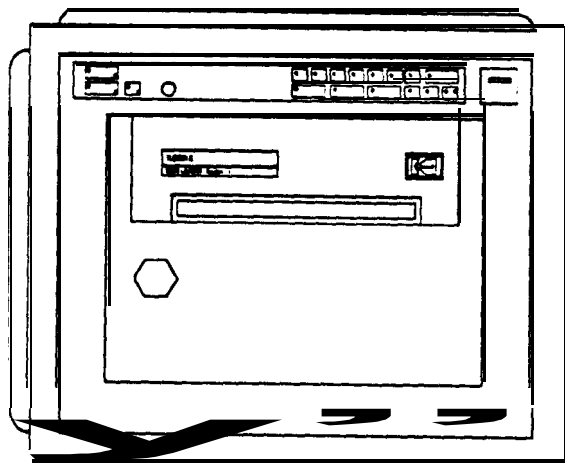


# KODAK

## MINILOADER Model 1



Part List  
**PL3211/3212**



KODAK LIMITED  
August 1991

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Please order by Part Number

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Please order by Part Number

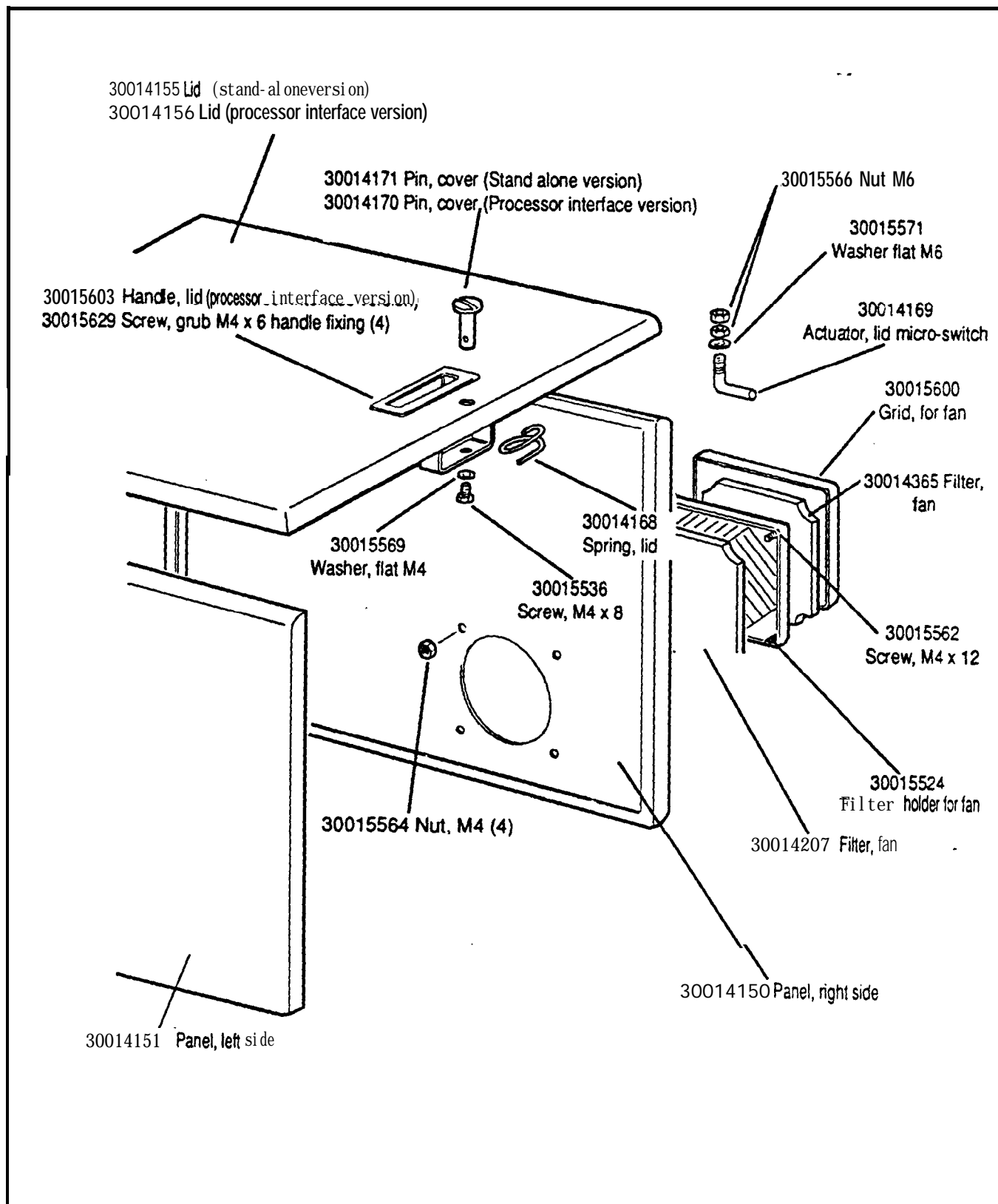
## Miniloader Parts List

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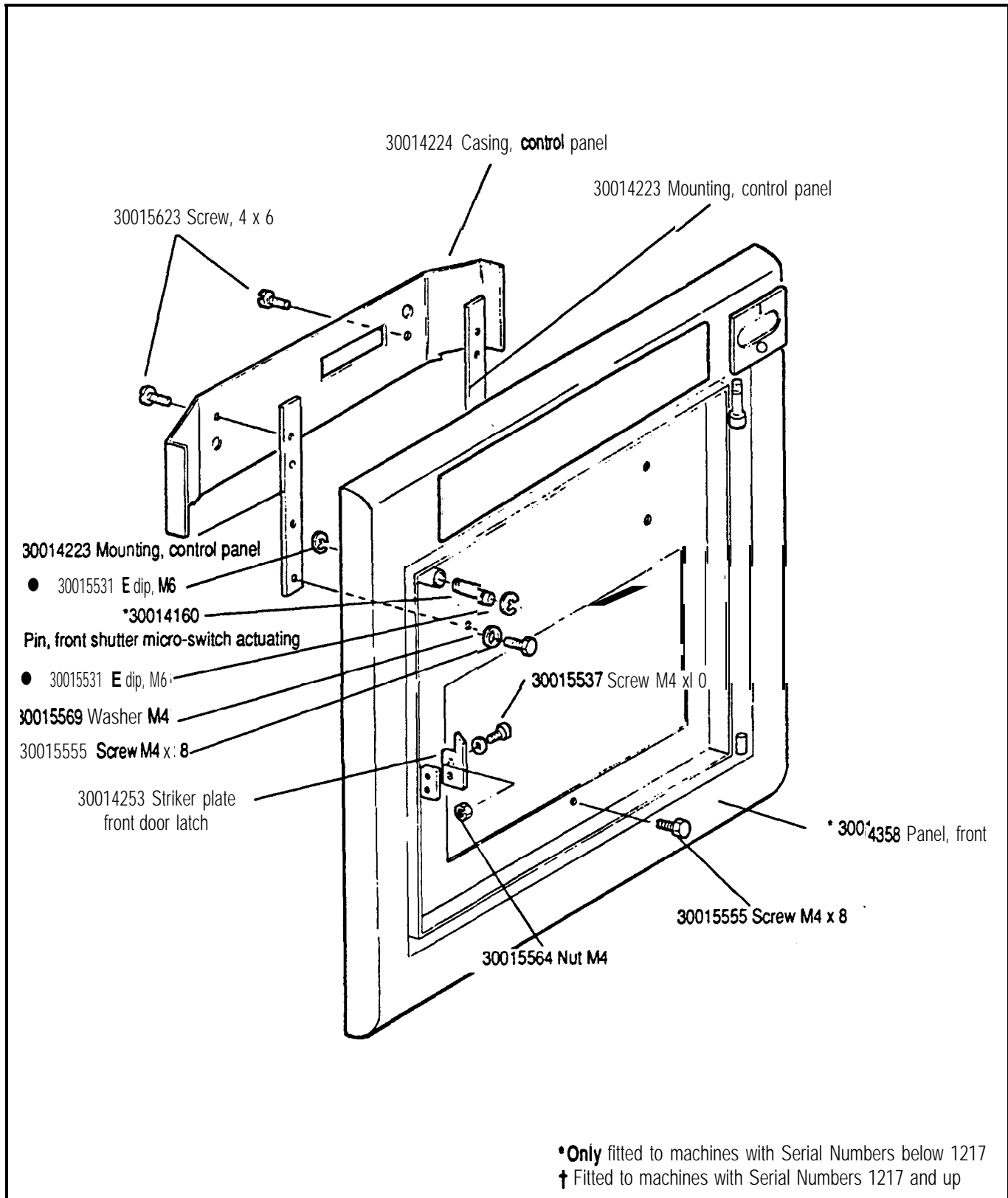
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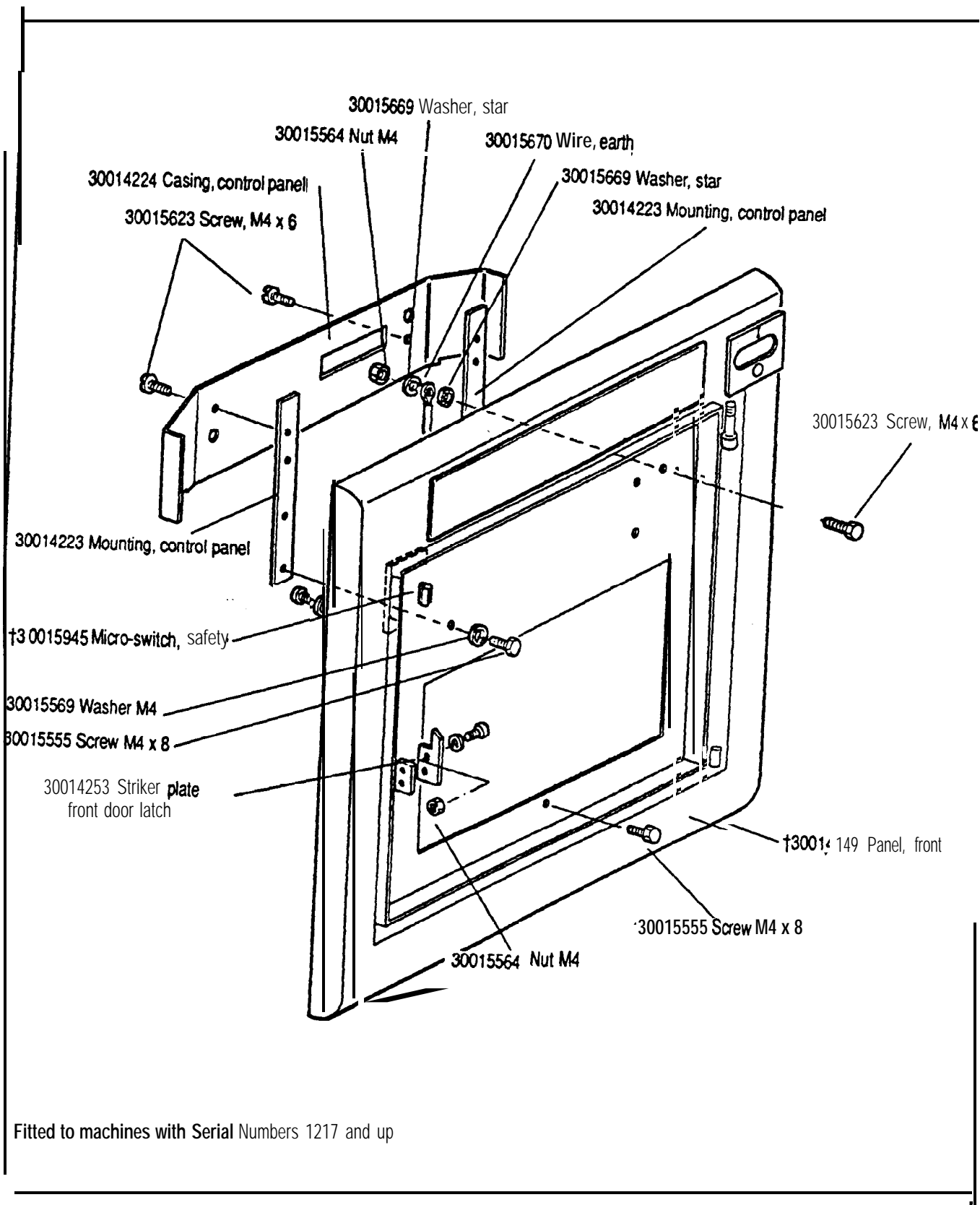
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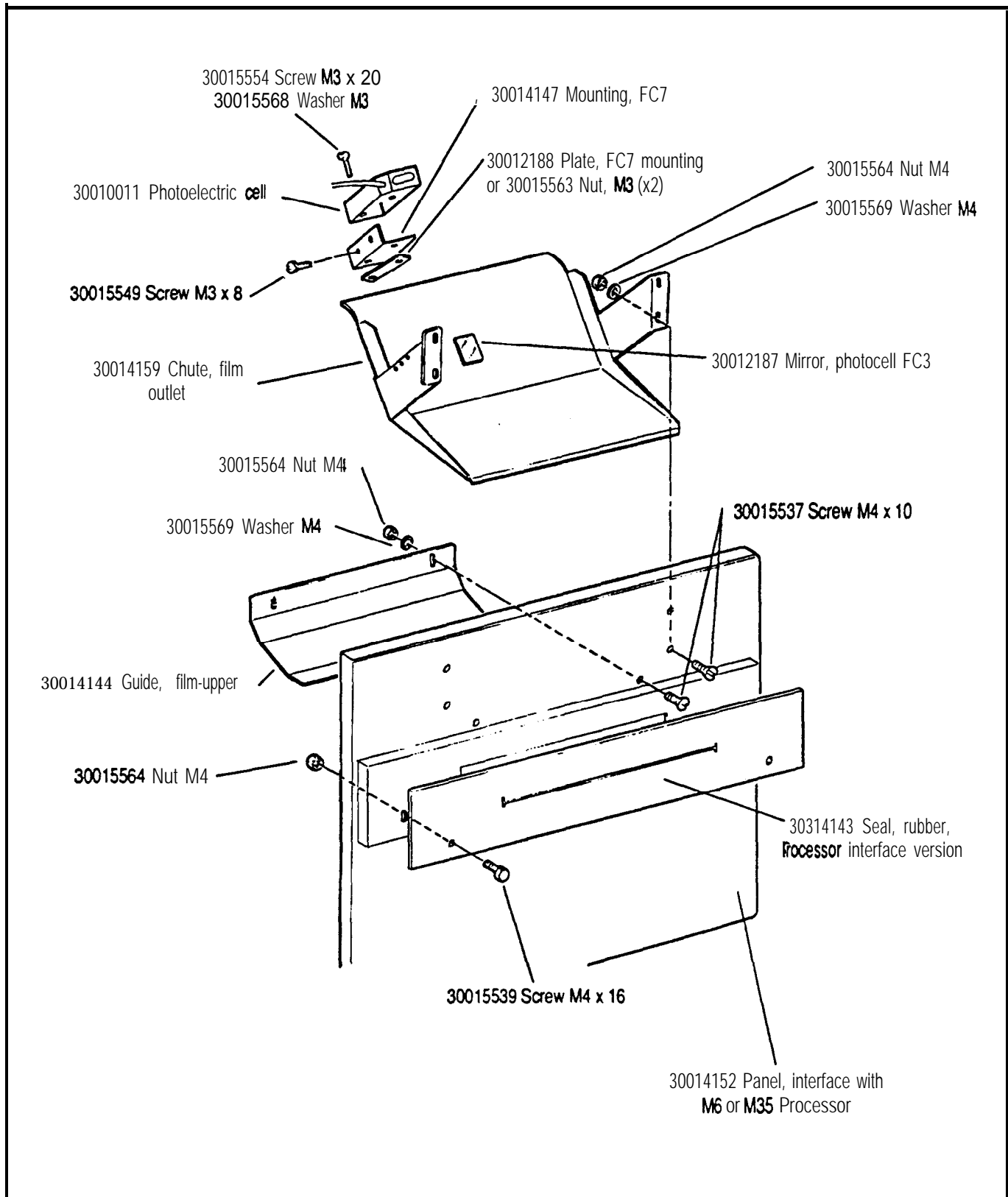
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Please order by Part Number

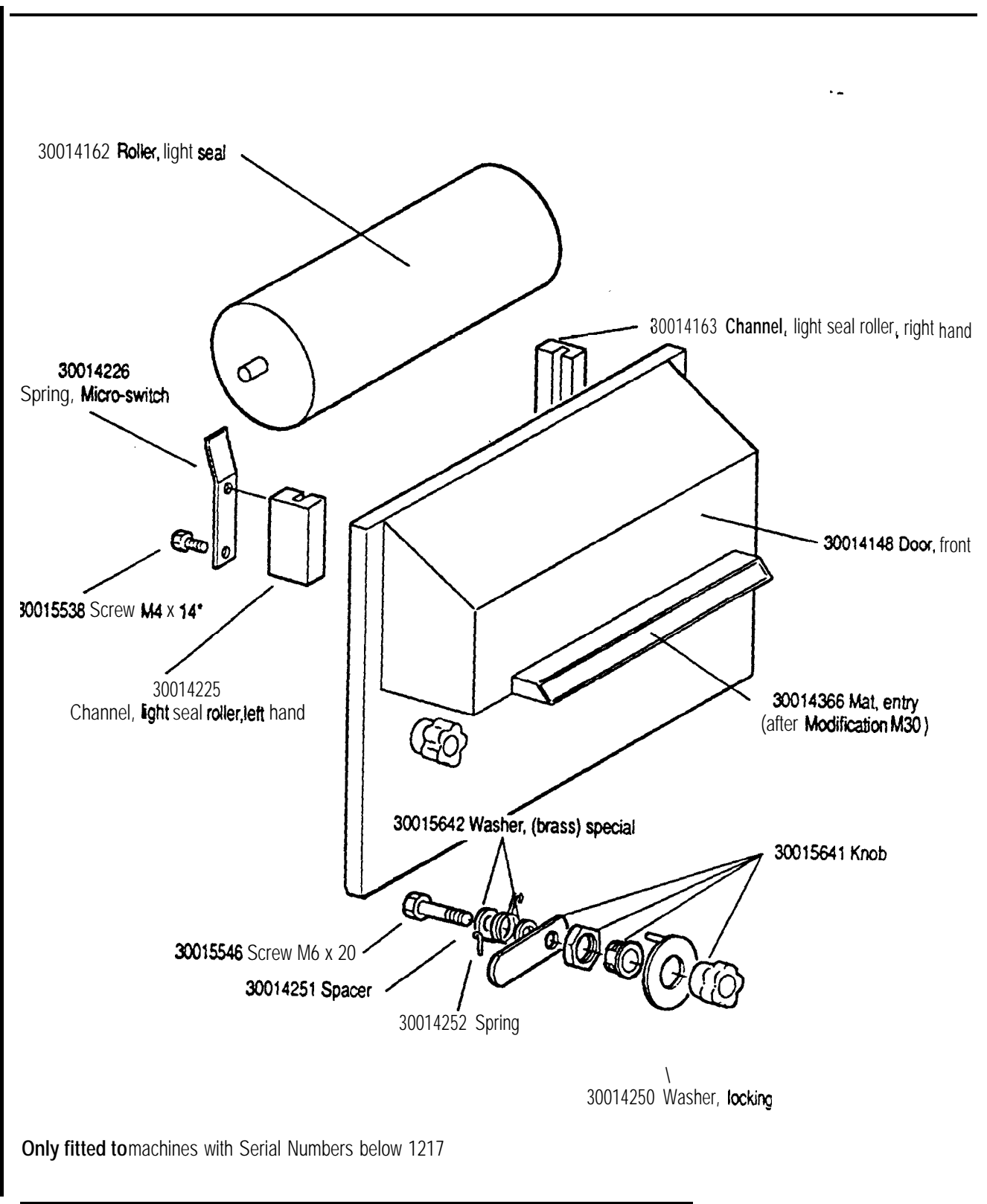


Please order by Part Number

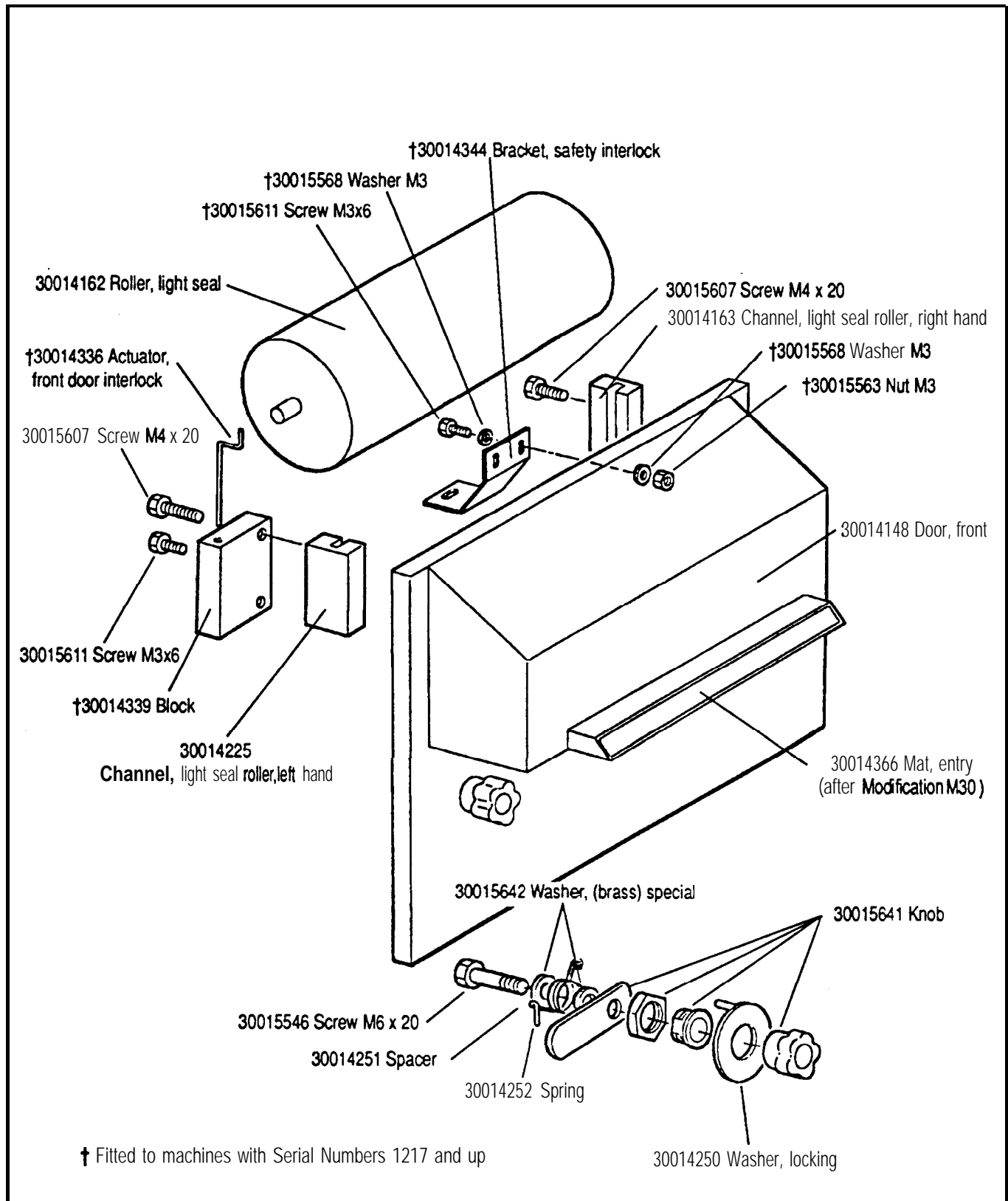


Please order by Part Number

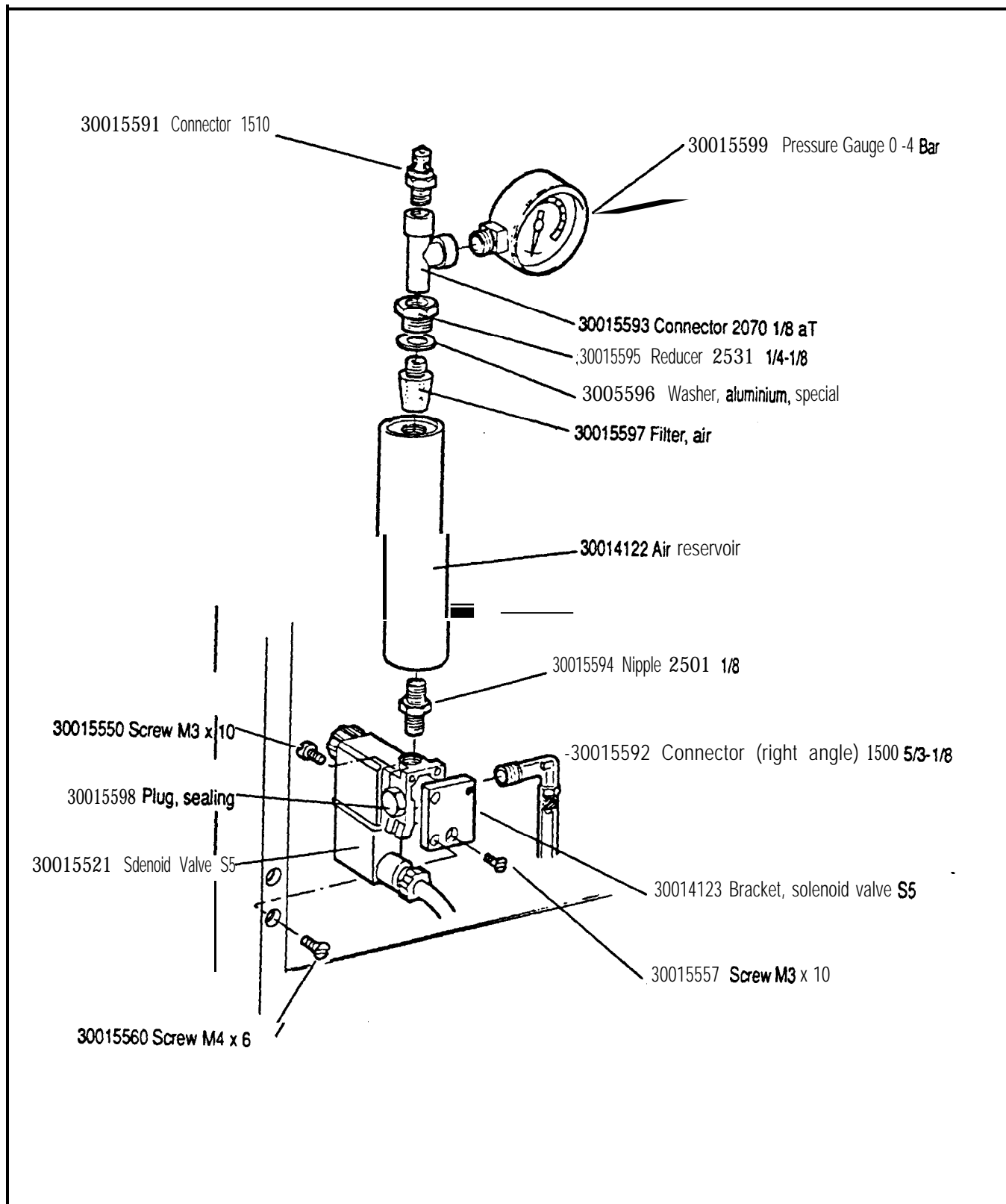




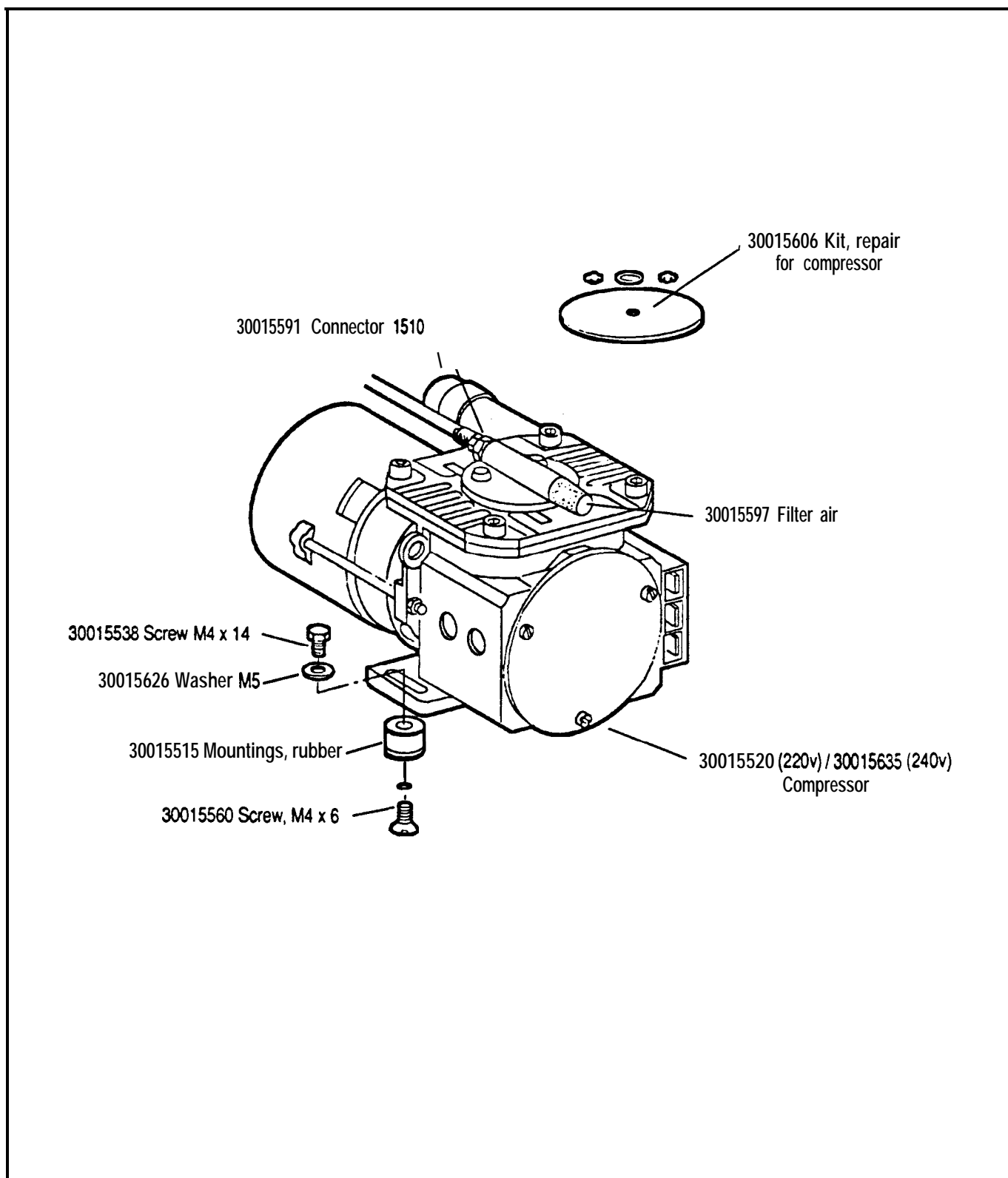
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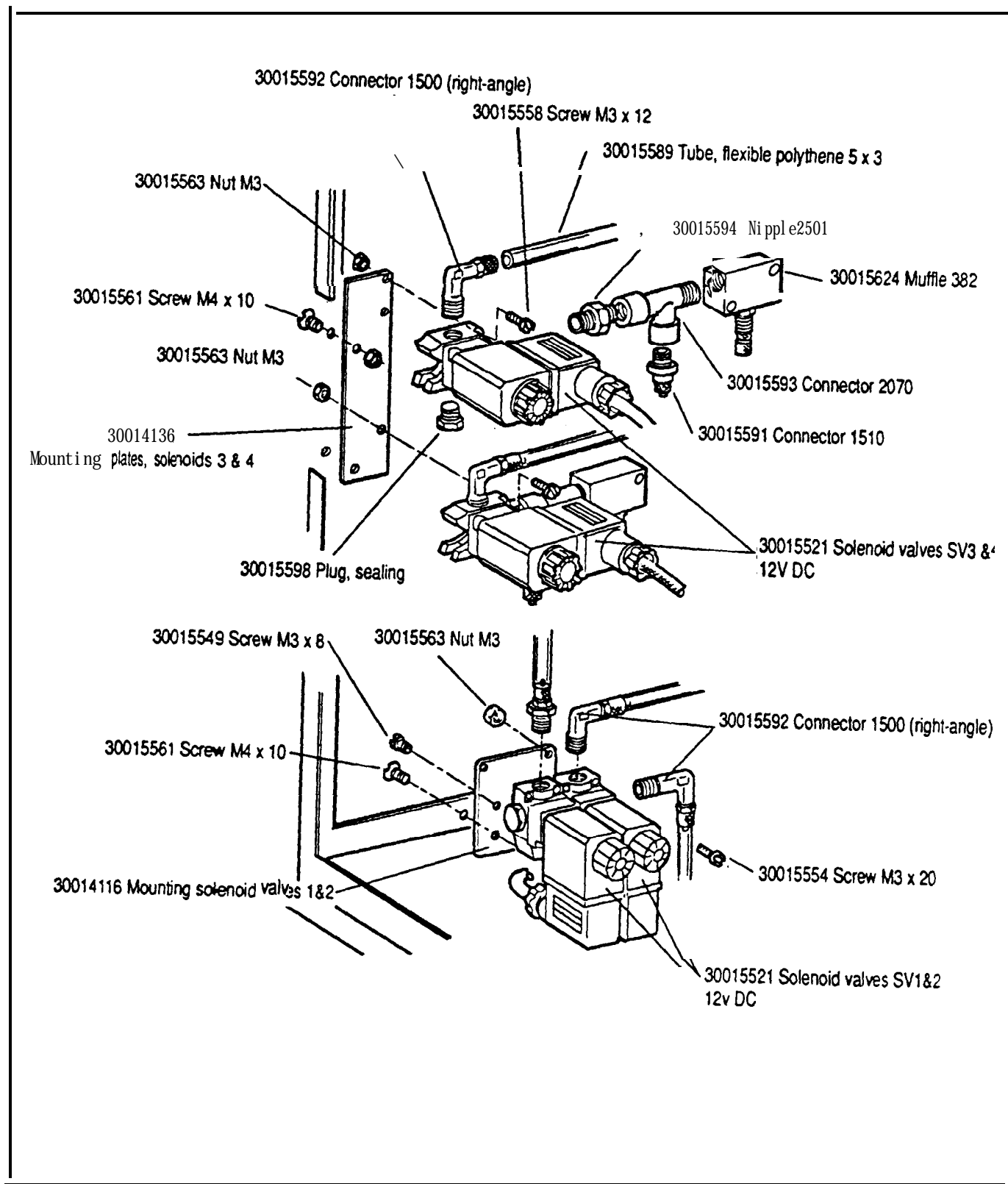
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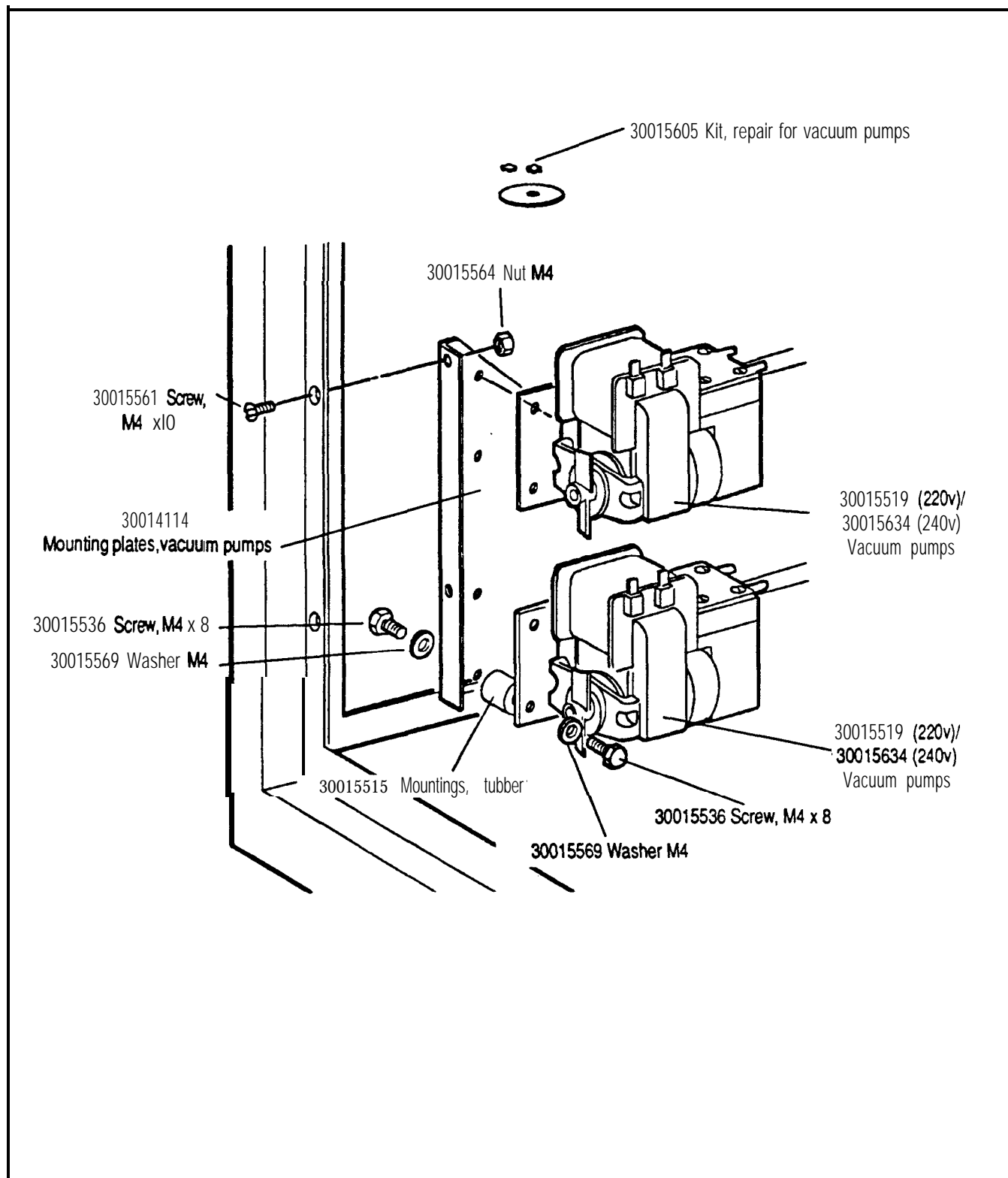
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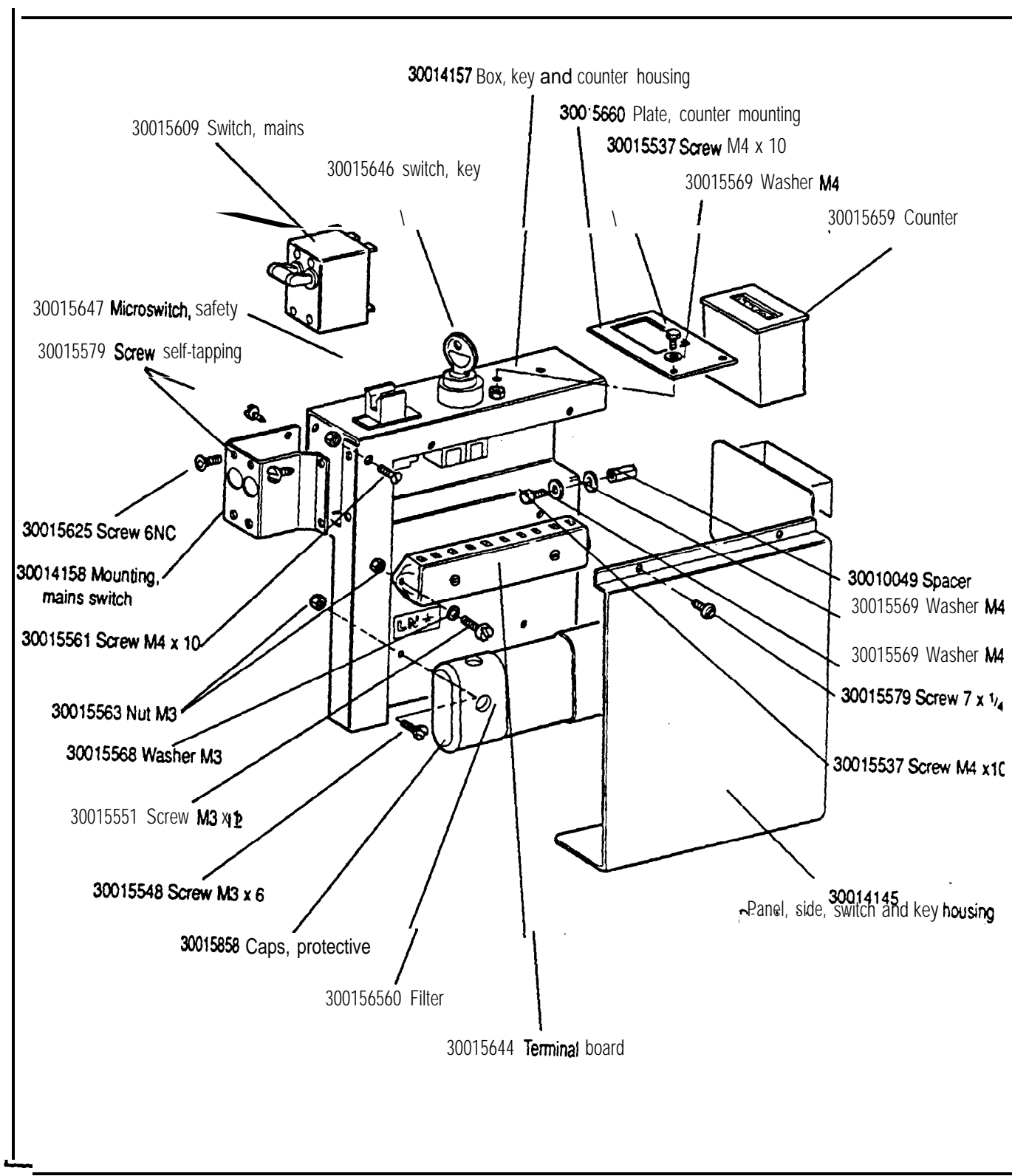
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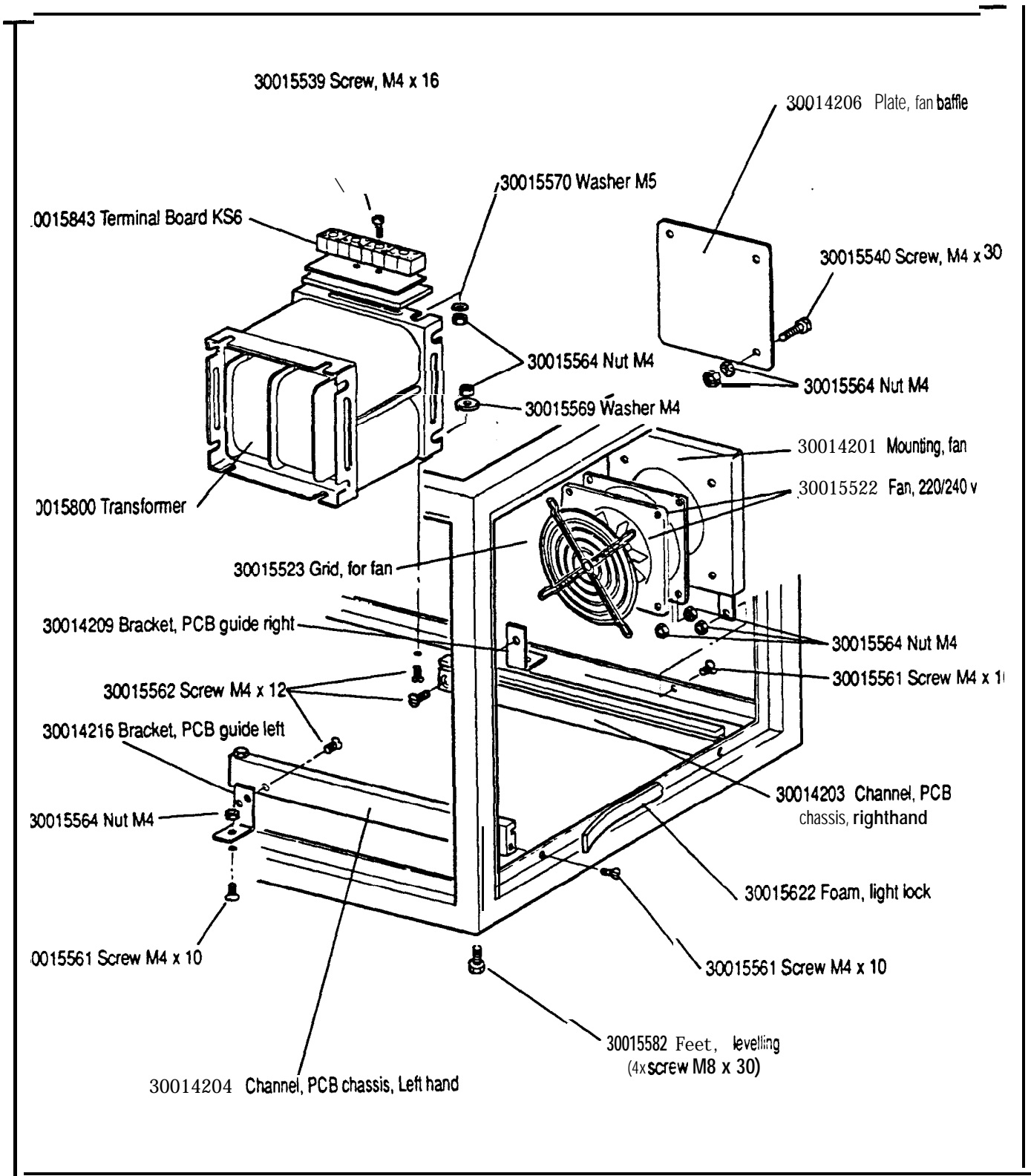
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Please order by Part Number

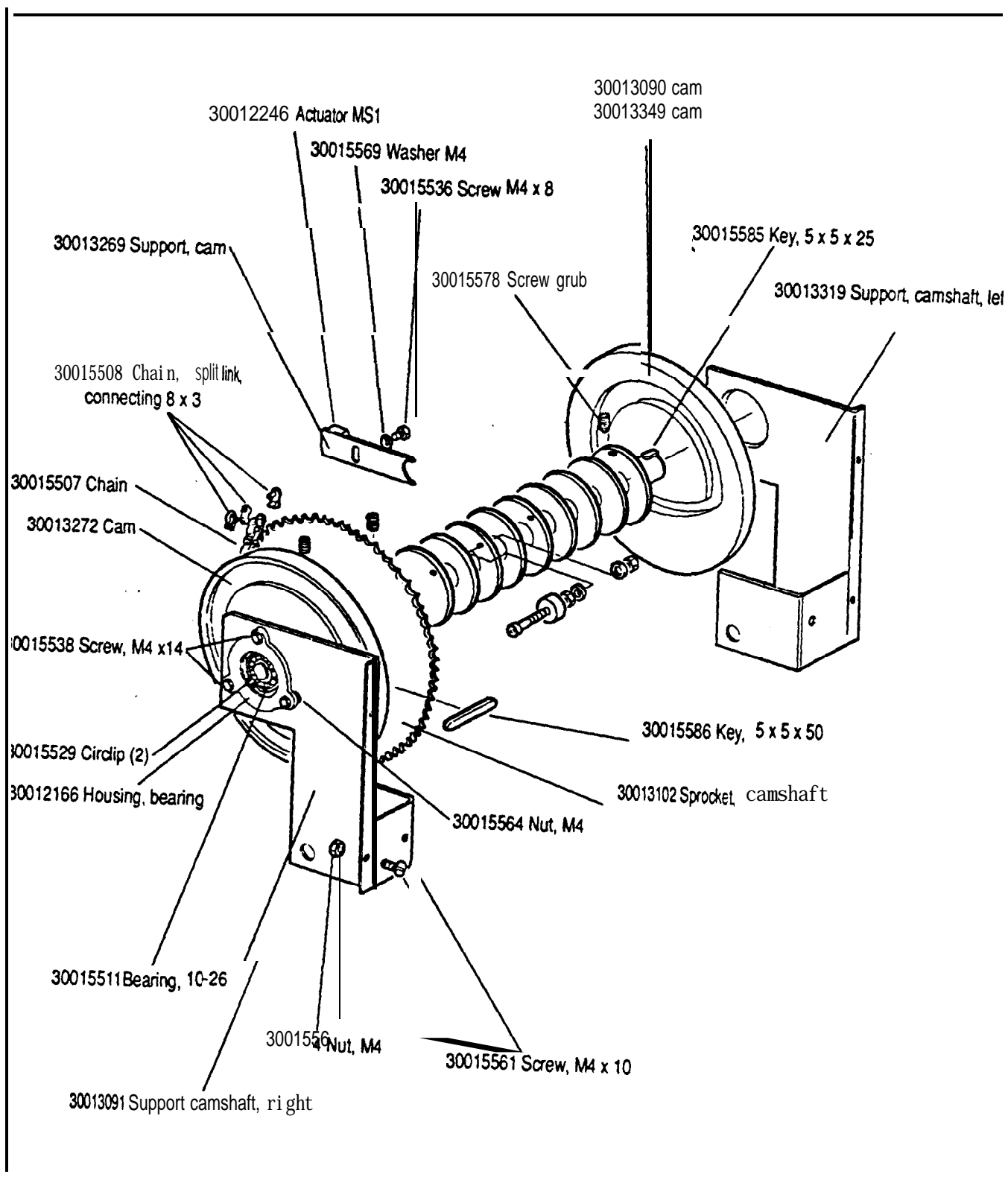


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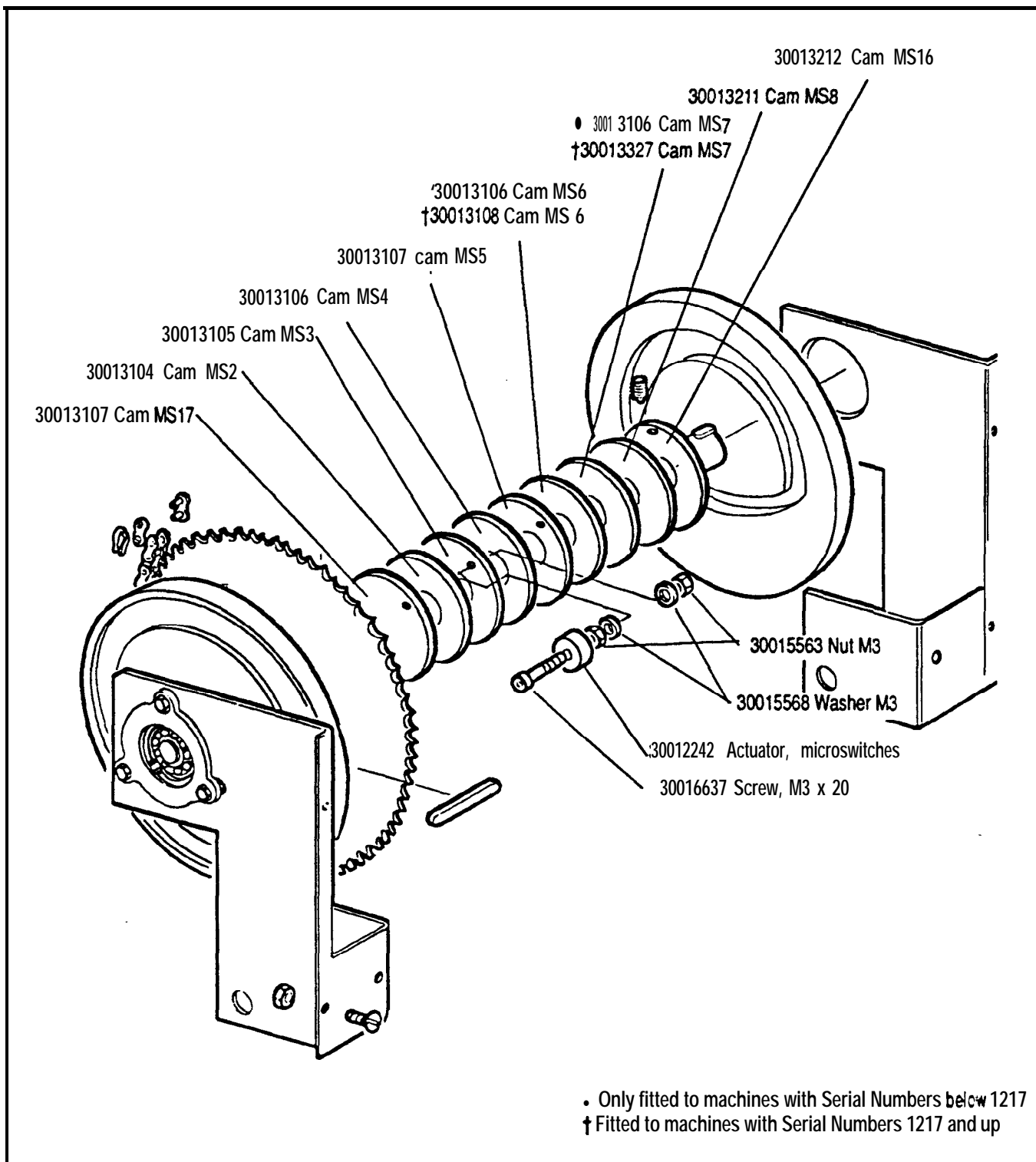
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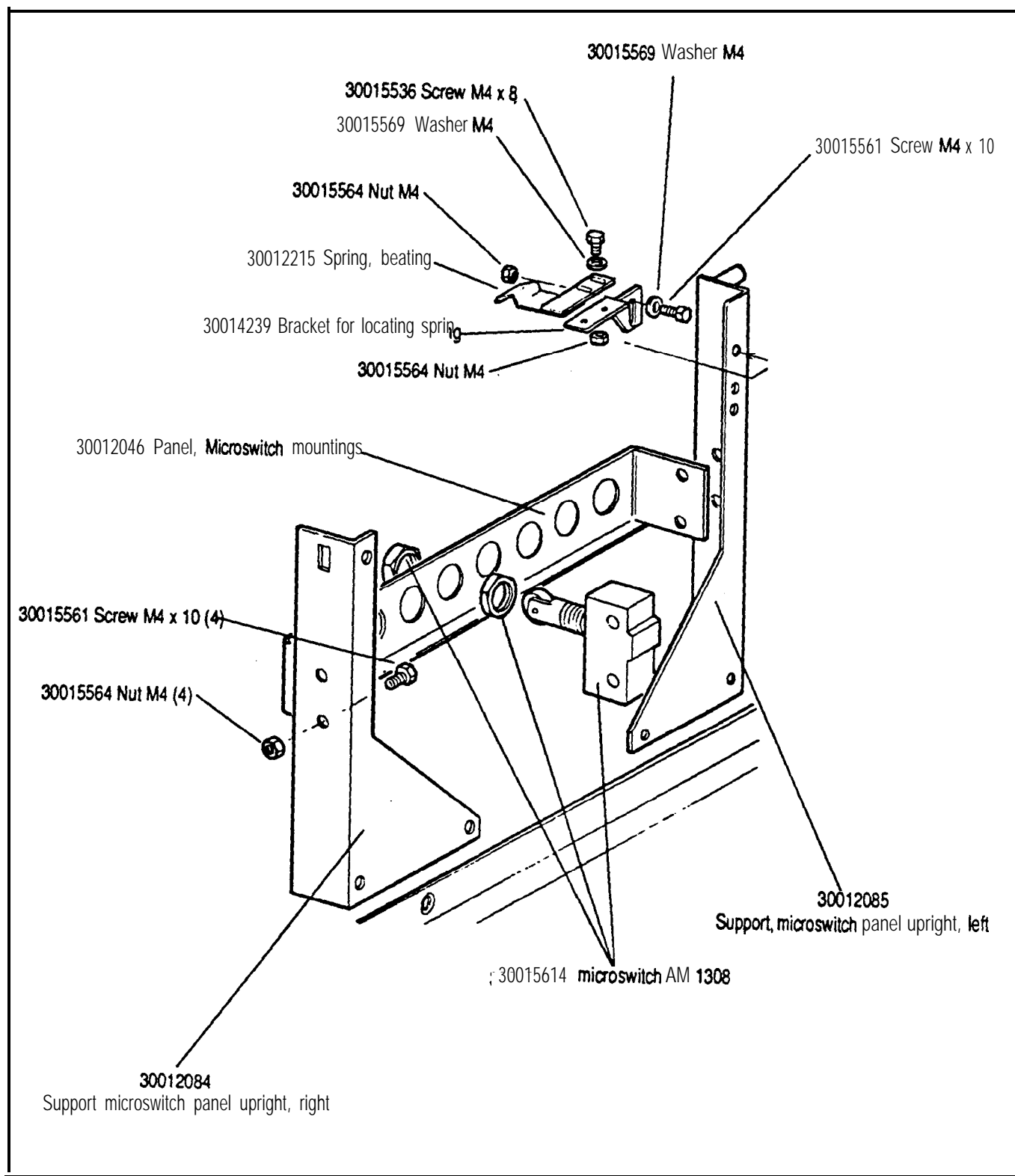
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Please order by Part Number

