLY PLATES  
JCB PART 271/21400 BY LATEST ISSUE 271/39800

- ① 2 OFF EXISTING SUPPORT LUGS (270/3350) TO BE REMOVED FROM CHASSIS W.A
- ② REMOVE 1 OFF STOP (270/11138) IF REQUIRED
- ③ WELD MNTG BRKT \*270/53704 TO CROSSMEMBER AND FILL IN CUTOUT AS DETAIL 'B'
- ④ WELD REAR MNTG BRKT 271/40600 TO REAR OF CHASSIS W.A AS DETAIL 'A'
- ⑤ FIT GA BELLY PLATES 271/39800

MICROFILM REFERENCE SCALE 0 50 100 150 200 MILLIMETRES

GEOMETRIC TOLERANCE SYMBOLS		TOLERANCE FRAME	
— STRAIGHTNESS	□ FLATNESS	○ ROUNDNESS	
⊙ CYLINDRICITY	⌒ PROFILE OF A LINE	⌒ PROFILE OF A SURFACE	
∥ PARALLELISM	⊥ SQUARENESS	∠ ANGULARITY	
⊕ POSITION	⊙ CONCENTRICITY	≡ SYMMETRY	
↗ RUN OUT	⓪ BASIC DIMENSION	Ⓜ DATUM	

MACHINING		FABRICATIONS	
MACHINED SURFACES & MICROMETRE FINISHES SHOWN THUS ✓ WELDING SYMBOLS TO BS499 OTHER SYMBOLS TO BS308. INSIGNIA: [Symbol] & PART NO., MAT'L SPEC'N & MANUFACTURERS CODE TO BE PUT ON SURFACE SHOWN THUS ⊕			
TOLERANCES TO BE AS SPECIFIED BELOW UNLESS OTHERWISE STATED			
LINEAR DIMENSIONS AND HOLE CENTRES ± 0.5mm		DETAILS	
DRILLED HOLES UP TO 8mm DIA. +0 +0.16mm		0-500mm ± 1mm	0-1000mm ± 1.5mm
DRILLED HOLES OVER 8mm DIA. +0 +2% OF DIA. ANGLES ± 0.5°		OVER 500-2000mm ± 1.5mm	OVER 1000-2000mm ± 3mm
63 MICROMETRE FINISH ON MACHINED SURFACES		2000mm AND OVER ± 3mm	2000mm AND OVER ± 5mm
0.1mm TOTAL INDICATOR READING ON MACHINED DIAMETERS		ANGLES ± 1°	ANGLES ± 1°
TOTAL TOL. ZONE FOR FLATNESS 0.1% OF LONGEST SURFACE LENGTH			
1 IN 2000 STRAIGHTNESS ON SHAFTS AND PINS			

MATERIAL:		
HEAT TREATMENT:		
USED ON		
DRAWN	DATE	CHECKED
R. CARTER	28-1-77	
SUPERSEDES	SUPERSEDED BY	MICROFILMED AT ISSUE

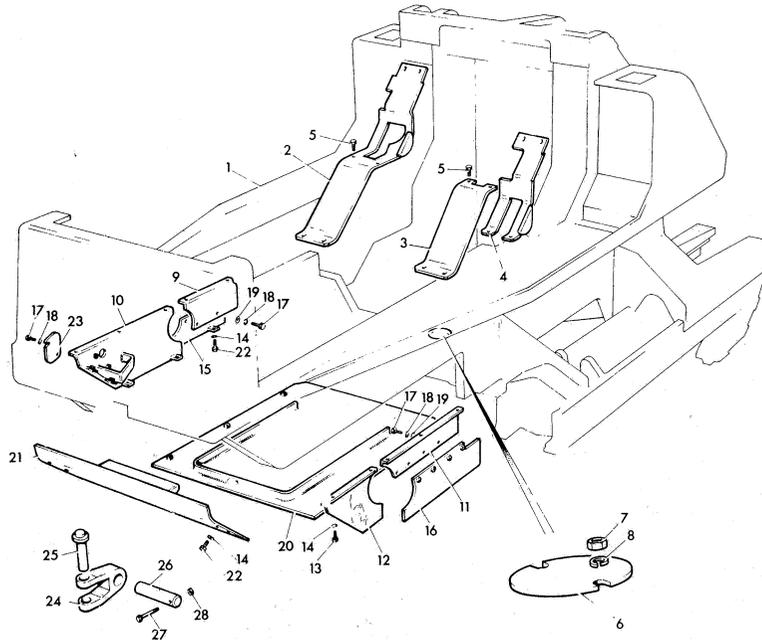
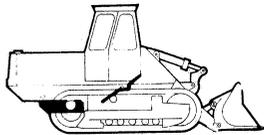
TITLE: BELLY PLATE REPLACEMENT SERVICE SCHEME 112/114	
J. C. BAMFORD EXCAVATORS LTD.	
ROCESTER, STAFFS, ENGLAND.	
SCALE	DRAWING NUMBER
1-5 1-2	271/41200