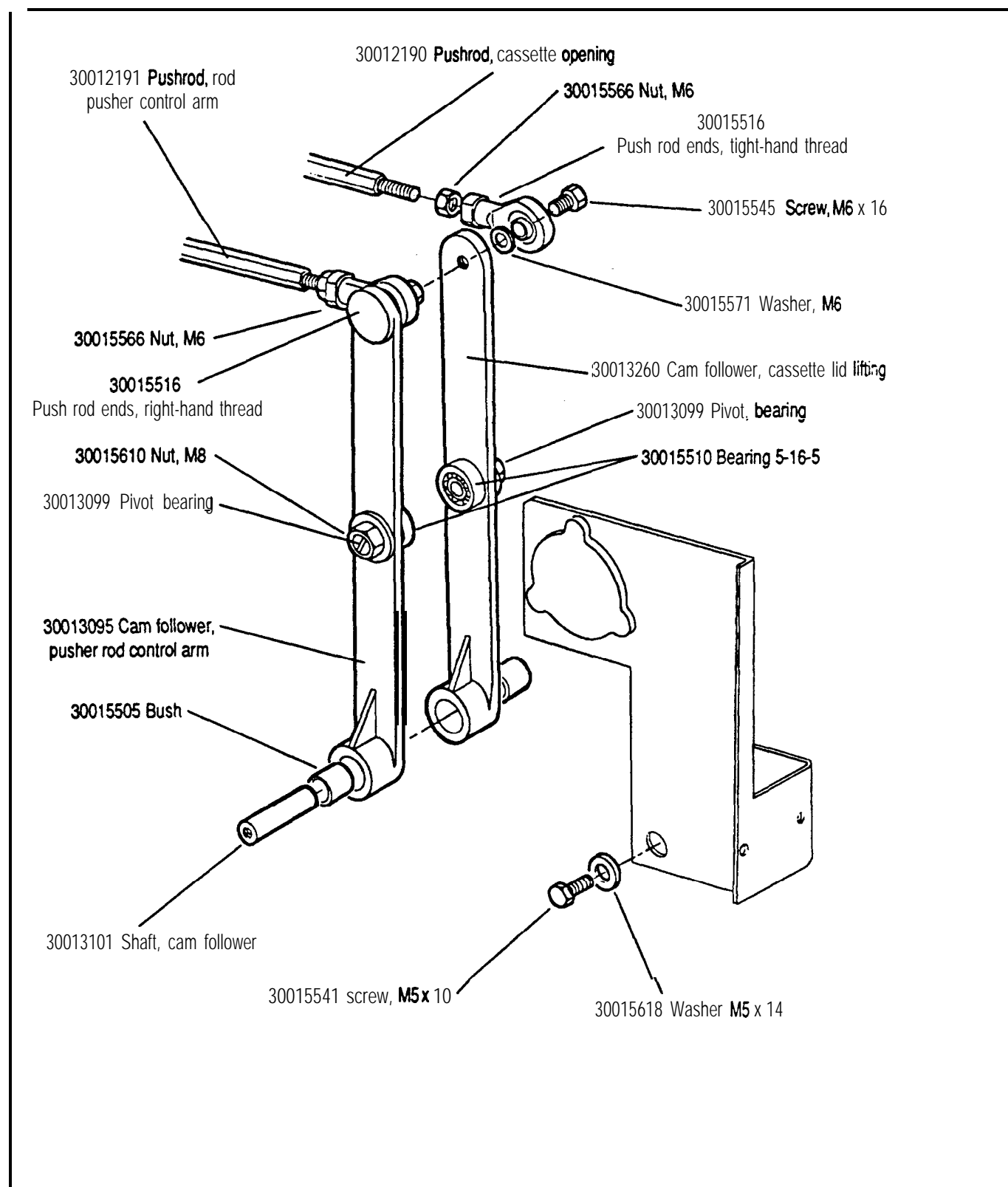


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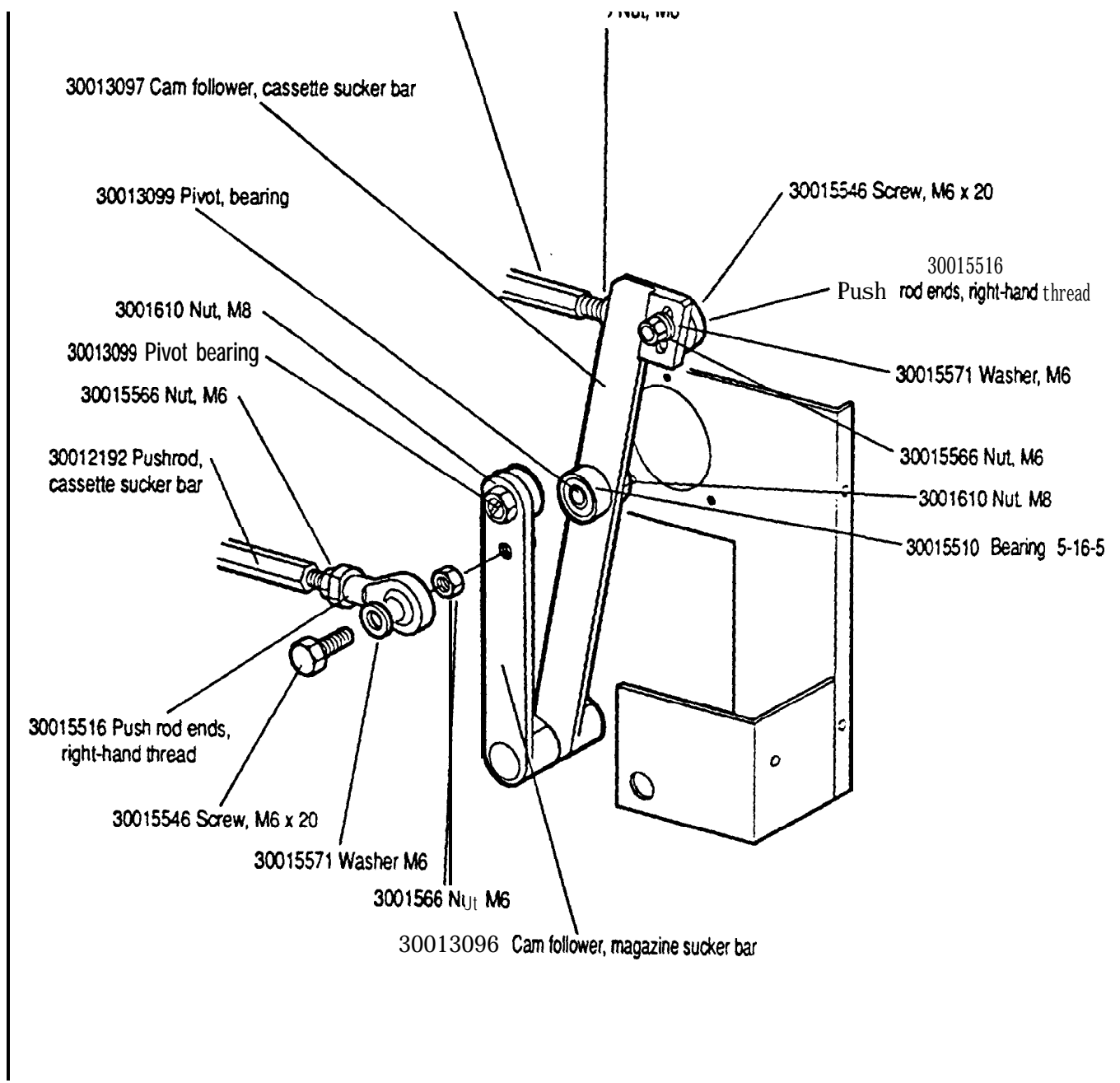
Please order by Part Number



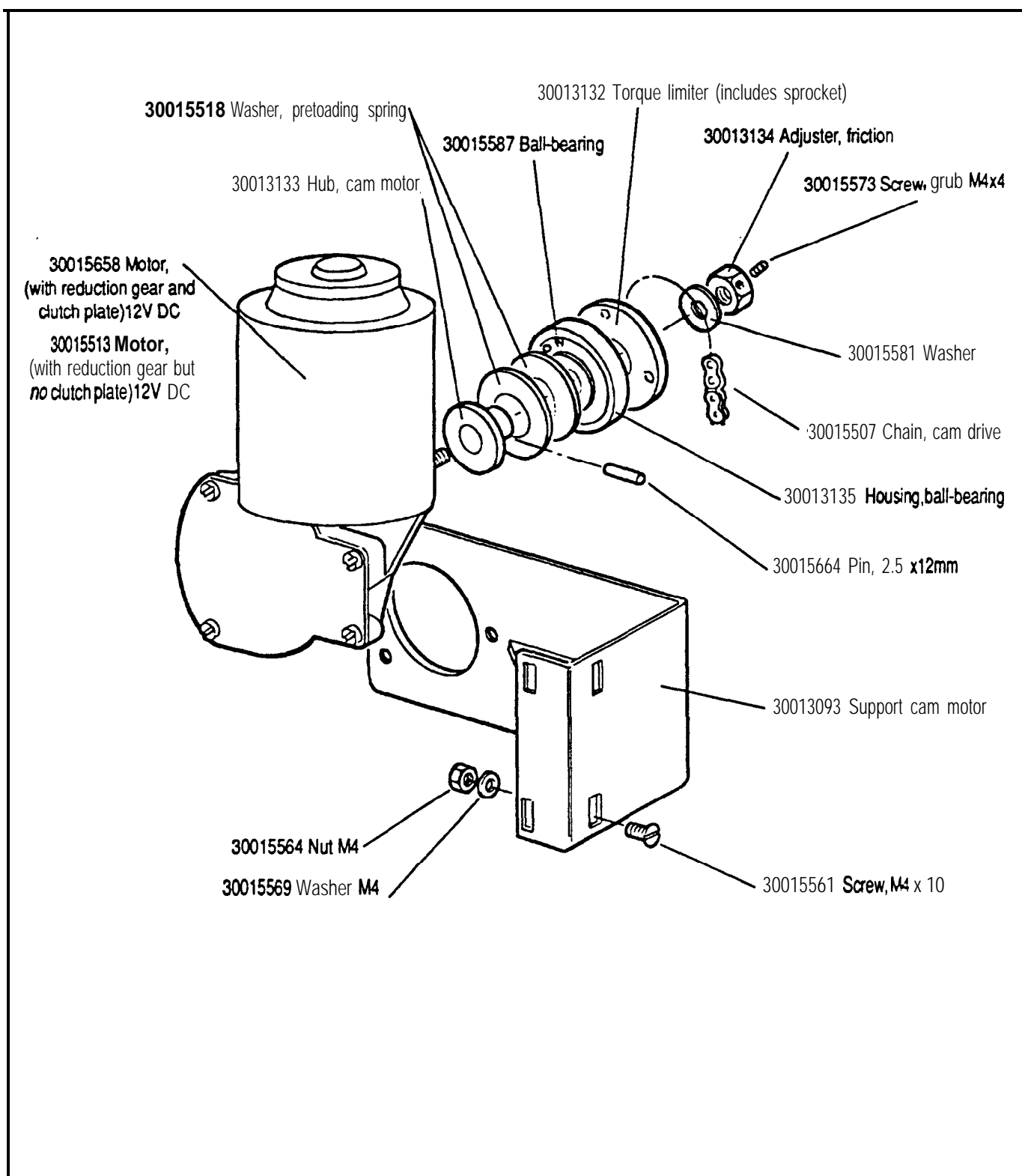
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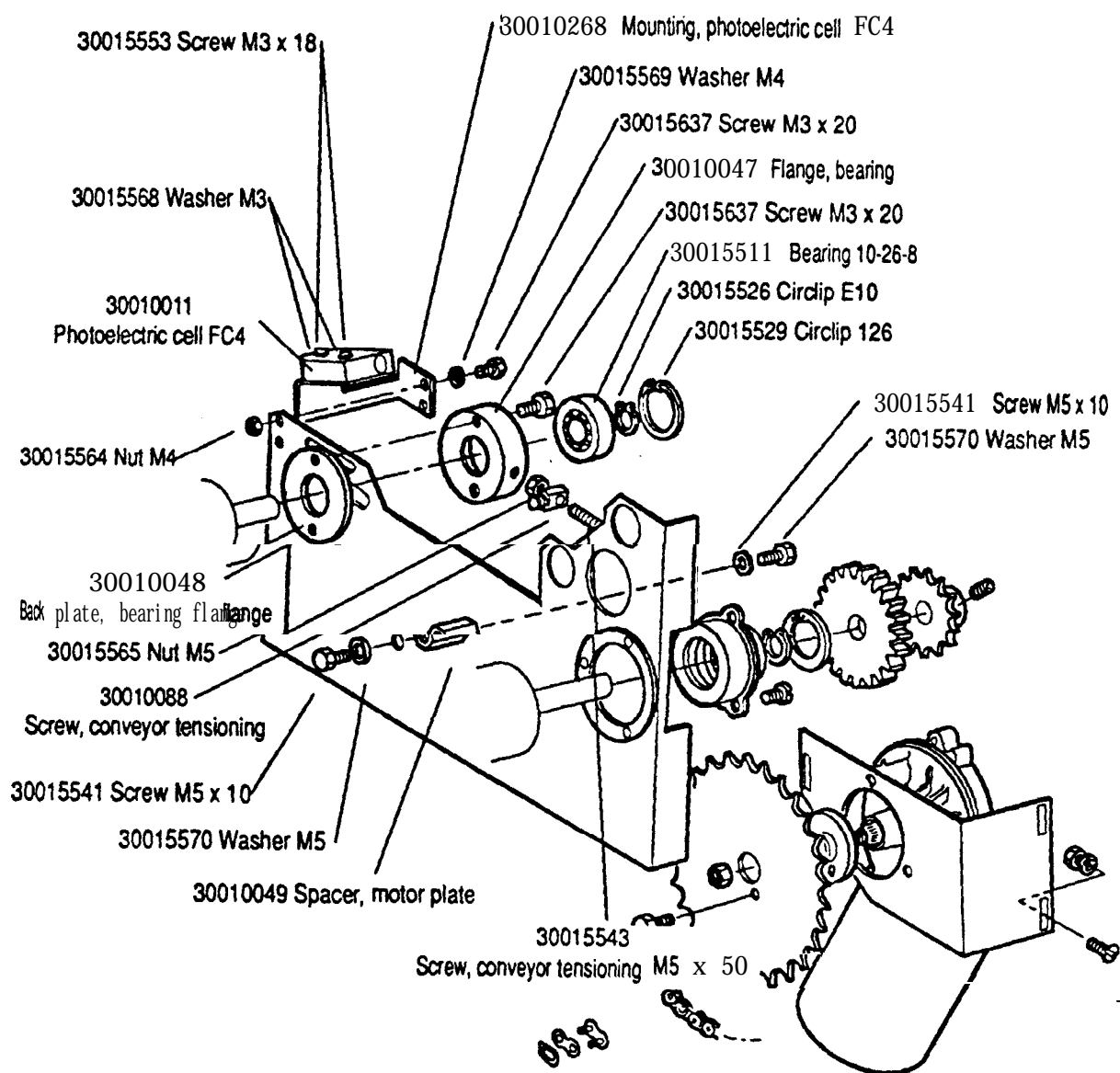
Please order by Part Number



Please order by Part Number

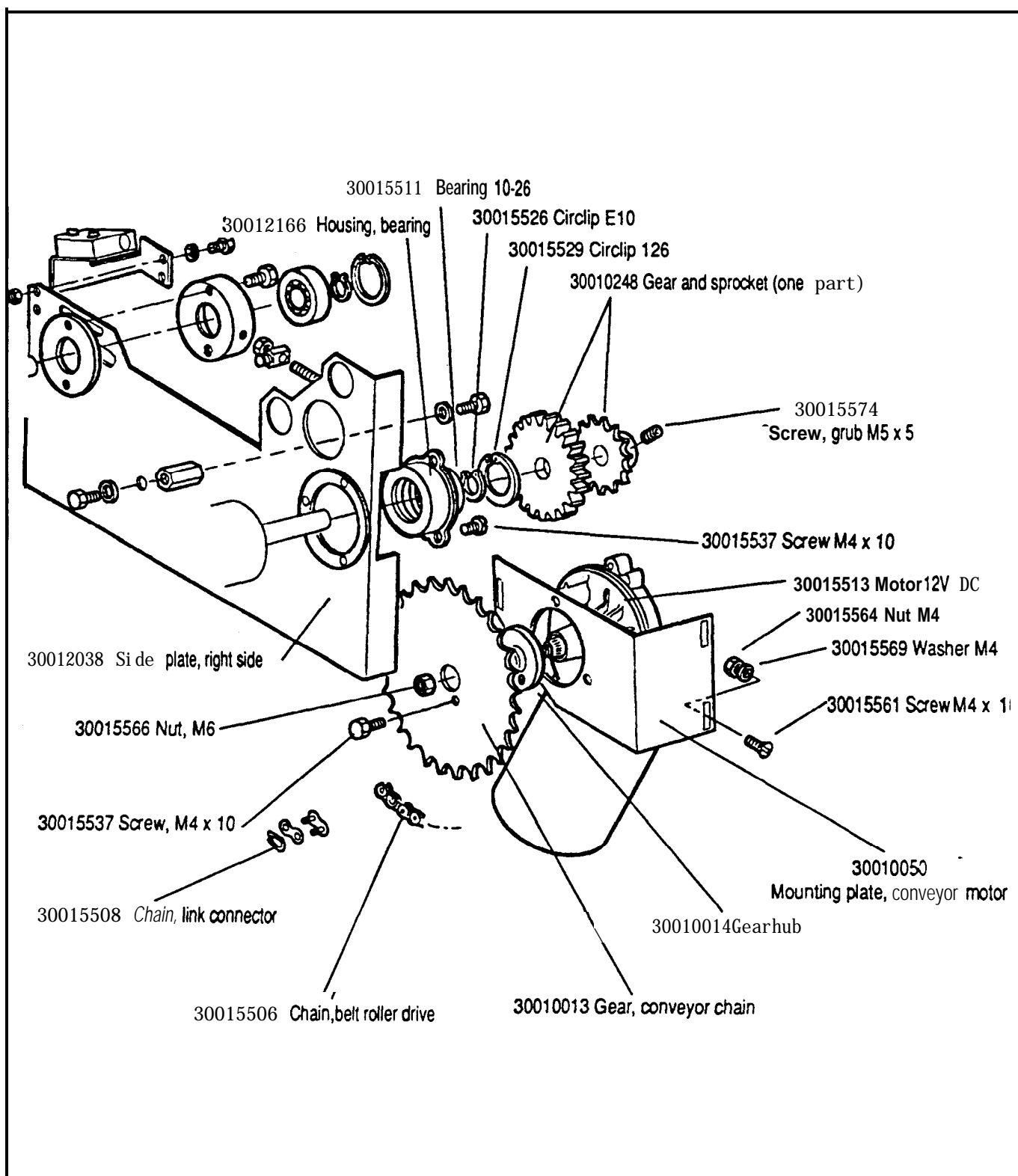


Please order by Part Number



Also see page PL23

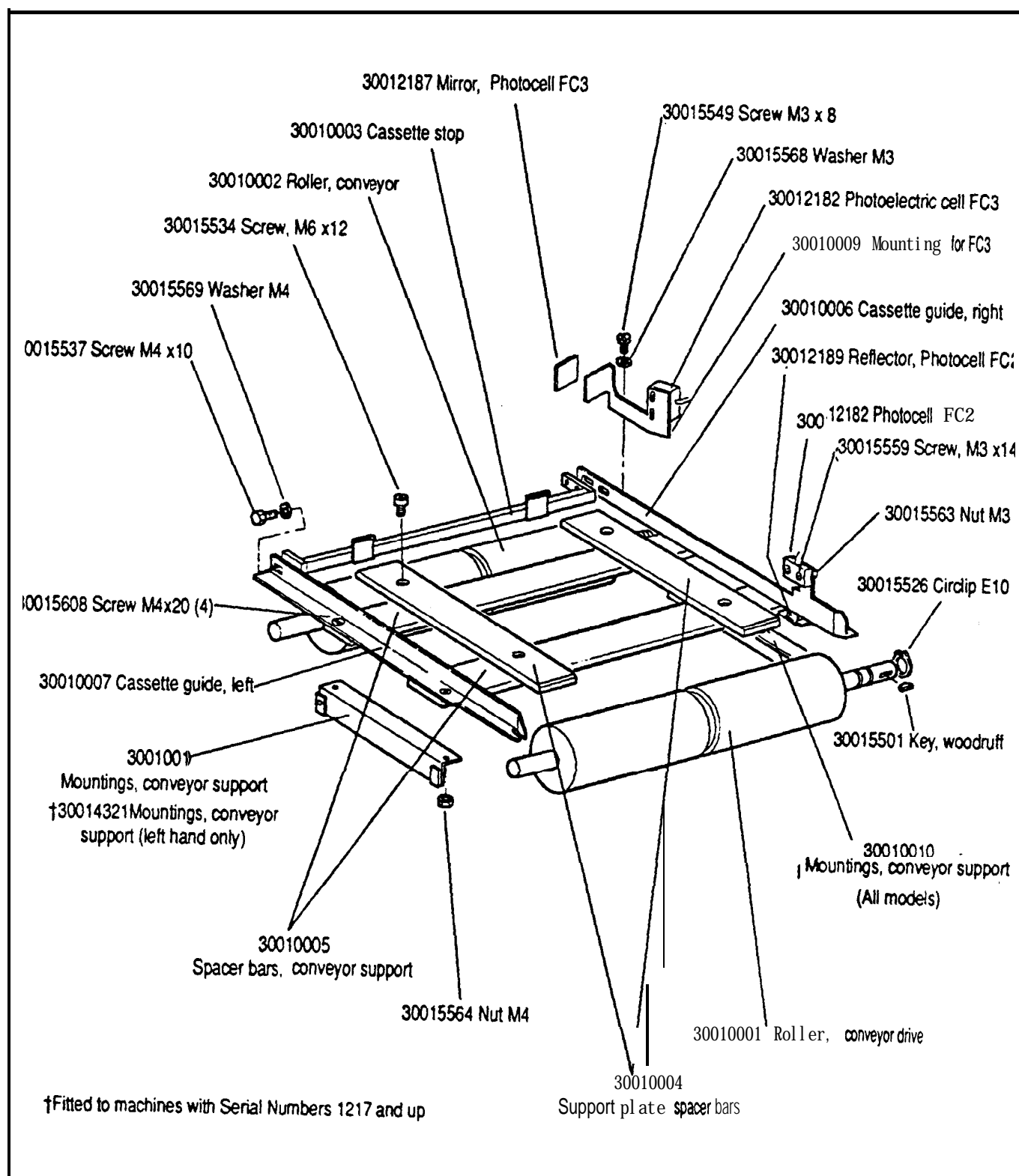
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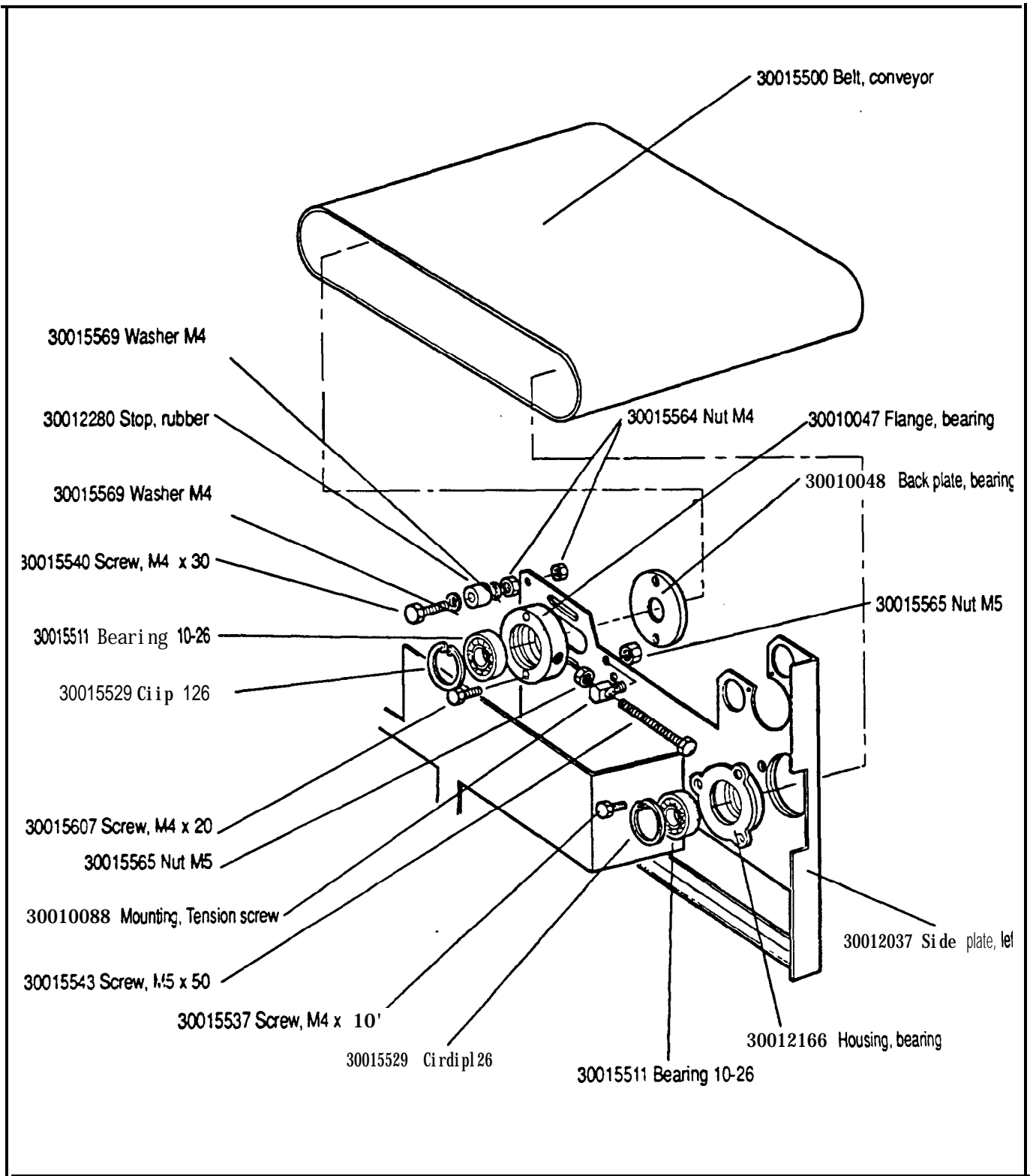
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Please order by Part Number



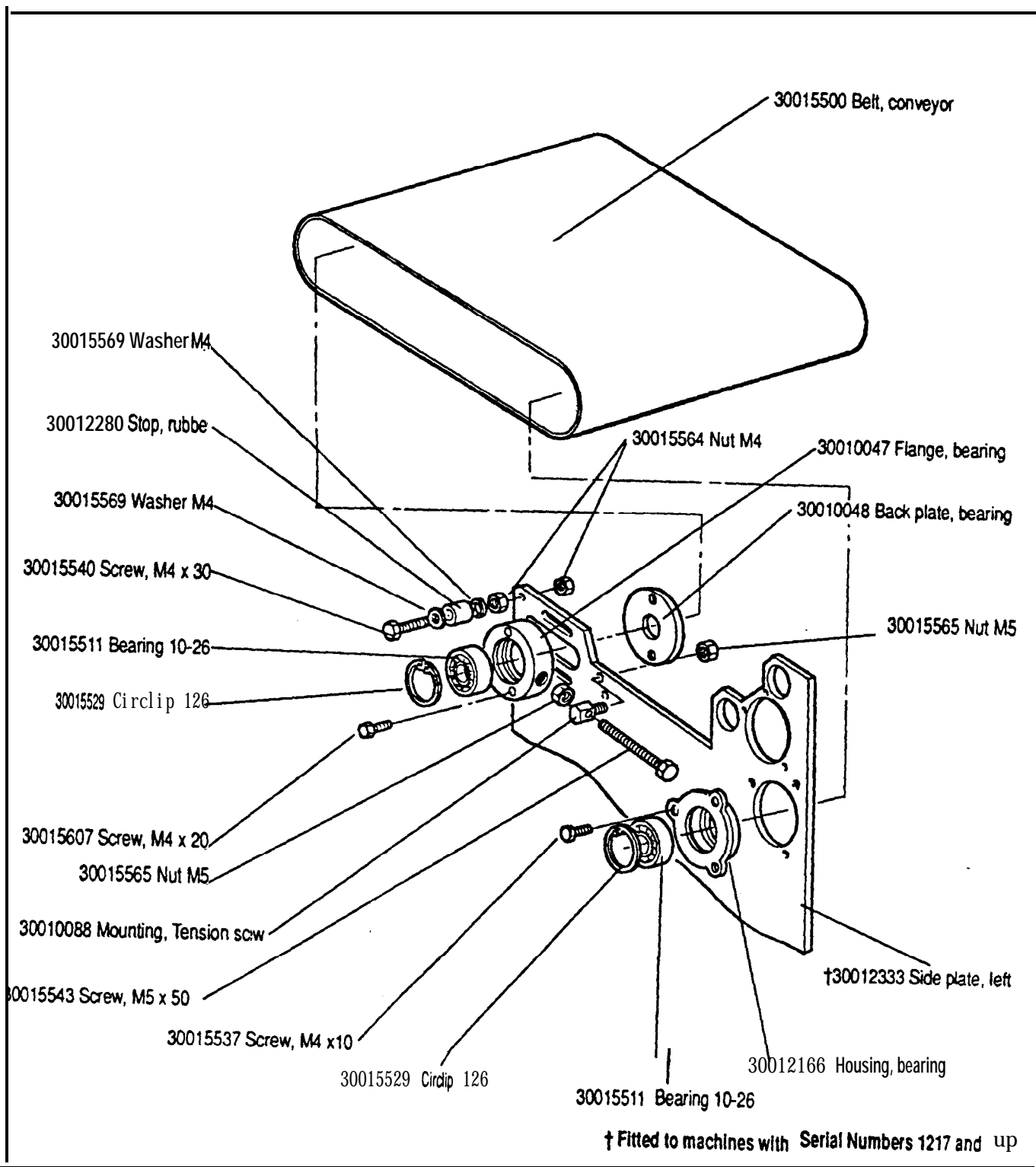


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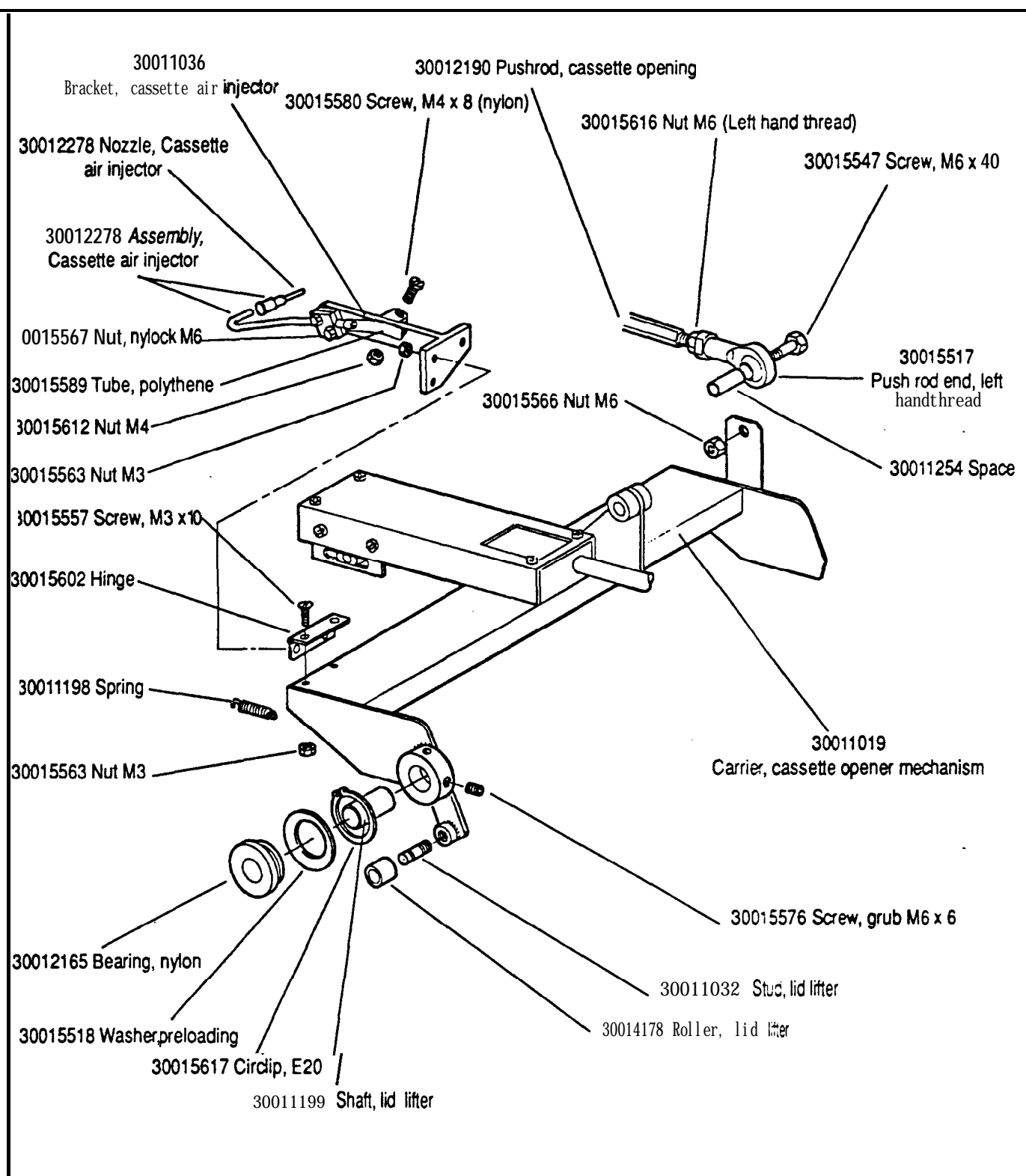
Machines with Serial Numbers Below 1217 only

Please order by Part Number

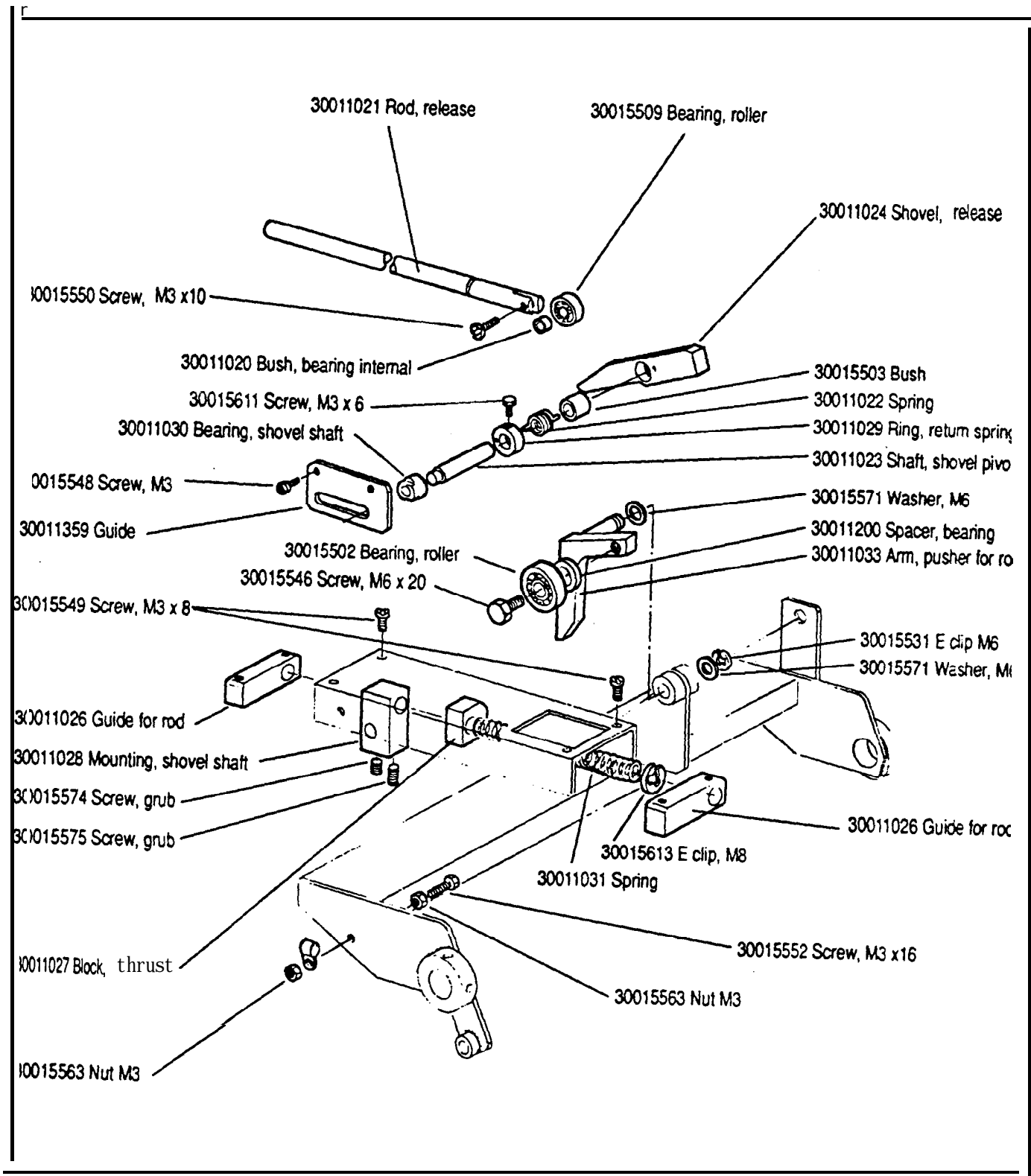


Machines with Serial Numbers 1217 and up

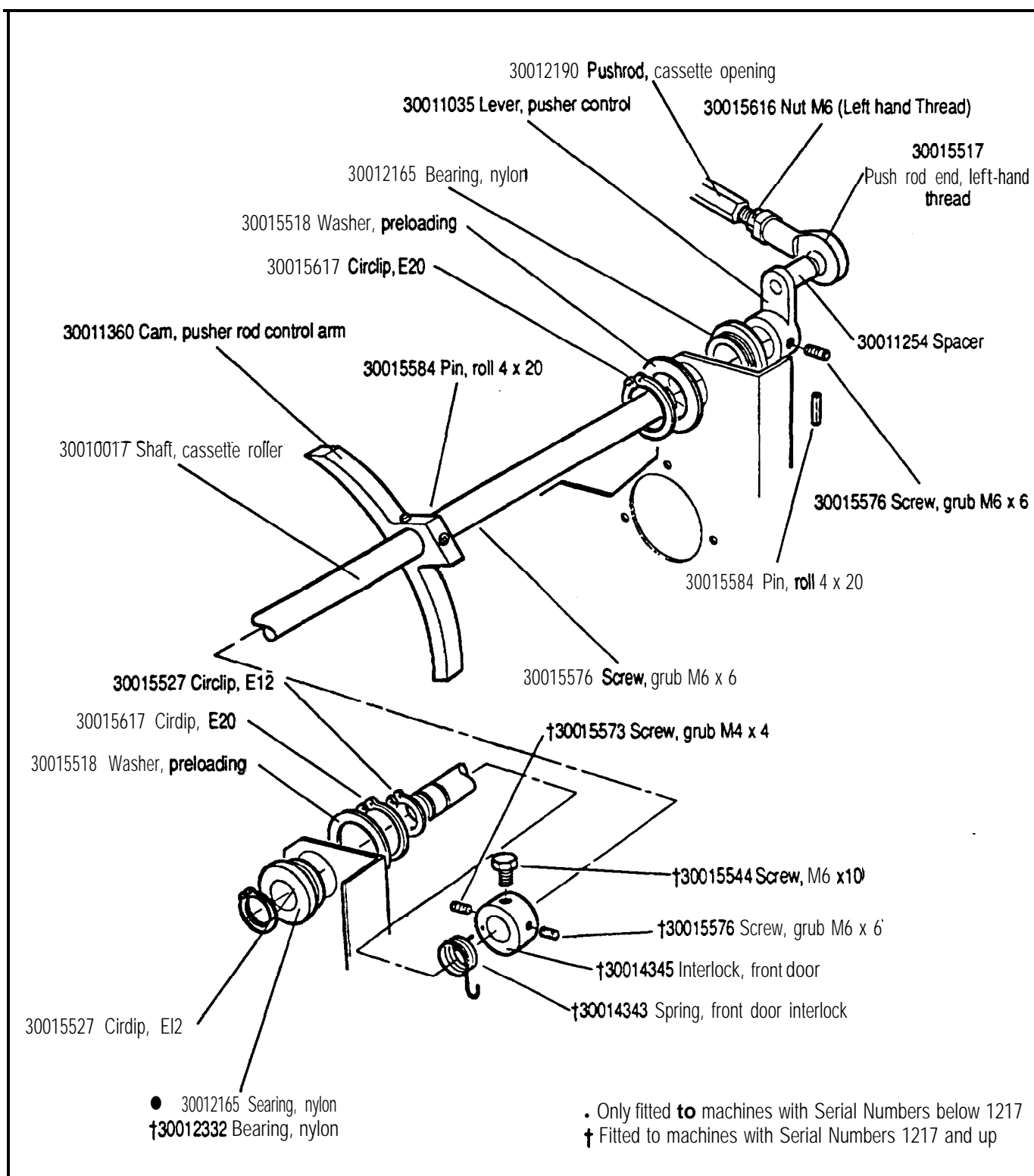
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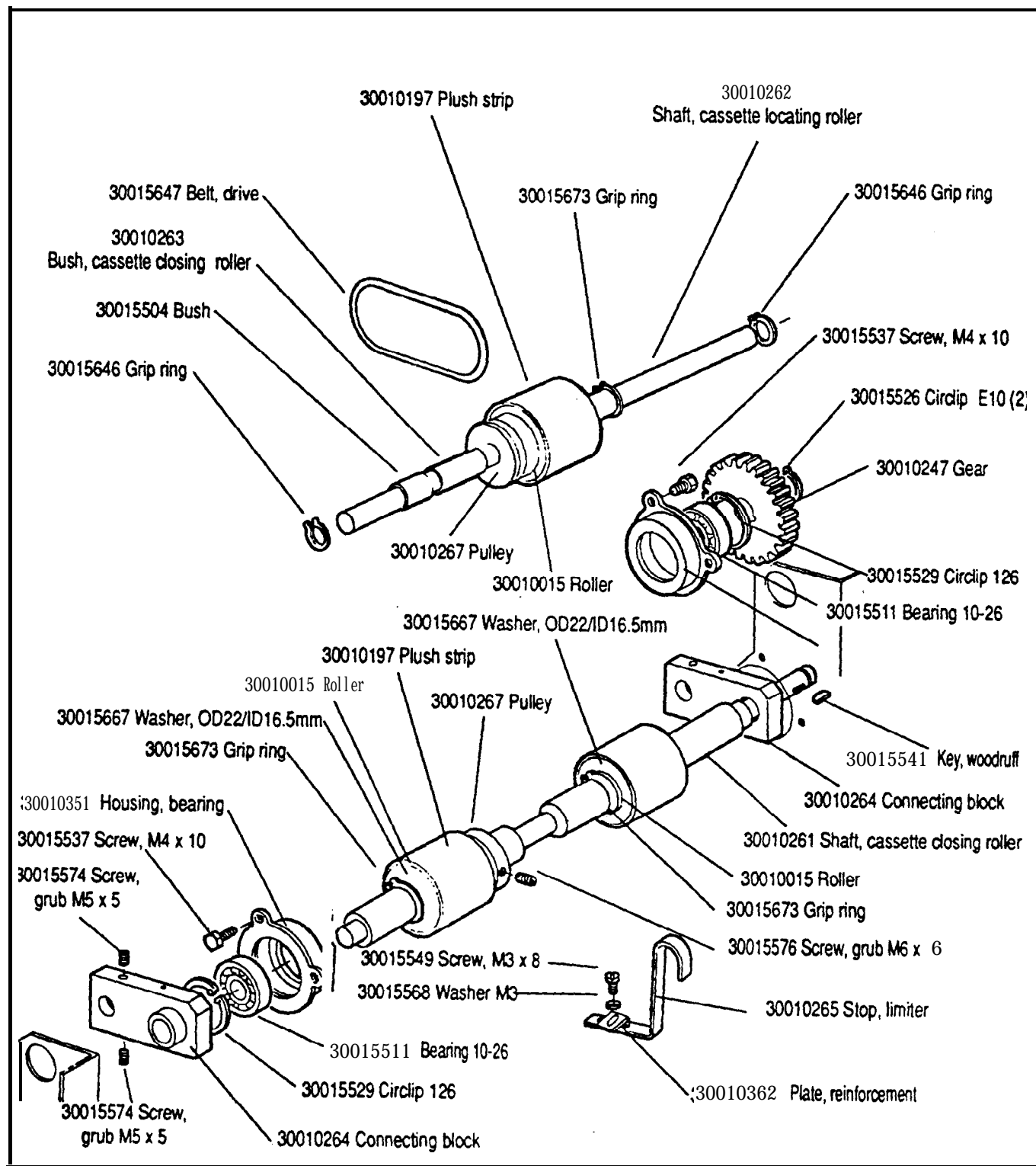
Please order by Part Number



Please order by Part Number

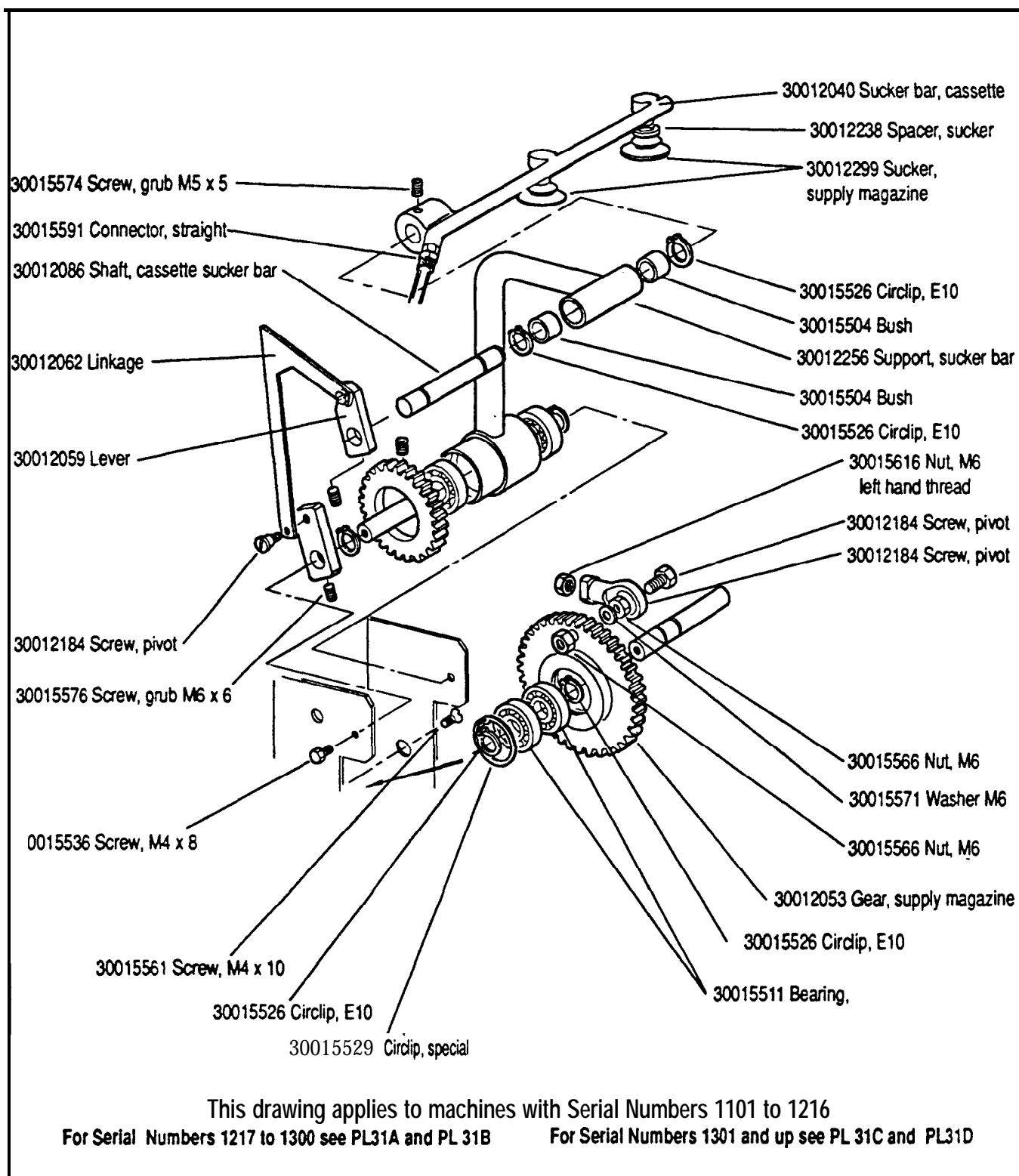


Please order by Part Number



Note • The sets of 3 Circlips (30015645) have been changed to one Grip Ring (300015673)

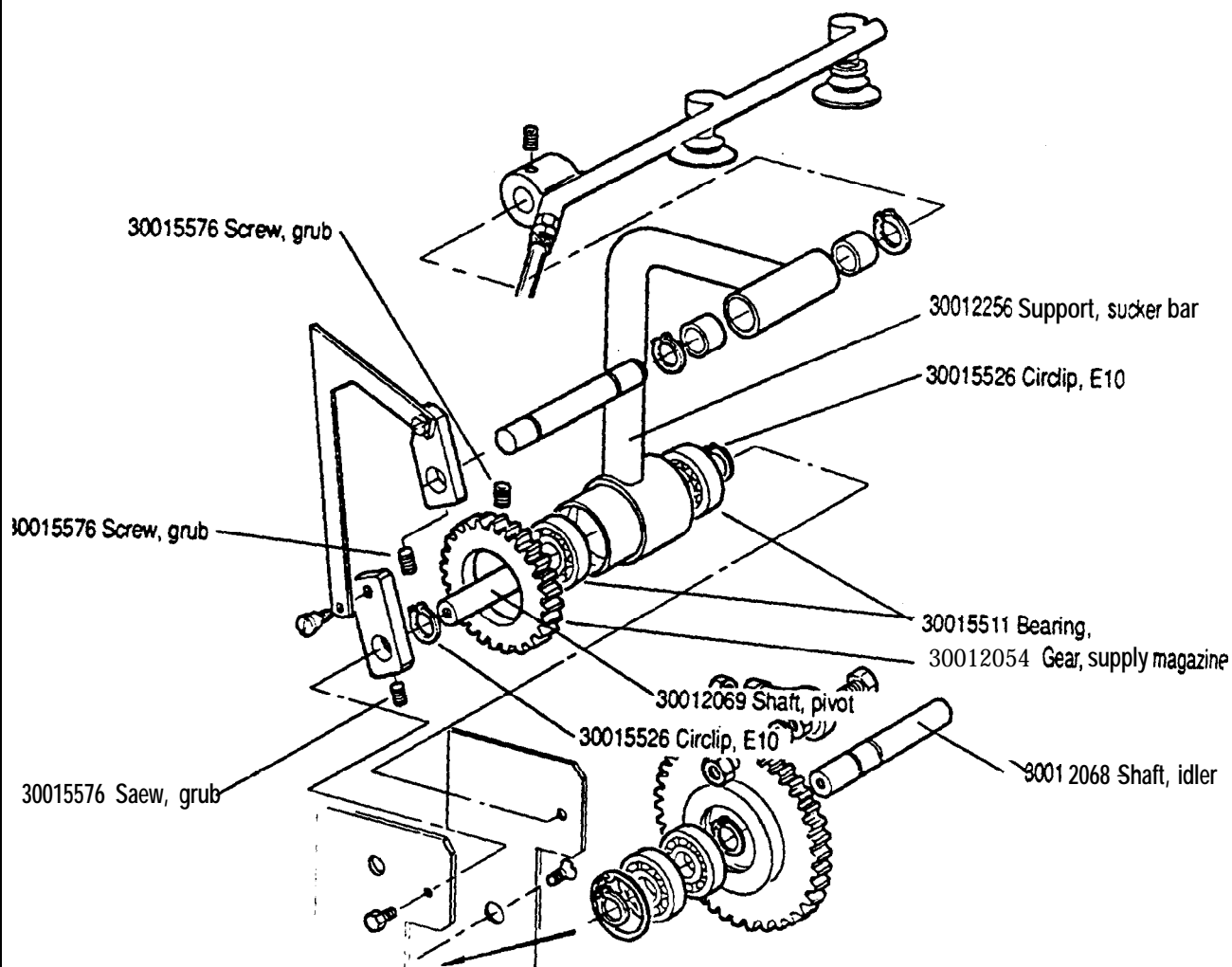
Please order by Part Number



Al soseepagePL31

Please order by Part Number

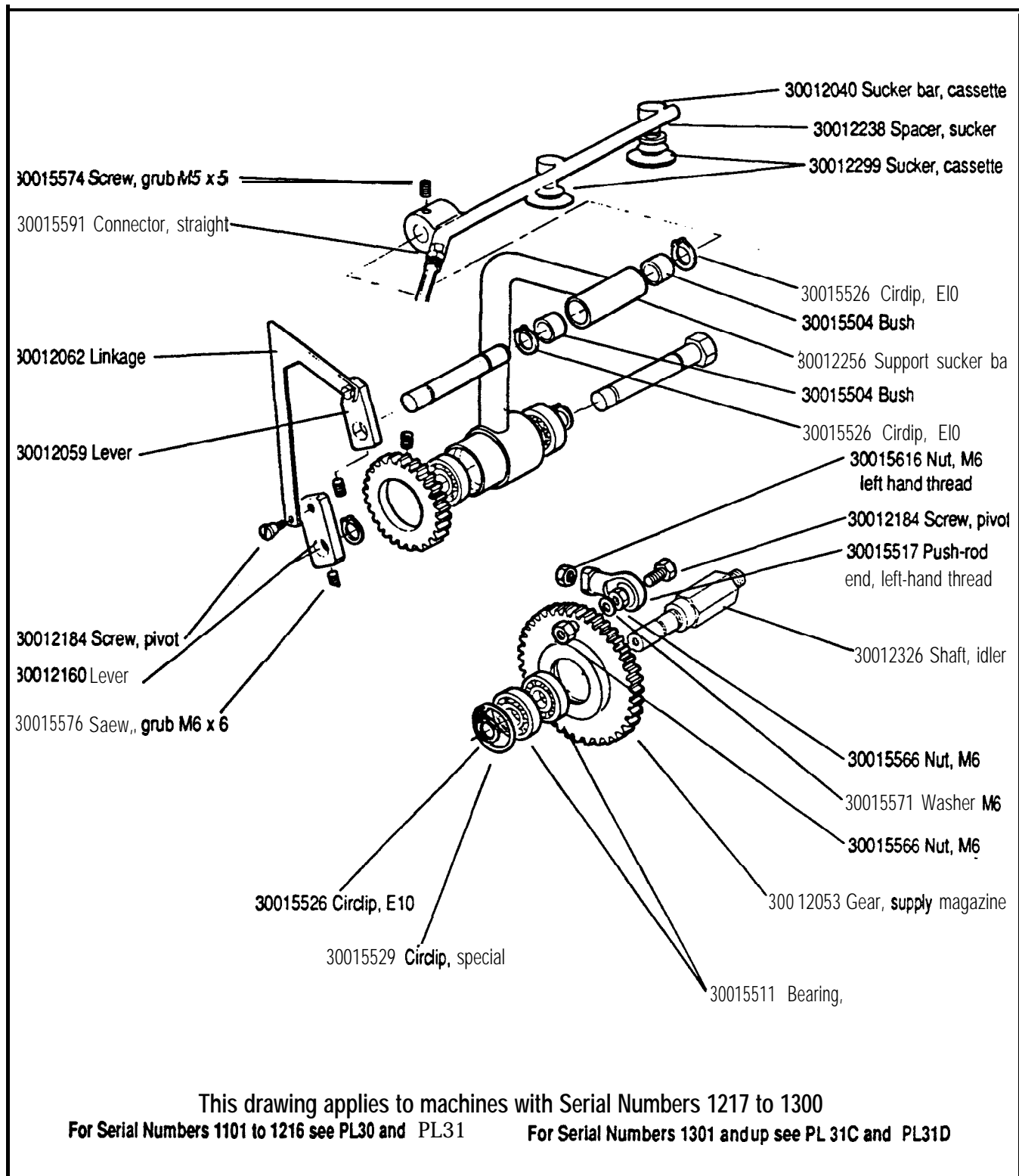




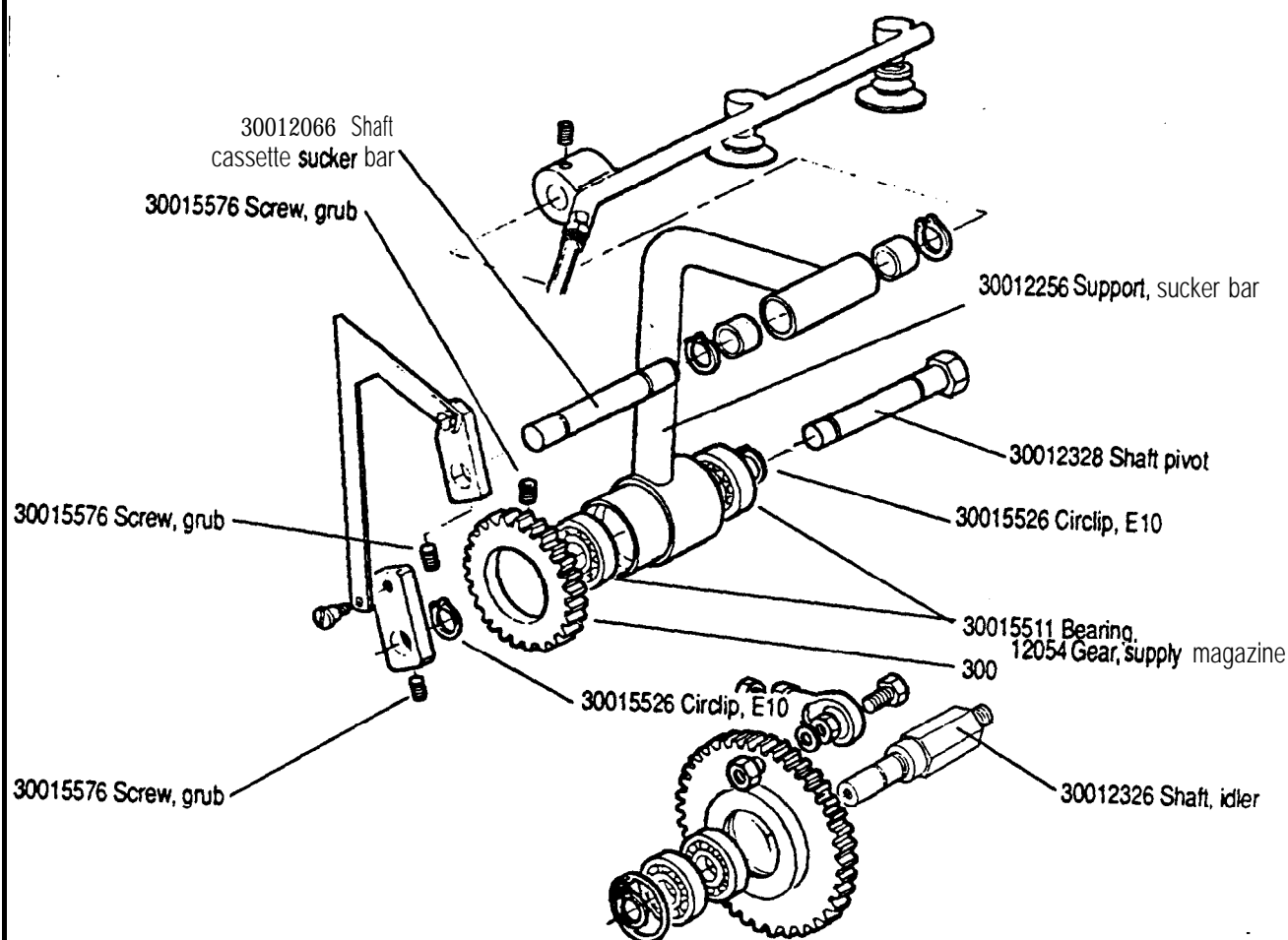
This drawing applies to machines with Serial Numbers **1101** to **1216**  
For Serial Numbers **1217** to **1300** see **PL31A** and **PL 31B** For Serial Numbers **1301** and up see **PL 31C** and **PL31D**

Also see page PL30

**Please order by Part Number**

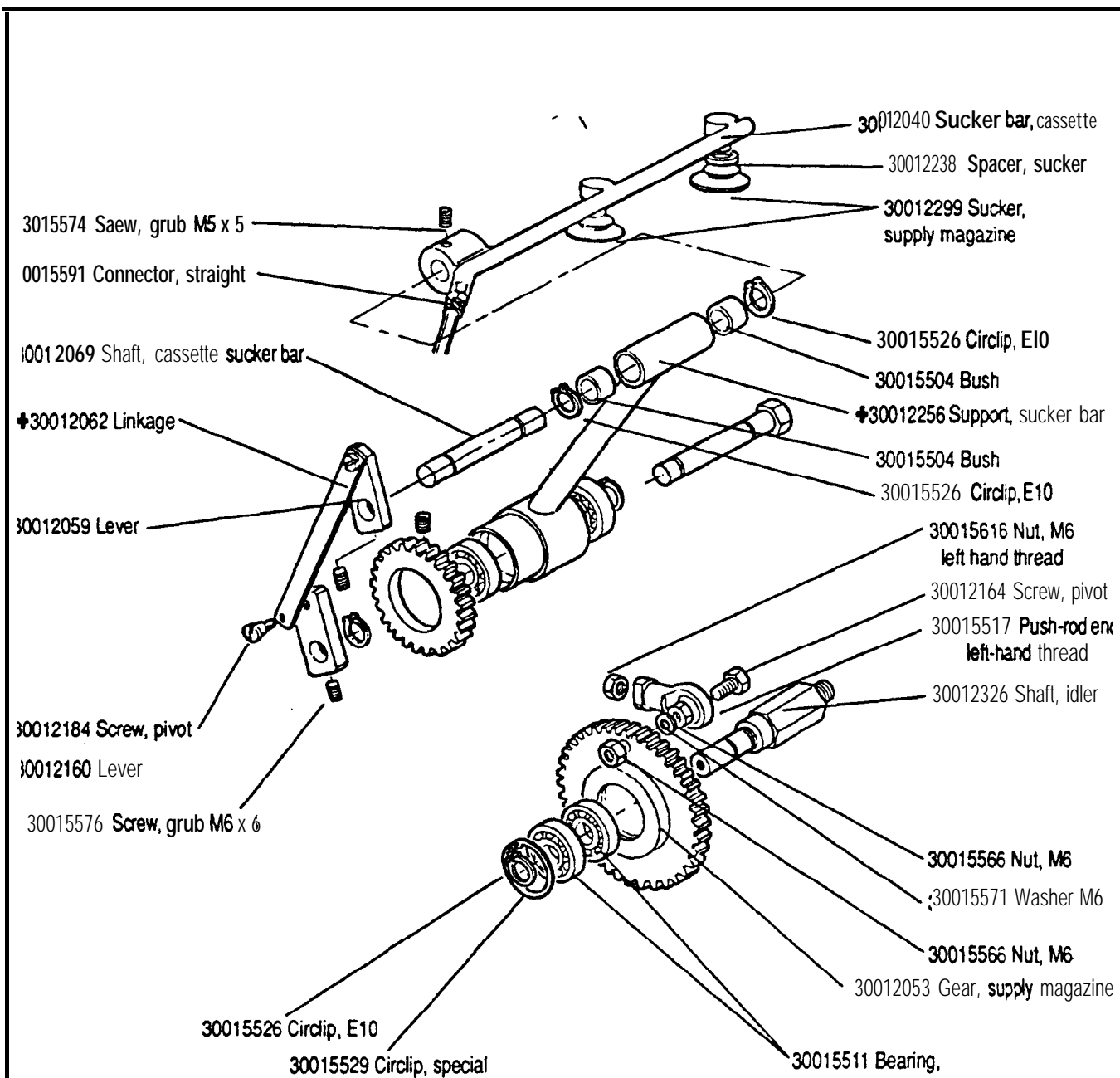


Please order by Part Number



This drawing applies to machines with Serial Numbers 1217 to 1300  
 For Serial Numbers 1101 to 1216 see **PL30** and **PL31** For Serial Numbers 1301 and up see **PL 31C** and **PL31D**

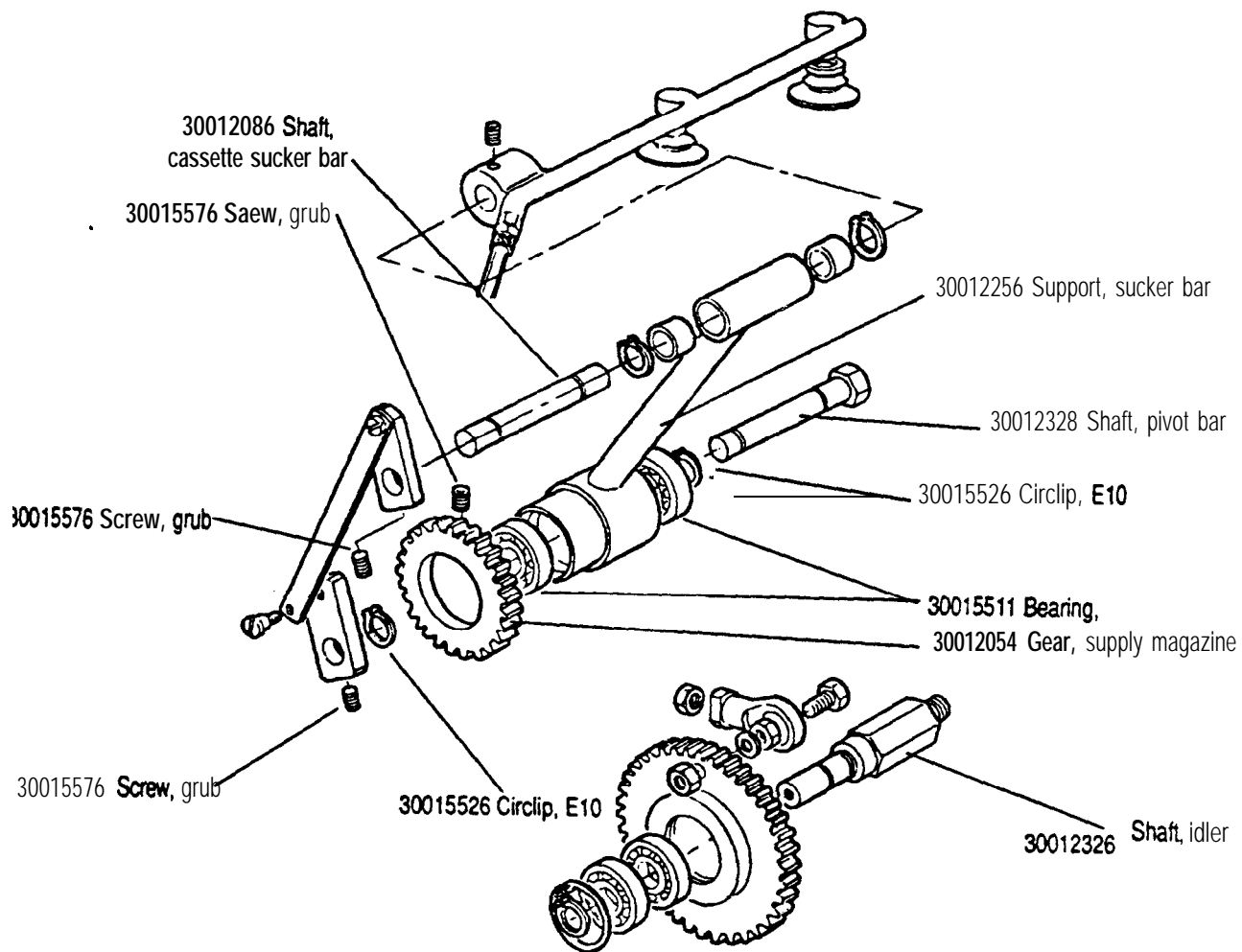
Please order by Part Number



This drawing applies to machines with Serial Numbers 1301 and up  
 For Serial Numbers 1101 to 1216 see PL30 and PL31 For Serial Numbers 1217 to 1300 see PL 31A and PL31B

+&designed Sucker bar support and linkage. These will be supplied as replacements for the old shape on all models- pages 28-29 and are totally interchangeable. No modification is needed.

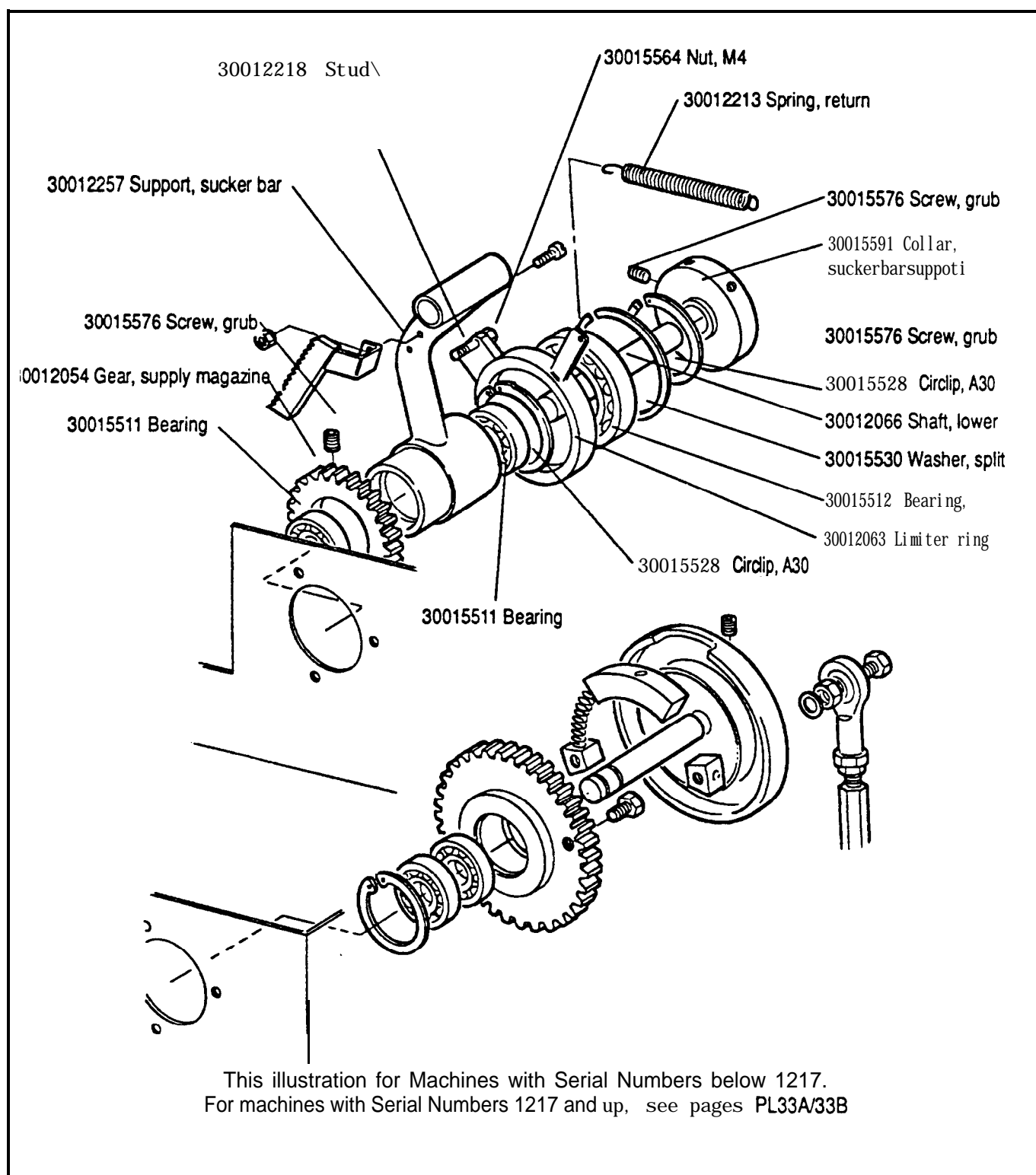
Please order by Part Number



This drawing applies to machines with Serial Numbers 1301 and up  
 For Serial Numbers 1101 to 1216 see **PL30** and **PL31** For Serial Numbers 1217 to 1300 see **PL 31A** and **PL31B**

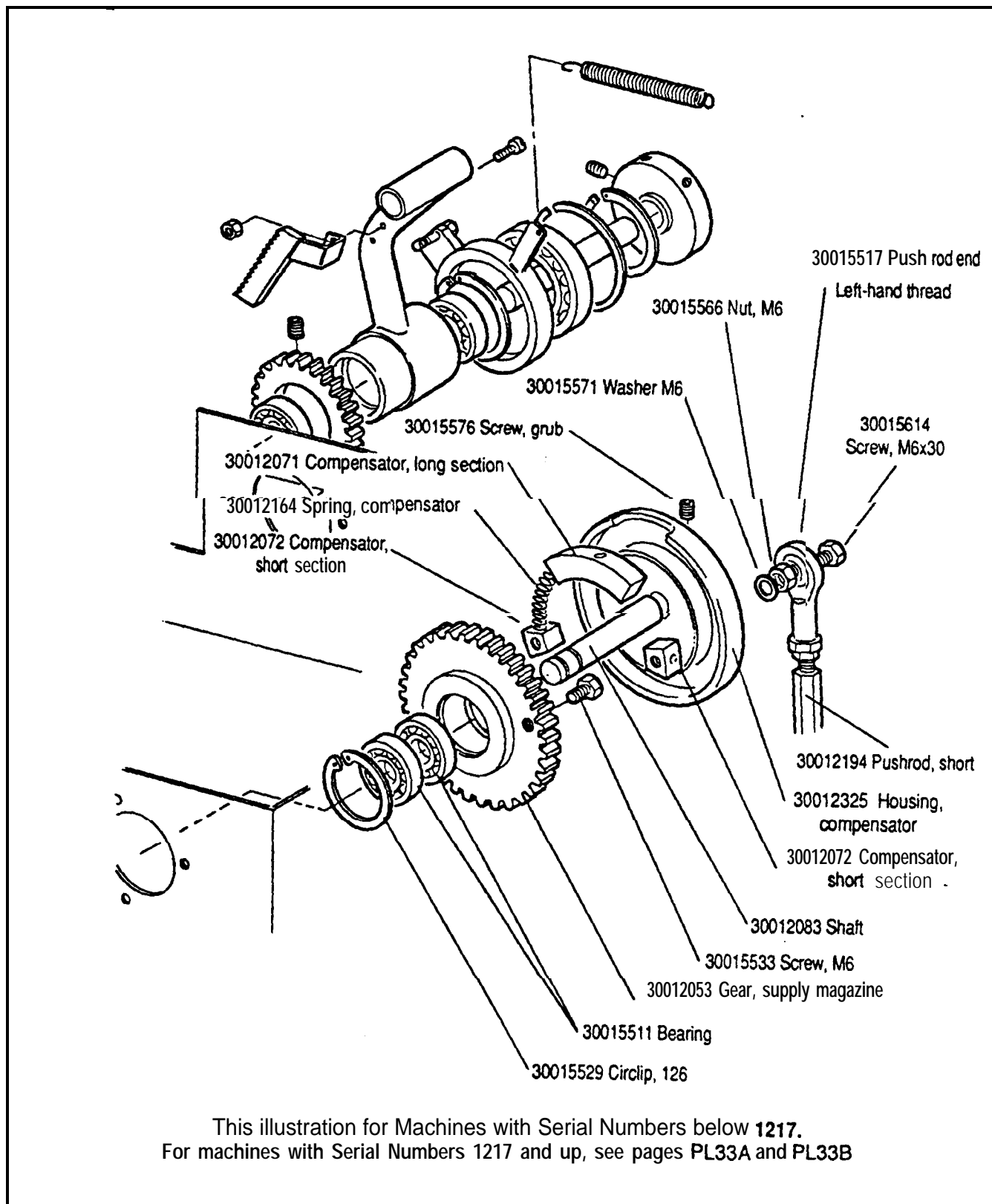
Redesigned Sucker bar support and linkage. These will be supplied as replacements for the old shape on all models- pages 28-29 and are totally interchangeable. No modification is needed.

Please order by Part Number



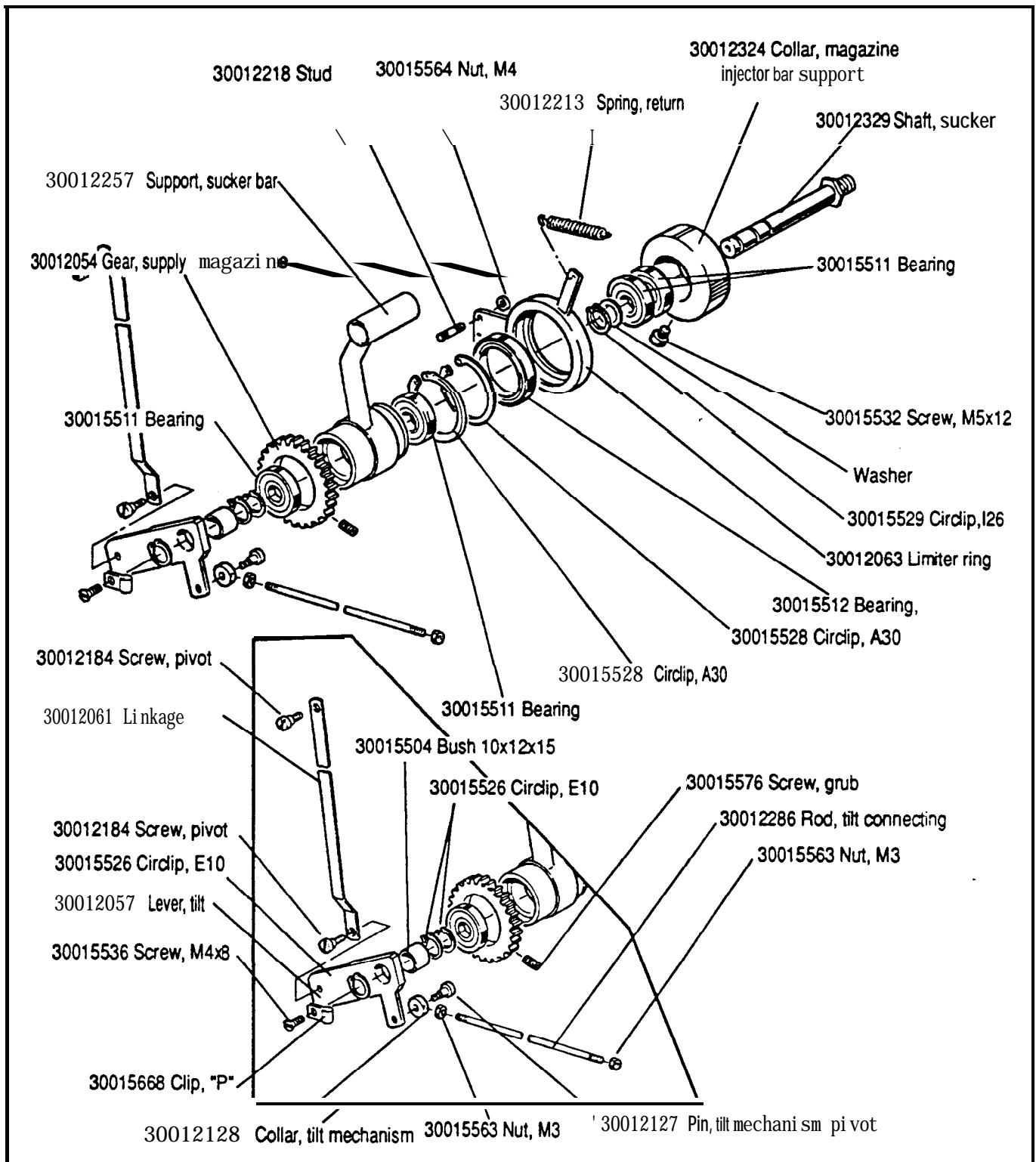
Also see page PL33

**Please order by Part Number**



Also see page PL32

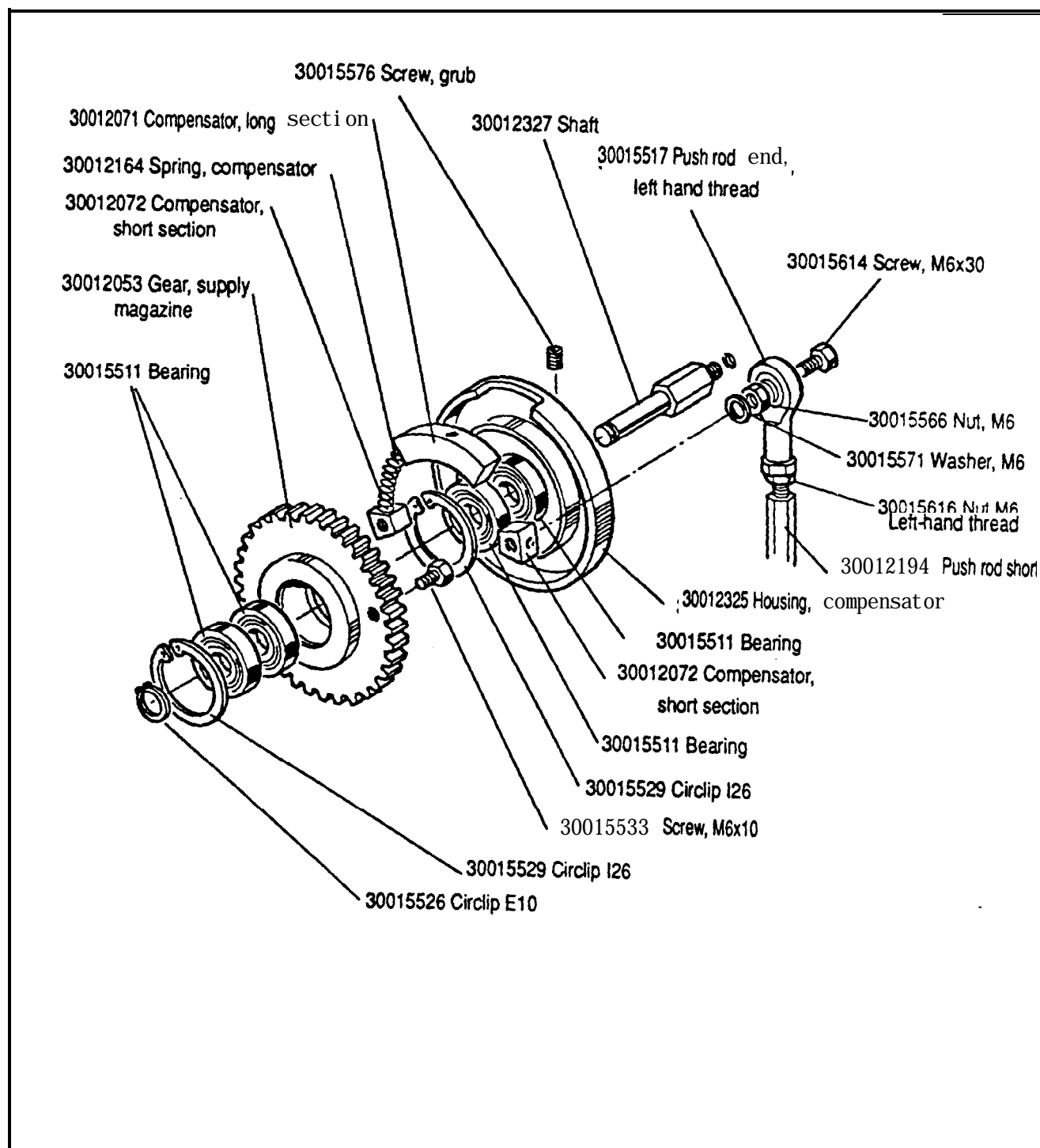
Please order by Part Number



This illustration for Machines with Serial Numbers 1217 and up  
 For machines with Serial Numbers below 1217, see pages PL32 and PL33

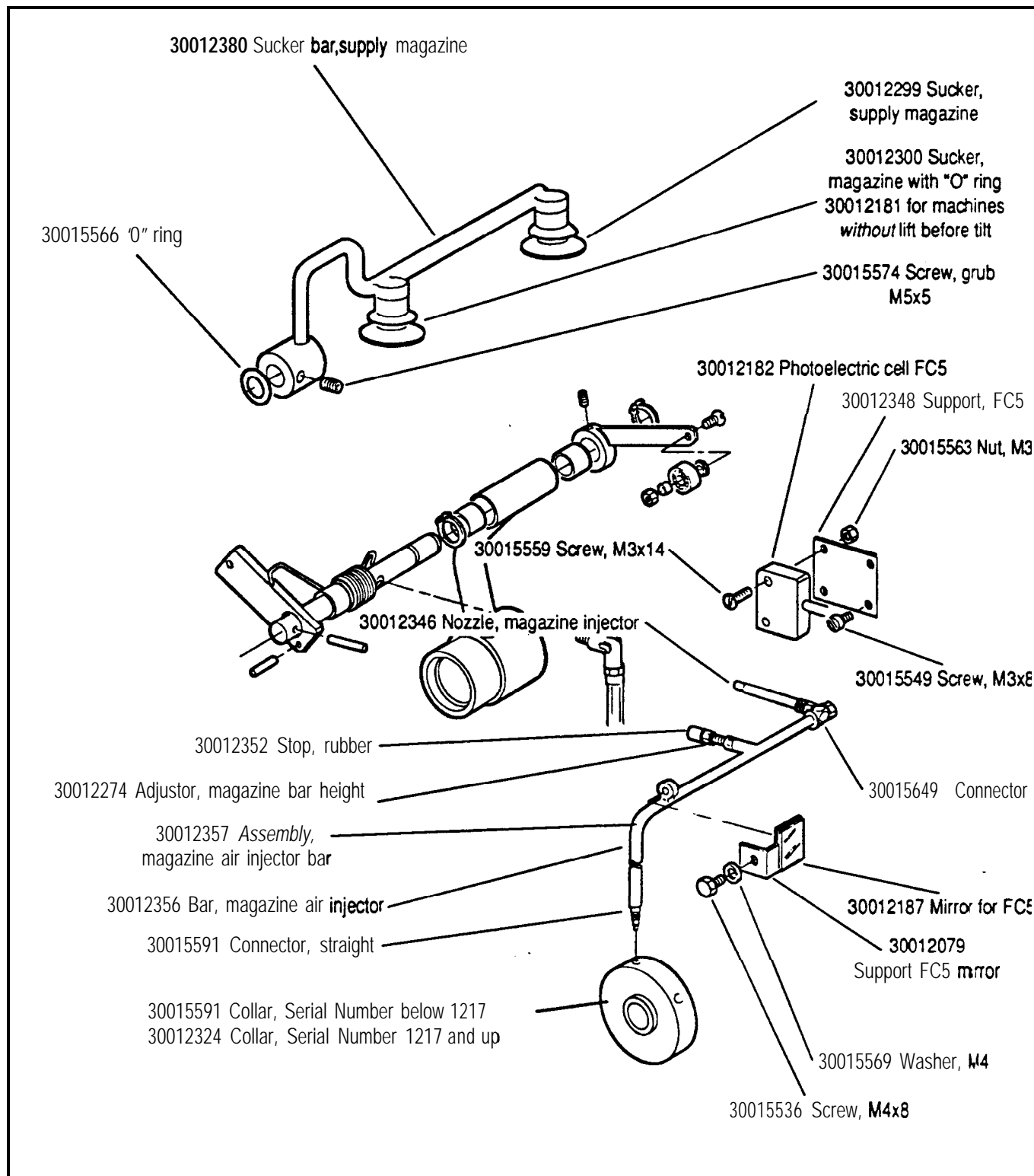
Please order by Part Number





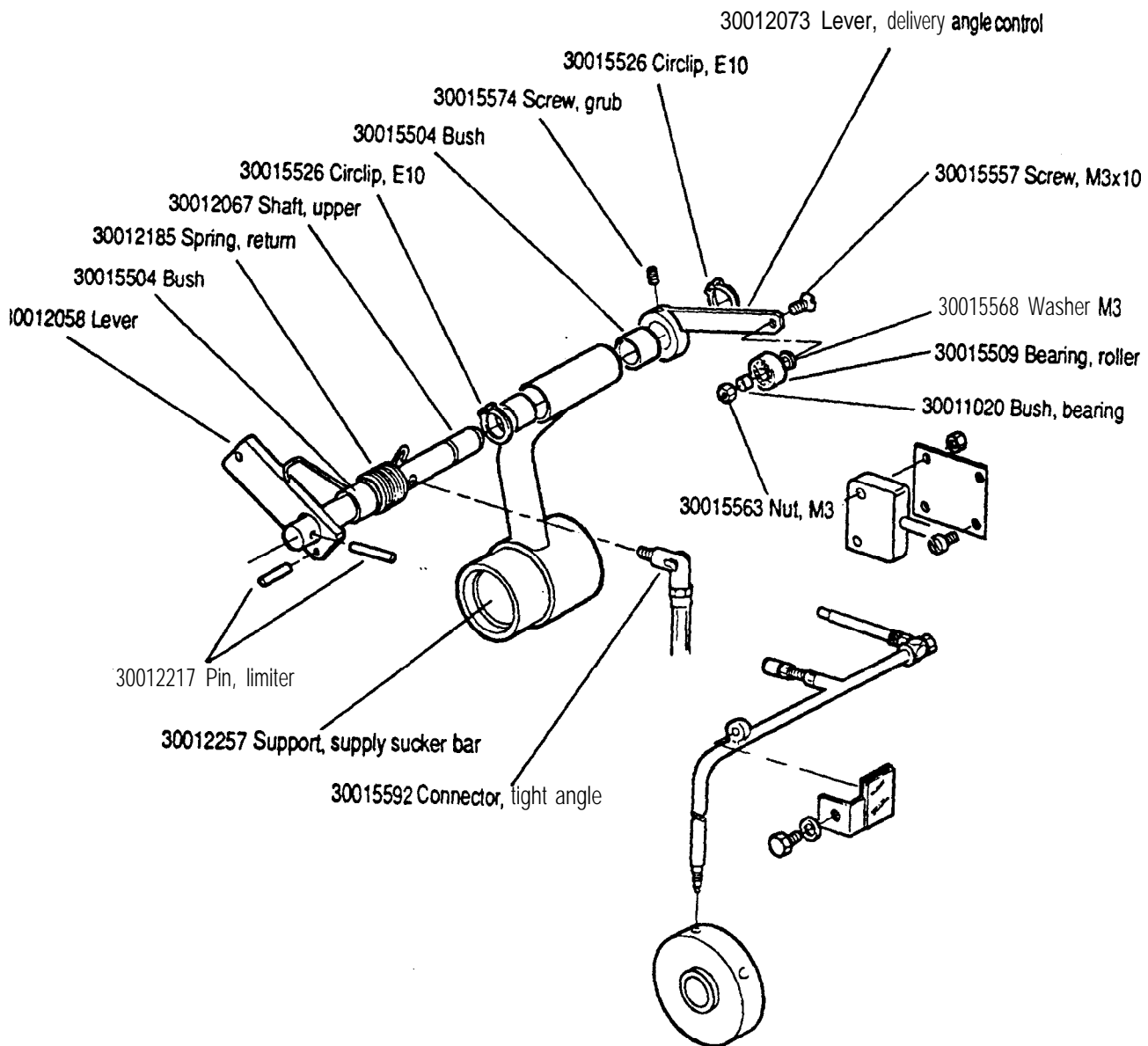
This illustration for Machines with Serial Numbers 1217 and up  
 Formachines with Serial Numbers below 1217, see pages PL32 and PL33

Please order by Part Number



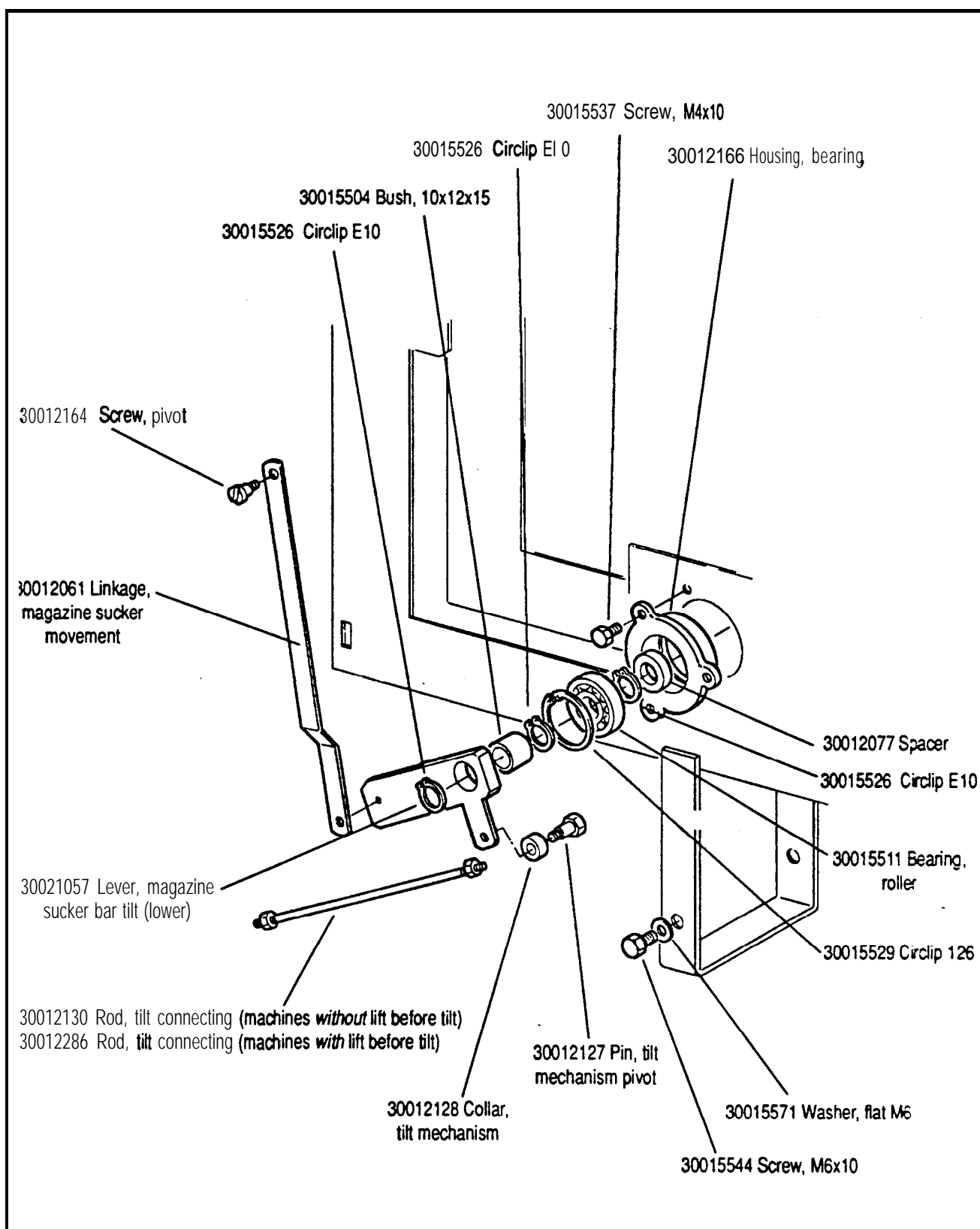
Also see page PL35

Please order by Part Number



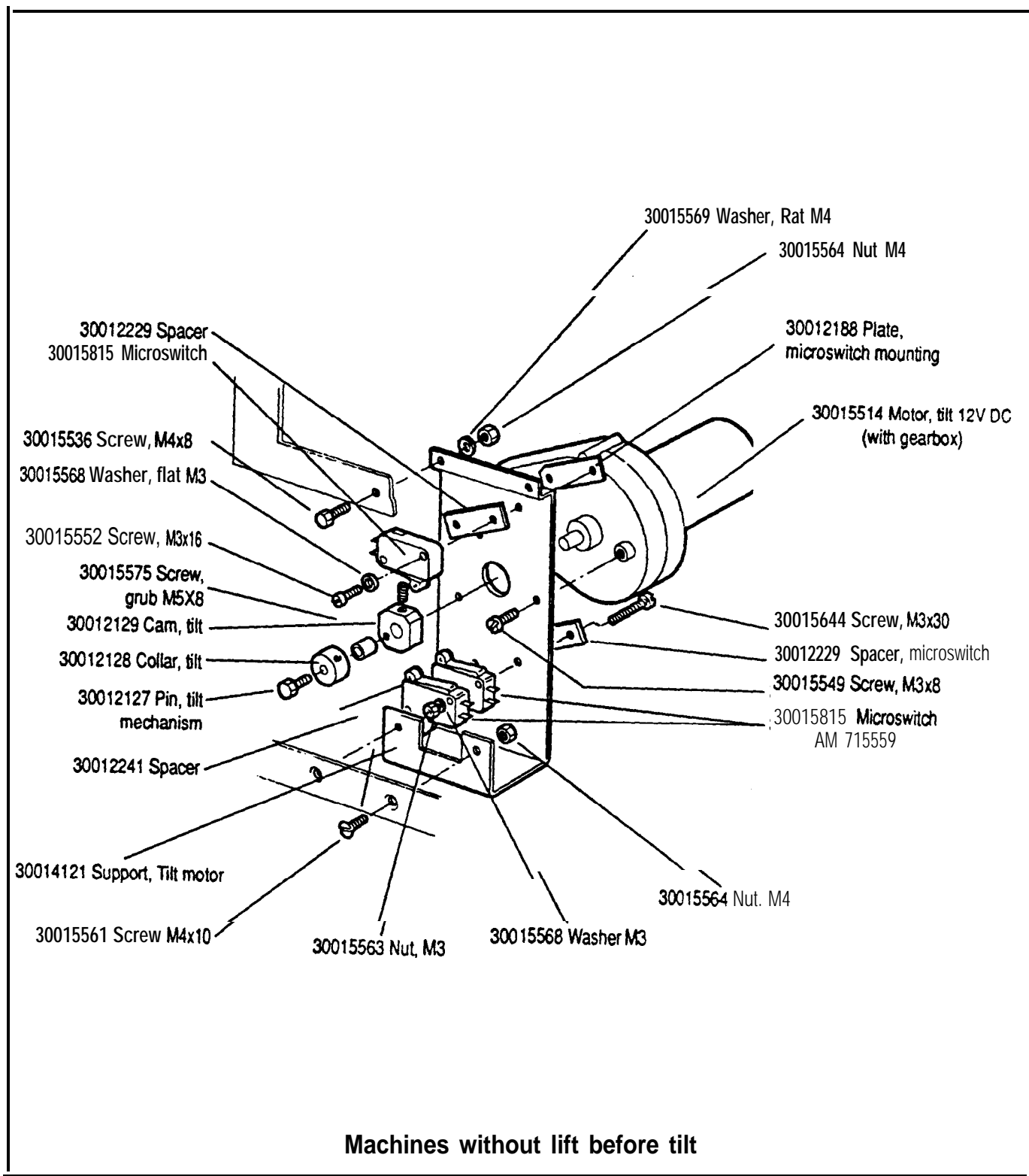
Also see page PL34

Please order by Part Number



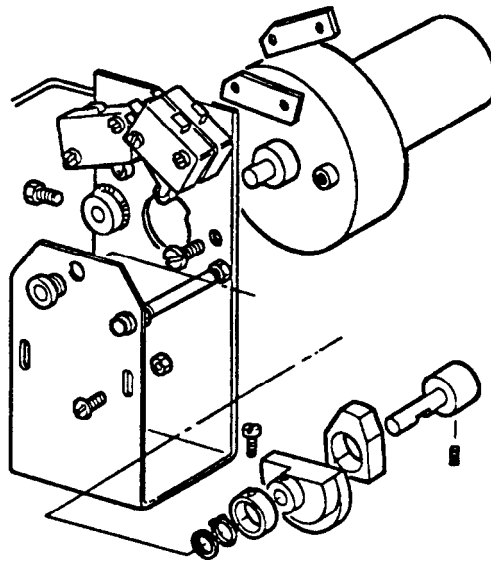
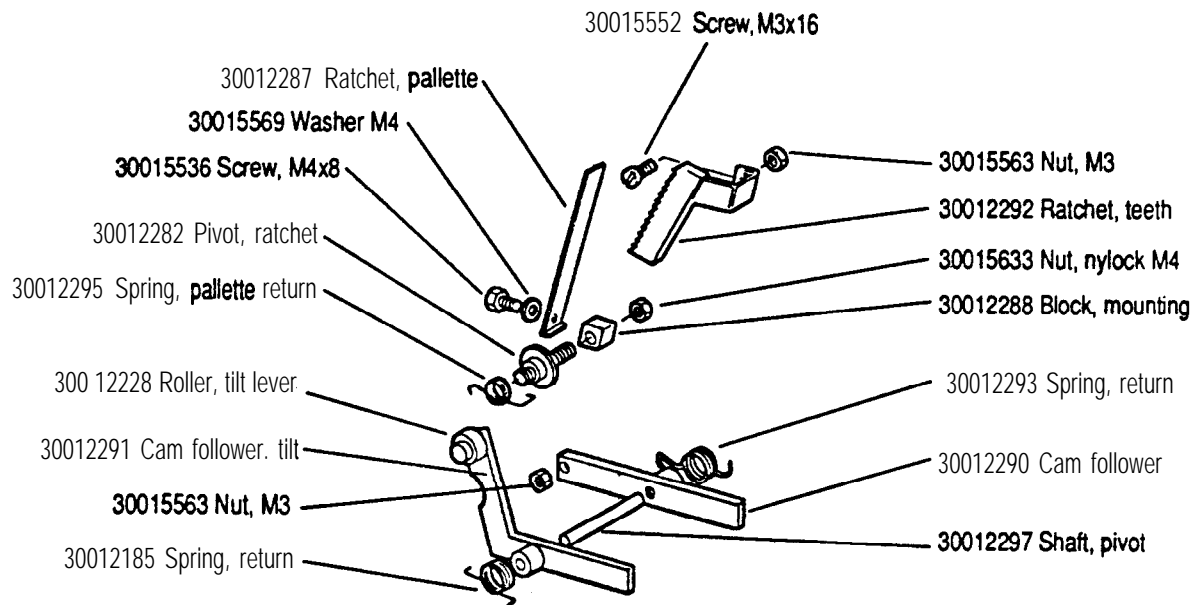
**This** illustration for **Machines** with Serial Numbers below 1217.  
For machines with Serial Numbers 1217 and up, see pages PL33A