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# B 3-1 CHASSIS COVER PLATES

ISSUE 3\*

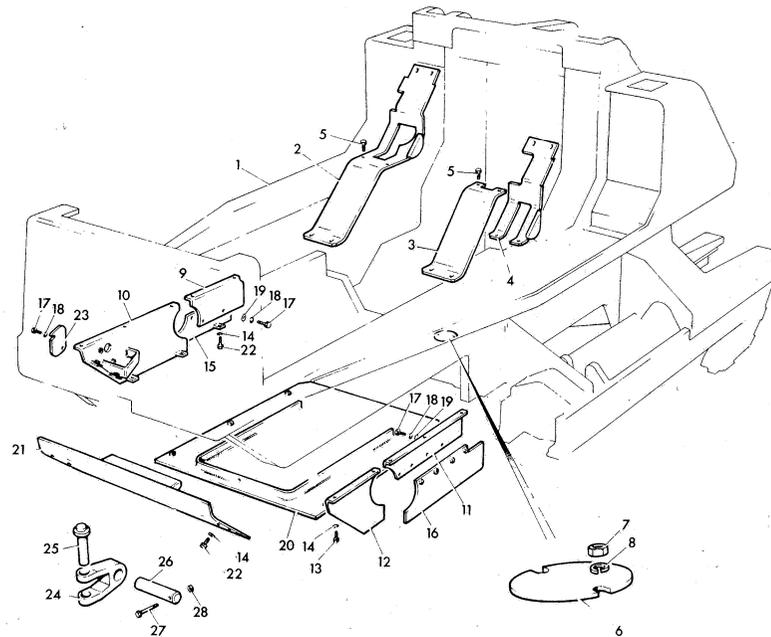
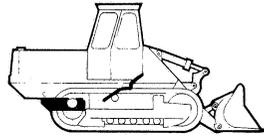


ITEM	PART No.	CHANGE No.	DESCRIPTION	REMARKS	QTY.	
					112	114
1	See Index B	.....	Chassis	.....	1	1
2	271/00206	.....	Cover	.....	1	
	272/00202	.....	Cover	.....		1
3	271/00204	.....	Cover	.....	1	
	272/00201	.....	Cover	.....		1
4	271/00205	.....	Cover	.....	1	1
5	1305/0003	.....	Bolt	.....	14	14
6	270/00246	.....	Cover	.....	1	1
7	1340/0203	.....	Nut	.....	2	2
8	1413/0003	.....	Washer	.....	2	2
9	271/21401	.....	Sideplate	.....	1	1
10	271/04200	M85032-112 M90040-114	*Sideplate	.....	1	1
	271/39900					
11	271/21402	.....	Sideplate	.....	1	1
12	271/04100	M85032-112 M90049-114	*Sideplate	.....	1	1
	271/40000					
13	1305/0406	M85032-112 M90049-114	*Bolt	.....	10	10
	1305/0406				12	12
14	1416/0008	M85032-112 M90049-114	*Spring Washer	.....	20	20
	1416/0008				34	34
15	271/21500	M85032-112 M90049-114	*Sideplate	.....	1	1
	271/40100					
16	271/21600	M85032-112 M90049-114	*Sideplate	.....	1	1
17	1305/0208	.....	Bolt	.....	8	8
18	1416/0006	.....	Spring Washer	.....	8	8