Please order by Part Number



This Illustration for machines without lift before tilt  
For machines with lift before tilt see pages PL38 and PL39

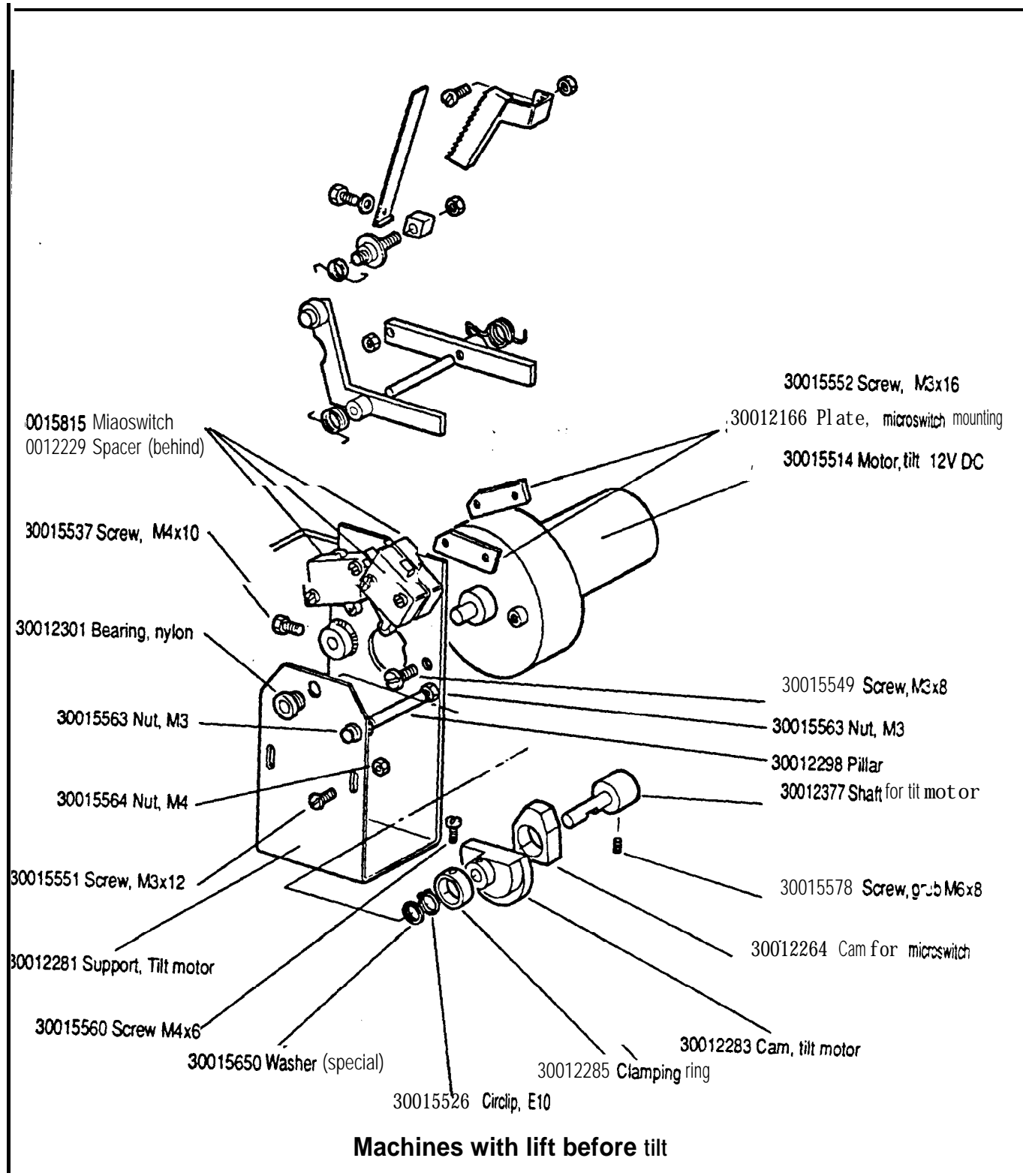
Please order by Part Number



**Machines with lift before tilt**

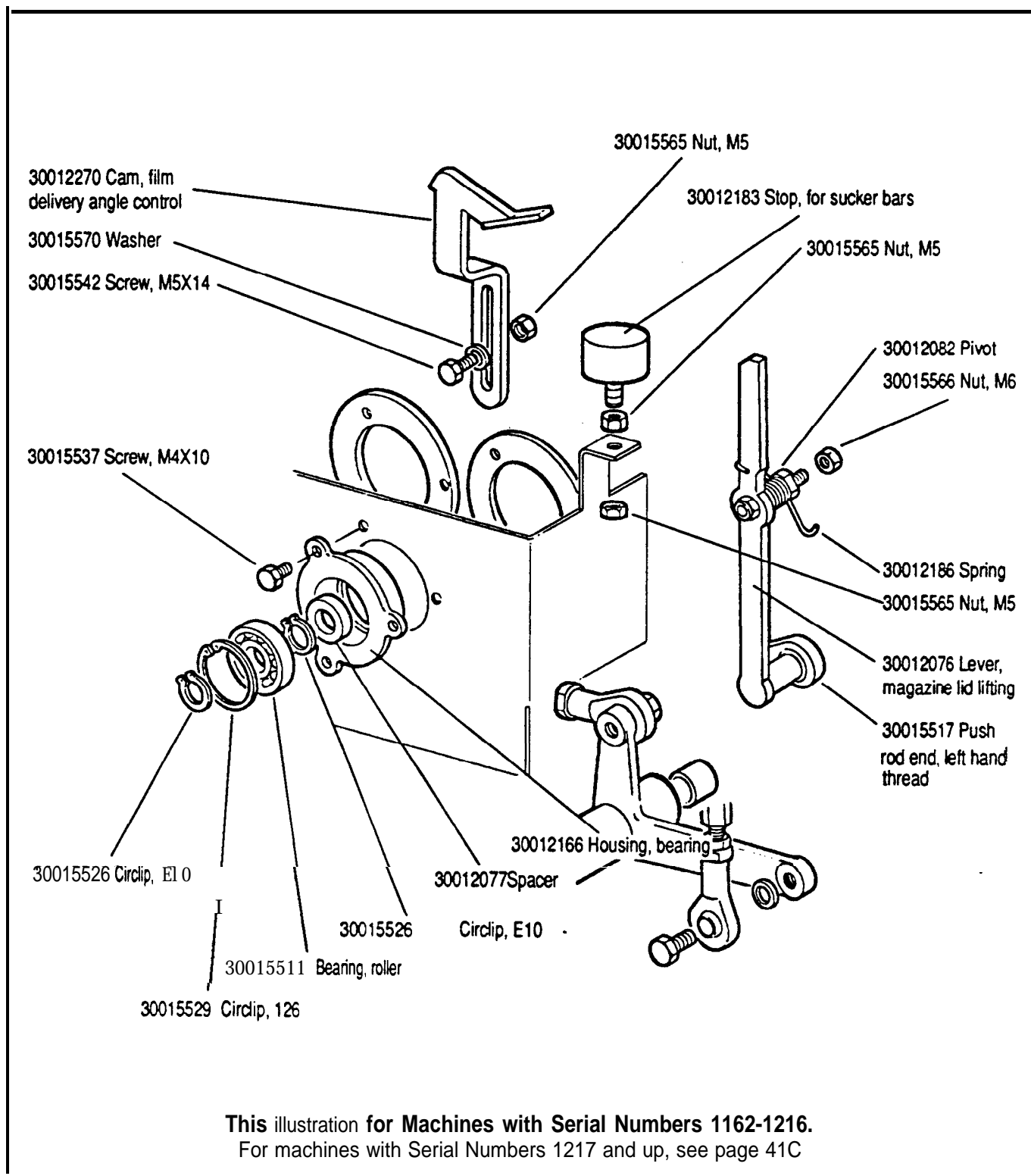
Also see page PL39

**Please order by Part Number**



Also see page PL38

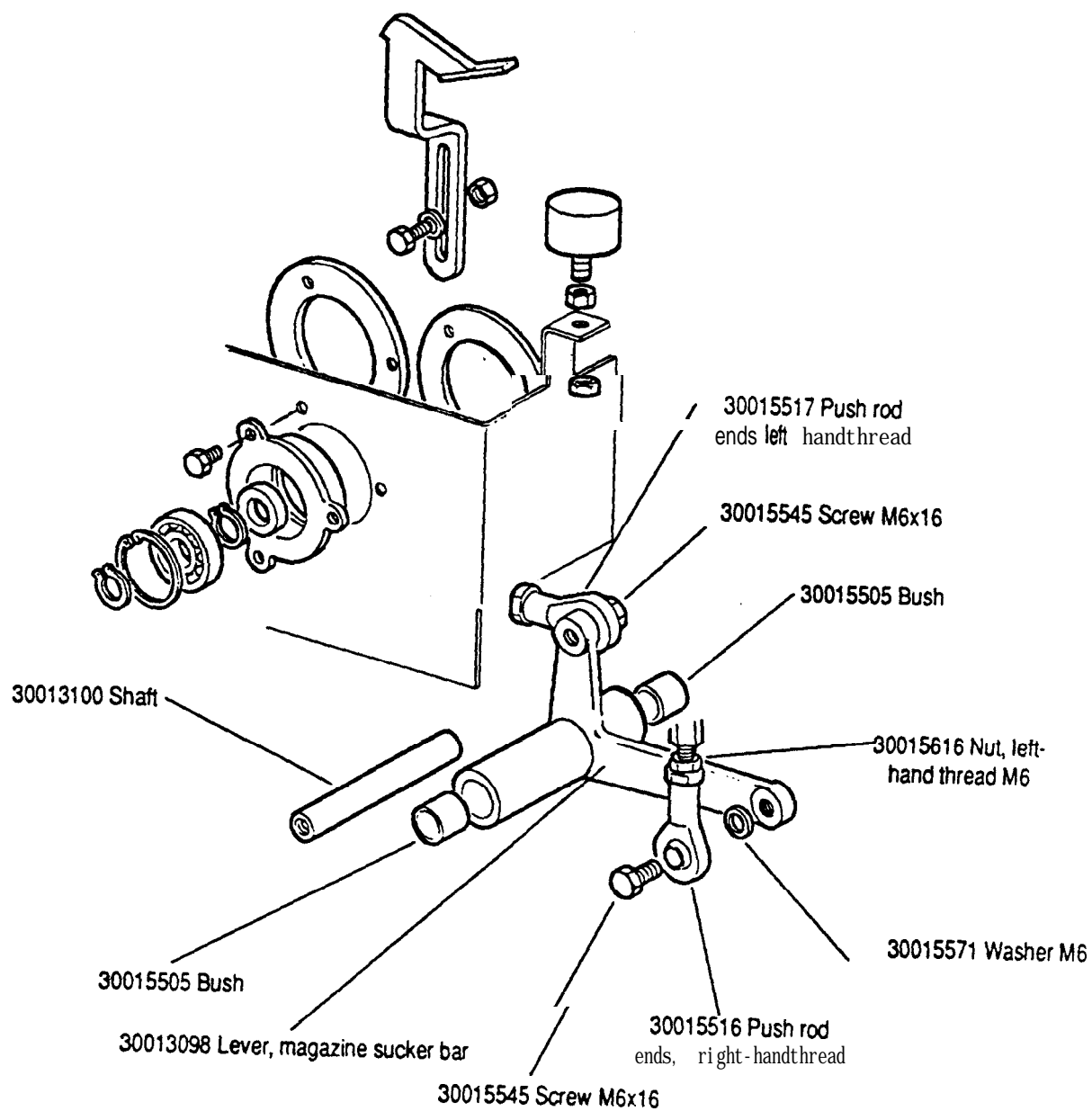
Please order by Part Number



Also see page PL41

**Please order by Part Number**

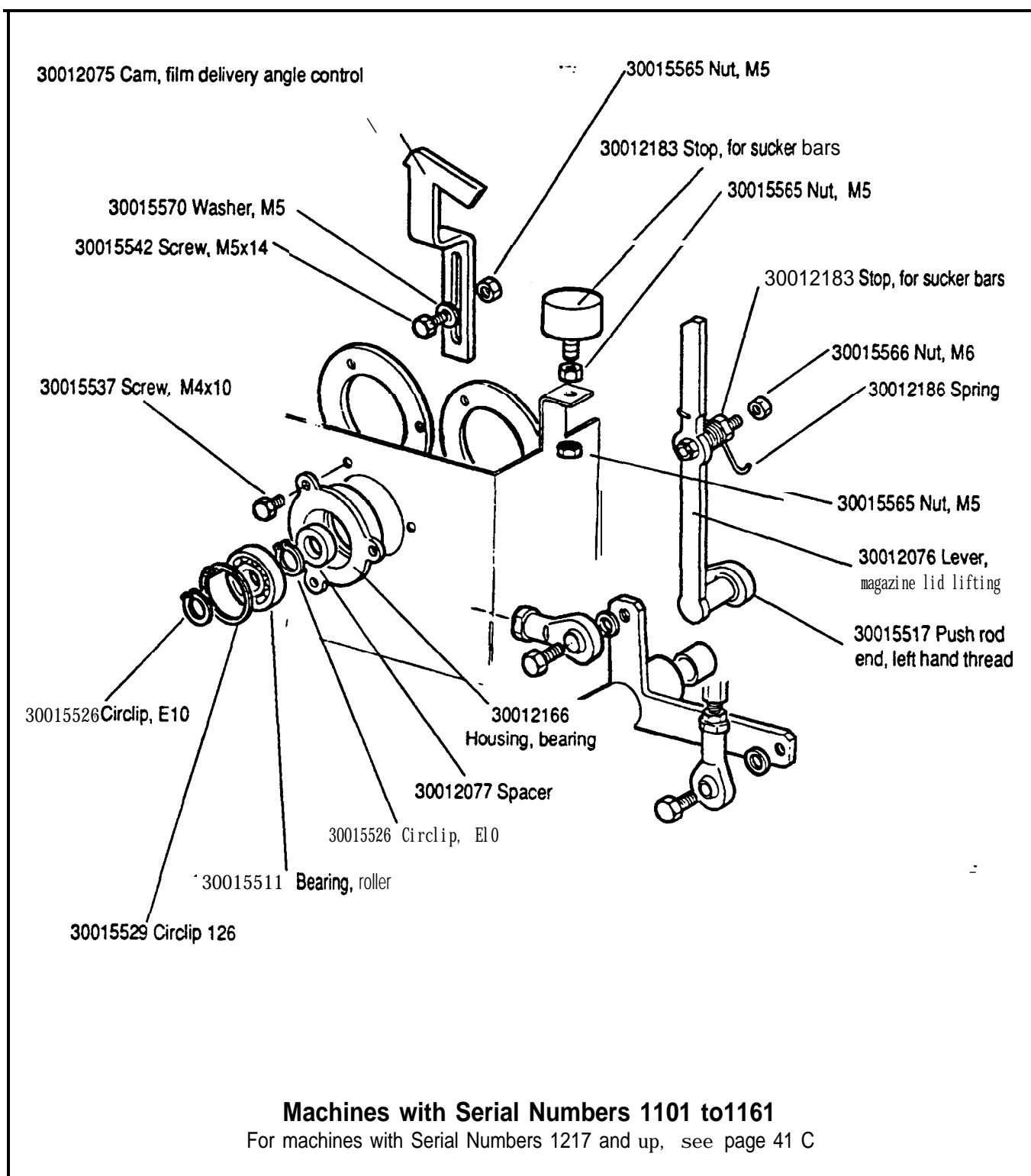




This **illustration** for Machines with Serial Numbers 1162-1216.  
For machines with Serial Numbers 1217 and up, see page 41C

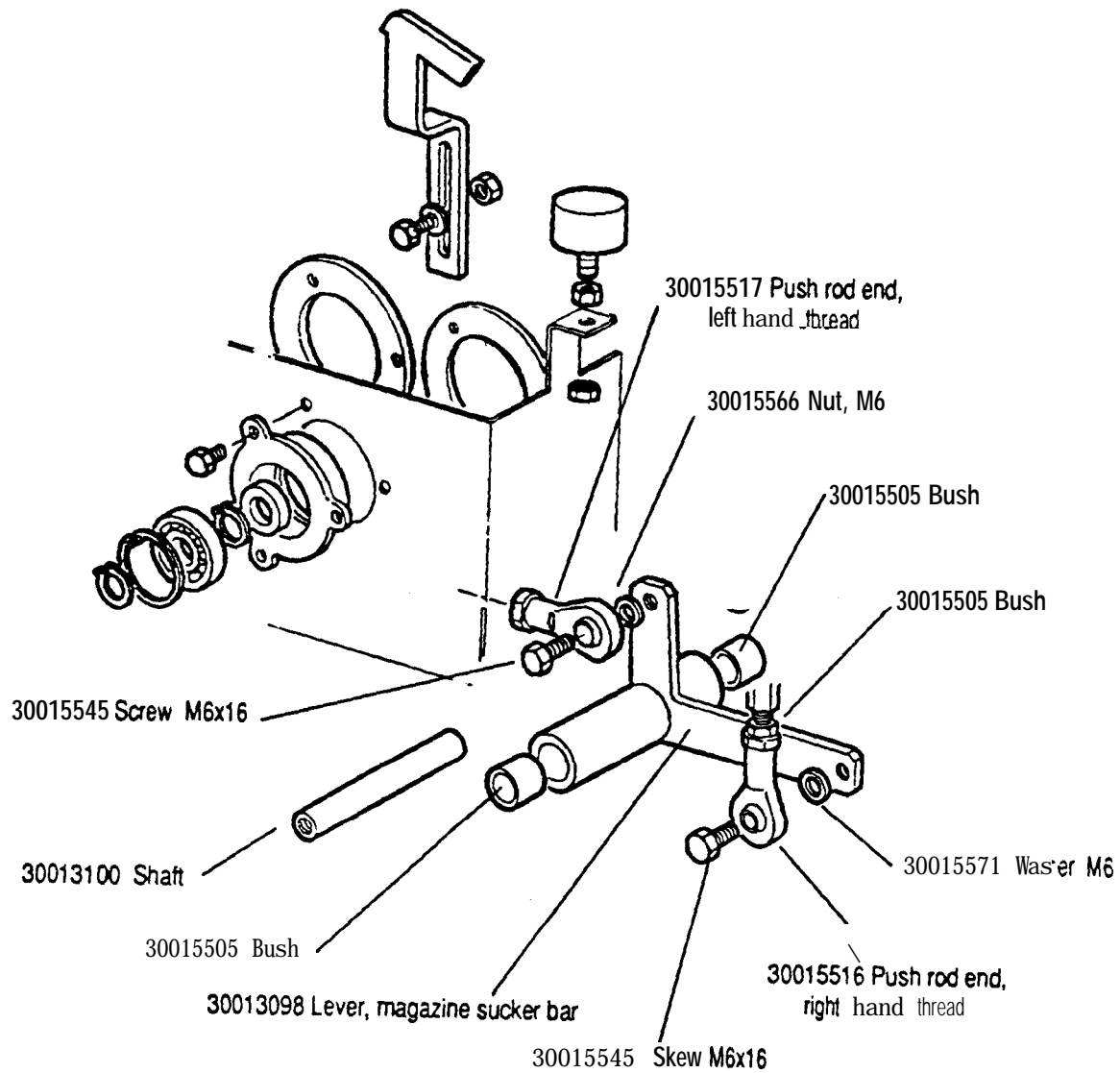
Also see page PL40

Please order by Part Number



Also see page PL41B

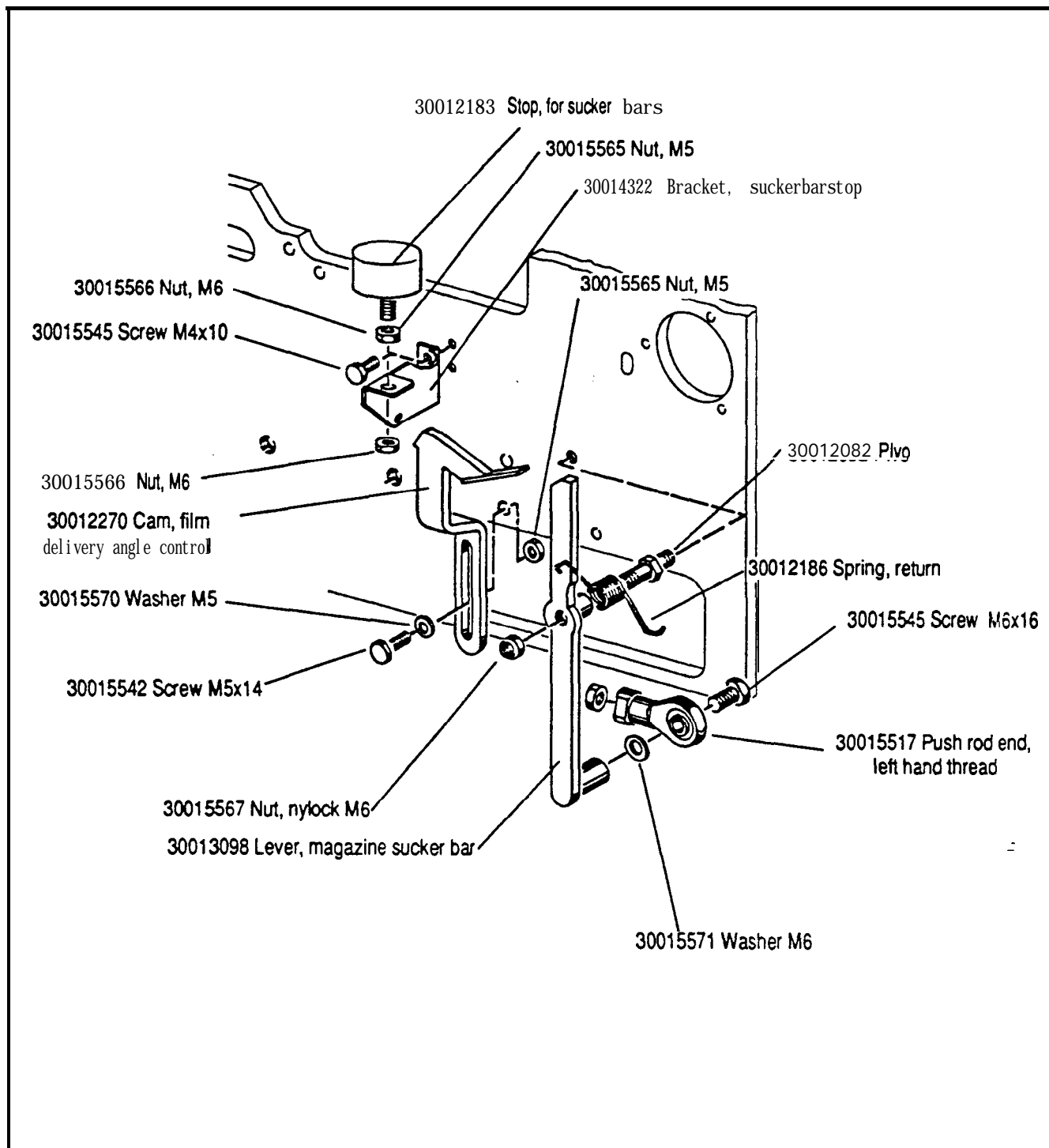
Please order by Part Number



**Machines with Serial Numbers 1101 to 1161**  
 For machines with Serial Numbers 1217 and up, see page 41 C

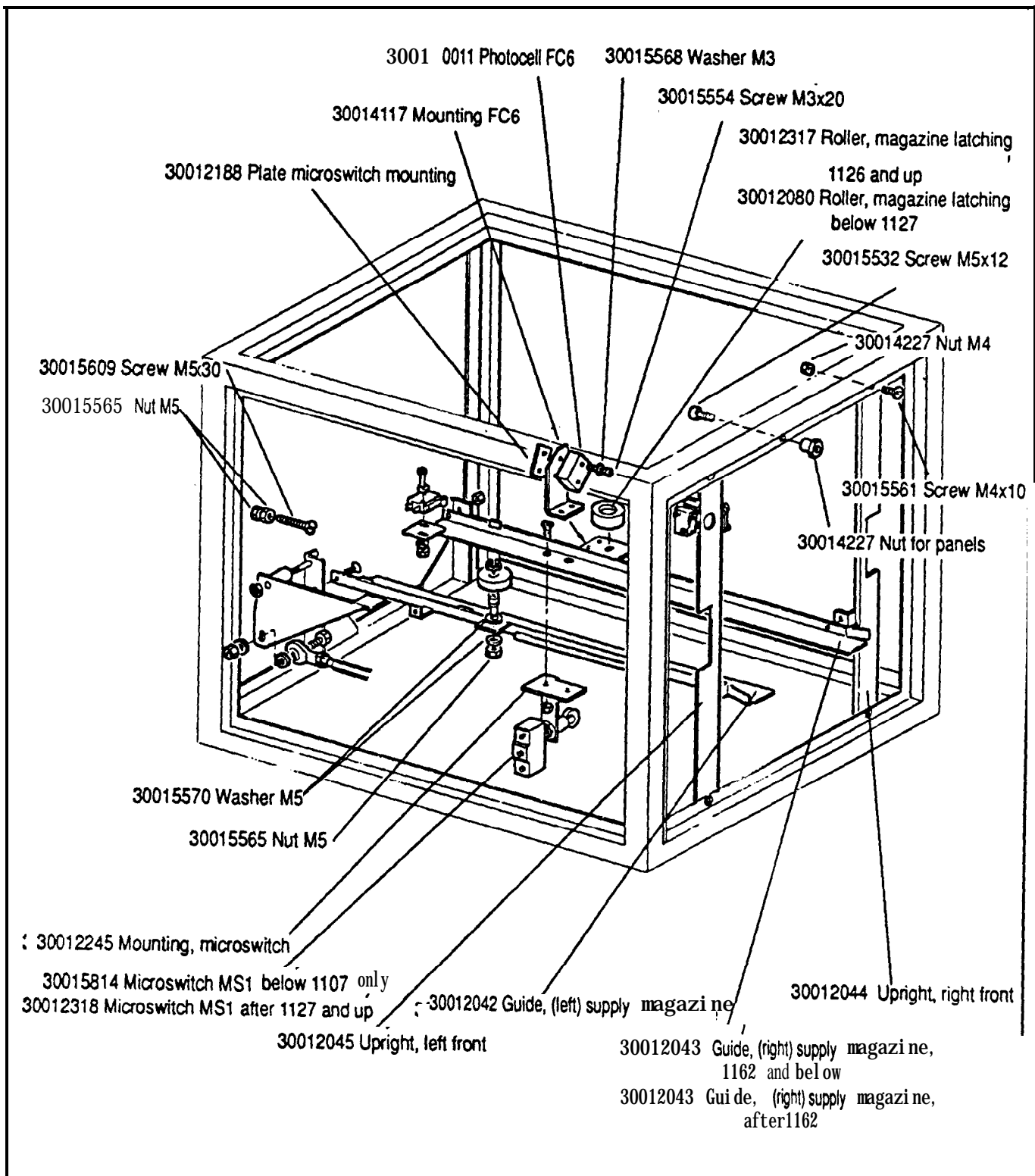
Also see page PL41 A

**Please order by Part Number**



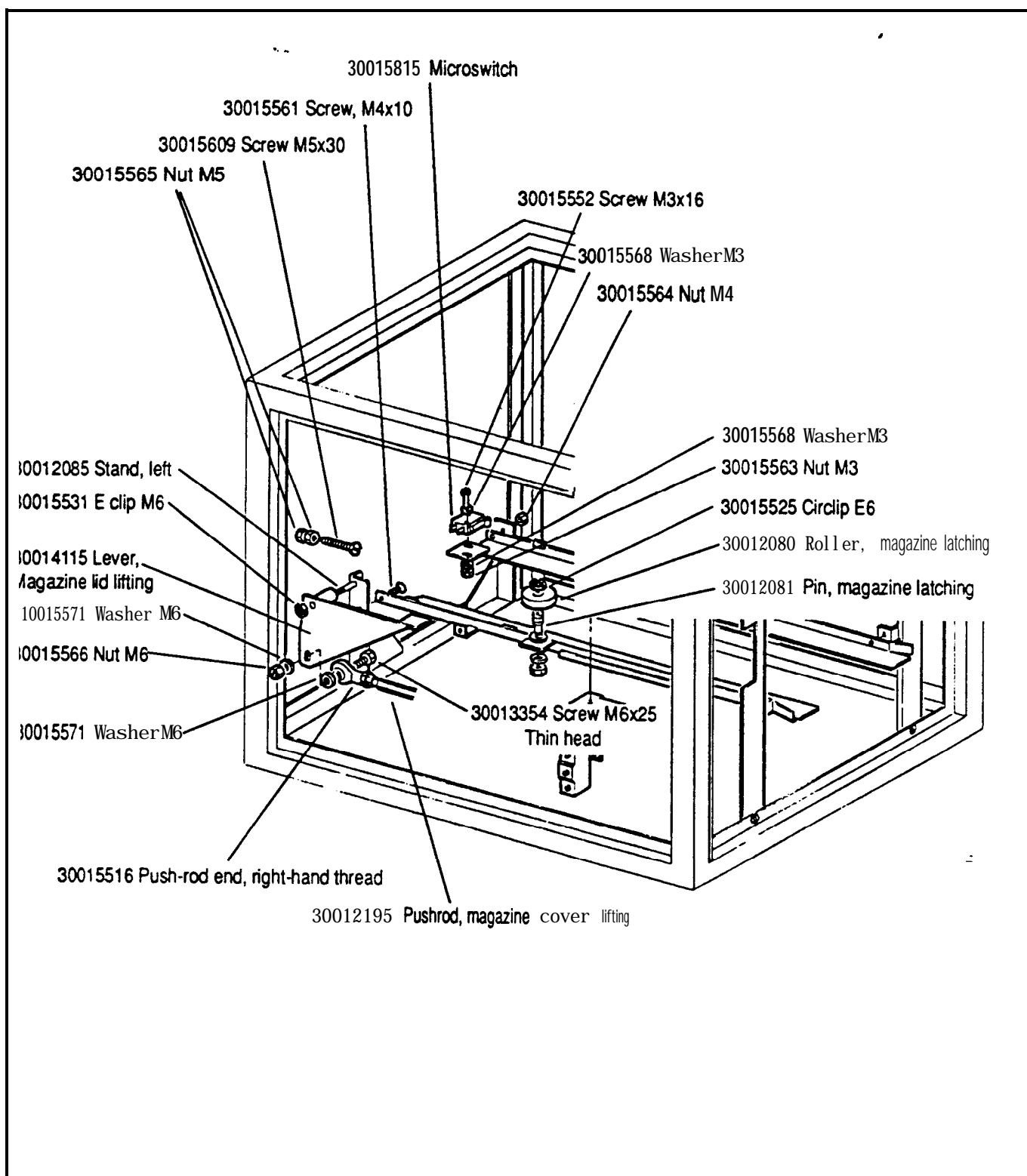
Machines with Serial Numbers 1217 and up

Please order by Part Number



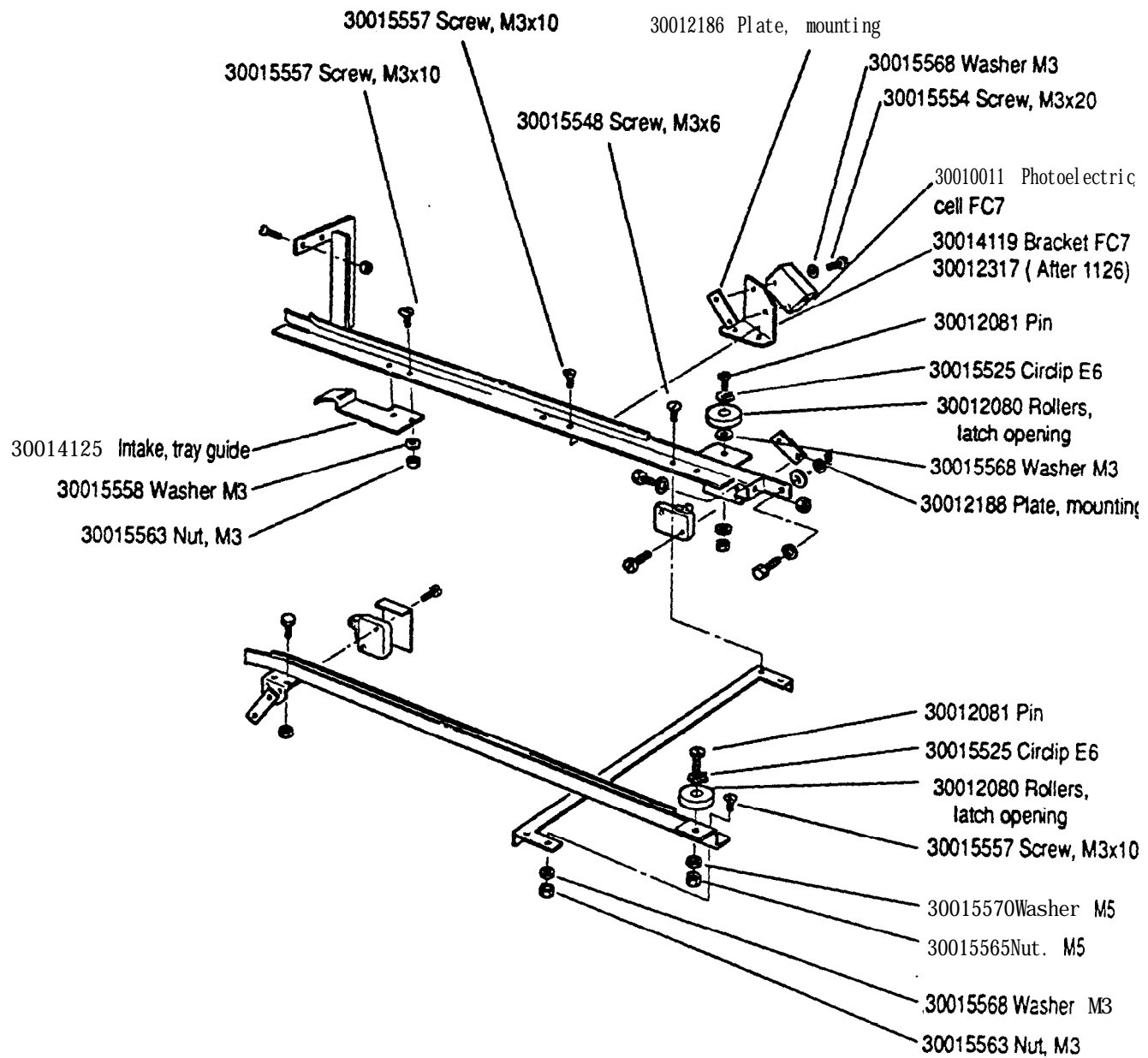
Also see page PL43

Please order by Part Number



Also see page PL42

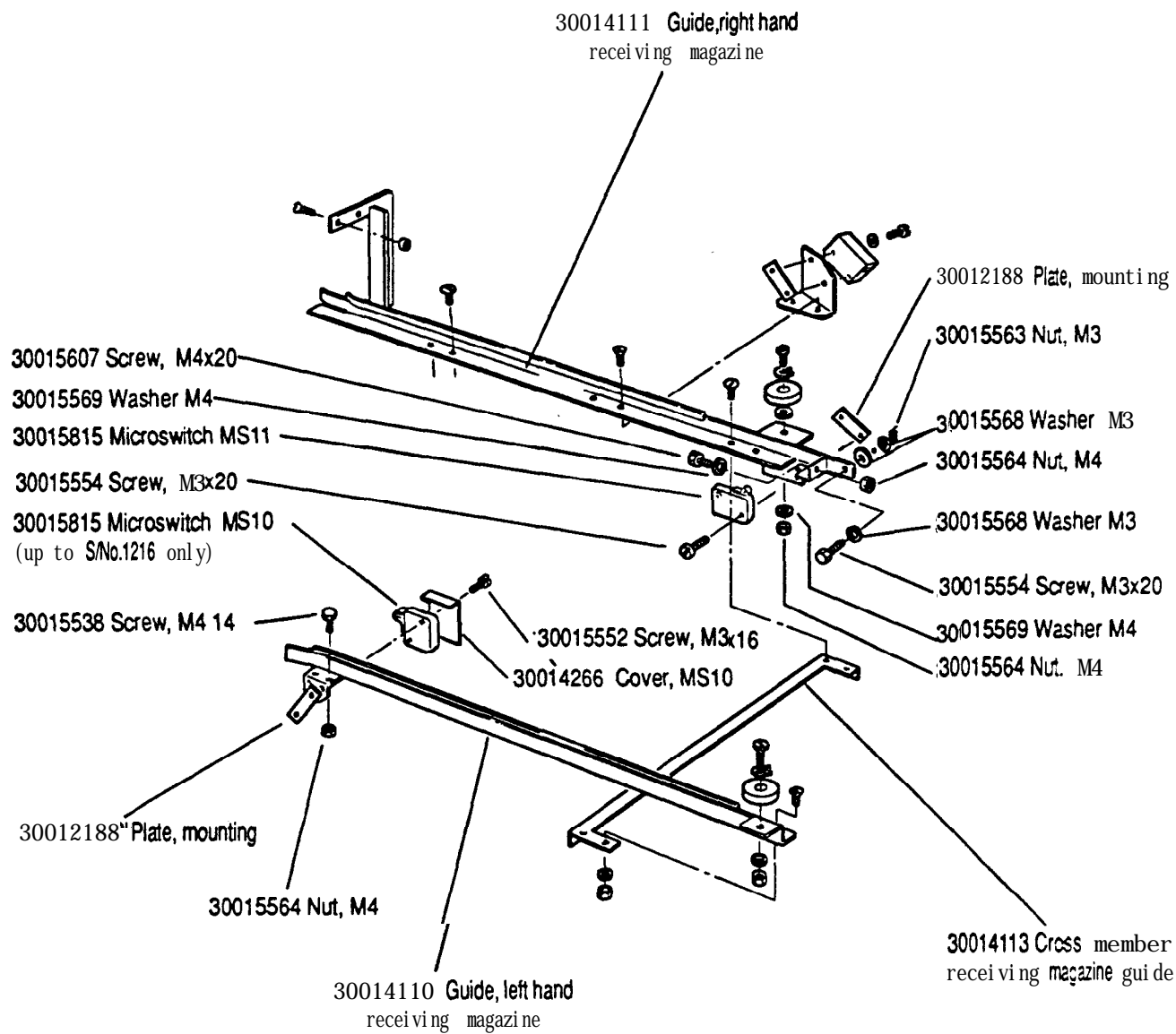
Please order by Part Number



Stand-alone version only

Also see page PL45

Please order by Part Number

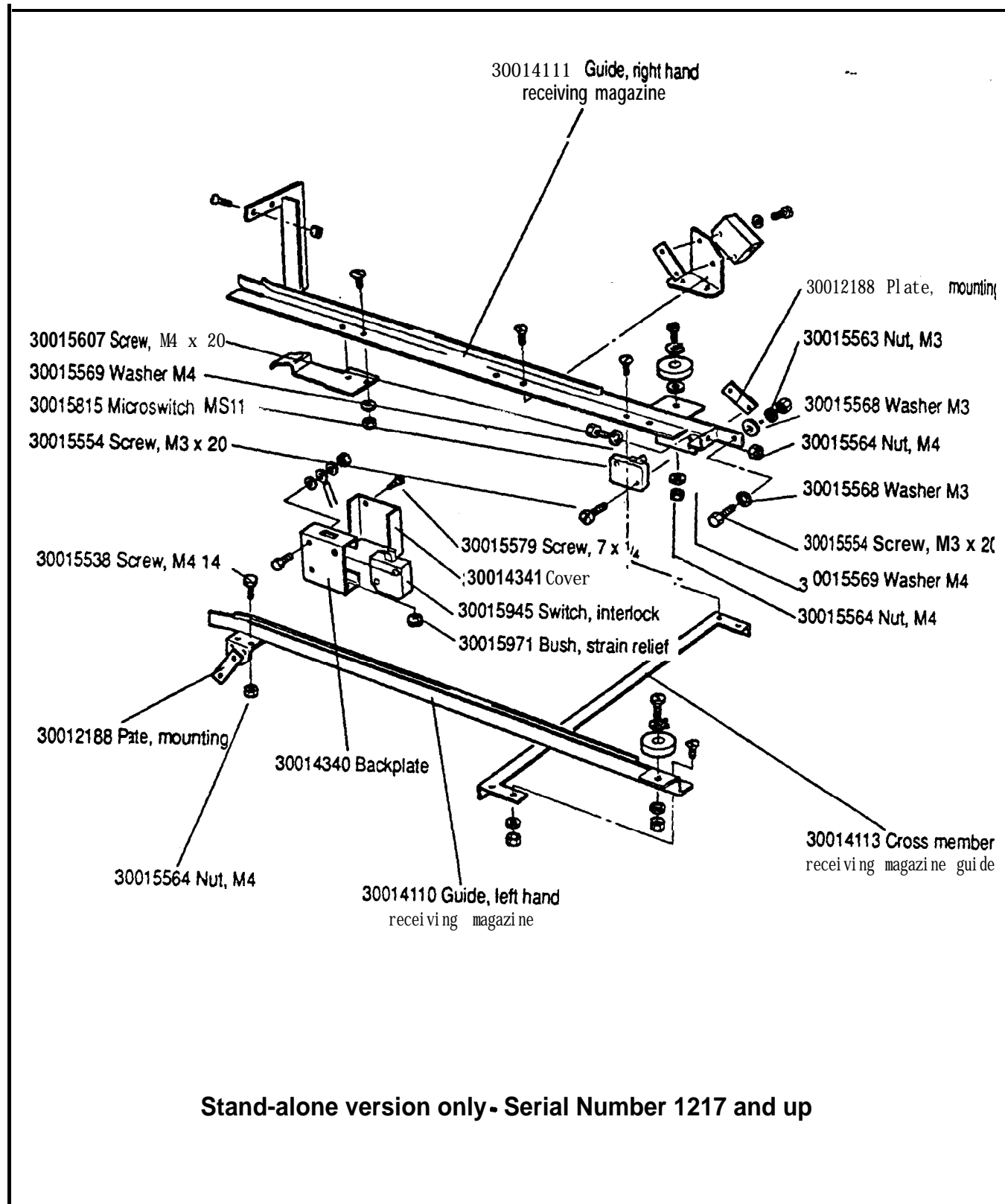


**Stand-alone version only**

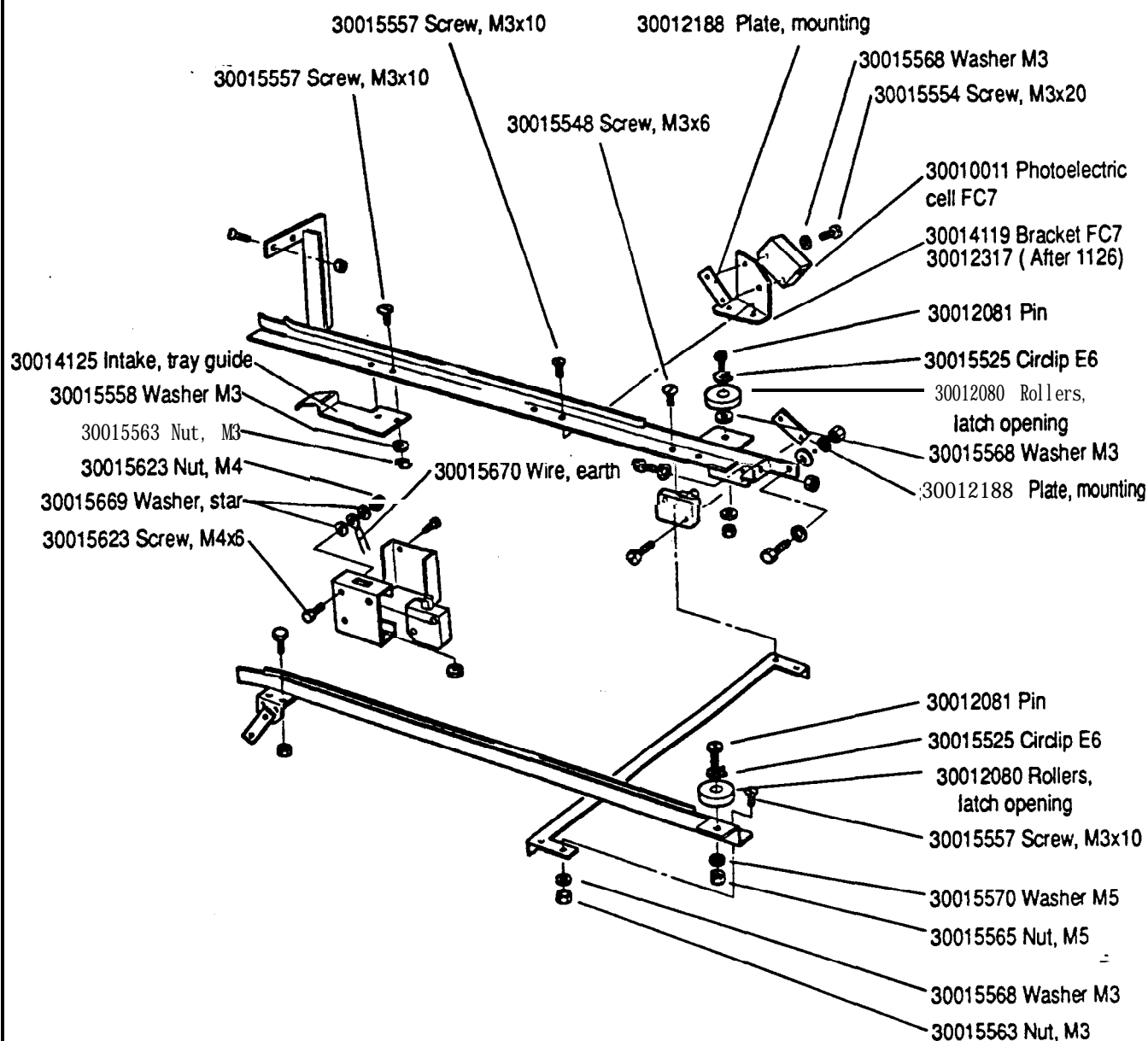
Also see page PL44

**Please order by Part Number**



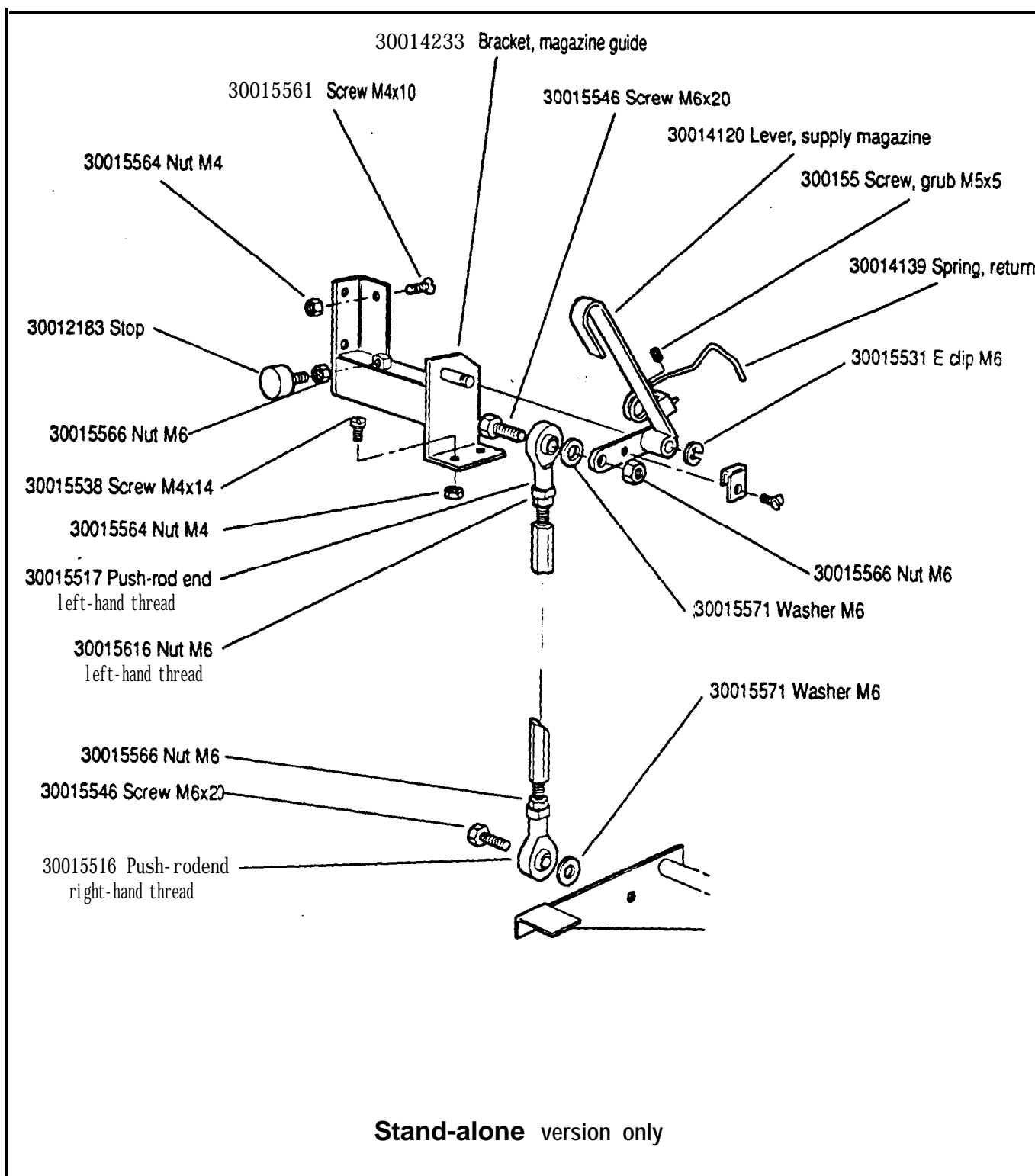


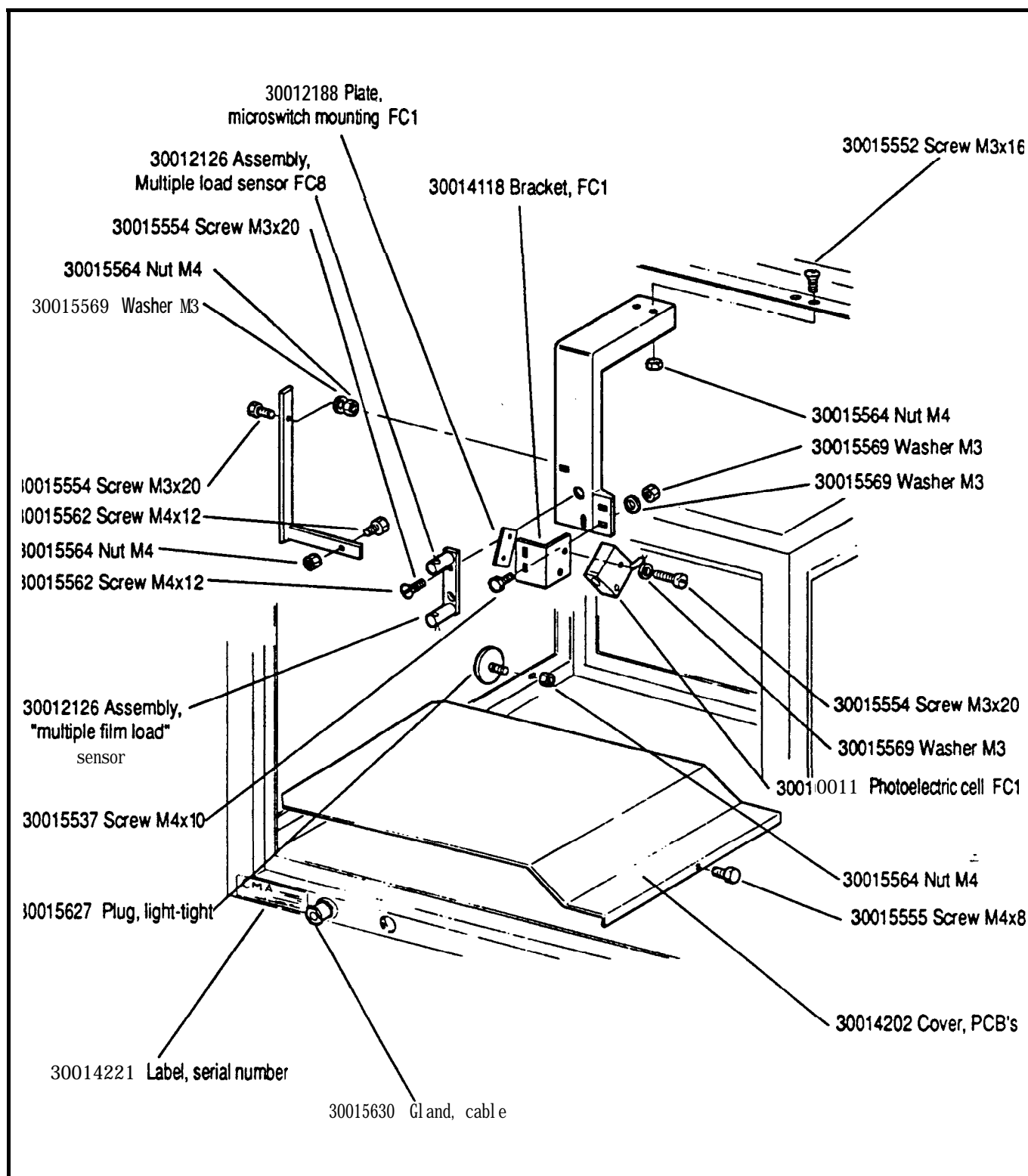
Please order by Part Number



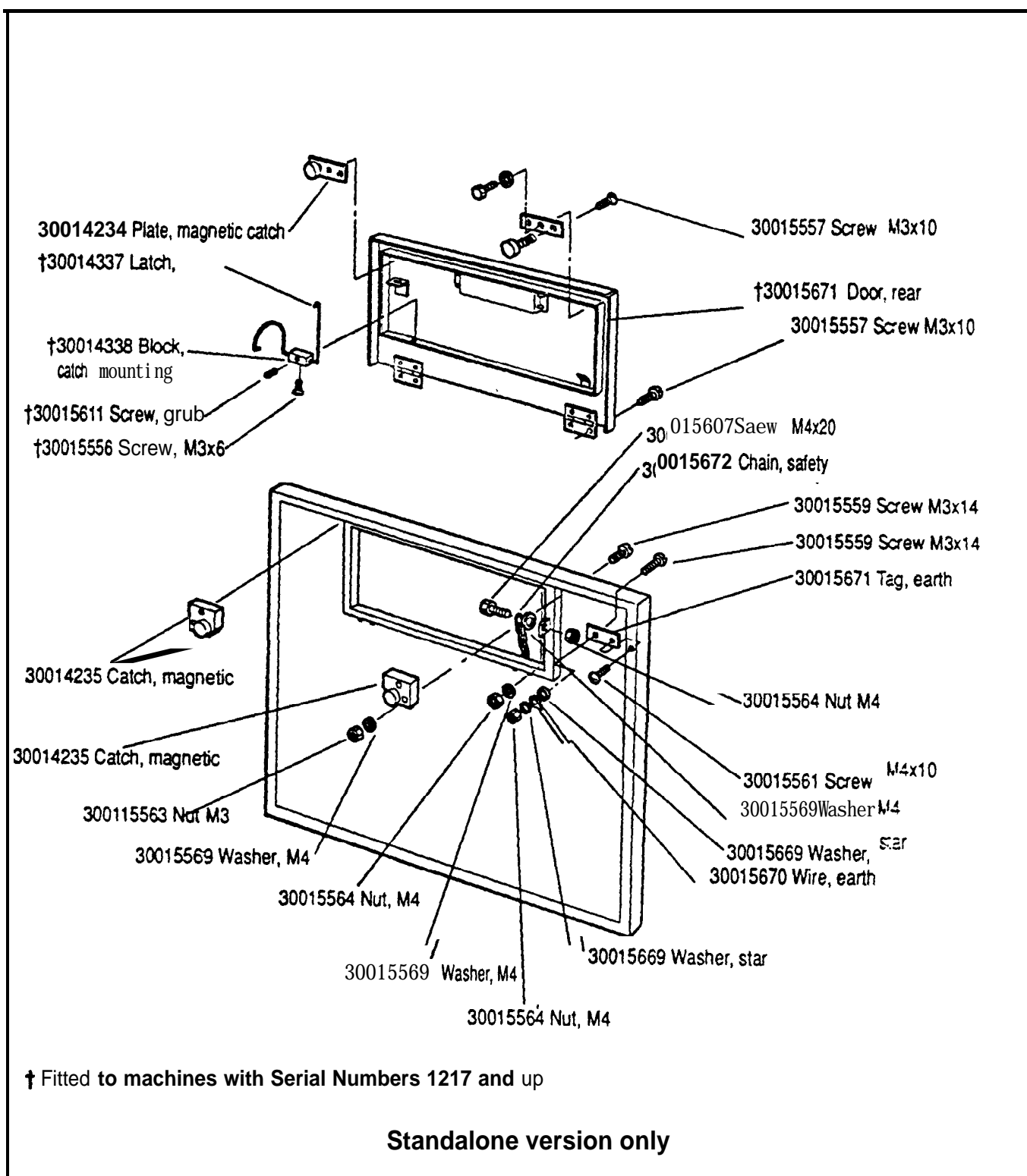
Stand-alone version only • Serial Number 1217 and up

Please order by Part Number

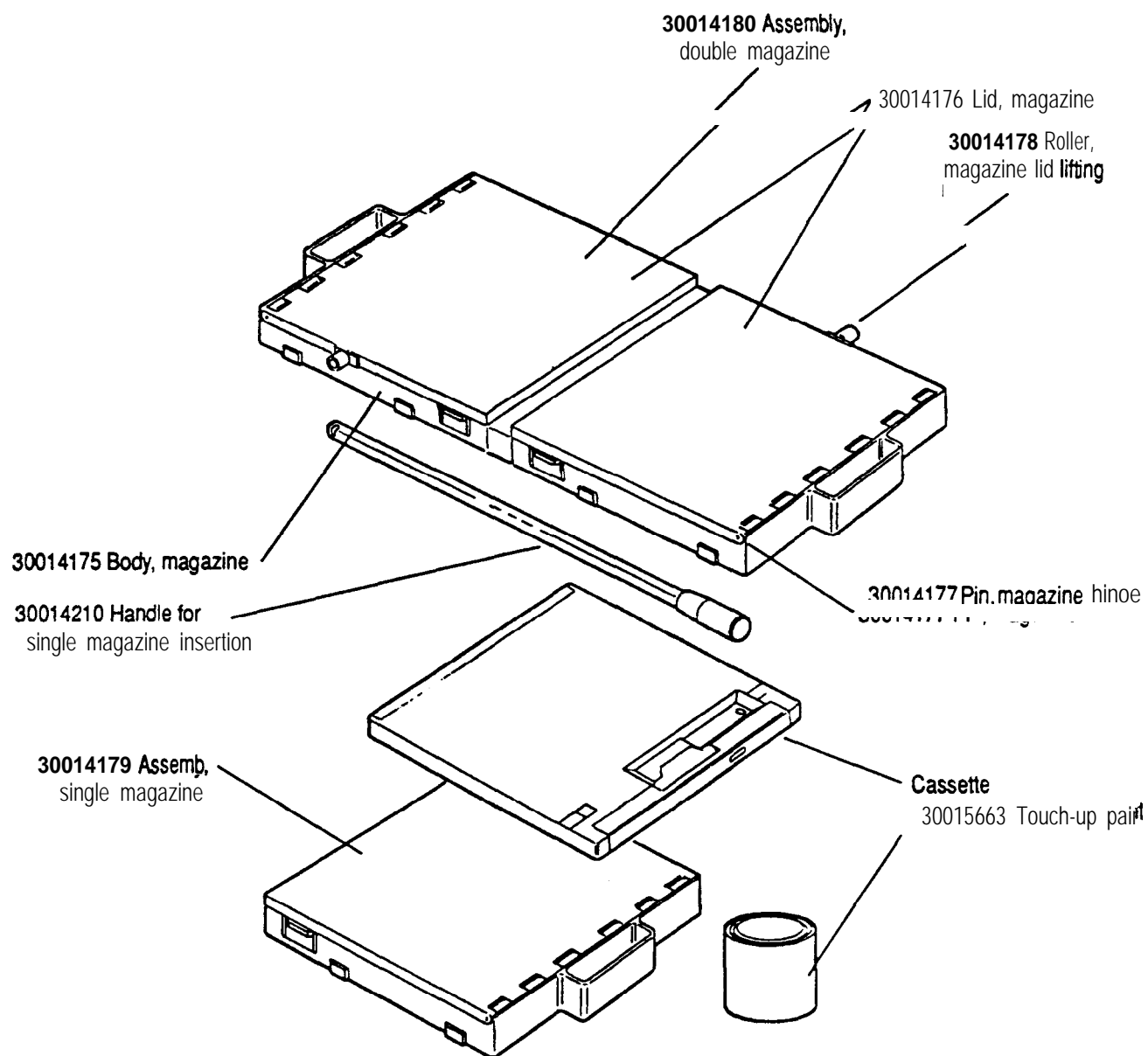
**Please order by Part Number**



Please order by Part Number



Please order by Part Number



Please order by Part Number

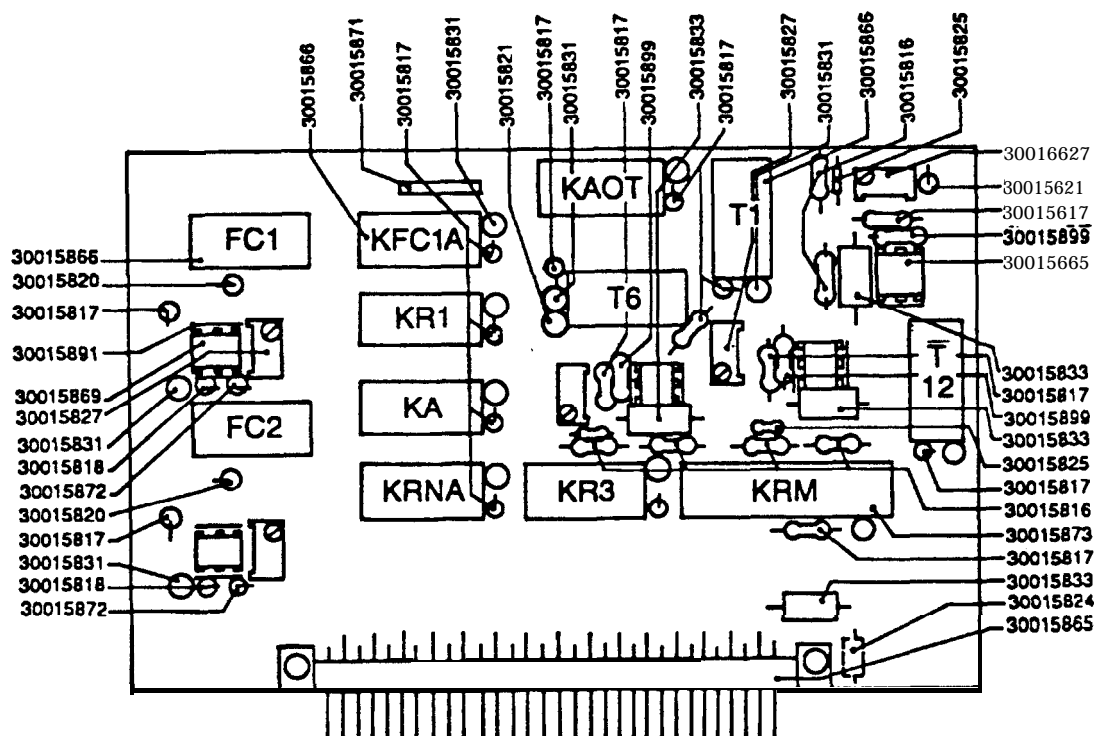
Printed circuit Boards  
for the  
Minifoader

---

Please order by Part Number

**PCB 101**

Assembly 30015801

No *longer available*

Fitted to machines with Serial Number 1101 to 1161  
except for Miniloaders with NO "M" suffix.

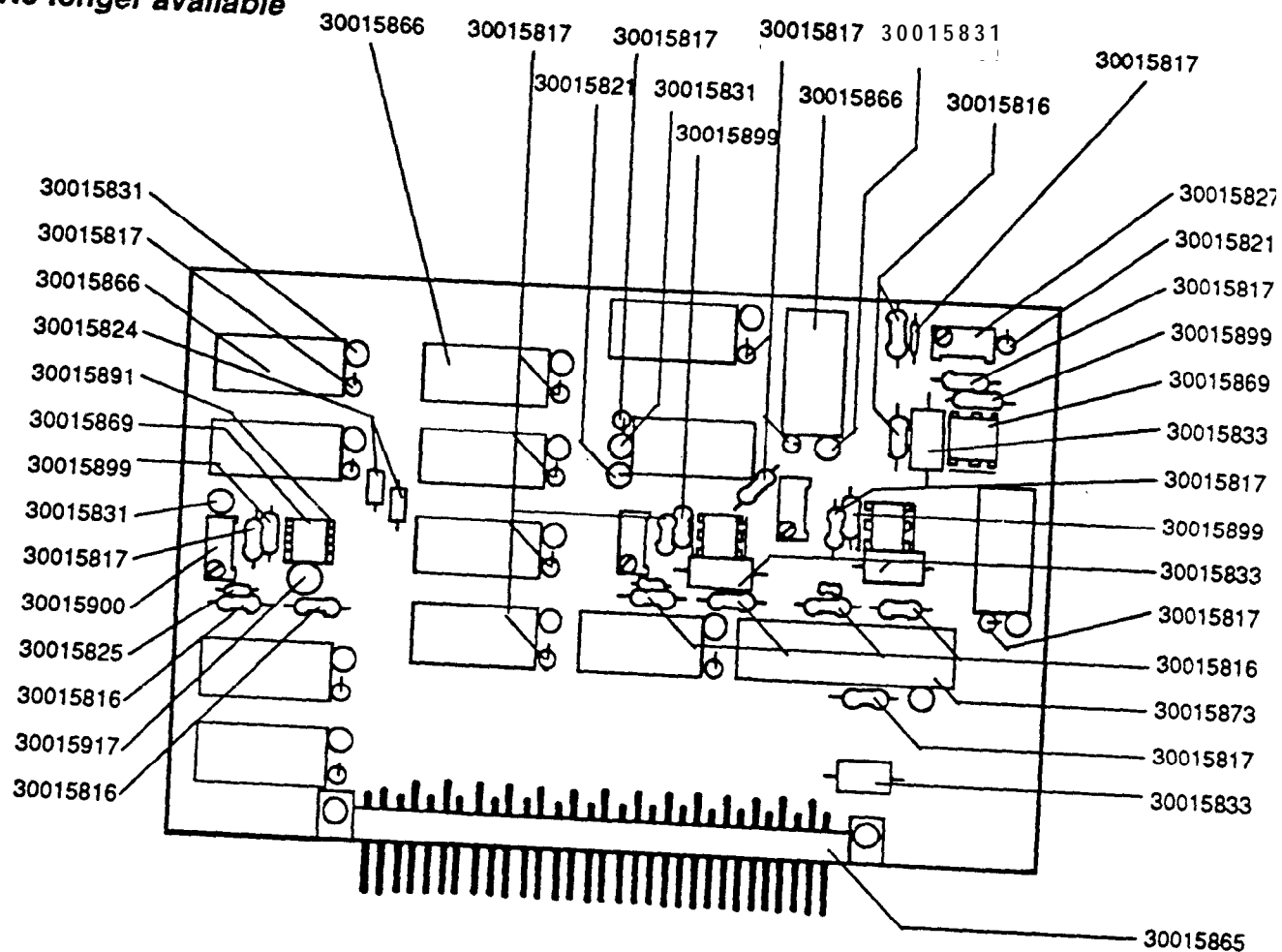
**REPLACED BY PCB 101 M (30015966)**

Please order by Part Number



**PCB 101A**

Assembly 30015925

**No longer available**

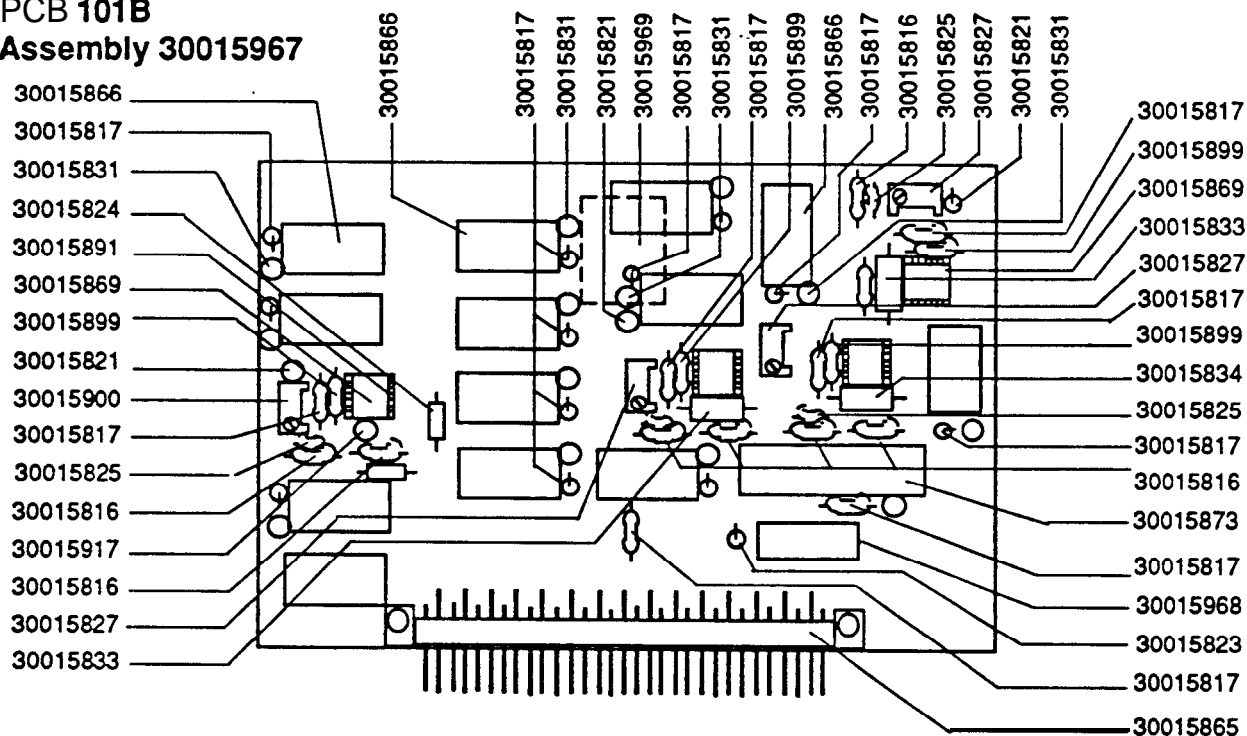
Fitted to Miniloaders with Serial Number 1162 to 1344  
 and Miniloaders with Serial Number 1101M to 1161M  
**REPLACED BY PCB 101B (3001 5967)**

Please order by Part Number

## Replacement for PCB 101A

## PCB 101B

## Assembly 30015967



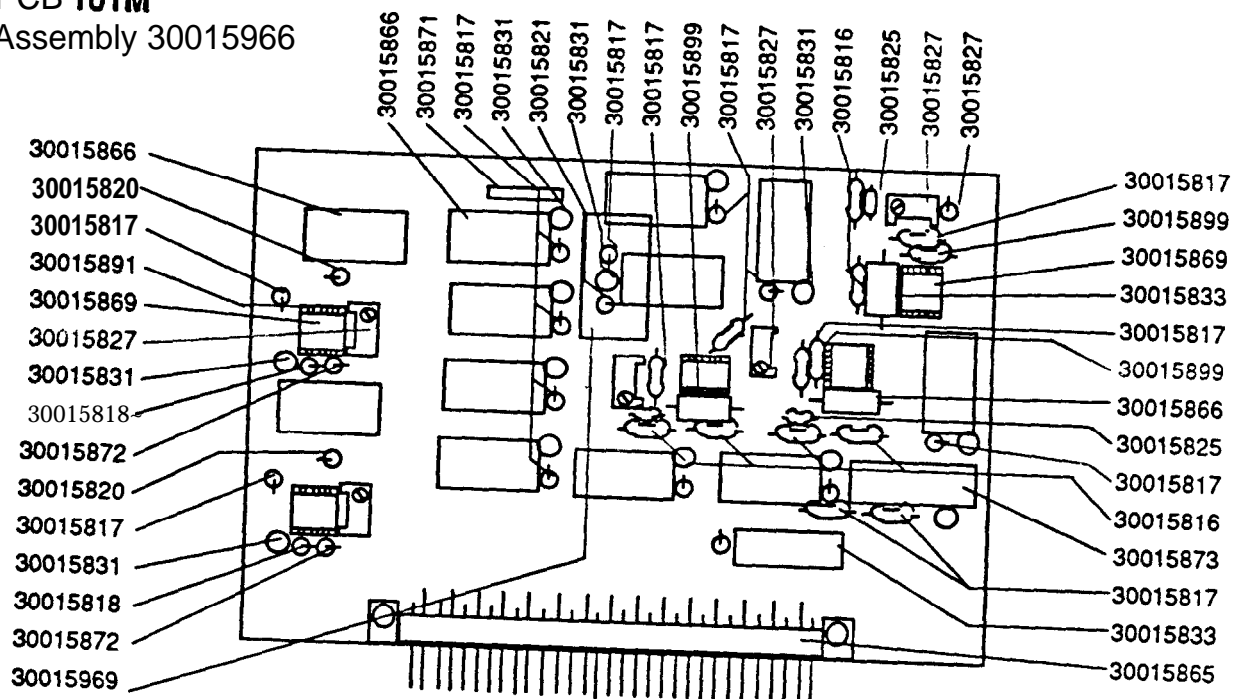
Fitted to Miniloader with Serial Number 1345 and up  
 (Also fitted to Miniloader with Serial Number 1101 M to 1161M  
 and Serial Numbers 1162 to 1344 as Mod M28 Type 1)  
**REPLACES PCB 101A (300159%)**

Please order by Part Number

## Replacement for PCB 101

## PCB 101M

Assembly 30015966

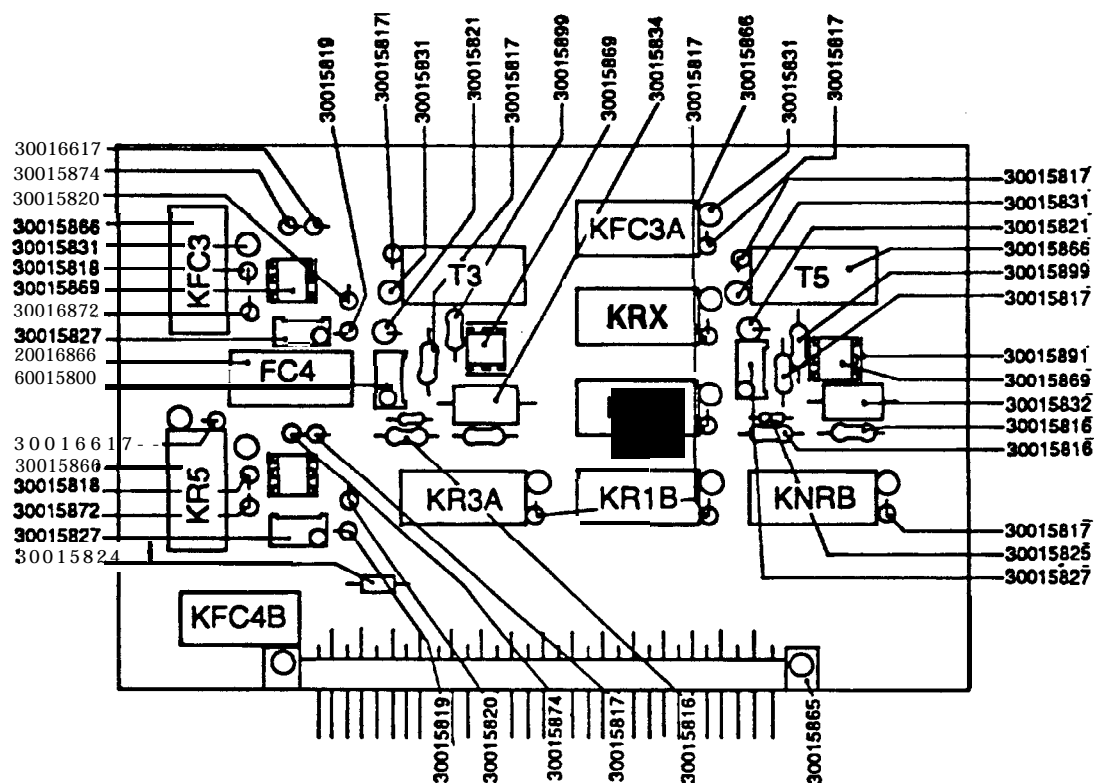


Fitted to Miniloaders with Serial Number **1101** to 1161 as Mod M29 (Type 1)  
(Except Miniloaders with Serial Number **1101M** to **1161M**)

**REPLACES PCB 101 (30015801)**

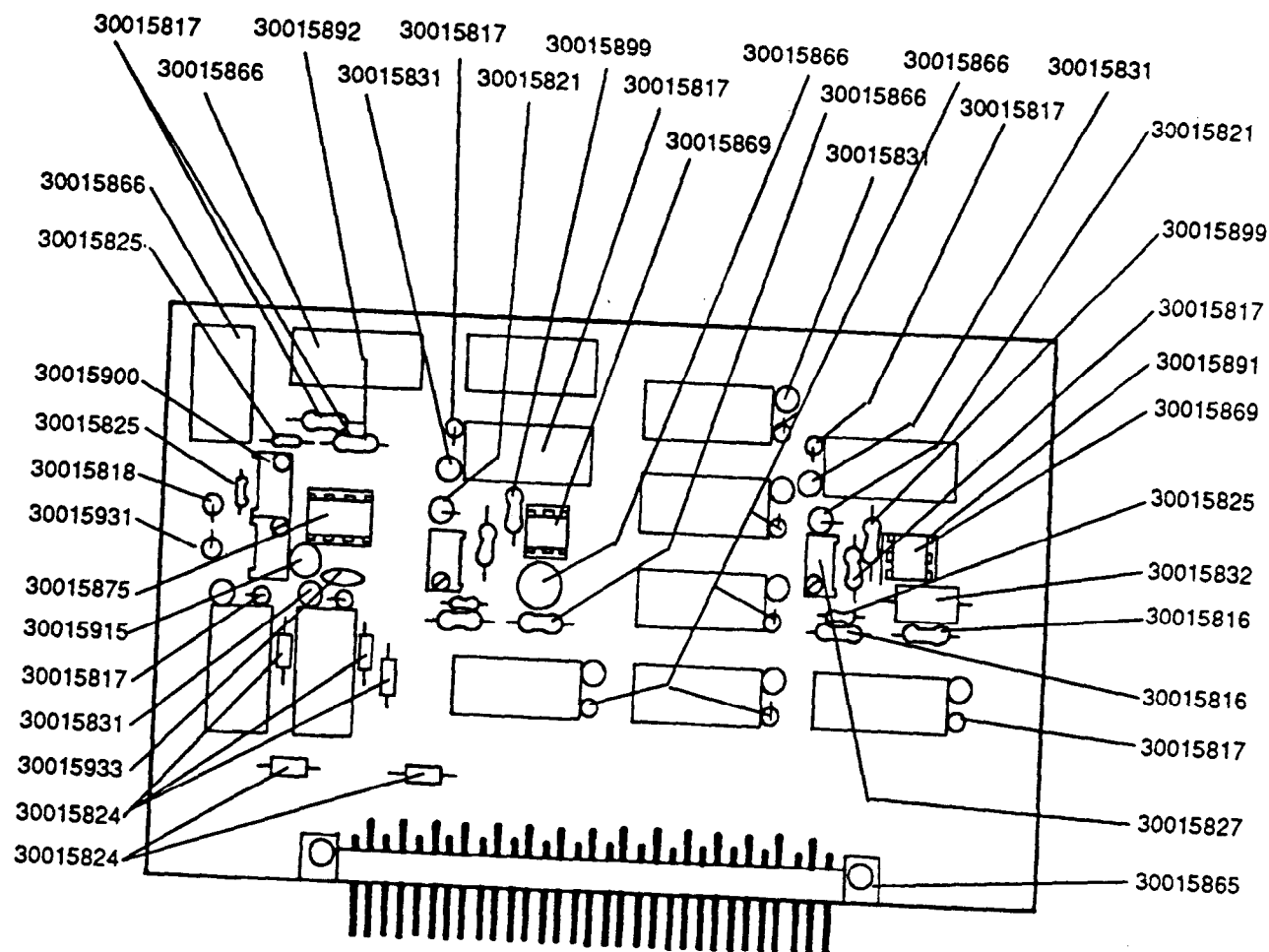
Please order by Part Number

**PCB 102**  
**Assembly 30015802**



Fitted to Miniloaders with Serial Number 1101 to 1161  
(Except Miniloaders with Serial Number 1101M to 1161M)

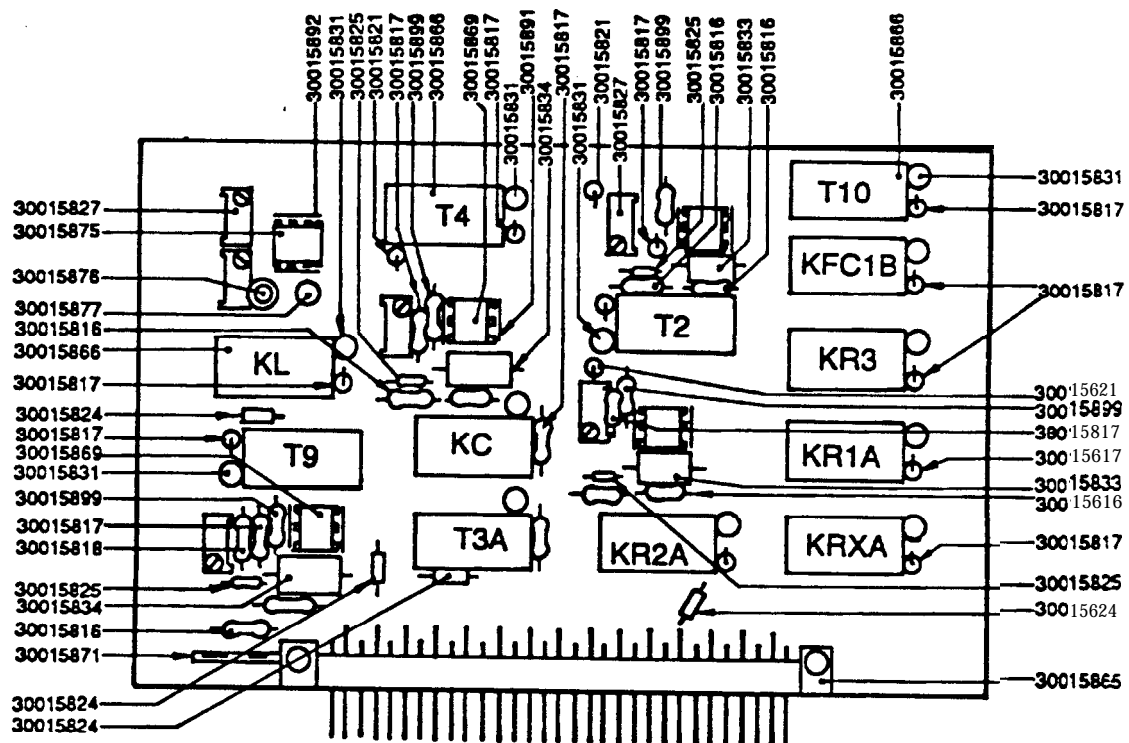
Please order by Part Number

**PCB 102A  
Assembly 30015926**

**Fitted to Miniloaders with Serial Number 1762 and up  
plus Miniloaders with Serial Number 1101M to 1161M**

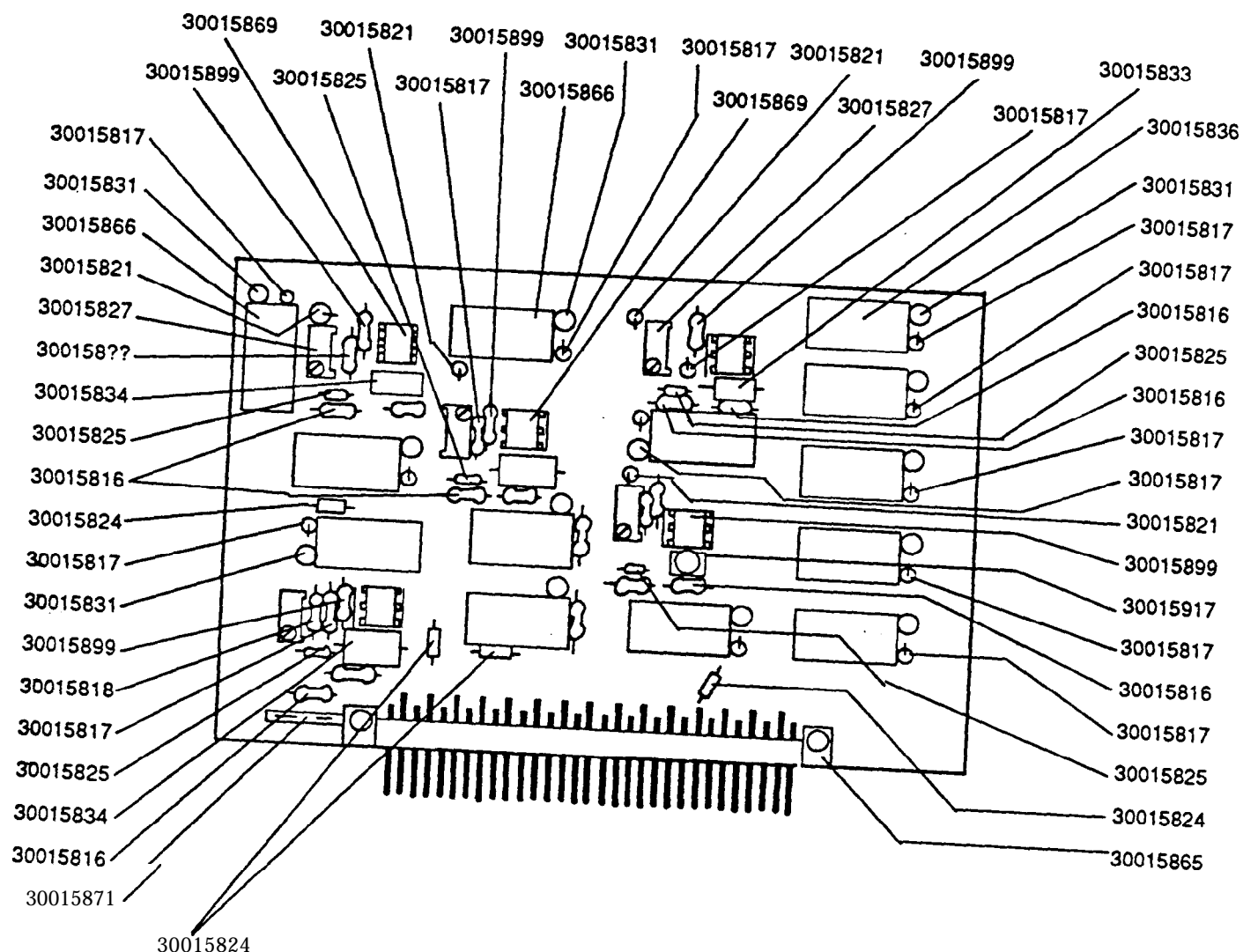
**Please order by Part Number**

PCB 103  
Assembly 30015803



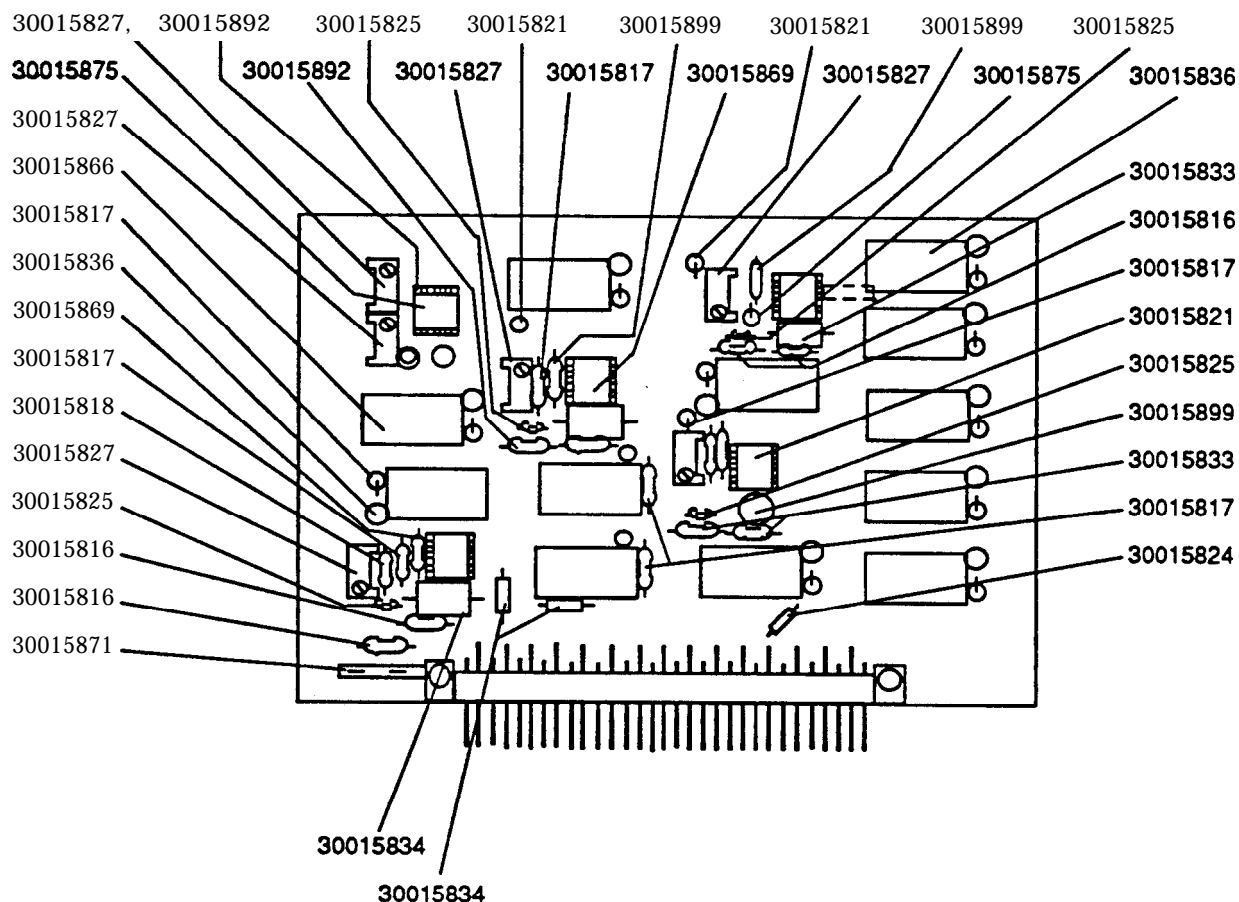
Fitted to Miniloaders with Serial Number 1101 to 1124 and 1126  
(Except Miniloaders with Serial Number 1101M to 1124M and 126M)

Please order by Part Number

**PCB 103A**  
**Assembly 30015927**

Fitted to Miniloaders with Serial Number 1162 and up  
plus Miniloaders with Serial Number 11 01M to 1161 M

Please order by Part Number

**PCB 103B**  
**Assembly 30015937**

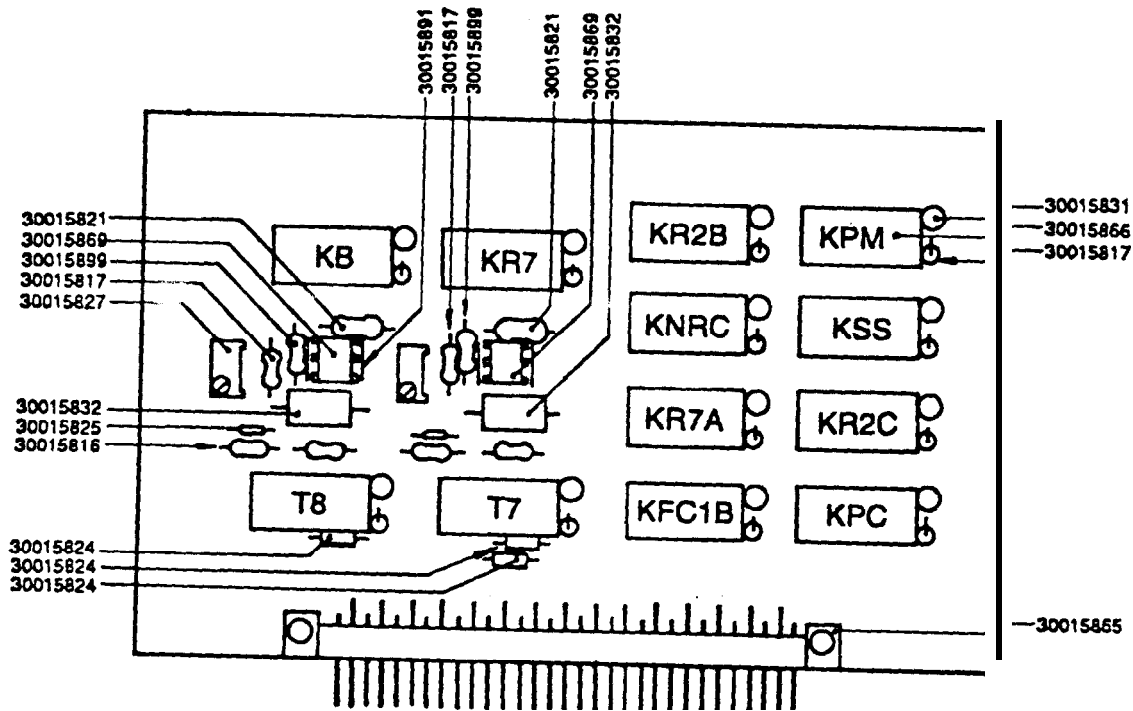
Fitted to Miniloaders with Serial Number 1125 and 1127 to 1161  
except Miniloaders with Serial Number 1125M and 1127M to 1161M

Please order by Part Number



**PCB 104**

Assembly 30015804

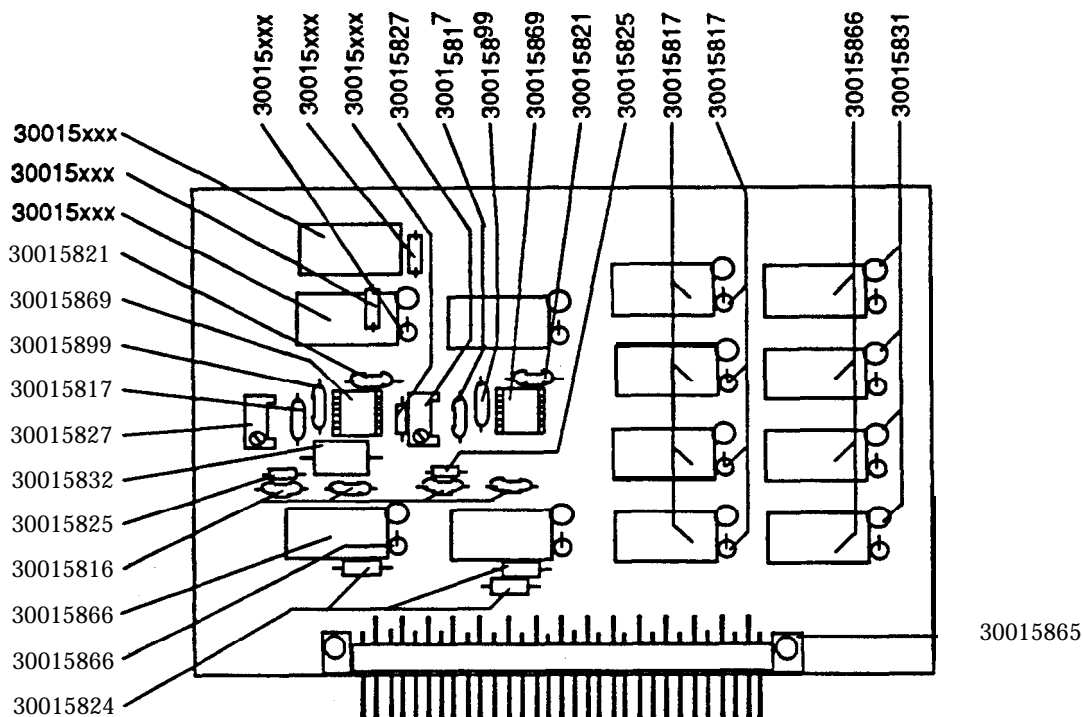
***No longer available***

Fitted to Miniloaders with Serial Number 1101 to 1216

**REPLACED BY PCB 104A (30015949)**

Please order by Part Number

**PC5 104A  
Assembly 30015949**

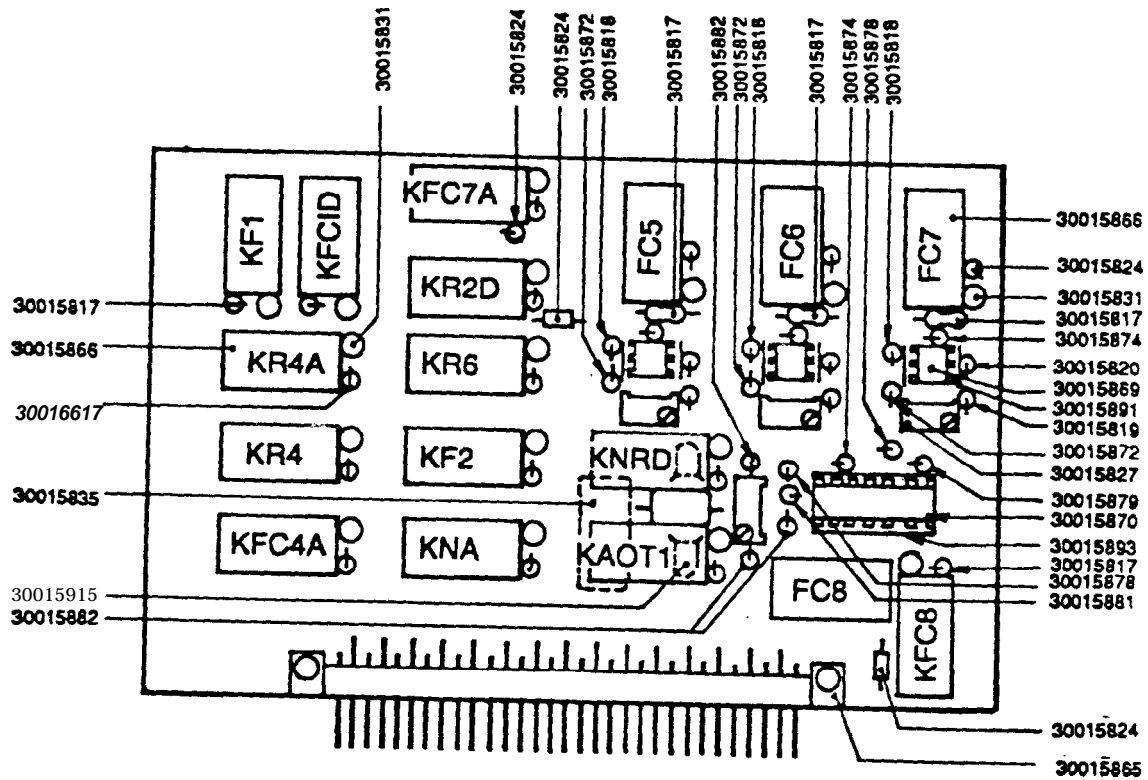


Fitted to Miniloaders with Serial Number 1217 and up

**REPLACES PCB 104 (30015804)**

Please order by Part Number

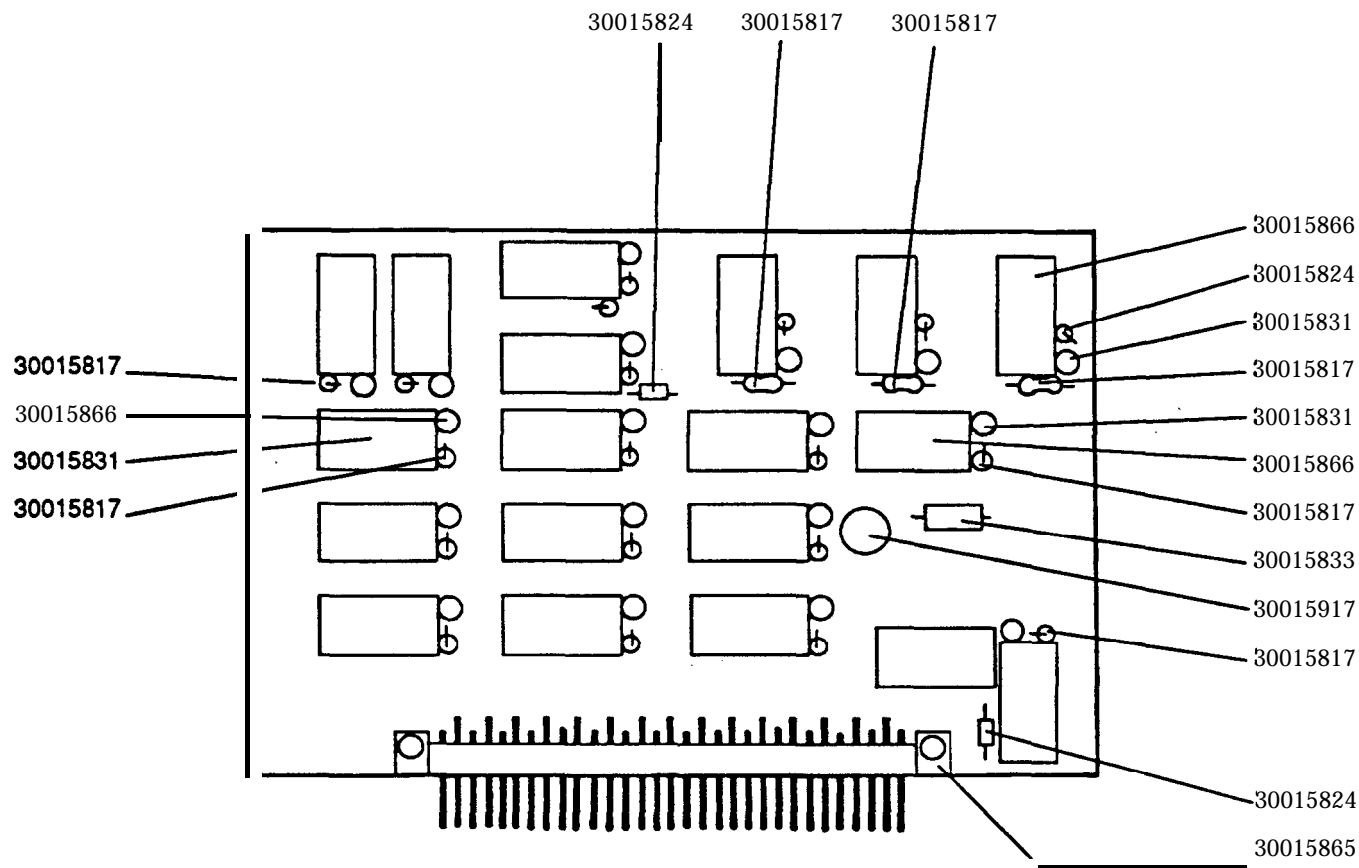
PCB 105  
Assembly 30015805



Fitted to Miniloaders with Serial Number 1101 to 1161  
except Miniloaders with Serial Number 1101M to 1161M