# B 3-1 CHASSIS COVER PLATES

ISSUE **1\***



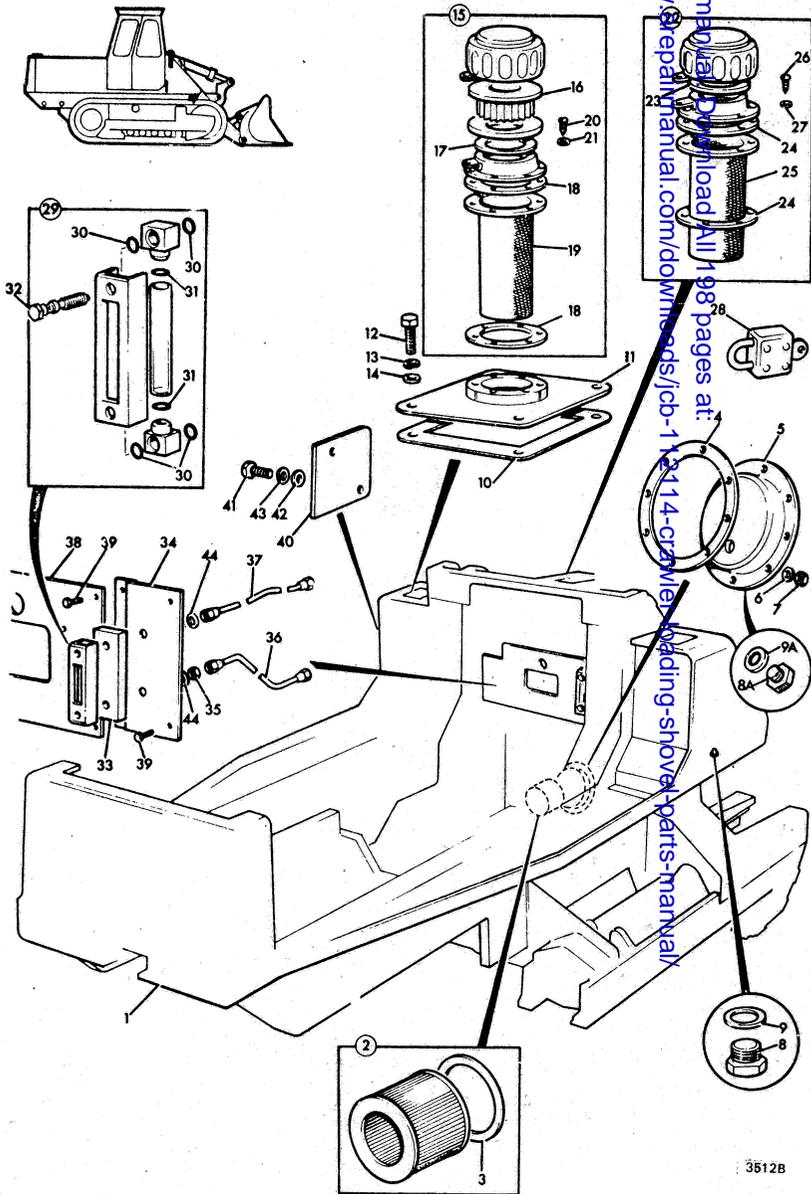
ITEM	PART No.	CHANGE No.	DESCRIPTION	REMARKS	QTY.	
					112	114
19	1411/0003	.....	Washer	.....	7	7
20	271/04000	M85032-112	*Baseplate	.....	1	1
	271/40400	M90049-114			2	2
21	271/21404	M80532-112	*End Plate	.....	1	1
	271/40500	M90049-114				
22	1305/0410	M85032-112	*Bolt	.....	10	10
	1305/0410	M90049-114			22	22
23	271/21403	.....	Cover Plate	.....	1	1
24	270/00205	.....	Towing Lug	.....	1	1
25	911/05400	.....	Pin	.....	1	1
26	1019/2024	.....	Pivot Pin	.....	1	1
27	1305/3426	.....	Bolt	.....	1	1
28	1340/0403	.....	Nut	.....	1	1
29	1411/0005	.....	*Washer	.....	24	24