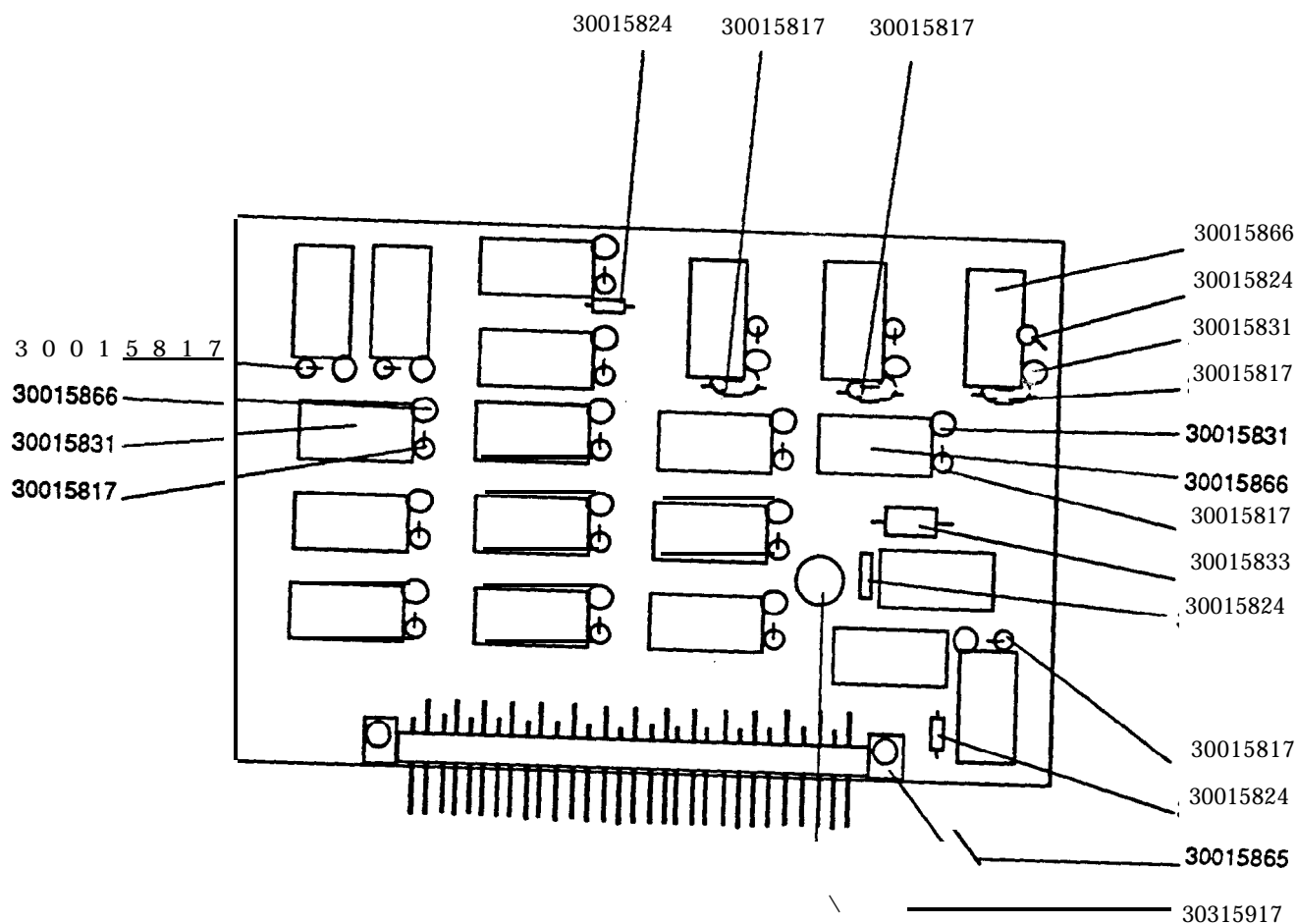
Please order by Part Number

**PCB 105A**  
**Assembly 30015929**  
**No longer available**



Fitted to Miniloaders with Serial Number 1162 to 1216  
**Replaced by PCB 105B (3001948)**

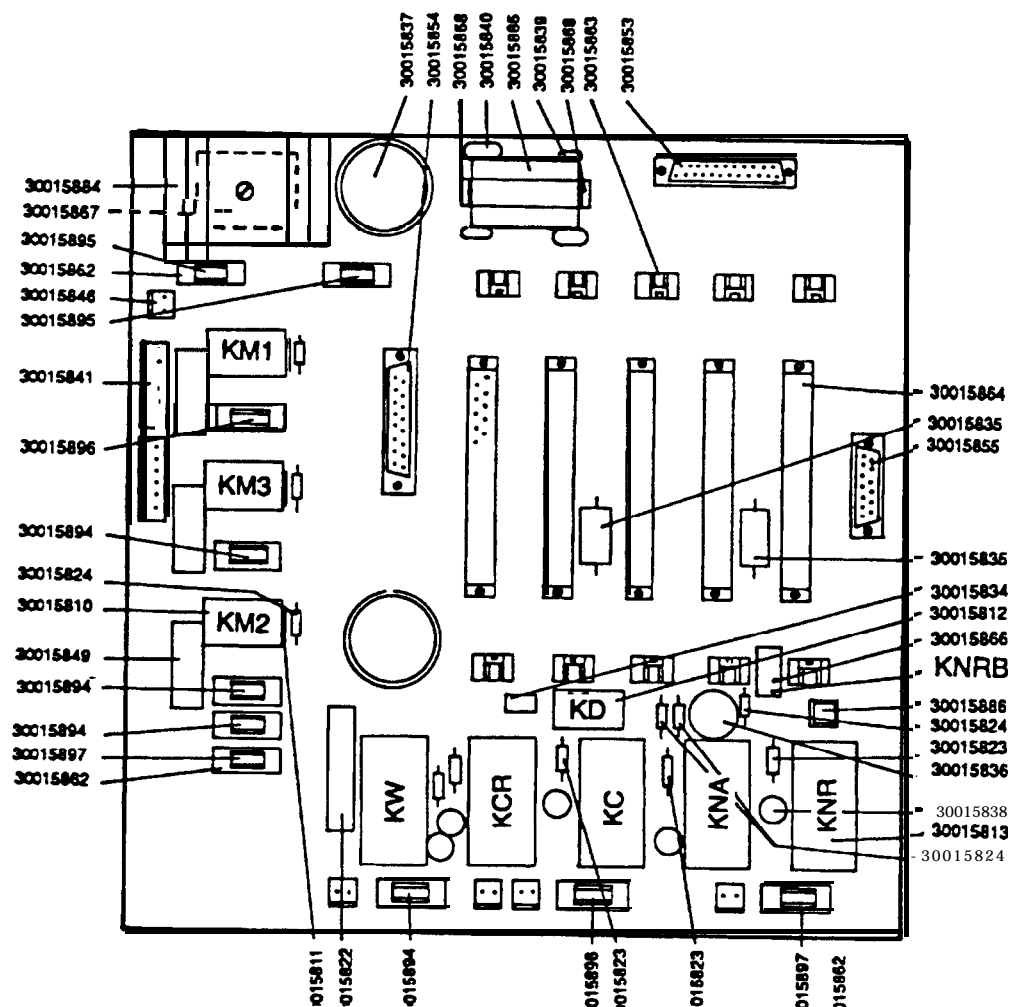
Please order by Part Number

**PCB 105B**  
**Assembly 30015948**

Fitted to Miniloader with Serial Number 1217 and up  
*plus* Miniloader with Serial Number 1101 M to 1161 M  
Replaces PCB **105A** (30015929)

Please order by Part Number

# PCB 106 Assembly 30015806

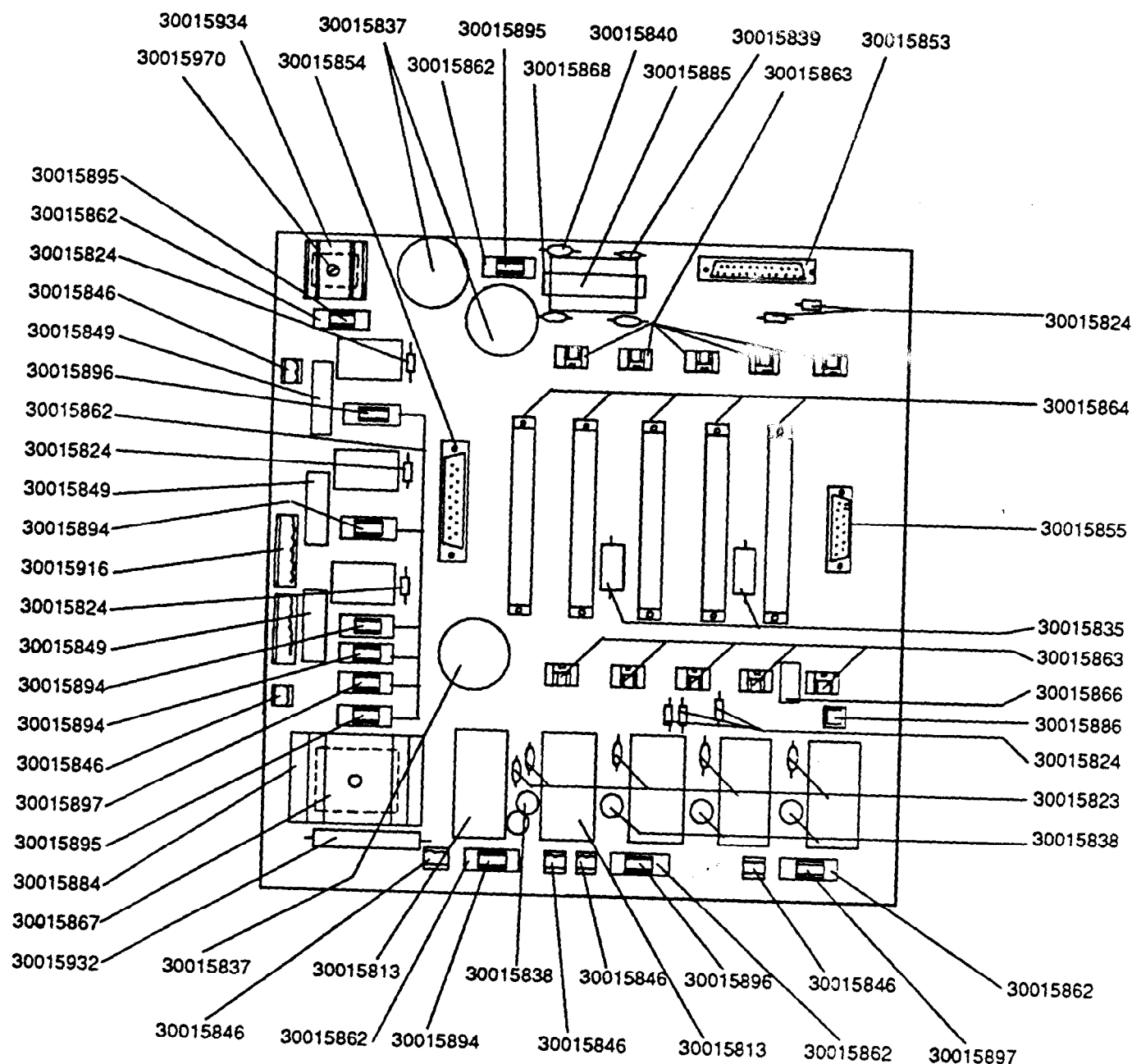
**Note:**

Relay KD is not needed on machines with serial Nos.: 1125 and 1127 on .See modification notice 29050072.

Fitted to Miniloaders with Serial Number 1101 to 1161  
except Miniloaders with Serial Number 1101M to 1161M

Please order by Part Number

**PCB 106A**  
**Assembly 30015922**  
*No longer available*



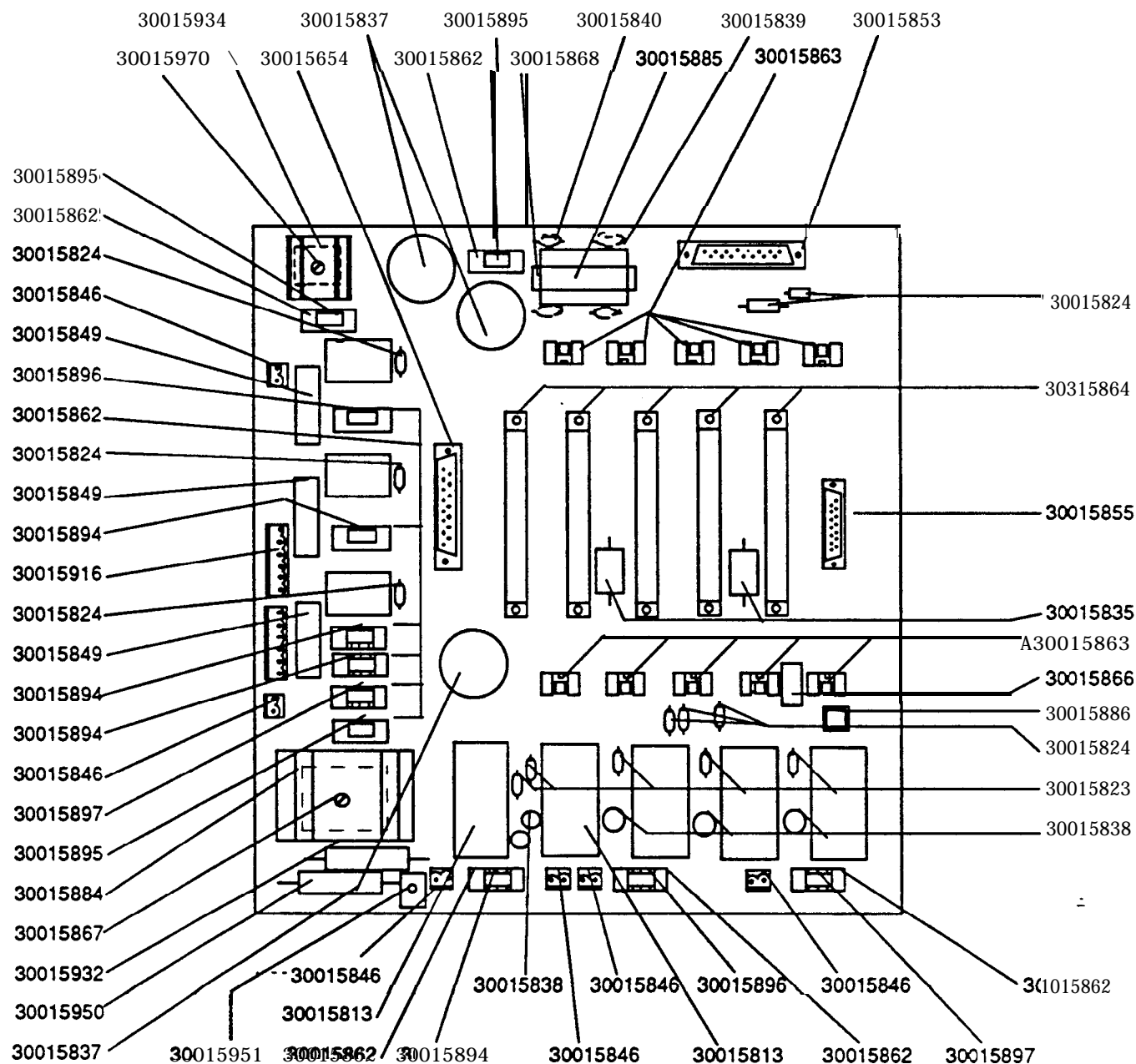
Fitted to Miniloaders with Serial Number 1162 to 1216  
**Replaced by PCB 106B (30015946)**

**[NOTE: Modification M19 (Type 1) *MUST* be carried out before fitting replacement board]**

Please order by Part Number

**PCB 106B**

Assembly 30015946

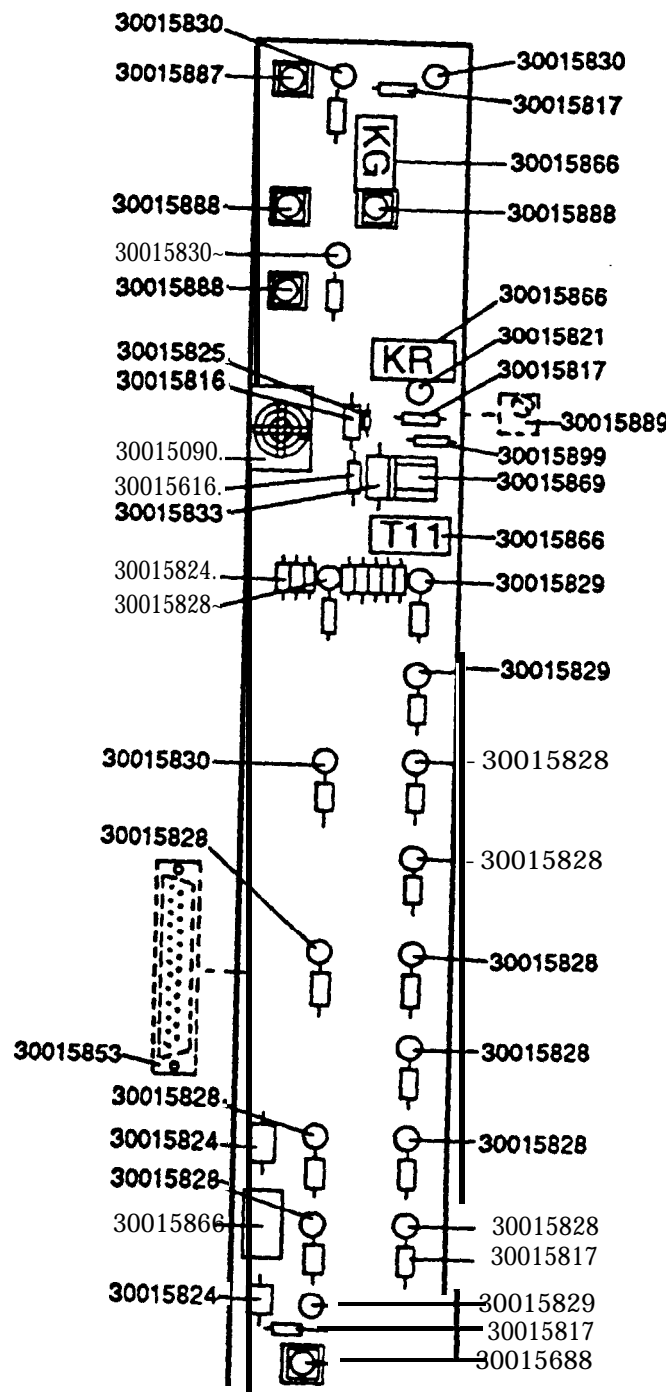


Fitted to Miniloader with Serial Number 1217 and up  
**plus** Miniloader with Serial Number **1101M** to **1161M**  
**Replaces PCB 106A (30015922)**

NOTE: Modification **M19** (Type 1) **MUST** be carried out before fitting this board

Please order by Part Number

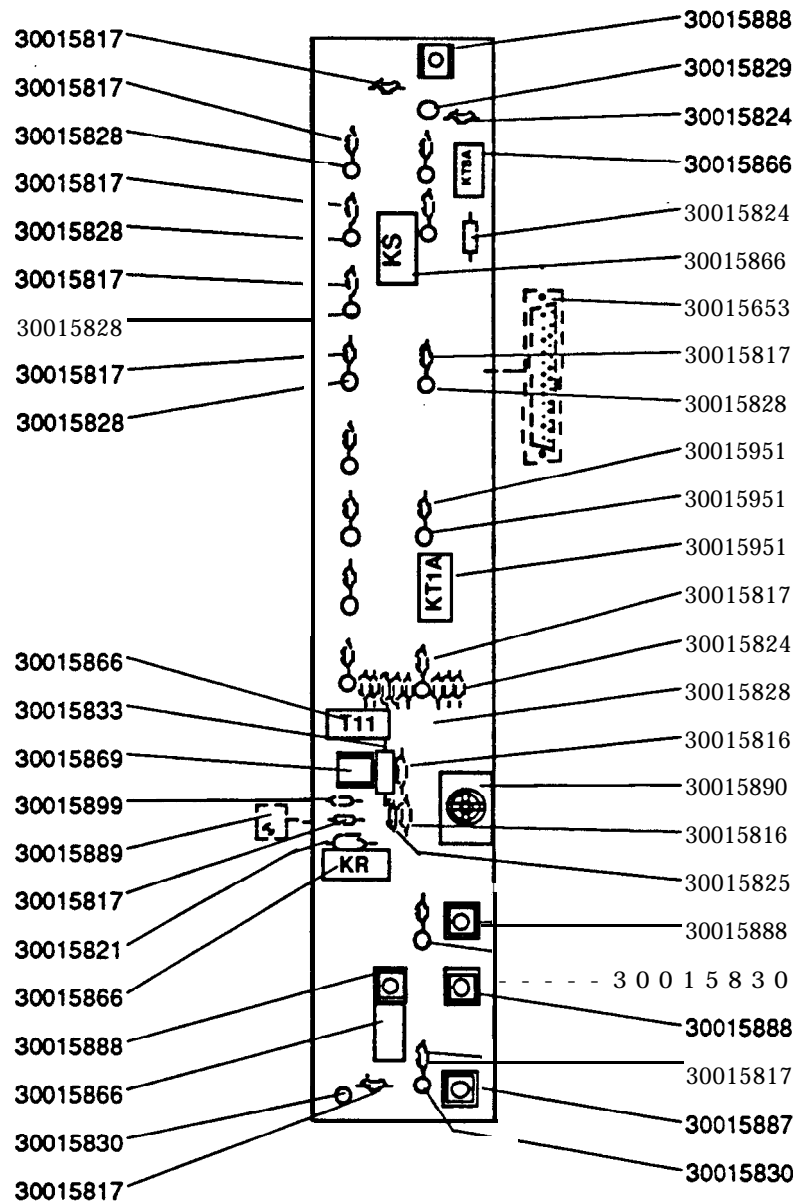


**PCB 107****Assembly 30015807****No longer available**

Fitted to Miniloaders with Serial Number 1101 to 1161  
Replaced by **PCB 107B (30015965)**

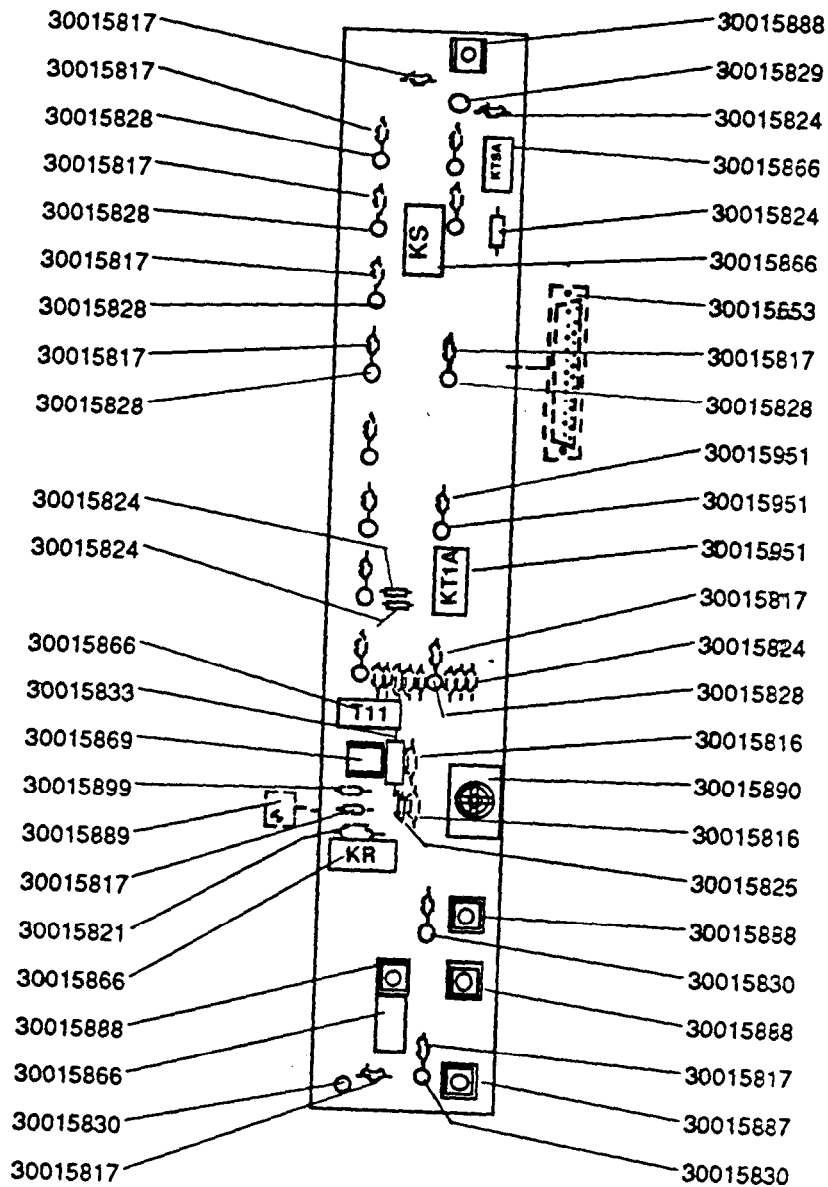
Please order by Part Number

**PCB 107A**  
**Assembly 30015947**  
**No longer available**



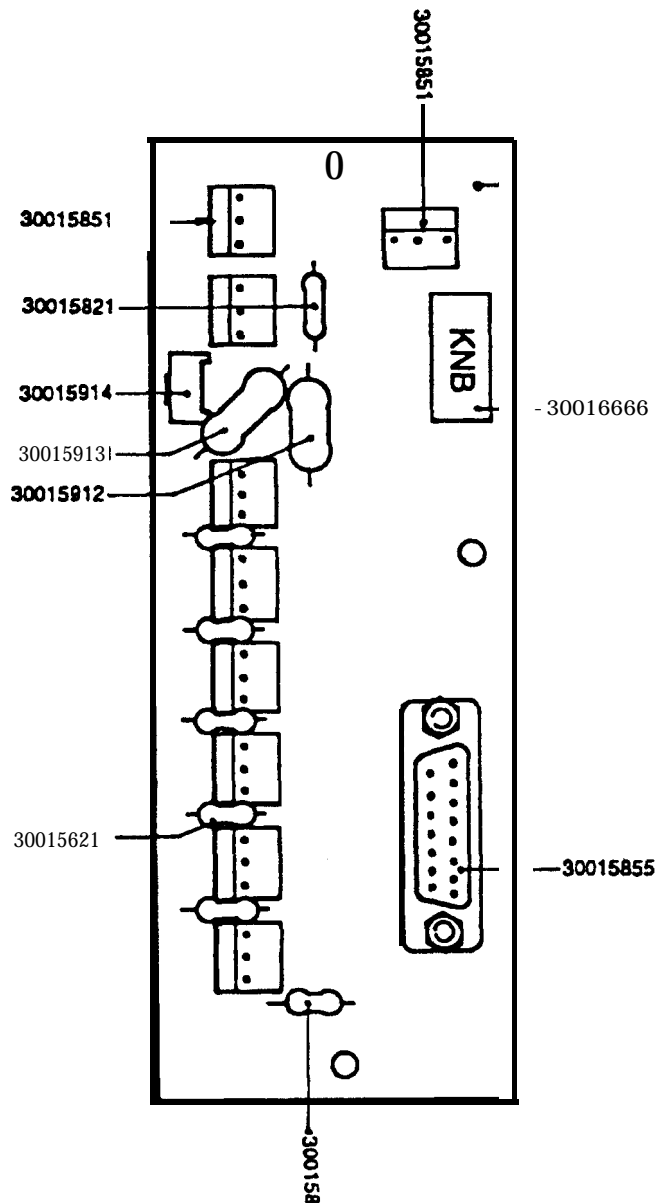
Fitted to Miniloaders with Serial Number 1216 to 1345  
**Replaced by PCB 1078 (30015965)**

Please order by Part Number

**PCB 107B**  
**Assembly 30015965**

Fitted to Miniloaders with Serial Number 1101 to 1161  
**Replaces PCB 107(30015807) and PCB 107A(30015947)**

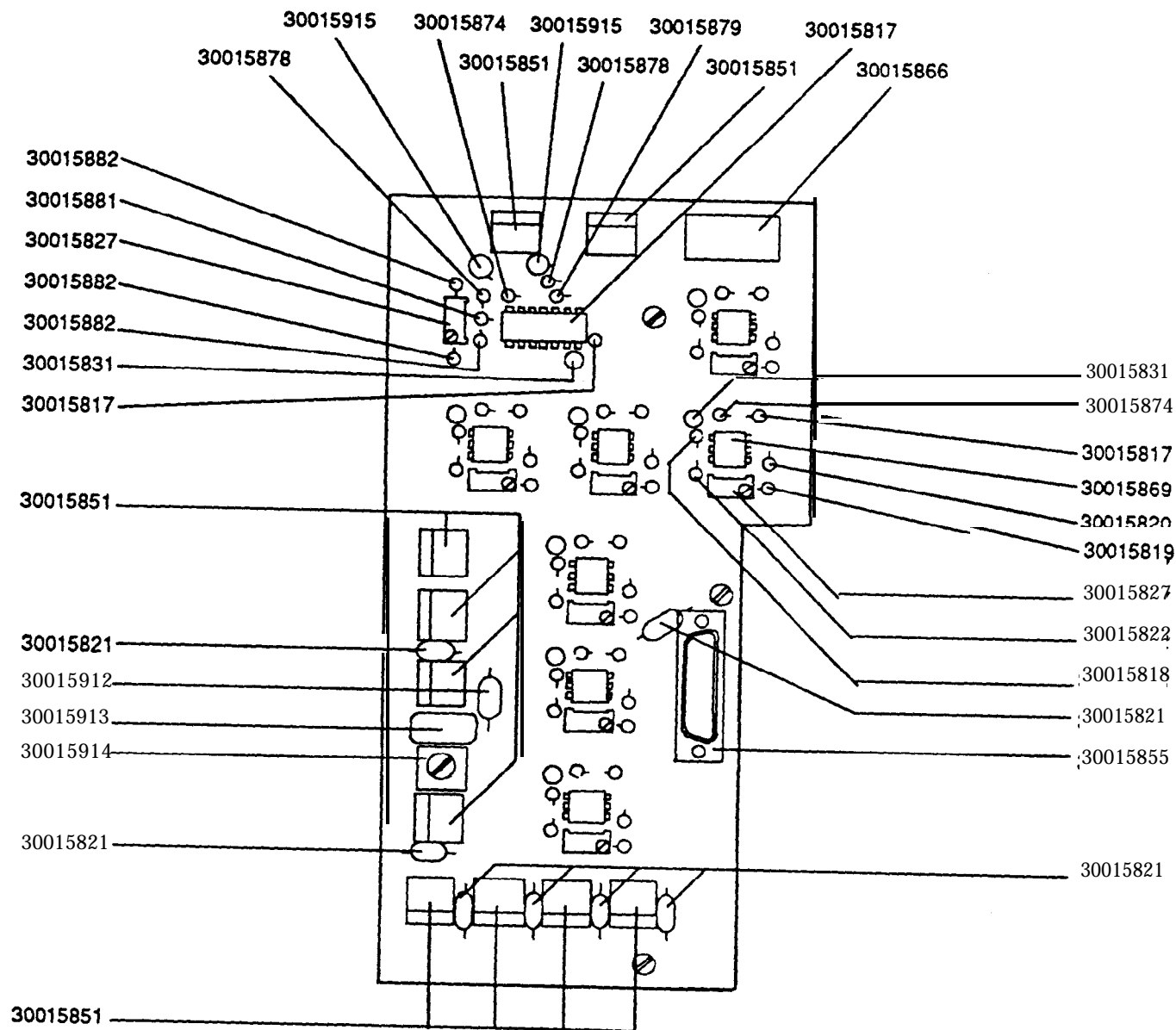
Please order by Part Number

**PCB 108  
Assembly 30015898**

**Fitted to Miniloaders with Serial Number 1101 to 1161  
except Miniloaders with Serial Numbers 1101M to 1161M**

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**Please order by Part Number**

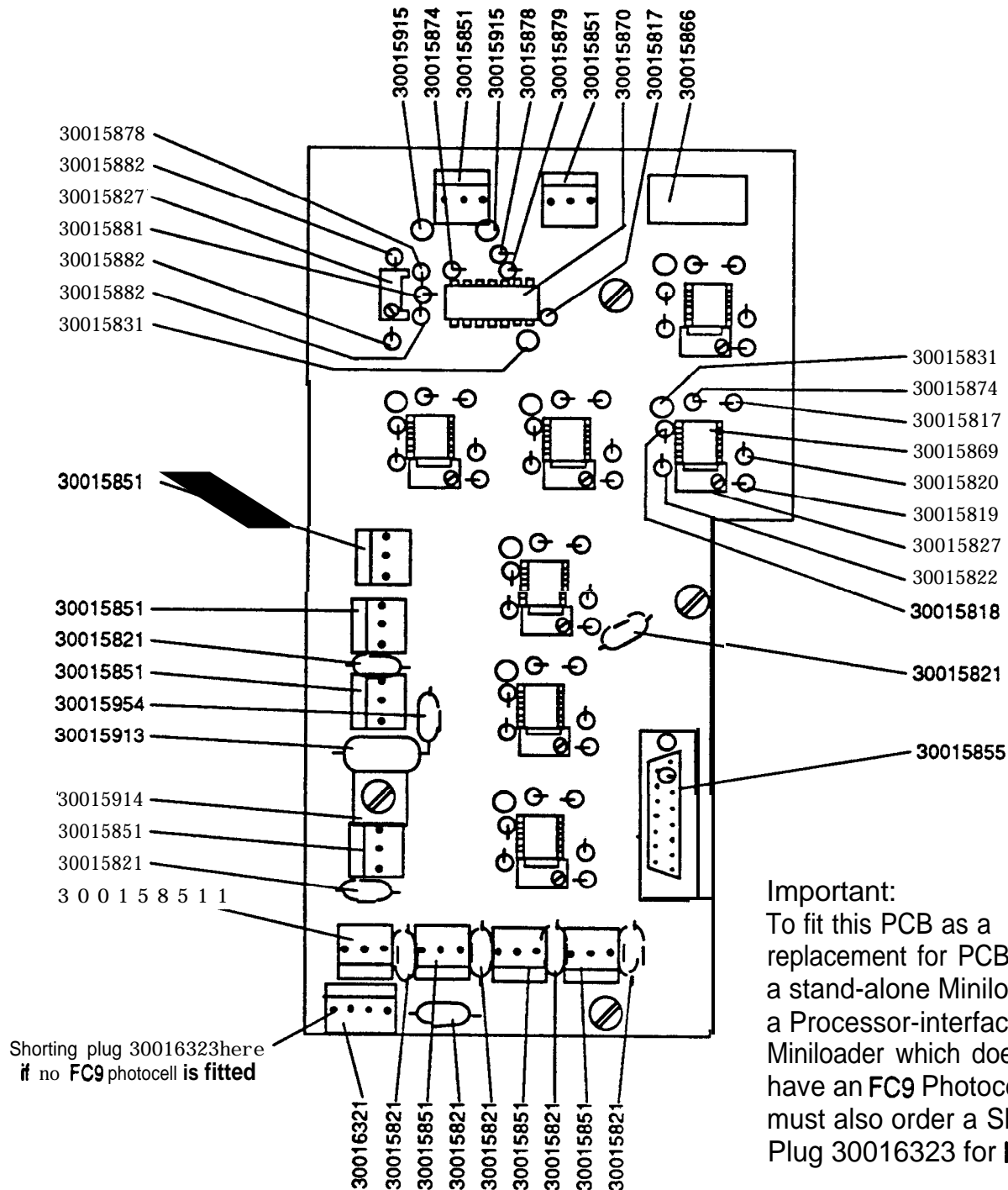
**PCB 108A****Assembly 30015924****No longer available**

Fitted to Miniloaders with Serial Number 1162 to 1324  
**Replaced by PCB 108B (30015953)**

Please order by Part Number

**PCB 108B**  
 Assembly 30015953

**Replacement for PCB 108A**



**Fitted to machines with Serial Number 1325 and up  
 and Serial Numbers 1101 M to 1161 M**

**Please order by Part Number**

# MINILOADER

Part List  
in  
Number order

## PARTS LIST IN NUMERICAL SEQUENCE

Part number	Description	Quantity
2905747	Ty-rap (CMA Part/No. <b>2E386</b> ) Mod <b>UO1</b>	1
29035342	Fuseholder (CMA Part/No. <b>2E318</b> ) Mod <b>UO1</b>	1
29045754	Ty-rap bracket (CMA Part/No. <b>2E386</b> ) Mod <b>UO1</b>	1
30010001	<b>Roller, conveyor</b> drive	1
30010002	Roller, conveyor idler	1
30010003	Cassette stop	1
30010004	Support plate, for conveyor <b>belt</b>	2
30010005	Support plate spacer bars	2
30010006	Cassette guide, right hand guide	1
30010007	Cassette guide, left hand	1
30010008	Mounting, for photoelectric cell (Serial no. 1161 and <b>lower</b> )	1
30010009	Mounting, for photoelectric cell FC3	1
30010010	Mountings for conveyor <b>belt</b> support (Left and right)	2
30010011	Photoelectric cell	4
30010012	Feed roller gear	1
30010013	Gear, chain for conveyor <b>belt</b> motor	1
30010014	Gear hub, for conveyor belt motor	1
30010015	Roller, pusher rod control arm	2
30010016	Shaft, cassette closing roller	2
30010017	Shaft, cassette roller	1
30010018	Bearing, cassette closing roller	2
30010047	Flange, bearing	2
30010046	Back-plate, bearing flange	2
30010049	Spacer, for motor plate	1
30010050	Mounting plate, for conveyor <b>belt</b> motor	1
30010066	Mounting, tension screw for conveyor <b>belt</b>	2
30010124	Bush, cassette closing roller	2
30010131	Stop ring	6
30010167	Spring, cassette closing roller	2
30010197	Plush strip, cassette roller	3
30010247	Gear, cassette closing roller	1
30010243	Gear, for conveyor belt motor	1
30010261	Shaft, cassette closing roller	1
30010262	Shaft, cassette locating roller	1
30010263	Bush, cassette closing roller	1
30010264	Connecting block, cassette closing rollers	2
30010265	<b>Stop, lift</b> limiter, cassette closing roller	1
30010267	Pulley, driving for cassette closing roller	2
30010266	Mounting, for photoelectric cell (Serial no 1162 up)	1
30010362	Plate, reinforcement	1

## Miniloader Parts List



Part number	Description	Quantity
30011019	Carrier, cassette opener mechanism	1
30011020	Bush, bearing internal	2
30011021	Rod, release	1
30011022	Spring, shovel return	1
30011023	Shaft, shovel pivot	1
30011024	Shovel, release	1
30011025	Guide, for shovel shaft	1
30011026	Guide for rod	2
30011027	Block, rod return-spring thrust	1
30011028	Mounting, shovel shaft	1
30011029	Ring, shovel spring return	1
30011030	Bearing, shovel shaft	1
30011031	Spring, rod return	1
30011032	Stud, magazine lid lifting roller	1
30011033	Arm, pusher, for rod	1
30011035	Lever, pusher control	1
30011036	Bracket, cassette air injector	1
30011198	Spring, cassette air injector	1
30011199	Shaft, for cassette lid lifter	2
30011200	Spacer, cassette lid lifter arm bearing	1
30011254	Spacer, release rod pivot	1
30011360	Cam, pusher-rod control arm	1
30012037	Side plate, Left side	1
30012038	Side plate, Right side	1
300 12039	Sucker bar, supply magazine	1
30012040	Sucker bar, cassette	1
30012042	Guide (Left), supply magazine	1
30012043	Guide (Right), supply magazine (Serial no. 1161 and tower)	1
30012044	Upright, right front	1
30012045	Upright, left front upright	1
30012046	Panel, cam microswitches mounting	1
30012051	Mounting, bottom for sucker bar (Serial no. 1161 and lower)	2
30012052	Collar, magazine air nozzle support	1
30012053	Gear, supply magazine control	2
300 12054	Gear, supply magazine control	2
30012055	Lever, magazine sucker arm (Serial no. 1161 and lower)	1
30012057	Lever, magazine sucker bar tilt (lower)	1
300 12058	Lever, magazine sucker tilt (upper)	1
30012059	Lever, cassette sucker (upper)	1
30012060	Lever, cassette sucker (lower)	1

Part number	Description	Quantity
<b>30012061</b>	Linkage, magazine sucker movement	1
30012062	Linkage, cassette sucker movement	1
30012063	Limiter ring, magazine injector bar	1
30012066	Shaft (lower), magazine sucker	1
30012067	Shaft (upper), magazine sucker	1
30012068	Shaft (idler) cassette sucker bar control	1
30012069	Shaft ( <b>pivot</b> ), cassette sucker bar	1
30012070	Drum, magazine sucker bar compensator	<b>1</b>
30012071	Compensator, magazine sucker bar control ( <b>long</b> section)	1
30012072	Compensator, magazine sucker bar control (short section)	2
30012073	Lever, film delivery angle control	1
30012075	Cam, film delivery angle control (1161 and <b>lower</b> )	1
30012076	Lever, magazine lid <b>lifting</b>	1
30012077	Spacer, magazine sucker bar shaft	1
30012076	<b>Spacer, Bearing</b> single	1
30012079	Support, "magazine <b>nearly</b> empty" mirrors	<b>1</b>
30012080	<b>Rollers</b> , magazine latch opening	<b>4</b>
30012081	Pin, magazine latch opening	<b>4</b>
30012082	Pivot,	<b>1</b>
30012083	Shaft, magazine sucker bar compensator	<b>1</b>
30012084	Support, microswitch panel right-hand upright	1
30012085	Support, microswitch panel left-hand upright	<b>1</b>
30012086	Shaft, cassette sucker bar rotation	1
30012087	Support, "magazine nearly empty" photoelectric cell FC8	1
30012126	Assembly, multiple bad sensor assembly	1
30012127	Pin, <b>tilt</b> mechanism pivot	2
30012128	Collar, <b>tilt</b> mechanism	2
30012129	Cam, <b>tilt</b> mechanism (Serial no. 1161 and <b>lower</b> )	1
30012130	<b>Pushrod</b> , <b>tilt</b> mechanism connecting (1161 and lower)	1
30012164	Spring, compensator, magazine sucker bar control	1
30012165	<b>Bearing, flanged</b> nylon, pusher rod control arm shaft	4
30012166	Housing, bearing	6
30012181	Sucker, Film (Serial no. 1161 and lower)	4
30012182	Photoelectric cell, FC2, FC3, and <b>FC5</b>	3
30012183	Stop, for sucker bars	<b>2</b>
30012184	Pivot screw, sucker bar linkage	<b>4</b>
30012185	Spring, cassette sucker bar rotation return	<b>1</b>
30012186	Spring, return	<b>1</b>
30012187	Mirror, Photocell FC3 and <b>FC5</b>	<b>2</b>

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Miniloader Parts List

Pan number	Description	Quantity
30012188	Plate, microswitch mounting	6
30012189	Reflector, Photocell <b>FC2</b>	1
30012190	<b>Pushrod</b> , cassette opening	1
30012191	<b>Pushrod</b> , rod pusher control arm	1
30012192	<b>Pushrod</b> , magazine sucker bar (long)	1
30012193	<b>Pushrod</b> cassette sucker bar	1
30012194	<b>Pushrod</b> , magazine sucker bar (short)	1
30012195	<b>Pushrod</b> , magazine cover <b>lifting</b>	1
30012196	<b>Pushrod</b> , Collector cover <b>lifting</b>	1
30012213	Spring, magazine injector bar return	1
30012214	<b>Support</b> , sensor reinforcement (stand-alone version only)	1
30012215	Spring, double magazine <b>locating</b>	1
30012217	Pin, magazine sucker bar rotation limiting	2
30012218	Stud, magazine injector bar return	2
30012228	Roller, <b>Tilt</b> lever	1
30012229	Spacer, microswitch MS 14	2
30012232	Bearing, <b>nylon</b> (Serial Number 1217 and up)	1
30012238	Spacer, sucker	2
30012241	<b>Spacer</b> , tilt <b>pushrod collar</b> (Serial number 1161 and <b>lower</b> )	1
30012242	Actuator, cam microswitches	9
30012243	Clamp	1
30012244	Hose, air	1
300 12245	Microswitch (Serial no. 1161 and tower)	1
30012246	Actuator, <b>MS1</b>	1
30012256	Support, cassette film sucker bar (Serial number 1162 on)	1
30012257	<b>Support</b> , magazine sucker bar (Serial number 1162 on)	1
30012270	Cam film delivery angle control	1
30012271'	Sucker (Serial number 1162 on)	1
'30012299 after Serial Number 1216		
30012273	Bar, magazine injector	1
300 12274	Adjustor, magazine injector bar height	1
30012275	<b>Stop,rubber</b> for magazine bar injector height adjuster	1
30012276	Nozzle, air	1
30012277	Assembly. magazine injector bar	1
30012278	<b>Assembly</b> , cassette air injector (Serial number 1162 on)	1
30012279	Nozzle, cassette air injector	1
30012280	Stop, <b>rubber</b> magazine injector bar (home position)	1
30012281	<b>Support,tilt</b> motor (Serial number 1162 on)	1
30012282	Pivot, ratchet (Serial number 1162 on)	1
30012283	Cam, <b>Tilt</b> motor, exposed film, <b>lifting</b> (Serial number 1162 on)	1

## Miniloader Parts List

Part number	Description	Quantity
30012284	Cam, for <b>tilt</b> microswitch MS <b>13, 14, 15</b>	1
30012286	<b>Clamping</b> ring, cam ( Serial number 1162 on)	1
30012286	<b>Rod, tilt</b> connecting (Serial number 1162 on)	1
30012287	Ratchet, palette (Serial number 1162 on)	1
30012288	<b>Block</b> , mounting for ratchet palette (Serial number 1162 on)	1
30012289	Shaft, for tilt motor cam (Serial number 1162 on)	1
30012290	Cam follower, palette lifting (Serial number 1162 on)	1
30012291	Cam follower. <b>tilt</b> (Serial number 1162 on)	1
30012292	Ratchet, teeth (Serial number 1162 on)	1
30012293	Spring (return), palette cam follower (Serial number <b>1162 on</b> )	1
30012294	Spring (return), cam follower for <b>tilt</b> lever (Serial number 1162 on)	1
30012295	Spring, cam palette return (Serial number <b>1162 on</b> )	1
30012296	Guide, (right) supply magazine (Serial number <b>1126 and up</b> )	1
30012297	<b>Pivot</b> shaft, cam follower (Serial number 1162 on)	1
30012298	Pillar, <b>tilt</b> motor (Serial number 1162 on)	3
30012299	Sucker, supply magazine (Serial number 1162 on)	1
30012300	Sucker, magazine with 'O' ring (Serial number 1162 on)	1
30012301	Bearing, <b>nylon</b> , dia 6 mm	1
30012326	Shaft, idler (Serial Number 1217 and up)	1
30012328	Shaft, pivot	1
30012332	Bearing, <b>nylon</b> diameter <b>6mm</b> Left hand only after Serial number 1216)	
30012330	Shaft, magazine sucker bar lever	<b>1</b>
30012346	Nozzle, magazine air injector	<b>1</b>
30012347	<b>Collar</b> , magazine air nozzle support	<b>1</b>
30012377	Shaft for <b>tilt</b> motor	<b>1</b>
30012380	Sucker bar, supply magazine	<b>1</b>
30013089	Cam. cassette <b>lid</b> release lifting (Serial number 1161 and <b>lower</b> )	<b>1</b>
30013090	Cam, sucker bars (operating) (Serial numbers 1101-I 1241)	<b>1</b>
30013091	Support, camshaft right-hand	<b>1</b>
30013092	Support, camshaft left-hand (up to Serial No. 1216)	<b>1</b>
30013093	Support, cam motor	<b>1</b>
30013094	Camshaft	<b>1</b>
30013095	Cam follower, pusher rod control arm	<b>2</b>
30013096	Cam follower, magazine sucker bar	<b>1</b>
30013097	Cam folbwer cassette sucker bar	<b>1</b>
30013098	Lever, magazine sucker bar (Serial no. 1216 and lower)	<b>1</b>
30013099	Pivot, cam follower hearing	<b>4</b>
30013100	Shaft, magazine sucker bar <b>lever</b> (Serial No. 1216 and <b>lower</b> )	<b>1</b>
30013101	Shaft, cam follower for parts 30013095 and 30013260	<b>2</b>
30013102	Sprocket, camshaft	<b>1</b>
30013103	Cam, microswitch No 1 (Serial number <b>1106 and lower</b> )	<b>1</b>