1	2	3	4	5	6																				
<b>DO NOT SCALE</b>		<b>THIS DRG. WILL BE MICROFILMED.</b>		<b>APPLY CORRECT DRAUGHTING TECHNIQUE</b>																					
<b>THIRD ANGLE PROJECTION</b>																									
<b>P.I. N°</b> P271/453 <b>ISSUE</b> 1 <b>DRAWN</b> K.G.S. <b>DATE</b> 24-3-76 <b>NEW ISSUE</b> <b>P.I. N°</b> P271/574 <b>2</b> MJE 1.79 0.3 WAS 0.5 (ZONE 6B)		<b>UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES</b>																							
NOTE: TO BE DEBURRED PRIOR TO APPLICATION OF PLASTIC COATING. TO BE COATED WITH BLACK 'RILSAN' NYLON 11 AVERAGE THICKNESS 0.3 DEVELOPED WIDTH 74.5																									
MICROFILM REFERENCE SCALE 0 50 100 MILLIMETRES																									
<b>MACHINED SURFACES &amp; MICROMETRE FINISHES SHOWN THUS</b> <b>WELDING SYMBOLS TO BS499 OTHER SYMBOLS TO BS 308.</b> <b>INSIGNIA: -</b> <b>&amp; PART NO., MAT'L SPEC'N &amp; MANUFACTURERS CODE TO BE PUT ON SURFACE SHOWN THUS</b>			<b>MATERIAL:</b> MILD STEEL SHEET 1.6 THK. TO BS 1449 USED ON 271/23600		<b>TITLE:</b> ADAPTOR SURROUND																				
<b>TOLERANCES TO BE AS SPECIFIED BELOW UNLESS OTHERWISE STATED.</b>																									
<b>MACHINING</b>			<b>FABRICATIONS</b>																						
LINEAR DIMENSIONS AND HOLE CENTRES ± 0.5mm DRILLED HOLES UP TO 8mm DIA. +0 +0.16mm DRILLED HOLES OVER 8mm DIA. +0 +2% OF DIA. ANGLES ± 0.5° 6.3 MICROMETRE FINISH ON MACHINED SURFACES 0.1mm TOTAL INDICATOR READING ON MACHINED DIAMETERS. TOTAL TOL. ZONE FOR FLATNESS 0.1% OF LONGEST SURFACE LENGTH 1 IN 2000 STRAIGHTNESS ON SHAFTS AND PINS.			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DETAILS</th> <th colspan="2">ASSEMBLIES</th> </tr> </thead> <tbody> <tr> <td>0-500mm</td> <td>± 1mm</td> <td>0-1000mm</td> <td>± 1.5mm</td> </tr> <tr> <td>OVER 500-2000mm</td> <td>± 1.5mm</td> <td>OVER 1000-2000mm</td> <td>± 3mm</td> </tr> <tr> <td>2000mm AND OVER</td> <td>± 3mm</td> <td>2000mm AND OVER</td> <td>± 5mm</td> </tr> <tr> <td>ANGLES</td> <td>± 1°</td> <td>ANGLES</td> <td>± 1°</td> </tr> </tbody> </table>		DETAILS		ASSEMBLIES		0-500mm	± 1mm	0-1000mm	± 1.5mm	OVER 500-2000mm	± 1.5mm	OVER 1000-2000mm	± 3mm	2000mm AND OVER	± 3mm	2000mm AND OVER	± 5mm	ANGLES	± 1°	ANGLES	± 1°	<b>J.C. BAMFORD</b> <b>EXCAVATORS LTD.</b>  <b>ROCESTER. STAFFS. ENGLAND.</b>
DETAILS		ASSEMBLIES																							
0-500mm	± 1mm	0-1000mm	± 1.5mm																						
OVER 500-2000mm	± 1.5mm	OVER 1000-2000mm	± 3mm																						
2000mm AND OVER	± 3mm	2000mm AND OVER	± 5mm																						
ANGLES	± 1°	ANGLES	± 1°																						
<b>THIS DRAWING IS THE PROPERTY OF J.C. BAMFORD EXCAVATORS LTD. &amp; MUST NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT.</b>			<b>DRAWN</b> K.G.S. SHERIFF <b>DATE</b> 24-3-76 <b>CHECKED</b>	<b>SUPERSEDES</b> <b>SUPERSEDED BY</b> <b>M/F AT ISSUE</b> 2	<b>SCALE</b> A3 1:1 <b>DRAWING NUMBER</b> 271/23604																				
1	2	3	4	5	6																				



# B 4-1 TANK FITTINGS

ISSUE 4\*



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Item	Part No.	M/c No.	Description	Remarks	Quantity
					<b>112 114</b>
1	See Index B	.....	Chassis	.....	1 1
2	106/73701	.....	Filter	.....	1 1
3	990/00045	.....	:Seal	.....	1 1
4	270/00260	.....	Gasket	.....	1 1
5	270/00259	.....	Cover	.....	1 1
6	1411/0005	.....	Washer	.....	8 8
7	1340/0403	.....	Nut	.....	8 8
8	892/00057	.....	*Drain Plug	Was G8/D	3 3
8A	892/00057	.....	*Drain Plug	Was G8/D	1 1
9	1411/0003	.....	Washer	.....	3 3
9A	1406/0018	.....	Bonded Washer	.....	1 1
10	270/00215	.....	Gasket	.....	2 2
11	270/60600	.....	Cover	.....	2 2
12	1305/0206	.....	Bolt	.....	8 8
13	1416/0006	.....	Spring Washer	.....	8 8
14	1411/0003	.....	Washer	.....	8 8
15	32/900200	.....	Filler Cap Assembly	Fuel	2 2
16	N.S.P.	.....	:Element	.....	1 1
17	N.S.P.	.....	:Gasket	.....	1 1
18	32/900103	.....	:Gasket	.....	2 2
19	N.S.P.	.....	:Strainer	.....	1 1
20	32/900105	.....	:Screw	.....	6 6
21	813/00128	.....	:Seal	.....	6 6
22	32/900100	.....	Filler Cap Assembly	Hydraulic	1 1
23	N.S.P.	.....	:Gasket	.....	1 1
24	32/900103	.....	:Gasket	.....	2 2
25	N.S.P.	.....	:Strainer	.....	1 1
26	32/900105	.....	:Screw	.....	6 6
27	813/00128	.....	:Seal	.....	6 6
28	104/72806	.....	Padlock	.....	3 3
29	271/30500	.....	Sight Gauge	.....	1 1
30	2401/0103	.....	:O' Ring	.....	4 4

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