**Miniloader Parts List**

Part number	Description	Quantity
30013104	Cam, MS2	1
30013105	Cam, MS3	1
30013106	Cam, MS4 and MS6	1
30013107	Cam, MS17 and MS5	2
<b>30013108</b>	Cam, MS6 (Serial Number 1217 and up)	1
3001.3132	Sprocket, flanged, cam motor drive	1
30013133	Hub, cam motor shaft	1
30013134	Adjuster, friction	1
30013135	Housing, ball bearing	1
30013211	Cam, MS8	1
30013212	<b>Cam, MS16</b>	1
30013260	Cam <b>follower</b> cassette lid lifting (Serial number 1162 and up)	1
30013269	<b>Support, cam</b>	1
30013272	Cam, cassette lid release lifting (Serial No. 1162 and up)	1
30013327	Cam, microswitch MS7	1
30013334	Lever, magazine sucker bar (Serial No. 1217 and up)	1
30013349	Cam, sucker bar operating (Serial No. 1242 and up)	1
30013377	Cam, MS7 (Serial Number 1217 and up)	1
30014109	Frame, machine	1
30014110	<b>Guide, left</b> hand receiving magazine	1
30014111	Guide, right hand receiving magazine	1
30014112	<b>Support, stiffener</b>	1
30014113	Cross-member, receiving magazine guide	1
30014114	Mounting, vacuum pumps	1
30014115	Lever, magazine cover lifting	1
30014116	Mounting, solenoid valves 1 and 2	1
30014117	Mounting, empty magazine sensor	1
30014118	Bracket, <b>FC1</b>	1
30014119	Bracket, <b>FC7</b> (stand alone only)	1
30014120	Lever, supply magazine lid (stand alone only)	1
30014121	Mounting, tilt motor (Serial No. 1161 and lower)	1
30014122	Reservoir, air	1
30014123	Bracket, solenoid valve <b>S5</b>	1
30014125	Intake, tray guide	1
30014136	Mounting plate, solenoids 3 and 4	1
30014139	Spring, return	1
30014140	Bracket, <b>MS10</b> (Serial No. 1216 and lower)	1
30014141	Lever, front shutter safety clamping	1
30014142	Pin, front shutter safety fulcrum	1
30014143	Rubber, seal, rear panel - Processor interface version	1

## Miniloader Parts List

Pan number	Description	Quantity
30014144	Guide film processor upper - Processor interface version	1
30014145	Panel, side, key switch and counter housing	1
30014147	Mounting, chute sensor FC7 - Processor interface version	1
30014146	Door, front	<b>1</b>
<b>30014149</b>	Pane&front	1
30014150	Panel, right side	1
30014151	Panel, left side	1
30014152	<b>Panel, rear</b> -Processor interface version	1
30014153	Panel, rear - stand-alone version	1
30014154	Door, rear - stand-alone version	1
30014155	Lii, - stand-atone version	<b>1</b>
30014156	Lid, processor interface version	1
30014157	Box, key switch and counter housing	1
30014158	Mounting, mains switch <b>(CB1)</b>	1
30014159	Chute, film outlet slide	1
30014160	<b>Pin, front</b> shutter micro-switch actuating	1
30014161	Pin, inlet safety micro-switch actuating	1
30014162	Roller, entry fight-seal	1
30014163	Channel, light-seal roller, right hand	2
30014166	Spring, lid clamping	1
30014169	Actuator, lid micro-switch	1
30014170	Pin, cover (short) Processor-interface version	1
30014171	Pin, cover (tong) Stand-alone version	1
30014173	Panel, control decal	1
30014174	Label, switch	1
30014175	Body, magazine	1
30014176	Lii, magazine	1
30014177	Pin, magazine hinge	1
30014178	Roller, magazine cover <b>lifting</b> drive	1
30014179	Assembly, single magazine	1
30014180	Assembly, double magazine	1
30014201	Mounting, fan	1
30014202	Cover, P.C.B. protection	1
30014203	Channel, P.C.B. chassis right hand	1
30014204	Channel, P.C.B. chassis left hand	1
30014207	Fitter, fan	1
30014208	Plate, fan light baffle	1
30014209	Bracket, P.C.B. guide right hand	1
30014210	Handle for inserting single magazine	1
30014216	Bracket, P.C.B. guide left hand	<b>1</b>

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Miniloader Parts List

Partnumber	Description	Quantity
30014221	Label, serial number	1
30014222	Mounting, cassette guide (right)	1
30014223	Mounting, control panel	1
30014224	Casing, control panel	1
30014225	Channel, light-seal roller, left hand	1
30014226	Spring, front door micro-switch	1
30014227	Nut, for panel fastening screws	4
30014228	Spring, magazine lid fastening	3
30014231	Mounting, conveyor support (left hand) (Serial Number 1217 and up)	1
30014233	Bracket, receiving magazine guide, (left)	1
30014234	Plate, magnetic catch (rear door, stand-alone version)	2
30014235	Catch, magnetic (rear door, stand-alone version)	2
30014239	Bracket, double magazine locating spring	1
30014250	Washer, locking, front door latch	1
30014251	Spacer, front door latch	1
30014252	Spring, front door latch	1
30014253	Striker plate, front door latch	1
30014266	Cover, rear door micro-switch MS9	1
30014322	Bracket, mount Sucker bar stop	1
30014344	Bracket, safety interlock	1
30014348	Mat, entry (after Mod. MI 1)	1
30014365	Fitter, fan	1
30015500	Belt, conveyor	1
30015501	Key, woodruff 3 x 5	2
30015502	Bearing, roller M8 x 30	4
30015503	Bush 6 x 8 x 10	1
30015504	Bush 10 x 12 x 15	6
30015505	Bush 10 x 12x20	6
30015506	Chain, belt roller drive	1
30015507	Chain, cam drive, single link	1
30015508	Chain split link, connecting,	2
30015509	Bearing, roller 5-l 1-4	1
30015510	Bearing, roller 5-l 65	4
30015511	Bearing, roller 10-26 8	18
30015512	Bearing, roller 30-42-7	1
30015513	Motor (with gearbox, no box) 12V DC	2
30015514	Motor, tilt (with gearbox) 12V DC	1
30015515	Mountings, rubber (vacuum pump)	9
30015516	Push-rod ends, right hand thread M6	5
30015517	Push-rod ends, left hand thread	5
30015518	Washer, preloading spring for 30013135	4

## Miniloader Parts List

Part number	Description	Quantity
30015519	Vacuum pumps <b>220v</b>	<b>2</b>
30015520	Compressor <b>220v</b>	<b>1</b>
30015521	Solenoid valves <b>12V DC</b>	<b>5</b>
30015522	Fan <b>220/240v 50/60 Hz</b>	<b>1</b>
30015523	Fan protective grid	<b>1</b>
30015524	Fitter holder for fan	1
30015525	Circlip, E 6	6
30015526	Circlip, E 10	17
30015527	Circlip, E 12	2
30015528	Circlip, 30 X 1.5	2
30015529	<b>Circlip, I 26</b>	<b>8</b>
30015530	Washer, split (special)	<b>1</b>
30015531	E clip E6	<b>5</b>
30015532	Screw, socket-headed <b>M5</b> x 12	<b>4</b>
30015533	Screw, socket-headed M6 x 10	<b>1</b>
30015534	Screw, socket-headed M6 x 12	4
30015535	Screw, socket-headed countersunk <b>M5</b> x 30	1
30015536	Screw, hex headed short shank M4 x 8	18
30015537	Screw, hex headed short shank M4 x 10 55	4
30015538	Screw, cross-headed short shank M4 x 14	6
30015539	Screw, hex-headed short shank M4 x 16	12
30015540	Screw, hex-headed short shank M4 x 30	5
30015541	Screw, hex-headed short shank <b>M5</b> x 10	10
30015542	Screw, hex-headed short shank <b>M5</b> x 14	2
30015543	Screw, belt tensioning short shank <b>M5</b> x 50	2
30015544	Screw, hex-headed short shank M6 x 10	<b>7</b>
30015545	Screw, hex-headed short shank M6 x 16	<b>7</b>
30015546	Screw, hex-headed short shank M6 x 20	<b>5</b>
30015547	Screw, hex-headed short shank M6 x 40	<b>1</b>
30015548	Screw, cross-headed M3 x 6	<b>4</b>
30015549	Screw, cross-headed M3 x 8	16
30015550	Screw, cross-headed M3 x 10	12
30015551	Screw, cross-headed M3 x 12	2
30015552	Screw, cross-headed M3 x 16	9
30015553	Screw, cross-headed M3 x 18	2
30015554	Screw, cross-headed M3 x 20	8
30015555	Screw, hex-headed M4 x 8	7
30015556	Screw, cross-head countersunk M3 x 6	1
30015557	Screw, cross-head countersunk M3 x 10	19
30015558	Screw, cross-head countersunk M3 x 12	5

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Miniloadler Parts List



Part number	Description	Quantity
30015559	Screw, cross head countersunk M3 x 14	8
30015560	Screw, cross-head countersunk M4 x 6	2
30015561	Screw, cross-head countersunk M4 x 10	59
30015562	Screw, cross-head countersunk M4 x 12	6
30015563	Nut M3	63
30015564	Nut M4	112
30015565	Nut M5	11
30015566	Nut M6	26
30015567	Nut, Nybck M6	1
30015568	Washer, fiat M3	36
30015569	Washer, flat M4	47
30015570	Washer, fiat M5	14
30015571	Washer, flat M6	17
300 15572	Washer, fiat M8	
30015573	Screws, grub, fiat tip M4 x 4	1
30015574	Screws, grub, fiat tip M5 x 5	6
30015576	Screws, grub, fiat tip M6 x 6	15
30015577	Screws, grub, fiat tip M6 x 10	5
30015578	Screw, grub, socket-headed point tip M6 x 8	6
30015579	Screw, self-tapping 7 x 1/4	6
30015580	Screw, cross-headed M4 x 8 nylon	1
30015581	Washer Dia. 10 x 16 x 1.5 nylon	1
30015582	Screw, hex-headed M8 x 30	4
30015584	Pin, roll Dia. 4 x 20	1
30015585	Key, 5 x 5 x 25	1
30015586	Key 5 x 5 x 50	1
30015587	Ball-bearing Dia. 1/8	3
30015588	O ring, inside supply magazine sucker bar	
30015589	Tube, flexible polythene 5x3 (1 metre)	
30015590	Tube, riid nylon 5 x 3	
30015591	Connector, straight 5/3-1/8	7
30015592	Connector right-angle 5/3 - 1/8	5
30015593	Connector, T	3
30015594	Nipples	3
30015595	Reducer	1
30015596	Atuminium washer (special)	1
30015597	Fitter, air	2
30015598	Plug, sealing	4
30015599	Gauge, pressure O-4 bar	4
300 15600	External grid for fan Type RRFC/1202	2

Part number	Description	Quantity
30015601	Magnet	2
30015602	Hinge, cassette air injector	1
30015603	Handle, lid and rear door	1
30015604	<b>Felt</b> , entrance <b>slot</b> (machines without Mod. 11)	5
36015605	Kit, repair for vacuum pump	1
30015606	Kit, repair for compressor	1
30015607	Screw, hex-headed short shank M4 x 20	4
30015608	Screw, cross-headed countersunk M4 x 20	4
30015609	Screw, cross-headed countersunk. <b>M5</b> x 30	2
30015610	Nut M8	4
30015611	Screw, hex-headed short shank M3 x 6	1
30015612	Nut, small M4	1
30015613	Clip, E M8	1
30015614	Screw, hex-headed short shank M6 x 30	2
30015615	Screw, cross-headed countersunk M6 x 10	1
30015616	Nut M6 Left-hand thread	7
30015617	Circlip E20	4
30015618	Washer, <b>large</b> flat <b>M5</b> x 14	4
30015619	Grub screws flat P 4 x 10	2
30015620	Screw, grub, socket-headed point tip PC M6 x 6	4
30015621	Flexible pin 3 x 6	1
30015622	Foam, grey light-lock <b>self-adhesive</b> 20 x 10	
30015623	Screw, cross-headed 4 x 6	10
30015624	Assembly, vacuum control valve	4
30015625	Screw, socket-head countersunk <b>6UNC</b> x 1/4	4
30015626	Washer (large) <b>M5</b> x 14	2
30015627	Plug, light-tight, cable entry	2
30015628	Magnet (rear door, stand-alone version only)	2
30015629	Screw, grub, socket-headed point tip M4 x 6	8
30015630	Gland, cable <b>3/8</b> 2519 plus screw TB 140	2
30015631	Bush DU 4 x 5.5 x 6	2
30015632	Screw, hex-headed M4 x 45	3
30015633	Nut, Nylock M4	3
30015634	Vacuum pump 240V	1
30015635	Compressor 240V	1
30015637	Screw, socket-headed M3 x 20	19
30015638	Nut, small M8	2
30015639	Screws, grub, flat tip. <b>M6</b> x 12	2
30015640	Grub screws P. Con M6 x 12	1
30015641	Knob assembly, front door	1

## Miniloader Parts List

Part number	Description	Quantity
30015642	Washers, brass, (special)	2
30015644	Screw, cross-headed M3 x 25	2
30015645	Circlip EI 6	12
30015646	Ring, grip	2
30015647	Belt, drive	1
30015648	Nut, <b>M5</b> Nylock	1
30015649	Connector magazine injector nozzle	1
30015650	Washer (special)	1
30015651	Sucker spacer)	1
<b>30015652</b>	Screw, hex-headed short shank <b>M5</b> x 30	2
30015653	Screw, cross-headed M4 x 16	2
30015654	Rubber, black, light-seal	
30015655	Screw, socket-headed <b>M8</b> x 20	4
30015656	Nut, <b>M5</b> Nylock, bw	2
30015658	Motor (with reduction gear) <b>12V</b> DC with clutch plate	1
30015659	Counter	1
300 15660	<b>Plate</b> , counter mounting	1
30015673	Ring, grip	3
30015683	Handle, lid	1
30015800	Transformer 220-240V/13.6V	1
30015801	PCB 101 Assembly replaced by PCB <b>101M</b>	1
30015802	PCB 102 Assembly (Serial No. 1101 to 1161)	1
30015803	PCB 103 <b>Assembly</b> (Serial No. 1101 to 1124 <b>amd</b> 1126)	1
30015804	PCB 104 Assembly replaced by PCB 104A	1
30015805	PCB 105 Assembly	1
30015806	PCB 106 Assembly (switchboard panel)	1
30015807	PCB 107 (control panel) replaced by PCB <b>107B</b>	1
30015809	Switch, mains, AMF W. 641	1
30015810	Relay <b>JC1A</b> <b>12V</b> DC	3
30015811	Socket for relay <b>JC1A</b>	3
30015812	Relay HA1 12V DC	1
30015813	Relay <b>SP2P</b> 12V DC	5
30015814	Micro switch AM1 308	9
30015815	Micro switch AM 715559	7
30016816	Resistor <b>5.6K</b> 1/4 W	24
30015817	Resistor <b>1K</b> 1/4 W	95
30015818	Resistor 180K 1/4 W	8
30015819	Resistor <b>56K</b> 1/4 W	5
30015820	Resistor 220K 1/4 W	7
30015821	Resistor 18011 1/2 W	17

## Miniloader Parts List

30015822	Resistor 15 ohms 10 W	1
Part number	Description	Quantity
30015823	Resistor 470 1/2 W	5
30015824	Diode 1 N 4007	32
30015825	Diode 1 N 4148	12
30015826	Trimmer 64 W 103	1
30015827	Trimmer 64 W 104	16
30015828	Diode LED Dia.5 red	10
30015829	Diode LED Dia. 5 green	3
30015830	Diode LED Dii. 5 yellow	4
30015831	Diode LED Dia. 3 red	63
30015832	Capacitor electrolytic 22MF 25VL	3
30015833	Capacitor electrolytic 47MF 25VL	7
30015834	Capacitor electrolytic 1 OOMF 25VL	4
30015835	Capacitor electrolytic 220MF 25VL	3
30015836	Capacitor electrolytic 4700MF 25VL	1
30015837	Capacitor electrolytic 10 OOOMF 25VL (also see Pub. No. 29050066)	
30015838	Capacitor polyester 015MF 400VL	5
30015839	Capacitor polyester 01 MF 160V	2
30015840	Capacitor polyester 033MF 160V	2
30015841	Terminals BL6	2
30015842	Terminal board MKDS 4	1
30015843	Terminal board KS6	1
30015844	Terminal board KS10	1
30015845	Terminals BL2	6
30015846	Terminals SL2	6
30015847	Micro-switch, safety	1
30015848	Switch, key	1
30015849	Fitter 0.5mF 630V DC	3
30015850	Fitter	1
30015851	Connector tripolar male	10
30015852	Connector tripolar female (Fittings)	9
30015853	Connector tripolar male 25 P CS (Fittings)	2
300 15854	Connector tripolar female 25 P CS (Fittings)	1
30015855	Connector tripolar male 15 P CS (Fittings)	2
30015856	Connector tripolar female 15 P wire (Fittings)	2
30015857	Protective caps 25P	2
30015858	Caps, protective 15 P	1
30015859	Connector male 25 P X wire	1
30015860	Connector female 25 P X wire	2
30015861	Cap 25 P 90	1
30015862	Fuse holder LFH 320	10

## Miniloader Parts List

Part number	Description	Quantity
30015863	Card guide CBG <b>5A2</b>	10
30015864	Connector 31 P female X CS	5
30015865	Connector 31 P mate 90	5
30015866	Relay <b>DS2EM</b> 12V DC (SDS)	70
30015867	Bridge KBPC 2506	1
30015868	Stabilizer <b>78S</b> 12 V	2
30015869	Integr. TAA 765 A	19
30015870	Integr. TCA 965	1
30015871	Bridge On-Off Dip-fix	2
30015872	Resistor 220 ohms 1/4 W	7
3007 5873	Relay <b>DS4E M</b> 12V DC	1
30015874	Resistor 2.2 K 1/4 W	6
30015875	Integr. NE 555	1
300 15876	Capacitor <del>electrolytic</del> 22MF 25V (vertical)	1
30015877	Capacitor tantalum 1 MF 35V	1
30015878	Resistor 3.9 K 1/4 W	2
30015879	Resistor 330 ohms 1/4 W	1
3001588 1	Resistor <b>10K</b> 1/4 W	1
30015882	Resistor <b>8.2K</b> 1/4 W	3
300 15884	Bridge radiator	1
30015885	Stabilizer radiator	1
30015886	Push button <b>black</b> rectangular type 500/B	1
30015887	Push button red Dia. 6 type 501/R	1
30015888	Push button black Dia. 6 type 501/B	4
30015889	Trimmer 100 K <b>horizontal</b>	1
30015890	Buzzer 12V	1
30015891	Socket for integr. 6 pin 1	9
30015892	Socket for integr. 8 pin	1
30015893	Socket for <b>integr.</b> 14 pin	1
30015894	Fuse <b>F2A</b> 5 x 20	4
30015895	Fuse <b>F8A</b> 5 x 20	2
30015896	Fuse <b>T4A</b> 5 x 202	
30015897	Fuse <b>F6.3A</b> 5 x 20	2
30015898	PCB 108 Assembly (new)	1
30015899	Resistor 470K 1/4W	12
30015900	Trimmer <b>500K</b> vertical	1
30015901	Stud kit for connector	3
30015902	Screw kit for connector R5 slide block	2
30015903	Slide X 25 <b>poly</b>	1
30015904	Slide X 15 poly	1

## Miniloader Parts List



Part number	Description	Quantity
30015905	PCB 109	1
30015906	Mains sheath Dia. 6	
30015909	Cable black Dia. 1	
36015910	<b>Cap 15 P 90</b>	1
30015911	Contact for connector 15852	30
30015912	Resistor 100 ohms 2W	1
30015913	Resistor 220 ohms 2W	1
30015914	Trimmer 500 ohms	1
30015915	Capacitor tantalum 2.2 MF 35V	2
30015916	Terminal SL6	2
30015917	Capacitor vertical 220mf 16v	163
30015918	Plug VD6	1
30015919	Bridge KBPL 808	1
30015920	Cable, standby 3.40 M	
30015921	Transformer (see Publication No. 29050066)	1
30015922	PCB 106A replaced by PCB 106B	1
30015924	PCB 108A (Photocells)	1
30015925	PCB101A replaced by PCB 101B	1
30015926	PCB 102A (Serial No. 1162 and up)	1
30015927	PCB 103A (Serial No. 1162 and up)	1
30015929	PCB 105A replaced by PCB 105A	1
30015930	Terminal board MKDS 8	1
30015931	Resistor 1.2 M $\Omega$	1
30015932	Resistor 6.8 20W	1
30015933	Resistor 10 NF	1
30015934	Radiator x bridge 808	1
30015935	PCB 109A	1
30015936	Terminal board MK3 / 12	1
30015937	PCB 1038 (Serial no. 1126 to 1161)	1
30015946	PCB 106B replaces PCB 106A	1
30015947	PCB 107A replaced by PCB 1078	1
30015948	PCB 1058	1
30015949	PCB 104A replaces PCB 104	1
30015953	PCB 1088 (Serial no. 1126 to 1161 with no "M" and 1325 up)	1
30015965	PCB 1078	1
30015966	PCB 101M replaces PCB 101	1
30015967	PCB 101B replaces PCB 101A	1
30015954	Resistor 68R. 2 $\Omega$	1
30016302	Wheel pin	4
30016303	Wheel	4

## Miniloader Parts List

## Minibader Parts List

Publication Number PL 321113212

30016304	Stand bracket	1
30016306	Bolt for Guide	2
Part number	Description	Quantity
30016306	Spring for tunnel seal	2
30016307	Chute, film	1
30016306	Chute, reversing	1
30016309	Tunnel cover	1
30016310	Tunnel	1
30016311	Stand for M35	1
30016312	Front cover, stand for M 35	1
30016313	Miniloader stand	1
30016314	Feet, adjustable	4
30016315	Washer, rubber	2
30016316	Stop, sliding stand for M35	2

## Miniloader Parts List





# MINI LOADER

Part List  
Alphabetical sequence



Part number	Description	Quantity
<b>A</b>		
30012242	Actuator, cam microswitches	9
30014169	Actuator, <b>lid</b> micro-switch	1
30012246	Actuator, MS1	1
30013134	Adjuster, friction	<b>1</b>
30012274	Adjustor, magazine injector bar height	1
330015596	Aluminium washer (special)	1
30011033	Arm, pusher, for rod	1
30014180	Assembly, double magazine	1
30012126	Assembly, multiple load sensor assembly	1
30014179	Assembly, single magazine	1
30015624	Assembly, vacuum control valve	<b>1</b>
30012277	Assembly, magazine injector bar	<b>1</b>
30012278	Assembly, cassette air injector (Serial number 1162 on)	1
30010048	Back-plate, bearing flange	2
<b>B</b>		
30015587	Ball-bearing Dia. <b>1/8</b>	3
30012273	Bar, magazine injector	1
30010018	Bearing, cassette closing roller	2
30012301	Bearing, nylon, dia 6 mm	1
30012232	Bearing, nylon (Serial Number 1216 and up)	1
30012332	Bearing, nylon, dia. 6mm (left hand only, after Serial Number 1216)	1
30015509	Bearing, roller <b>5-11-4</b>	1
30015510	Bearing, roller 5-l 6-5	4
30015511	Bearing, roller 1 O-26 8	18
30015512	Bearing, roller 30-42-7	1
30015502	Bearing, roller M8 x 30	4
30011030	Bearing, shovel shaft	1
30012165	<b>Bearing, flanged</b> nylon, pusher rod control arm shaft	4
30015500	Belt, conveyor	1
30015647	Belt, drive	1
30012288	Block, mounting for ratchet palette (Serial number 1162 on)	<b>1</b>
30011027	Block, rod return-spring thrust	1
30014175	Body, magazine	1
30016305	<b>Bolt</b> for Guide	2
30014157	Box, key switch and counter housing	1
30011036	Bracket, cassette air injector	1
30014239	Bracket, double magazine locating spring	1
30014118	Bracket, <b>FC1</b>	1
30014119	Bracket, FC7 (stand alone only)	1
30014140	Bracket, <b>MS10</b> (Serial No. 1216 and tower)	1
30014216	Bracket, P.C.B. guide <b>left</b> hand	1

Part number	Description	Quantity
<b>30014209</b>	Bracket, P.C.B. guide right hand	1
30014233	Bracket, receiving magazine guide, (left)	1
30014123	Bracket, solenoid valve S5	1
30015867	Bridge KBPC 2506	1
30015919	Bridge KBPL 808	1
30015871	Bridge On-Off Dip-fix	2
30015884	Bridge radiator	1
30015503	<b>Bush 6 x 8 x 10</b>	1
30015504	<b>Bush 10 x 12x 15</b>	6
330015505	<b>Bush 10 x 12 x 20</b>	6
30015631	Bush DU 4 x 5.5 x 6	2
30011020	Bush, bearing internal	2
30010124	Bush, cassette closing roller	2
30010263	Bush, cassette closing roller	1
30015890	Buzzer <b>12V</b>	1
<b>C</b>		
0015909	Cable black Dia.	1
30015920	Cable, standby 3.40 M	
30011360	Came, pusher rod control	1
30012270	Cam film delivery angle control	1
30013096	Cam follower, magazine sucker bar	1
30012290	Cam follower, palette lifting (Serial number 1162 on)	1
30013095	Cam follower, pusher rod control arm	2
30013097	Cam follower, cassette sucker bar	1
30013260	Cam follower, cassette lid lifting (Serial number 1162 and up)	1
30012291	Cam follower, tilt (Serial number 1162 on)	1
30013272	Cam, cassette lid release lifting (Serial No. 1162 and up)	1
30013089	Cam, cassette lid release lifting (Serial number 1161 and lower)	1
30012075	Cam, film delivery angle control (Serial number 1161 and lower)	1
30012284	Cam, for <b>tilt</b> microswitch MS <b>13, 14, 15</b>	1
30013327	Cam, microswitch MS7	1
30013103	Cam, <b>microswitch</b> No 1 (Serial number 1106 and lower)	1
30013104	Cam, MS2	1
30013105	Cam, MS3	1
30013106	Cam, MS4 and MS6	1
30013108	Cam, MS6 (Serial Number 1217 and up)	1
30013211	Cam, MS8	1
30013107	Cam, MS1 7 and MS5	2
30011034	Cam, pusher-rod control arm	1
30013349	Cam, sucker bar operating (Serial No. 1242 and up)	1
30013090	Cam, sucker bars (operating) (Serial numbers 1101-11241)	1
30012283	Cam, <b>Tilt</b> motor, exposed film, <b>lifting</b> ( Serial number 1162 on)	1
30012129	Cam, <b>tilt</b> mechanism (Serial number 1161 and lower)	1
30013212	<b>Cam,MS16</b>	1

Part number	Description	Quantify
<b>30013377</b>	Cam, <b>MS7</b> (Serial number 1217 and up)	1
30013094	Camshaft	1
30015910	<b>Cap 15 P 90</b>	1
<b>30015861</b>	<b>Cap 25 P 90</b>	<b>1</b>
30015837	<b>Capacitor electrolytic</b> 10 000MF 25VL (also see Pub, No. 29050066)	<b>2</b>
30015876	<b>Capacitor</b> electrolytic 22MF 25V (vertical)	<b>1</b>
30015832	Capacitor <b>electrolytic</b> 22MF <b>25VL</b>	<b>3</b>
30015833	Capacitor <b>electrolytic</b> 47MF 25VL	<b>7</b>
30015834	Capacitor electrolytic <b>1 00MF 25VL</b>	<b>4</b>
30015835	Capacitor electrolytic 220MF 25VL	<b>3</b>
30015836	Capacitor electrolytic 4700MF 25VL	<b>1</b>
30015839	Capacitor polyester <b>01MF</b> 160V	<b>2</b>
30015838	Capacitor polyester 015MF 400VL	<b>5</b>
30015840	<b>Capacitor</b> polyester 033MF 160V	<b>2</b>
30015877	Capacitor tantalum 1 MF 35V	<b>1</b>
30015915	Capacitor tantalum 2.2 MF 35V	2
30015917	Capacitor <b>vertical 220mf 16v</b>	163
30015858	Caps, protective 15 P	1
30015863	Card guide CBG <b>5A2</b>	10
30011019	<b>Carrier</b> , cassette opener mechanism	1
30014224	Casing, control panel	<b>1</b>
30010007	Cassette guide, <b>left</b> hand	<b>1</b>
30010006	Cassette guide, <b>right</b> hand guide	<b>1</b>
30010003	Cassette stop	<b>1</b>
30014235	Catch, magnetic (rear door, stand-alone version)	<b>2</b>
30015508	Chain split link, connecting,	<b>2</b>
30015506	Chain, <b>belt</b> roller drive	<b>1</b>
30015507	Chain, cam drive, single link	<b>1</b>
30014225	Channel, light-seal roller, <b>left</b> hand	<b>1</b>
30014163	Channel, light-seal roller, right hand	<b>2</b>
30014204	Channel, P.C.B. chassis <b>left</b> hand	<b>1</b>
30014203	Channel, P.C.B. chassis <b>right</b> hand	<b>1</b>
30016307	<b>Chute</b> , film	<b>1</b>
30014159	<b>Chute</b> , film outlet slide	<b>1</b>
30016308	Chute, reversing	<b>1</b>
30015645	Circlip EI 6	12
30015617	Circlip E20	4
30015528	<b>Circlip</b> , 30 X 1.5	2
30015525	<b>Circlip</b> , E 6	6
30015526	Circlip, E 10	17
30015527	Circlip, E 12	2
30015529	Circlip, 126	a
30012243	Clamp	1
30012285	<b>Clamping</b> ring, <b>cam</b> (Serial number 1162 on)	1

Part number	Description	Quantity
30015613	Clip, <b>E</b> M8	1
30012347	Collar, magazine air nozzle support	1
30012126	Collar, <b>tilt</b> mechanism	2
30012071	Compensator, magazine sucker bar control (long section)	1
30012072	Compensator, magazine sucker bar control (short section)	2
30015520	Compressor <b>220v</b>	1
30015635	Compressor 240V	<b>1</b>
30010264	Connecting block, cassette closing rollers	2
30015864	Connector 31 P female X CS	5
30015665	Connector 31 P male 90	5
30015860	Connector female 25 P X wire	<b>2</b>
30015649	Connector magazine injector nozzle	<b>1</b>
30015859	Connector male 25 P X wire	<b>1</b>
30015592	Connector right-angle <b>5/3 - 1/8</b>	<b>5</b>
30015656	Connector tripolar female 15 P wire (Fittings)	<b>2</b>
30015654	Connector tripolar female 25 P'CS (Fittings)	1
30015852	Connector tripolar female (Fittings)	9
30015851	Connector tripolar male	10
30015855	Connector tripolar male 15 P CS (Fittings)	2
30015853	Connector tripolar male 25 P CS (Fittings)	2
30015591	connector, straight <b>5/3-1/8</b>	7
30015593	Connector, T	3
30015911	Contact for connector 30015852	30
30015659	Counter	1
30012279	Cover, blower nozzle (Serial number 1162 on)	1
30014202	Cover, P.C.B. protection	1
30014266	<b>Cover, rear</b> door micro-switch MS9	1
30014113	Cross-member, receiving magazine guide	1

**D**

30015824	Diode <b>1N</b> 4007	32
30015825	Diode <b>1N</b> 4148	12
30015831	Diode LED Dia. 3 red	63
30015829	Diode LED Dia. 5 green	3
30015830	Diode LED Dia. 5 yellow	4
30015828	Diode LED Dia.5 red	10
30014148	Door, front	<b>1</b>
30014154	Door, rear - stand-alone version	1
30012070	Drum, magazine sucker bar compensator	1

**E**

30015531	<b>E</b> clip E6	5
30015600	External grid for fan	2

Partnumber	Description	Quantity
<b>F</b>		
30015522	Fan <b>220/240v 50/60</b> Hz	1
30015523	Fan protective grid	1
30019012	Feed roller gear	1
30016314	Feet, adjustable	<b>4</b>
30015604	<b>Felt</b> , entrance <b>slot</b> (machines without Mod. 11)	<b>5</b>
30015849	Filter <b>0.5mF</b> 630V DC	3
30015850	Fitter	1
30015524	Filter holder for fan	1
30014365	<b>Filter</b> , air	1
30015597	<b>Filter</b> , air	2
30014207	Filter, fan	1
30010047	Flange, bearing	2
30015621	Flexible pin 3 x 6	1
30015622	Foam, grey light-lock <b>self-adhesive</b>	20x10
li0014109	Frame, machine	1
30016312	Front <b>cover,stand</b> for <b>M 35</b>	1
30015894	Fuse <b>F2A</b> 5 x 20	4
30015897	Fuse <b>F6.3A</b> 5 x 20	2
30015895	Fuse <b>F8A</b> 5 x 20	2
30015862	Fuse <b>holder</b> LFH 320	10
30015896	Fuse <b>T4A</b> 5 x 20	2
29035342	<b>Fuseholder</b> (CMA Part/No. <b>2E318</b> ) Mod <b>UO1</b>	1
<b>G</b>		
30015599	Gauge, pressure 0-4 bar	<b>4</b>
30010014	Gear hub, for conveyor <b>belt</b> motor	<b>1</b>
30010247	Gear, cassette closing roller	<b>1</b>
30010013	Gear, chain for conveyor <b>belt</b> motor	<b>1</b>
30010248	Gear, for conveyor <b>belt</b> motor	<b>1</b>
30012053	Gear, supply magazine control	2
30012054	Gear, supply magazine control	2
300 <b>15630</b>	Gland, cable <b>3/8</b> 2519 plus screw <b>TB 140</b>	2
30015600	Grid, external for fan	1
30015619	Grub screws flat P 4 x 10	2
<b>30015640</b>	Grub screws <b>P</b> , Con M6 x 12	1
30012042	Guide (Left), supply magazine	1
30012043	Guide (Right), supply magazine (Serial no. 1161 and <b>lower</b> )	1
30012296	Guide (Right), supply magazine (Serial no. 1162 and up)	1
30014144	Guide film processor upper - Processor interface version	1
30011026	Guide for rod	2
30011025	Guide, for shovel <b>shaft</b>	1
30014111	Guide, <b>right</b> hand receiving magazine	1
30014110	<b>Guide</b> , <b>left</b> hand receiving magazine	1
<b>H</b>		
30014210	Handle for inserting single magazine	<b>1</b>
30015683	Handle, lid	<b>1</b>
30015603	Handle, lid and rear door	<b>1</b>

Part number	Description	Quantity
30015602	Hinge, cassette air injector	1
30012244	Hose, air	1
30012166	Housing, bearing	6
30013133	Hub, cam motor shaft	1
30014125	Intake, tray guide	1
30015875	Integr. NE 555	1
30015869	Integr. TAA 765 A	19
30015870	Integr. TCA 965	1
<b>K</b>		
30015586	Key 5 x 5 x 50	1
30015585	Key, 5 x 5 x 25	1
30015501	Key, woodruff 3 x 5	2
30015606	Kit, repair for compressor	1
30015605	Kit, repair for vacuum pump	1
30015641	Knob assembly, front door	1
<b>L</b>		
30014221	Label, serial number	1
30014174	Label, switch	1
30012060	Lever, cassette sucker (lower)	1
30012059	Lever, cassette sucker (upper)	1
30012073	Lever, film delivery angle control	1
30014141	Lever, front shutter safety clamping	1
30014115	Lever, magazine cover lifting	1
30012076	Lever, magazine lid lifting	1
30012055	Lever, magazine sucker arm (1161 and lower)	1
30013334	Lever, magazine sucker bar (Serial no. 1217 and up)	1
30013098	Lever, magazine sucker bar (Serial no. 1216 and lower)	1
30012057	Lever, magazine sucker bar tilt (lower)	1
30012058	Lever, magazine sucker tilt (upper)	1
30011035	Lever, pusher control	1
30014120	Lever, supply magazine lid (stand alone only)	1
30014155	Lid, - stand-alone version	1
30014176	Lid, magazine	1
30014156	Lid, processor interface version	1
30012063	Limiter ring, magazine injector bar	1
30012062	Linkage, cassette sucker movement	1
30012061	Linkage, magazine sucker movement	1
<b>M</b>		
30015601	Magnet	2
30015628	Magnet (rear door, stand-alone version only)	2
30015906	Mains sheath Dia.	6
30014348	Mat, entry (after Mod M11)	1
30015815	Micro switch AM 715559	7
30015814	Micro switch AM 1308	9
30015847	Micro-switch, safety	1



Minibader Parts List **ALPHABETICAL M-N**

Publication Number PL 3211/3212

Part number	Description	Quantity
30012245	<b>Microswitch</b> (Serial no. 1161 and <b>lower</b> )	<b>1</b>
30016313	Minibader stand	1
30012187	Mirror, Photocell FC3 and FC5	2
30015513	Motor (with <b>gearbox</b> no clutch) 12V DC	2
30015656	Motor (with reduction gear) 12V DC <b>with</b> clutch plate	<b>1</b>
30015514	Motor, <b>tilt</b> (with gearbox) 12V DC	1
30012051	Mounting , bottom for sucker bar (1161 and <b>lower</b> )	2
30010050	Mounting plate, for conveyor <b>belt</b> motor	1
30014138	Mounting plate, solenoids 3 and 4	1
30014222	Mounting, cassette guide (right)	1
30014147	Mounting, chute sensor FC7 - (Processor interface version)	<b>1</b>
30014223	Mounting, control panel	1
30014231	Mounting, conveyor support (left hand, Serial number 1217 and up)	1
30014117	Mounting, empty magazine sensor	1
30014201	Mounting, fan	1
30010008	Mounting, for photoelectric cell (Serial no.1161 and lower)	1
30010268	Mounting, for photoelectric cell (Serial no 1162 up)	1
30010009	Mounting, for photoelectric cell FC3	1
30014158	Mounting, mains switch ( <b>CB1</b> )	1
30011028	Mounting, shovel shaft	1
30014116	Mounting, solenoid valves 1 and 2	1
30010088	Mounting, tension screw for conveyor <b>belt</b>	2
30014121	Mounting, <b>tilt</b> motor (Serial No. 1161 and <b>lower</b> )	1
30014114	Mounting, vacuum pumps	<b>1</b>
30010010	Mountings for conveyor belt support (Left and right)	2
30015515	Mountings, rubber (vacuum pump)	9
<b>N</b>		
30015594	Nipples	3
30012276	Nozzle, air	<b>1</b>
30012279	Nozzle, cassette air injector	<b>1</b>
30012346	Nozzle, magazine air injector	1
30015563	Nut M3	63
30015564	Nut M4	112
30015565	Nut <b>M5</b>	11
30015566	Nut M6	26
30015616	Nut M6 Left-hand thread	7
30015610	Nut M6	4
30014227	Nut, for panel fastening screws	4
30015648	Nut, M5 Nybck	1
30015656	Nut, M5 Nybck, low	2
30015633	Nut, Nybck M4	3
30015567	Nut, Nybck M6	1
30015612	Nut, small M4	1
30015638	Nut, small M8	2

Part number	Description	Quantity
<b>O</b>		
30015588	0 ring, inside supply magazine sucker bar	1
<b>P</b>		
30012046	Panel, cam microswitches mounting	1
30014173	Panel, control decal	1
30014151	Panel, left side	1
30014153	Panel, rear - stand-alone version	1
30014150	Panel, right side	1
30014145	Panel, side, key switch and counter housing	1
30014149	Panel, front	1
30014152	Panel, rear - Processor interface version	1
30015801	PCB 101 <i>Replaced by PCB 101M</i>	1
30015925	PCB 101A <i>Replaced by PCB 101B</i>	1
30015967	PCB 101B	1
30015966	PCB 101M	1
30015802	PCB 102 Assembly	1
30015926	PCB 102A	1
30015803	PCB 103 Assembly	1
30015927	PCB 103A	1
30015937	PCB 1038 (Serial no. 1126 to 1161)	1
30015804	PCB 104 <i>Replaced by PCB 104A</i>	1
30015949	PCB 104A Assembly	1
30015805	PCB 105 Assembly	1
30015929	PCB 105A <i>Replaced by PCB 105B</i>	1
30015946	PCB 105B Assembly	1
30015806	PCB 106 Assembly (switchboard panel)	1
30015922	PCB 106A <i>Replaced by PCB 106B</i>	1
30015946	PCB 106B Assembly	1
30015807	PCB 107 (control panel) <i>Replaced by PCB 107B</i>	1
30015947	PCB 107A (control panel) <i>Replaced by PCB 107B</i>	1
30015965	PCB 1078 (control panel)	1
30015898	PCB 108 Assembly (new)	1
30015924	PCB 108A (Photocells) <i>Replaced by PCB 108B</i>	1
30015953	PCB 108B (Photocells)	1
30015905	PCB 109	1
30015935	PCB 109A	1
30010011	Photoelectric cell	4
30012182	Photoelectric cell, FC2, FC3, and FC5	3
30012298	Pillar, tilt motor (Serial number 1162 on)	3
30014171	Pin, lid (Stand-alone version)	1
30014170	Pin, lid (Processor-interface version)	1
30014142	Pin, front shutter safety fulcrum	1
30014161	Pin, inlet safety micro-switch actuating	1
30014177	Pin, magazine hinge	1

## Miniloader Parts List ALPHABETICAL P-R

Publication Number PL 3211/3212

Part number	Description	Quantity
30012081	Pin, magazine latch opening	4
30012217	<b>Pin, magazine sucker bar rotation</b> limiting	2
30015584	Pin, roll Dia. 4 x 20	1
30012127	Pin, tilt mechanism pivot	2
30014160	<b>Pin, front</b> shutter micro-switch actuating	1
30012184	Pivot screw, sucker bar linkage	4
30012297	<b>Pivot shaft, cam follower (Serial number 1162 on)</b>	1
30013099	Pivot, cam follower bearing	4
30012082	Pivot, magazine lid lifting lever	1
30012282	Pivot, ratchet (Serial number 1162 on)	1
30014208	Plate, fan light baffle	1
30014234	Plate, <b>magnetic catch (rear door,</b> stand-alone version)	2
30012188	Plate, microswitch mounting	6
30015660	Plate counter mounting	1
30015918	Plug VD6	1
30015627	Plug, light-tight, cable entry	2
30015598	Plug, sealing	4
30010197	Push strip, cassette roller	3
30015857	Protective caps 25P	2
30010267	Pulley, driving for cassette closing roller	2
30015888	Push button black Dia. 6 type <b>501/B</b>	4
30015886	Push button black rectangular type <b>500/B</b>	1
30015887	Push button red Dia. 6 type <b>501/R</b>	1
30015517	Push-rod ends, left hand thread	5
30015516	Push-rod ends, right hand thread M6	5
30012193	<b>Pushrod</b> cassette suckerbar	1
30012190	<b>Pushrod</b> , cassette opening	1
30012196	<b>Pushrod</b> , Collector cover lifting	1
30012195	<b>Pushrod</b> , magazine cover lifting	1
30012192	<b>Pushrod</b> , magazine sucker bar (tong)	1
30012194	<b>Pushrod</b> , magazine sucker bar (short)	1
30012191	<b>Pushrod</b> , rod pusher control arm	1
30012130	<b>Pushrod</b> , tilt mechanism connecting (1161 and lower)	1
<b>R</b>		
30015934	Radiator x bridge 808	1
30012287	Ratchet, palette (Serial number 1162 on)	1
30012292	Ratchet, teeth (Serial number 1162 on)	1
30015595	Reducer	1
30012189	Reflector, photocell FC2	1
30015866	Relay <b>DS2EM</b> 12V DC (SDS)	70
30015873	Relay <b>DS4EM</b> 12V DC	1
30015812	Relay HA1 12V DC	1
30015810	Relay <b>JC1A</b> 12V DC	3
30015813	Relay <b>SP2P</b> 12V DC	5

Part number	Description	Quantity
30014122	Reservoir, air	1
30015817	Resistor <b>1K 1/4 W</b>	95
30015931	Resistor 1.2 <b>MΩ</b>	1
30015874	Resistor 2.2 K <b>1/4 W</b>	6
30015878	Resistor 3.9 K <b>1/4 W</b>	2
30015816	Resistor <b>5.6K 1/4 W</b>	24
30015932	Resistor 6.8 20W	1
30015882	Resistor <b>8.2K 1/4 W</b>	3
30015933	Resistor 10 NF	1
30015881	Resistor <b>10K 1/4 W</b>	1
30015822	Resistor 15 ohms 10 W	<b>1</b>
30015819	Resistor 56K <b>1/4 W</b>	<b>5</b>
30015912	Resistor 100 ohms 2W	1
30015818	Resistor 180K <b>1/4 W</b>	<b>8</b>
30015872	Resistor 220 ohms <b>1/4 W</b>	<b>7</b>
30015913	Resistor 220 ohms 2W	<b>1</b>
30015820	Resistor 220K <b>1/4 W</b>	<b>7</b>
30015879	Resistor 330 ohms <b>1/4 W</b>	<b>1</b>
30015823	Resistor 470 <b>1/2 W</b>	5
30015899	Resistor 470K <b>1/4W</b>	12
30015821	Resistor <b>1801L 1/2 W</b>	17
30015646	Ring, grip	2
30015673	Ring, grip	3
30011029	Ring, shovel spring return	1
30011021	Rod, release	1
30012286	Rod, tilt connecting (Serial number 1162 on)	1
30010002	Roller, conveyor idler	1
30014162	Roller, entry light-seal	1
30014178	Roller, magazine cover lifting drive	1
30010015	Roller, pusher rod control arm	2
30012228	Roller, <b>tilt</b> lever	1
30010001	<b>Roller, conveyor</b> drive	1
30012080	Rollers, magazine latch opening	4
30015654	Rubber, black, light-seal	
30014143	Rubber, seal, rear panel - Processor interface version	1
<b>S</b>		
30015902	Screw kit for connector <b>R5</b> slide <b>block</b>	2
30015543	Screw, <b>belt</b> tensioning short shank <b>M5</b> x 50	2
30015559	Screw, cross head countersunk M3 x 14	8
30015556	Screw, cross-head countersunk M3 x 6	1
30015557	Screw, cross-head countersunk M3 x 10	19
30015558	Screw, cross-head countersunk M3 x 12	5
30015568	Screw, cross-head countersunk <b>M4</b> x 6	2
30015561	Screw, cross-head countersunk M4 x 10	59
30015562	Screw, cross-head countersunk M4 x 12	6

**Miniloader Parts List**    **ALPHABETICAL S**

Publication Number PL 3211/3212

Part number	Description	Quantity
30015623	Screw, cross-headed 4 x 6	10
30015608	<b>Screw</b> , cross-headed countersunk M4 x 20	4
30015615	Screw, cross-headed countersunk M6 x 10	1
30015609	Screw, cross-headed countersunk. <b>M5</b> x 30	2
30015548	Screw, cross-headed M3 x 6	4
30015549	Screw, cross-headed M3 x 8	16
30015550	<b>Screw</b> , cross-headed M3 x 10	12
30015551	Screw, cross-headed M3 x 12	2
30015552	Screw, cross-headed M3 x 16	9
30015553	Screw, cross-headed M3 x 18	2
30015554	Screw, cross-headed M3 x 20	8
30015644	Screw, cross-headed M3 x 25	2
30015580	Screw, cross-headed M4 x 8 nylon	1
30015653	Screw, cross-headed M4 x 16	2
30015538	Screw, cross-headed short shank M4 x 14	6
30015629	<b>Screw</b> , grub, socket-headed point tip M4 x 6	8
30015578	Screw, grub, socket-headed point tip M6 x 8	8
30015620	<b>Screw</b> , grub, socket-headed point tip PC M6 x 6	4
30015536	Screw, hex headed short shank M4 x 8	18
30015537	Screw, hex headed short shank M4 x 10	554
<b>30015555</b>	<b>Screw</b> , hex-headed M4 x 8	7
30015632	Screw, hex-headed M4 x 45	3
30015582	Screw, hex-headed M8 x 30	4
30015611	Screw, hex-headed short shank M3 x 6	1
30015539	Screw, hex-headed short shank M4 x 16	12
30015607	Screw, hex-headed short shank M4 x 20	4
30015540	Screw, hex-headed short shank M4 x 30	5
30015541	Screw, hex-headed short shank <b>M5</b> x 10	10
30015542	<b>Screw</b> , hex-headed short shank <b>M5</b> x 14	2
30015652	Screw, hex-headed short shank <b>M5</b> x 30	2
30015544	Screw, hex-headed short shank M6 x 10	7
30015545	Screw, hex-headed short shank M6 x 16	7
30015546	Screw, hex-headed short shank M6 x 20	5
30015614	<b>Screw</b> , hex-headed short shank M6 x 30	2
30015547	Screw, hex-headed short shank M6 x 40	1
30015579	Screw, self-tapping 7 x <b>1/4</b>	6
30015625	Screw, socket-head countersunk <b>6UNC</b> x <b>1/4</b>	4
30015535	Screw, socket-headed countersunk <b>M5</b> x 30	1
30015637	Screw, socket-headed M3 x 20	19
30015532	Screw, socket-headed <b>M5</b> x 12	4
30015533	Screw, socket-headed M6 x 10	1
30015534	Screw, socket-headed M6 x 12	4
30015655	Screw, socket-headed M8 x 20	4
30015573	Screws, grub, flat tip M4 x 4	1

Part number	Description	Quantity
30015574	Screws, grub, flat tip M5 x 5	6
30015578	Screws, <b>grub, flat tip</b> M5 x 8	8
30015576	Screws, <b>grub, flat tip</b> M6 x 6	15
30015577	Screws, grub, flat tip M6 x 10	5
30015639	Screws, <b>grub, flat tip.M6</b> x 12	2
30012068	Shaft (idler) cassette sucker bar control	1
30012066	Shaft (lower), magazine sucker	1
30012069	Shaft ( <b>pivot</b> ),cassette sucker bar	1
30012067	<b>Shaft (upper)</b> , magazine sucker	1
30013101	Shaft, cam follower for parts 30013095 and 30013260	2
30010261	Shaft, cassette closing roller	1
30010016	Shaft, cassette closing roller	2
30010262	Shaft, cassette locating roller	1
30010017	Shaft, cassette roller	1
30012086	Shaft, cassette sucker bar rotation	1
30011199	Shaft, for cassette lid lifter	2
30012289	Shaft, for tilt motor cam (Serial number 1162 on)	1
30012289	Shaft, <b>for tilt motor cam (Serial number 1162 on)</b>	1
30012326	Shaft, idler (Serial Number 1217 and up)	1
30012328	Shaft, pivot	1
30012083	Shaft, magazine sucker bar compensator	1
30013100	Shaft, magazine sucker bar lever (Serial No. 1216 and lower)	1
30012330	Shaft, magazine sucker bar lever	1
30011023	Shaft, shovel pivot	1
30011024	Shovel, release	1
30012037	Side plate, Left side	1
30012038	Side plate, Right side	1
30015904	<b>Slide</b> X 15 poly	1
30015903	Slide X 25 poly	1
30015891	Socket for integr. 6 pin	19
30015892	Socket for integr. 8 pin	1
30015893	Socket for <b>integr.14</b> pin	1
30015811	Socket for relay <b>JC1A</b>	3
30015521	Solenoid valves 12V DC	5
30010049	Spacer, for motor plate	1
30014251	Spacer, front door latch	1
30012077	Spacer, magazine sucker bar shaft	1
30012229	Spacer, microswitch MS 14	2
30011254	Spacer, release rod pivot	1
30012238	Spacer, sucker	2
30012241	Spacer, tilt <b>pushrod</b> collar (1161 and lower)	1
30012078	<b>Spacer,Bearing</b> single	1
30011200	Spacercassette lid lifter arm bearing	1
30012294	Spring ( <b>return</b> ), cam follower for tilt lever (Serial number 1162 on)	1

Part number	Description	Quantity
30012293	Spring ( <b>return</b> ), palette cam follower (Serial number 1162 on)	1
30016306	Spring for tunnel seal	2
30012295	Spring, cam palette return (Serial number 1162 on)	1
30011196	Spring, cassette air injector	1
30010167	Spring, cassette closing roller	2
30012165	Spring, cassette sucker bar rotation return	1
<b>30012164</b>	Spring, compensator, magazine sucker bar control	1
30012215	Spring, double magazine <b>locating</b>	1
30014252	Spring, front door latch	1
30014226	Spring, front door micro-switch	1
30014166	Spring, lid <b>damping</b>	1
30012213	Spring, magazine injector bar return	1
30014226	Spring, magazine lid fastening	3
30012186	Spring, magazine lid lifting lever return	1
30014139	Spring, return	1
30011031	Spring, rod return	1
30011022	Spring, shovel return	1
30013102	Sprocket, camshaft	1
30013132	Sprocket, flanged, cam motor drive	1
30015868	Stabilizer <b>78S</b> 12 V	2
30015885	Stabilizer radiator	1
30016304	Stand bracket	1
30016311	Stand for <b>M35</b>	1
30010131	Stop ring	6
30012183	Stop, for sucker bars	2
30012280	Stop, rubber magazine injector bar (home position)	1
30010265	<b>Stop, lift</b> limiter, cassette closing roller	1
30012275	<b>Stop, rubber</b> for magazine bar injector height adjuster	1
30014253	Striker plate, front door <b>latch</b>	1
30015901	Stud kii for connector	3
30012218	Stud, magazine injedor bar return	2
30011032	Stud, magazine <b>lid</b> lifting roller	1
30012271'	Sucker (Serial number 1162 on)	1
	'30012299 after Serial number 1216	
30012040	Sucker bar, cassette	1
30012380	Sucker bar, supply magazine	1
30015651	Sucker spacer)	1
30012181	Sucker, Film (Serial number 1 161 and lower)	4
30012300	Sucker, magazine with 'O' ring (Serial number 1162 on)	1
30012299	<b>Sucker, supply</b> magazine (Serial number 1162 on)	1
30010005	Support plate spacer bars	2
30010004	Support plate, for conveyor belt	2
30013269	Support, cam	1
30013093	Support, cam motor	1

<b>Part</b> number	Description	Quantity
30013092	Support, camshaft left-hand (up to Serial No. 1216)	1
30013091	Support, camshaft right-hand	1
30012256	Support, cassette film sucker bar (Serial number 1162 on)	1
30012079	Support, "magazine nearly empty" mirrors	1
30012087	Support, "magazine nearly empty" photoelectric cell FC8	1
30012257	Support, magazine sucker bar (Serial number 1162 on)	1
30012085	Support, microswitch panel left-hand upright	1
30012084	Support, microswitch panel right-hand upright	<b>1</b>
30012214	Support, sensor reinforcement (stand-alone version only)	1
30014112	<b>Support, stiffener</b>	1
30012281	<b>Support, tilt</b> motor (Serial number 1162 on)	<b>1</b>
30015848	Switch, key	<b>1</b>
30015809	Switch, mains, AMF W. 641	<b>1</b>
<b>T</b>		
30015843	Terminal board KS6	<b>1</b>
30015844	Terminal board KS1 0	<b>1</b>
30015936	Terminal board MK3 / 12	<b>1</b>
30015842	Terminal board MKDS 4	<b>1</b>
30015930	Terminal board MKDS 8	<b>1</b>
30015916	Terminal SL6	<b>2</b>
30015845	Terminals BL2	<b>6</b>
30015841	Terminals BL6	<b>2</b>
30015846	Terminals SL2	<b>6</b>
30013135	Torque limiter	<b>1</b>
30015921	Transformer (see Publication No. 29050066)	1
30015800	Transformer <b>220-240V/13.6V</b>	1
30015826	Trimmer 64 W 103	1
30015827	Trimmer 64 W 104	16
30015889	Trimmer 100 K horizontal	1
30015914	Trimmer 500 ohms	1
30015900	Trimmer 500K vertical	1
30015589	Tube, flexible polythene 5x3 (1 <b>metre</b> )	
30015590	Tube, rigid nylon 5 x 3	
30016310	Tunnel	1
30016309	Tunnel cover	1
2905747	Ty-rap (CMA Part/No. <b>2E386</b> ) Mod <b>UO1</b>	<b>1</b>
29045754	Ty-rap bracket (CMA Part/No. <b>2E386</b> ) Mod <b>UO1</b>	1
<b>U</b>		
30012045	Upright, left front upright	1
30012044	Upright, right front	1
<b>V</b>		
30015634	Vacuum pump <b>240v</b>	1
30015519	Vacuum pumps <b>220v</b>	2
<b>W</b>		
30015626	Washer (large) <b>M5</b> x 14	2
30015650	Washer (special)	1



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Part number	Description	Quantity
30015581	Washer Dia. <b>10</b> x 16 x 1.5 nylon	1
30015568	Washer, flat M3	36
30015569	Washer, flat M4	47
30015570	Washer, flat <b>M5</b>	14
30015571	Washer, flat M6	17
30015572	Washer, flat <b>M8</b>	
39015618	Washer, large flat M5 x 14	4
30014250	Washer, locking, front door latch	1
30015518	Washer, <b>preloading</b> spring for 300 131325	4
30016315	Washer, rubber	2
30015530	Washer, split (special)	1
30015642	Washers, brass, (special)	2
30016303	Wheel	4
30016302	Wheel pin	4

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**Miniloader Parts List ALPHABETICAL T-W**

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Part number	Description	Quantity
29045747	Ty-rap <b>(CMA Part/No. 2E386)</b>	Mod <b>UO1</b>
29035342	<b>Fuseholder</b> (CMA <b>Part/No. 2E318</b> )	Mod <b>UO1</b>
29045754	Ty-rap bracket (CMA Part/No. <b>2E386</b> )	Mod <b>UO1</b>
30010001	Roller, conveyor drive	22
30010002	Roller, conveyor idler	22
30010003	Cassette stop	24
<b>30010004</b>	Support plate, for conveyor belt	24
30010005	Support plate spacer bars	24
30010006	Cassette guide, right handguide	24
30010007	Cassette guide, left hand	24
30010008	Mounting, for photoelectric cell (Serial number 1161 and tower)	24,
30010009	Mounting, tor photoelectric cell FC3	24
30010010	Mountings for conveyor <b>belt</b> support (Left and right)	24
30010011	Photoelectric cell	<b>6,20,22,38,39,43</b>
30010012	Feed <b>roller</b> gear	
30010013	<b>Gear,chain</b> for conveyor belt motor	<b>22,23</b>
30010014	Gear hub, for conveyor <b>belt</b> motor	<b>22,23</b>
30010015	Roller, pusher rod control arm	27
30010047	Flange, bearing	<b>23,20,22</b>
30010048	Back-plate, bearing flange	<b>23,20,22</b>
30010049	Spacer, for motor plate	22.23
300 10050	Mounting plate, for conveyor belt motor	<b>22, 23</b>
30010088	Mounting, tension screw for conveyor belt	<b>23,22, 23</b>
30010197	Plush strip, cassette roller	29
30010247	Gear, cassette closing roller	29
30010248	Gear, for conveyor belt motor	<b>20,22</b>
30010261	Shaft, cassette closing roller	29
30010262	Shaft, cassette locating roller	29
30010263	Bush, cassette closing roller	29
<b>30010264</b>	Connecting block, cassette closing rollers	29
30010265	<b>Stop,lift</b> limiter, cassette closing roller	29
30010267	Pulley, driving for cassette closing roller	29
30010268	Mounting, <b>for</b> photoelectric Cell (Serial no 1162 up)	<b>22, 23</b>
30011019	Carrier, cassette opener mechanism	26
30011020	Bush, bearing internal	<b>27,34,35</b>
30011021	Rod, release	27
30011022	Spring, shovel return	27
30011023	Shaft, shovel pivot	27
30011024	Shovel, release	27
30011025	Guide, for shovel shaft	27
30011026	Guide for rod	27
30011027	Block, rod return-spring thrust	27
30011028	Mounting, shovel shaft	27

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Minibader Parts List ALPHABETICAL **T-W**Publication Number PL **3211/3212**

<b>Part number</b>	<b>Description</b>	<b>Quantity</b>
30011029	Ring, shovel spring return	26
30011030	Bearing, shovel shaft	26
30011031	Spring, rod return	26
30011032	Stud, magazine lid lifting roller	24
30011033	Arm, pusher, for rod	26
30011034	Cam, pusher-rod control arm	26
30011035	Lever, pusher control	26
30011036	Bracket, cassette air injector	26
30011198	Spring, cassette air injector	26
30011199	Shaft, for cassette lid lifter	26
30011200	<b>Spacer,cassette</b> lid lifter arm bearing	27
30011254	Spacer, release rod pivot	26
30012037	Sideplate, Left side	25
30012038	Side plate, Right side	<b>22, 23</b>
30012039	Sucker bar, supply magazine	<b>34,35</b>
30012040	Sucker bar, cassette	2 8
30012042	<b>Guide</b> (Left), supply magazine	<b>38,39</b>
30012043	Guide (Right), supply magazine (Serial no. 1161 and lower)	<b>38,39</b>
30012044	Upright, right front	<b>38,39</b>
30012045	Upright, left front upright	<b>38,39</b>
30012046	<b>Panel,cam</b> microswitches mounting	18
30012051	<b>Mounting,bottom</b> for sucker bar (Serial no. 1161 and lower)	<b>34,35,</b>
30012053	Gear, supply magazine control	<b>28,30,32, 33, 33A</b>
30012054	Gear, supply magazine control	<b>28,30,32, 33, 33A</b>
30012055	Lever, magazine sucker arm (Serial no. 1161 and lower)	
30012057	Lever, magazine sucker bar tin (tower)	<b>36,37</b>
30012058	Lever, magazine sucker <b>tilt</b> (upper)	<b>34,35,36,37</b>
30012059	Lever, cassette <b>sucker(upper)</b>	28
30012060	Lever, cassette sucker (lower)	28
30012061	Linkage, magazine sucker movement	<b>28,36,37</b>
30012062	Linkage, cassette sucker movement	28
30012063	Limiter ring, magazine injector bar	<b>30,32, 33, 33A</b>
30012066	Shaft (tower), magazine sucker	<b>30,32, 33, 33A</b>
30012067	Shaft (upper), magazine sucker	<b>34,35</b>
30012068	Shaft (idler) cassette sucker bar control	28,
30012069	Shaft ( <b>pivot</b> ),cassette sucker bar	<b>28,</b>
30012070	Drum, magazine sucker bar compensator	<b>30,32, 33, 33A</b>
30012071	Compensator, magazine sucker bar control (long section)	<b>30,32, 33, 33A</b>
30012072	Compensator, magazine sucker bar control (short section)	<b>30,32, 33, 33A</b>
30012073	Lever, film delivery angle control	<b>34,35</b>
30012075	Cam, film delivery angle control (Serial no. 1161 and lower)	<b>36,37</b>
30012076	Lever, magazine lid lifting	<b>36,37</b>
30012077	Spacer, magazine sucker bar shaft	<b>36,37</b>
30012078	<b>Spacer,Bearing</b> single	<b>36,37</b>

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Part number	Description	Quantity
30012079	Support, 'magazine <b>nearly</b> empty" mirrors	<b>34,35</b>
30012080	Rollers, magazine <b>latch</b> opening	<b>38,39</b>
30012081	Pin, magazine latch opening	38,39
30012082	Pivot, magazine <b>lid</b> lifting lever	<b>36,37</b>
30012083	Shaft, magazine sucker bar <b>compensator</b>	<b>30,32, 33, 33A</b>
30012084	Support, microswitch panel right-hand <b>upright</b>	18
30012085	<b>Support</b> , microswitch panel left-hand upright	18
30012086	Shaft, cassette sucker bar rotation	28
30012087	Support, "magazine nearly empty" photoelectric cell FC8	<b>34,35</b>
30012126	Assembly, multiple bad sensor assembly	43
30012127	Pin, tin mechanism pivot	<b>34,35,36,37</b>
30012128	<b>Collar</b> ,tilt mechanism	<b>36,37</b>
30012129	Cam, tilt mechanism (Serial no. 1161 and lower)	
30012130	<b>Pushrod</b> ,tilt mechanism connecting (Serial no. 1161 and <b>lower</b> )	<b>36,37</b>
30012164	Spring, <b>compensator</b> , magazine sucker bar control	<b>30,32, 33, 33A</b>
30012165	<b>Bearing</b> ,flanged nylon, pusher rod control arm shaft	<b>24,26,</b>
30012166	Housing, bearing	<b>14,15,20,22,23,29,</b>
30012181	Sucker, Film (Serial no. 1161 and <b>lower</b> )	<b>28,34</b>
30012182	<b>Photoelectric</b> cell, FC2, FC3, and FC5	<b>24,34,35</b>
30012183	Stop, for sucker bars	<b>36,37</b>
30012184	Pivot screw, sucker bar linkage	28
30012185	<b>Spring</b> ,cassette sucker bar rotation return	<b>34,35</b>
30012186	Spring, magazine lid lifting lever return	<b>36,37</b>
30012187	Mirror, Photocell FC3 and FC5	<b>24,34,35,</b>
30012188	Plate, <b>microswitch</b> mounting	<b>7,34,35,38,39</b>
30012189	Reflector, Photocell FC2	
30012190	<b>Pushrod</b> , cassette opening	<b>19, 20,24</b>
30012191	<b>Pushrod</b> , rod pusher control arm	<b>19, 20,26</b>
30012192	<b>Pushrod</b> ,magazine sucker bar(bng)	<b>19, 20,</b>
30012193	<b>Pushrod</b> cassette sucker bar	<b>19, 20,30,32, 33,</b>
<b>33A,36,37</b>		
30012194	<b>Pushrod</b> , magazine sucker bar (short)	<b>30,32, 33, 33A</b>
30012195	<b>Pushrod</b> , magazine <b>cover lifting</b>	<b>38,39</b>
30012196	<b>Pushrod</b> , Collector cover <b>lifting</b>	
30012213	<b>Spring</b> ,magazine injector bar return	<b>30,32, 33, 33A</b>
30012214	Support, sensor reinforcement (stand-alone version only)	
30012215	Spring, double magazine locating	<b>16,19</b>
30012217	Pinmagazine sucker bar rotation limiting	<b>34,35</b>
30012218	Stud, magazine injector bar return	<b>30,32, 33, 33A</b>
30012228	Roller, <b>Tilt</b> lever	<b>34,35</b>
30012229	Spacer, microswitch MS 14	28

Part number	Description	Quantity
30012238	Spacer, sucker	28
30012241	Spacer, tin <b>pushrod</b> collar (1161 and <b>lower</b> )	
30012242	Actuator, cam microswitches	<b>14,15</b>
-3001 2243	Clamp	
30012244	Hose, air	
30012245	Microswitch (1161 and <b>lower</b> )	<b>38,39</b>
30012246	Actuator, MS1	<b>14,15</b>
30012256	Support, cassette film sucker bar (Serial number 1162 on)	28
30012257	Support, magazine sucker bar (Serial number 1162 on)	<b>30,32, 33, 33A</b>
30012270	Cam film delivery angle control	<b>34,35</b>
30012271	Sucker (Serial number 1162 on) '30012299 after Serial Number 1216	28
30012273	Bar, magazine injector	<b>34,35</b>
30012274	Adjuster, magazine injector bar height	<b>34,35</b>
30012275	<b>Stop,rubber</b> for magazine bar injector height adjuster	<b>34,35</b>
30012276	Nozzle, air	
30012277	Assembly. magazine injector bar	<b>34,35</b>
30012278	Assembly, cassette air injector(Serial number 1162 on)	24
30012280	Stop, rubber magazine injector bar (home position)	23
30012281	<b>Support,tilt</b> motor (Serial number 1162 on)	34.35
30012282	Pivot, ratchet (Serial number 1162 on)	<b>34,35</b>
30012283	Cam, Tin motor, exposed film, <b>lifting</b> ( Serial number 1162 on) <b>34,35</b>	
30012284	Cam, for tilt microswitch MS <b>13,14,15</b>	<b>34,35</b>
30012285	Clamping ring, cam ( Serial number 1162 on)	<b>34,35</b>
30012286	Rod, tin connecting (Serial number 1162 on)	<b>34,35,36,37</b>
30012287	Ratchet, palette (Serial number 1162 on)	<b>6,34,35</b>
30012288	Block, mounting for ratchet palette (Serial number 1162 on)	<b>34,35</b>
30012289	Shaft, for tilt motor cam (Serial number 1162 on)	34.35
30012290	Cam follower, palette <b>lifting</b> (Serial number 1162 on)	<b>34,35</b>
30012291	Cam follower, tiff (Serial number 1162 on)	34.35
30012292	Ratchet, teeth (Serial number 1162 on)	<b>34,35</b>
30012293	Spring (return), palette cam follower (Serial number 1162 on)	<b>34,35</b>
30012294	Spring (return), cam follower for tin lever (Serial number 1161	<b>,34,35</b>
30012295	Spring, cam palette return (Serial number 1162 on)	<b>38,39,34,35</b>
30012297	Pivot shaft, cam follower (Serial number 1162 on)	<b>34,35</b>
30012298	Pillar, tin motor (Serial number 1162 on)	<b>34,35,28</b>
30012299	Sucker, supply magazine (Serial number 1162 on)	<b>34,35,28</b>
30012300	Sucker, magazine with 'O' ring (Serial number 1162 on)	<b>34,35</b>
30012301	Bearing, <b>nylon</b> , dia 6 mm	<b>34,35</b>
30012330	Shaft, magazine sucker bar lever	
30012346	Nozzle, magazine air injector	<b>34,35</b>

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Part number	Description	Quantity	
30012347	Collar, magazine air nozzle support	34,35	
30013089	Cam, cassette lid release lifting (Serial number 1161 and lower)	14,15	
30013090	Cam, sucker bars (operating) (Serial numbers 1101-11241)	14,15	
30013091	Support, camshaft right-hand	14,15	
30013092	Support, camshaft left-hand (up to Serial No. 1216)	14,15	
30013093	Support, cam motor	16,19	
36013094	Camshaft	14,15	
30013095	Cam follower, pusher rod control arm	17,18	
30013096	Cam follower, magazine sucker bar	17,18	
30013097	Lever, cassette sucker bar	17,18	
30013098	Lever, magazine sucker bar (Serial number 1216 and lower)	36,37	
30013099	Pivot, cam follower bearing	17,18	
30013100	Shaft, magazine sucker bar lever (Serial number 1216 and lower)	36,37	
30013101	Shaft, cam folbwer for parts 30013095 and 30013260	17,18	
30013102	Sprocket, camshaft	14,15	
30013103	Cam, microswitch No 1 (Serial number 1106 and lower)	14,15	
30013104	Cam, MS2	14,15	
30013105	Cam, MS3	14,15	
30013106	Cam, MS4	14,15	
30013107	Cam, MS1 7 and MS5	14,15	
30013108	Cam, MS6	14,15	
30013132.	Sprocket, flanged, cam motor drive	16,19	
30013133	Hub, cam motor shaft	16,19	
30013134	Adjuster, friction	16,19	
30013135	Torque limiter	16,19	
30013211	Cam, MS8	14,15	
30013212	Cam, MS16	14,15	
30013260	Lever, cassette lid lifting (Serial number 1162 and up)	17,18	
30013269	Support, cam	14,15	
30013272	Cam, cassette lid release lifting (Serial number 1162 and up)	14,15	
30013327	Cam, microswitch MS7	17,18	
30013349	Cam, sucker bar operating (Serial number 1242 and up)		
30014109	Frame, machine	38,39	
30014110	Guide, left hand receiving magazine	41	
30014111	Guide, right hand receiving magazine	41	
30014112	Support, stiffener		
30014113	Cross-member, receiving magazine guide	41	
30014114	Mounting, vacuum pumps	10	
30014115	Lever, magazine cover lifting	38,39	
30014116	Mounting, solenoid valves 1 and 2	10	

Part number	Description	Quantity
30014117	Mounting, empty magazine sensor	<b>38,39</b>
30014118	Bracket, <b>FC1</b>	43
30014119	Bracket, FC7 (stand alone <b>only</b> )	40
30014120	Lever, supply magazine lid (stand <b>alone</b> only)	38
30014121	Mounting, <b>tilt</b> motor (Serial No. 1161 and bwer)	
30014122	Reservoir, air	8
30014123	Bracket, solenoid valve S5	<b>8,9</b>
30014125	Intake, tray guide	
30014138	Mounting plate, solenoids 3 and 4	10
30014140	Bracket, MS10 (Serial No. 1216 and <b>lower</b> )	<b>38,39</b>
30014143	Rubber, seal, rear panel • Processor interface version	7
30014144	Guide film processor upper • Processor interface version	7
30014145	Panel, side, key switch and counter housing	12
30014147	Mounting, chute sensor FC7 • Processor interface version	7
30014148	Door, front	8
30014149	<b>Panel,front</b>	<b>6, 6A</b>
30014150	Panel, right side	5
30014151	Panel, left side	5
30014152	<b>Panel,rear</b> -Processor interface version	7
30014153	Panel, rear • stand-alone version	
30014155	Lid, • stand-alone version	5
30014156	Lid, processor interface version	5
30014157	Box, key switch and counter housing	14
30014158	Mounting, mains switch ( <b>CB1</b> )	14
30014159	Chute, film outlet slide	7
30014160	<b>Pin,front</b> shutter micro-switch actuating	<b>6, 6A</b>
30014161	Pin, inlet safety micro-switch actuating	
30014162	Roller, entry light-seal	8
30014163	Channel, light-seal roller, right hand	8
30014168	Spring, lid clamping	<b>5</b>
30014169	Actuator, lid micro-switch	<b>5</b>
30014170	Pin, cover (short) Processor-interface version	<b>5</b>
30014171	Pin, <b>cover (long)</b> Stand-alone version	<b>5</b>
30014173	Panel, control decal	<b>5</b>
30014174	Label, switch	6
30014175	Body, magazine	45
30014176	Lid, magazine	45
30014177	Pin, magazine hinge	45
30014178	Roller, magazine cover lifting drive	24
30014179	Assembly, single magazine	45
30014180	Assembly, double magazine	45
30014201	Mounting, fan	15
30014202	Cover, P.C.B. protection	43



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Part number	Description	Quantity
30014203	Channel, P.C.B. chassis <b>right</b> hand	15
30014204	Channel, P.C.B. chassis left hand	15
30014207	Fitter, tan	4
30014208	Plate, fan light baffle	15
30014209	Bracket, P.C.B. guide right hand	15
30014210	Handle for inseting single magazine	45
30014216	Bracket, P.C.B. guide left hand	15
30014221	Label, serial number	39
30014222	Mounting, cassette guide (right)	24
<del>3001</del> 4223	Mounting, control panel	5
30014224	Casing, control panel	6
30015530	Washer, split (special)	32, 33, 33A,
30015531	E clip E6	25,38,39
30015532	Screw, socket-headed <b>M5</b> x 12	38,39
30015533	Screw, socket-headed M6 x 10	32, 33, 33A,
30015534	Screw, socket-headed M6 x 12	
30015535	Screw, socket-headed countersunk M5 x 30	
30015536	Screw, hex headed short shank M4 x 8	4,10,14,
30015537	Screw, hex headed short shank M4 x 10	12,16,19,20
30015538	Screw, cross-headed short shank M4 x 14	8,9,14,15
30015539	Screw, hex-headed short shank M4 x 16	6,15
30015540	Screw, hex-headed short shank M4 x 30	15,23
30015541	Screw, hex-headed short shank <b>M5</b> x 10	17,18,20,22
30015542	Screw, hex-headed short shank <b>M5</b> x 14	36,37
30015543	Screw, <b>belt</b> tensioning short shank <b>M5</b> x 50	23,20,22
30015544	Screw, hex-headed short shank M6 x 10	36,37
30015545	Screw, hex-headed short shank M6 x 16	17,18,36,37
30015546	Screw, hex-headed short shank M6 x 20	8,25,38,39
30015547	Screw, hex-headed short shank M6 x 40	24
30015548	Screw, cross-headed M3 x 6	12,25
30015549	Screw, cross-headed M3 x 8	6,10,15,25,34,
30015550	Screw, cross-headed M3 x 10	8,25
30015551	Screw, cross-headed M3 x 12	12
30015552	<b>Screw</b> , cross-headed M3 x 16	25,34,35,38,39
30015553	<b>Screw</b> , cross-headed M3 x 18	20,22
30015554	Screw, cross-headed M3 x 20	6,10,38,41,43
30015555	Screw, hex-headed M4 x 8	8,43
30015556	<b>Screw</b> , cross-head countersunk M3 x 6	
30015557	<b>Screw</b> ,cross-head countersunk <b>M3x10</b>	8,24,24,34,35
30015558	Screw, cross-head countersunk M3 x 12	10
30015559	Screw, cross head countersunk M3 x 14	24,34,35
30015560	Screw, cross-head countersunk M4 x 6	9,34,35
30015561	Screw, cross-head countersunk M4 x 10	10,12,15,14,15,16,
30015562	Screw, cross-head countersunk M4 x 12	4,15,43

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Part number	Description	Quantity
30015563	Nut M3	10,12,14,15,24,
30015564	Nut M4	4,6,10,15,14,15,
30015565	Nut M5	23,20,22,36,37,38,41
30015566	Nut M6	4,17,18,20,22,24,28
30015567	Nut, Nykick M6	36,37
30015568	Washer, flat M3	12,14,15,20,22,23
30015569	Washer, flat M4	4,8,6,10,12,14,15,
30015570	Washer, flat M5	15,20,22,36,37,38,41
30015571	Washer, flat M6	4,17,18,25,28,32, 33,
33A		
30015572	Washer, flat M8	
30015573	Screws, grub, flat tip M4 x 4	16,19
30015574	Screws, grub, flat tip M5 x 5	20,22,25,29,28,34,35
300 15575	Screw, grub, flat tip M5 x 8	25
30015576	Screws, grub, flat tip M6x6	24,26,29,28,32, 33,
33A,31		
30015577	Screws, grub, flat tip M6 x 10	14,15
30015578	Screw, grub, socket-headed point tip M6 x 8	14,15,29
30015579	Screw, self-tapping 7 x 1/4	12
30015580	Screw, cross-headed M4 x 8 nylon	24
30015581	Washer Dia. 10 x 16 x 1.5 nylon	14,15,16,19
30015582	Screw, hex-headed M8x 30	
30015584	Pin, roll Dia. 4 x 20	14,15,26
30015585	Key, 5 x 5 x 25	14,15
30015586	Key 5 x 5 x 50	
30015587	Ball-bearing Dia. 1/8	16,19
30015588	O ring, inside supply magazine sucker bar	34,35
30015589	Tube, flexible polythene 5x3 (1 metre)	10,24
30015590	Tube, rigid nylon 5 x 3	
30015591	Connector, straight 5/3-1/8	9,8,10,28,34,35
30015592	Connector right-angle 5/3-1/8	8,10,34,35
30015593	Connector, T	8,10
30015594	Nipples	8,10
30015595	Reducer	8
30015596	Aluminium washer (special)	
30015597	Fitter, air	10, 11
30015598	Plug, sealing	10, 11
30015599	Gauge, pressure 0-4 bar	10
30015600	External grid for fan Type RRFC/1202	5
30015601	Magnet	
30015602	Hinge, cassette air injector	24
30015603	Handle, lid and rear door	5

Part number	Description	Quantity
30015604	<b>Felt</b> , entrance <b>slot</b> (machines without Mod. 11)	5
30015605	Kit, repair for vacuum pump	11
30015606	Kit, repair for compressor	
30015607	Screw, hex-headed short shank <b>M4x20</b>	<b>23,20,22</b>
30015608	Screw, cross-headed countersunk M4 x 20	24
30015609	Screw, cross-headed countersunk. M5 x 30	<b>38,41</b>
<b>30015610</b>	Nut M8	<b>17,18</b>
30015611	Screw, hex-headed short shank M3 x 6	25
30015612	Nut, small M4	24
30015613	Clip, E M8	25
30015614	Screw, hex-headed short shank M6 x 30	<b>32, 33, 33A,31</b>
30015615	Screw, cross-headed countersunk M6 x 10	<b>30,32, 33, 33A</b>
30015616	Nut M6 Left-hand thread	24
30015617	Circlip E20	<b>24,26</b>
30015618	Washer, large flat M5 x 14	
30015619	Grub screws flat P 4 x 10	
30015620	Screw, grub, socket-headed point tip PC M6 x 6	
30015621	Flexible pin 3 x 6	
30015622	Foam, grey light-lock <b>self-adhesive</b> 20 x 10	
30015623	Screw, cross-headed 4 x 6	15
30015624	Assembly, vacuum control <b>valve</b>	12
30015625	Screw, socket-head countersunk <b>6UNC</b> x 1/4	14
30015626	Washer (large) M5 x 14	9.15
30015627	Plug, light-tight, cable entry	43
30015628	Magnet (rear door, stand-alone version only)	
30015629	Screw, grub, socket-headed point tip M4 x 6 8	
30015630	Gland, cable <b>3/8</b> 2519 plus screw <b>TB</b> 140	<b>43</b>
30015631	<b>Bush DU 4 x 5.5 x 6</b>	
30015632	Screw, hex-headed <b>M4x</b> 45	
30015633	Nut, Nybck M4	
30015634	Vacuum pump 240V	10
30015635	Compressor 240V	9
30015637	Screw, socket-headed M3 x 20	<b>14,15</b>
300 15638	Nut, small M8	
30015639	Screws, <b>grub</b> , f&t tip. <b>M6</b> x 12	
30015640	Grub screws P. Con M6 x 12	
30015641	Knob assembly, front door	<b>9</b>
30015642	Washers, brass, (special)	<b>9</b>
30015644	Screw, cross-headed M3 x 25	<b>34,35</b>
30015645	Circlip EI 6	29

Part number	Description	Quantity
30015646	Ring, grip	29
30015647	Belt, drive	29
30015648	Nut, <b>M5</b> Nytock	
30015649	Connector magazine injector nozzle	34,35
30015650	Washer (special)	34.35
30015651	Sucker spacer)	
<b>30015652</b>	Screw, hex-headed short shank <b>M5</b> x 30	5
30015653	Screw, cross-headed M4 x 16 2	
30015654	Rubber, black, light-sea	1
30015655	Screw, socket-headed M8 x 20 4	
30015656	Nut, <b>M5</b> Nytock, bw	
30015658	Motor (with reduction gear) 12V DC )with clutch plate	21
30015659	Counter	1 2
30015660	Plate, counter mounting	12
30015671	Door, rear- stand-alone version	50
30015673	Ring, grip	29
30015683	Handle, lid	4
30015800	Transformer <b>220-240V/13.6V</b>	15,46
30015801	PCB 101 <i>Replaced by PCB 101M</i>	53
30015925	<b>PCB101A</b> <i>Replaced by PCB 101B</i>	54
30015967	<b>PCB101B</b>	55
30015966	<b>PCB101M</b>	56
30015802	PCB 102 Assembly	57
30015926	PCB 102A	58
30015803	PCB 103 Assembly	59
30015927	PCB 103A	60
30015937	PCB 103B (Serial no. 1126 to 1161)	61
30015804	PCB 104 <i>Replaced by PC8 104A</i>	62
30015949	PCB <b>104A</b> Assembly	63
30015805	PCB 105 Assembly	64
30015929	PCB <b>105A</b> <i>Replaced by PCB 105B</i>	65
300 15948	PCB 105B Assembly	66
30015806	PCB 106 Assembly (switchboard panel)	67
30015922	PCB 106A <i>Replaced by PCB 106B</i>	68
30015946	PCB 106B Assembly	69
30015807	PCB 107 (control panel) <i>Replaced by PC5 107B</i>	70
30015947	PCB <b>107A</b> (control panel)) <i>Replaced by PCB 107B</i>	71
30015965	PCB 107B (control panel)	72
30015898	PCB 108 Assembly (new)	73
30015924	PCB 108A (Photocells)) <i>Replaced by PCB 108B</i>	74
30015953	PCB <b>108B</b> (Photocells)	75
30015905	PCB 109	76
30015935	PCB <b>109A</b>	77

Part number	Description	Quantity
30015809	Switch, mains, AUF W. 641	12,
30015610	Relay JC1A 12V DC	49
30015811	Socket for relay JC1A	49
30015812	Relay HA1 1 2V DC	49
30015813	Relay SP2P 12V DC	
30015814	Micro switch AM1308	16,19,40,41
30015815	Micro switch AU 715559	34,35,40,41
30015816	Resistor 5.6K 1/4 W24	46,47,50
30015817	Resistor 1 K 1/4 W	47,48,50
30015818	Resistor 180K 1/4 W	46,47,48
30015819	Resistor 56K 1/4 W	46,48
30015820	Resistor 220K 1/4 W	46,48
30015821	Resistor 1801L 1/2 W	46,47,51,52
30015822	Resistor 15 ohms 10 W1	49
30015823	Resistor 470 1/2 W	49
30015824	Diode 1N 400732	48,49,50
30015825	Diode 1N 414812	46,47,50
30015826	Trimmer 64 W 1031	
30015827	Trimmer 64 W 10416	46,47,48
30015828	Diode LED Dia.5 red	50
30015829	Diode LED Dia. 5 green	50
30015830	Diode LED Dia. 5 yellow	50
30015831	Diode LED Dia. 3 red	46,47,48
30015832	Capacitor electrolytic 22UF 25VL	46,47
30015833	Capacitor electrolytic 47UF 25VL	46,47,50
30015834	Capacitor electrolytic 1 00UF 25VL	46,47,49
30015835	Capacitor electrolytic 220UF 25VL	48,49
30015836	Capacitor electrolytic 4700UF 25VL	49
30015837	Capacitor electrolytic 10 000UF 25VL	49
30015838	Capacitor polyester 01 5MF 400VL	49
30015839	Capacitor polyester 0.1 MF 160V	49
30015840	Capacitor polyester 0.33MF 160V	49
30015841	Terminals BL6	49
30015842	Terminal board UKDS 4	
30015843	Terminal board KS6	14
30015844	Terminal board KS1 0	12
30015845	Terminals BL2	
30015846	Terminals SL2	49
30015847	Micro-switch, safety	12
30015846	Switch, key	12

Part number	Description	Quantity
30015849	Fitter <b>0.5mF</b> 630V DC	<b>49</b>
3001 5850	<b>Filter</b>	
30015851	Connector tripolar male	51
30015852	Connector tripolar <b>female</b> (Fittings)	
30015853	Connector tripolar male 25 P <b>CS</b> (Fittings)	<b>49,50</b>
30015854	Connector tripolar female 25 P <b>CS</b> (Fittings)	<b>49</b>
30015855	Connector tripolar male 15 P <b>CS</b> ( Fittings)	<b>49,51</b>
30015856	Connector tripolar female 15 P <b>wire</b> ( Fittings)	
30015857	Protective caps 25P	
300 15858	Caps, protective 15 P	12
30015859	Connector male 25 P X wire	
300 15860	Connector female 25 P X wire	
30015861	Cap 25 P 90	
30015862	Fuse holder LFH 320	<b>49</b>
30015863	Card guide CBG <b>5A2</b>	<b>49</b>
30015864	Connector 31 P female XCS	<b>49</b>
30015865	Connector 31 P male 90	<b>46,47,48</b>
30015866	Relay <b>DS2EM</b> 12V DC (SDS)	<b>46,47,48,49,50</b>
30015867	Bridge KBPC 2506	<b>49</b>
30015868	Stabilizer <b>78S</b> 12 V	<b>49</b>
30015869	<b>Integr.TM765A</b>	<b>46,47,48,50</b>
30015870	Integr. TCA 965	<b>48</b>
30015871	Bridge On-Off Dip-fix	<b>46,47</b>
30015872	Resistor 220 ohms <b>1/4 W</b>	<b>46 48</b>
30015873	Relay <b>DS4EM</b> 12V DC	<b>46</b>
30015874	Resistor 2.2 K <b>1/4 W</b>	<b>46,48</b>
30015875	Integr. NE 555	<b>47</b>
30015876	Capacitor <b>electrolytic</b> 22MF 25V (vertical)	<b>47</b>
30015877	Capacitor tantalum 1 MF <b>35V</b>	<b>47</b>
300 15878	Resistor 3.9 K <b>1/4 W</b>	<b>48</b>
30015879	Resistor 330 ohms <b>1/4 W</b>	<b>48</b>
30015881	Resistor <b>10K 1/4 W</b>	<b>48</b>
30015882	Resistor <b>8.2K 1/4 W</b>	<b>48</b>
300 15884	Bridge radiator	<b>49</b>
30015885	Stabilizer radiator	<b>49</b>
30015886	Push button black rectangular type <b>500/B</b>	<b>50</b>
300 15887	Push button red Dia. 6 type <b>501/R</b>	<b>50</b>
30015888	Push button black Dia. 6 type <b>501/B</b>	<b>50</b>
30015889	Trimmer 100 K horizontal	<b>50</b>
30015890	<b>Buzzer</b> 12V	<b>46,47,48</b>

## Mini loader Parts List ALPHABETICAL T- W

Publication Number PL 3211/3212

Part number	Description	Quantity
30015891	Socket for integr. 6 pin 1	47
30015892	Socket for integr. 8 pin	48
30015893	Socket for integr. 14 pin	49
30015894	Fuse <b>F2A5</b> x 204	49
30015895	Fuse <b>F8A</b> 5 x 202	49
30015896	Fuse <b>T4A</b> 5 x 202	49
<b>30015897</b>	Fuse <b>F6.3A</b> 5 x 202	
30015898	PCB 108 Assembly (new)	51
30015899	Resistor 470K <b>1/4W</b>	46,47,50
30015900	Trimmer 500K vertical	
30015901	Stud <b>kit</b> for connector	
30015902	Screw kit for connector <b>R5 slide</b> block	
30015903	Slide X 25 poly	
30015904	<b>Slide X 15 poly</b>	
30015905	PCB <b>109</b>	
30015906	Mains sheath Dia.	
30015909	Cable black Dia.	
30015910	Cap 15 P 90	
30015911	Contact for connector 1585230	
30015912	Resistor 100 ohms 2W	51
30015913	Resistor 220 ohms 2W	49,51
30015914	Trimmer 500 ohms	51
30015915	Capacitor tantalum 2.2 MF 35V	48
30015916	Terminal SL6	
30015917	Capacitor vertical 220mf <b>16v</b>	
30015918	Plug <b>VD6</b>	
30015919	Bridge KBPL 808	
30015920	Cable, standby 3.40 M30015921 Transformer(see Publication No. 29050066)	
30015922	PCB 106A	56
30015924	PCB <b>108A</b> (Photocells)	57
30015925	<b>PCB101A</b>	52
30015926	PCB 102A	53
30015927	PCB 103A	54
30015929	PCB <b>105A</b>	55
30015930	Terminal board MKDS 8	
30015931	Resistor 1.2 <b>MQ</b>	
30015932	Resistor 6.8 20W	
30015933	Resistor 10 NF	
30015934	Radiator x bridge 808	
30015935	PCB <b>109A</b>	
30015936	Terminal board MK3 <b>/12</b>	
30015937	PCB 1 03B (Serial no. 1126 to 1161 )	

## Miniloader Service Manual

Miniloader Parts List **ALPHABETICAL T-W**

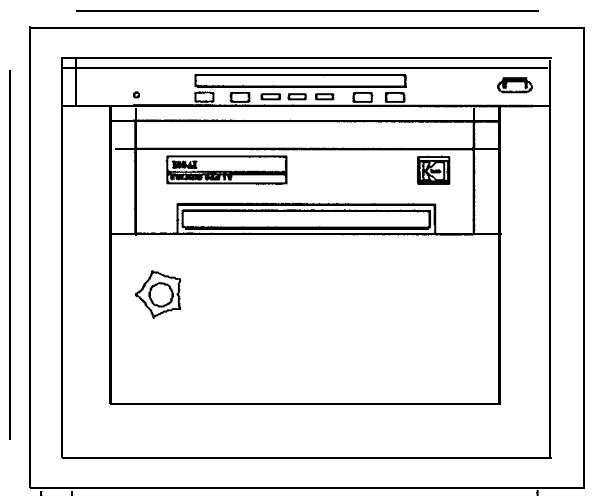
Publication Number PL **3211/3212**

Part number	Description	Quantity
VERTAC INTERFACE		
30016302	Wheel pin	
3001 6303	Wheel	
30016304	Stand bracket	
30016305	Bolt for Guide	
30016306	Spring for tunnel seal	
30016307	Chute, film	
30016306	Chute, reversing	
30016309	Tunnel cover	
30016310	Tunnel	
30016311	Stand for <b>M35</b>	
30016312	Front <b>cover,stand</b> for <b>M 35</b>	
30016313	Miniloader stand	
30016314	Feet, adjustable	
30016315	Washer, rubber	



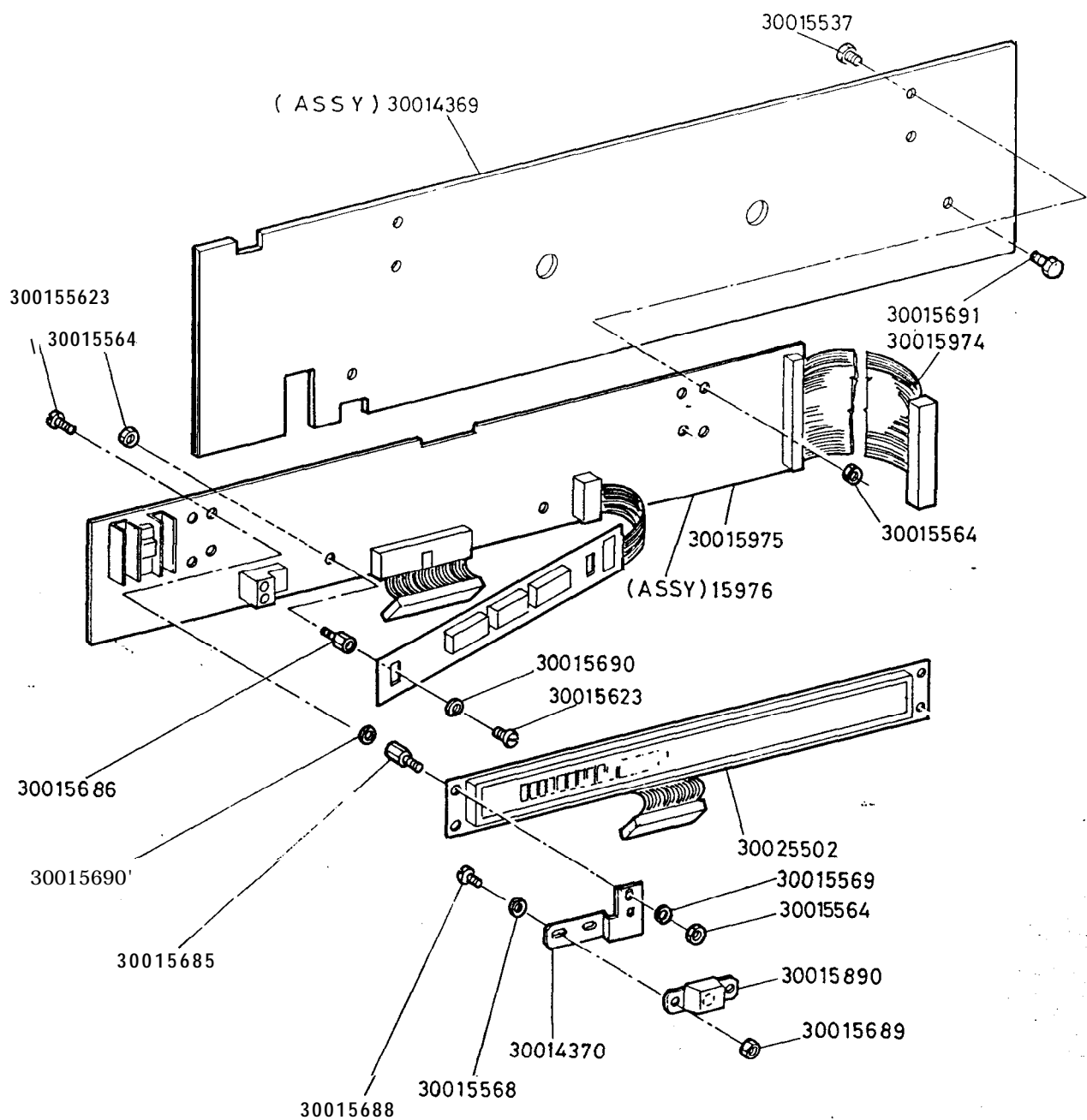
# MINILOADER MODEL 1M

## PARTS LIST SUPPLEMENT



FEBRUARY 1992

SERVICE CODES : - 3234/ 3235

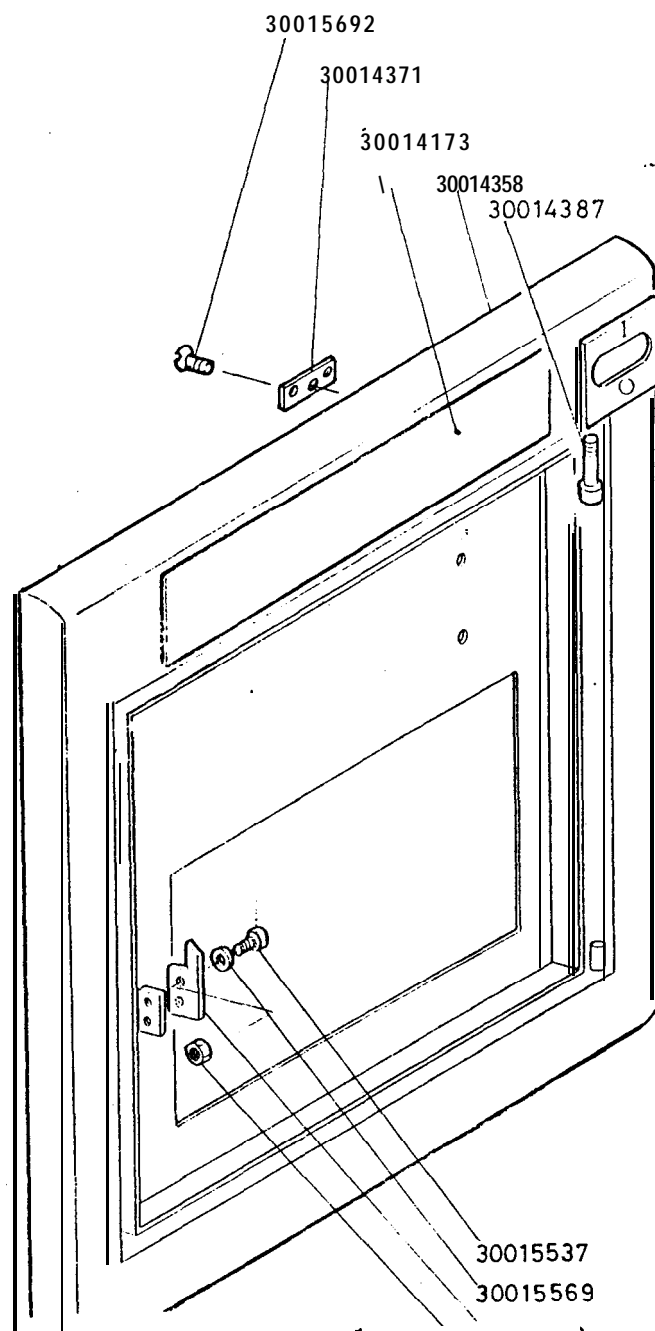


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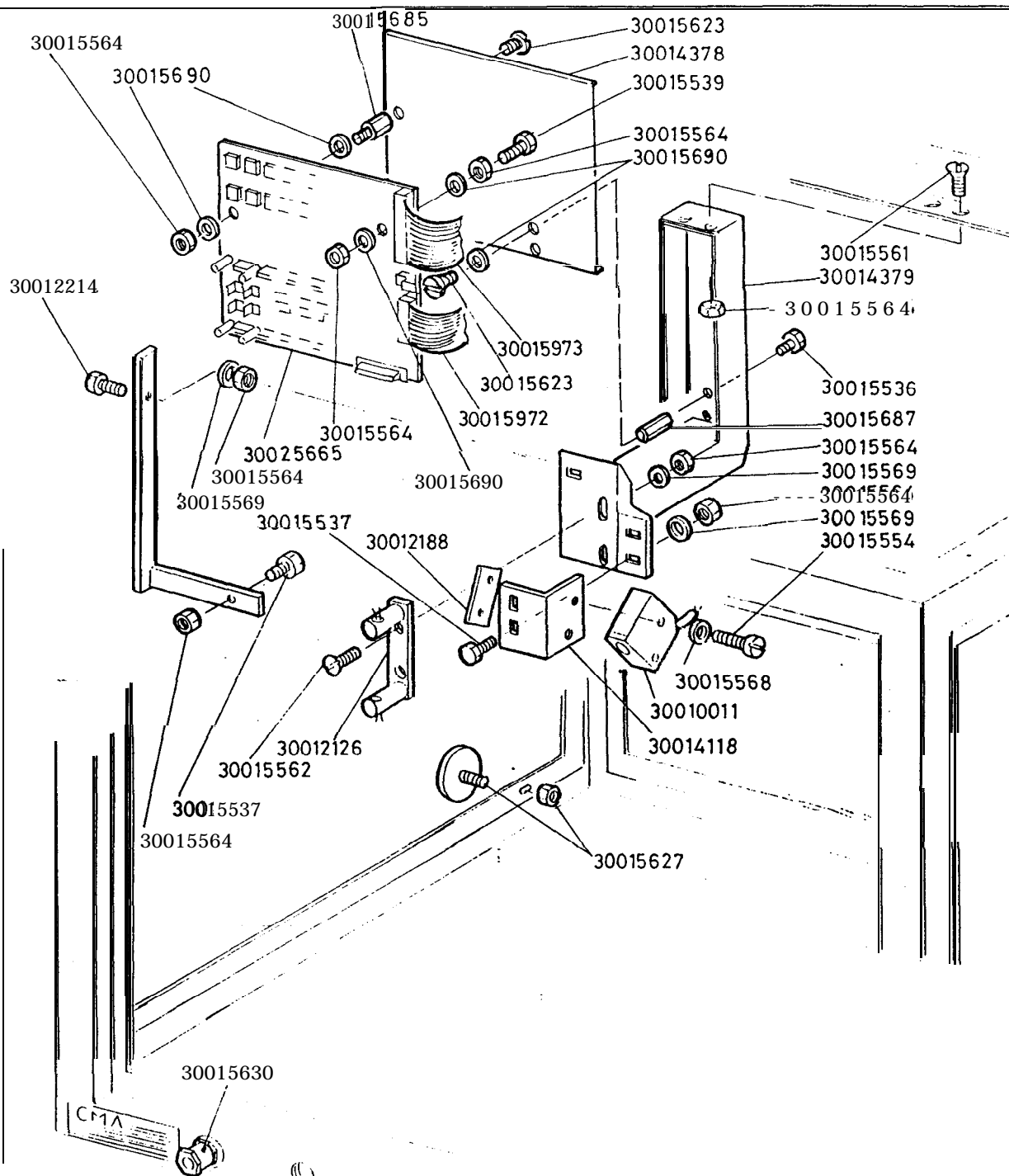
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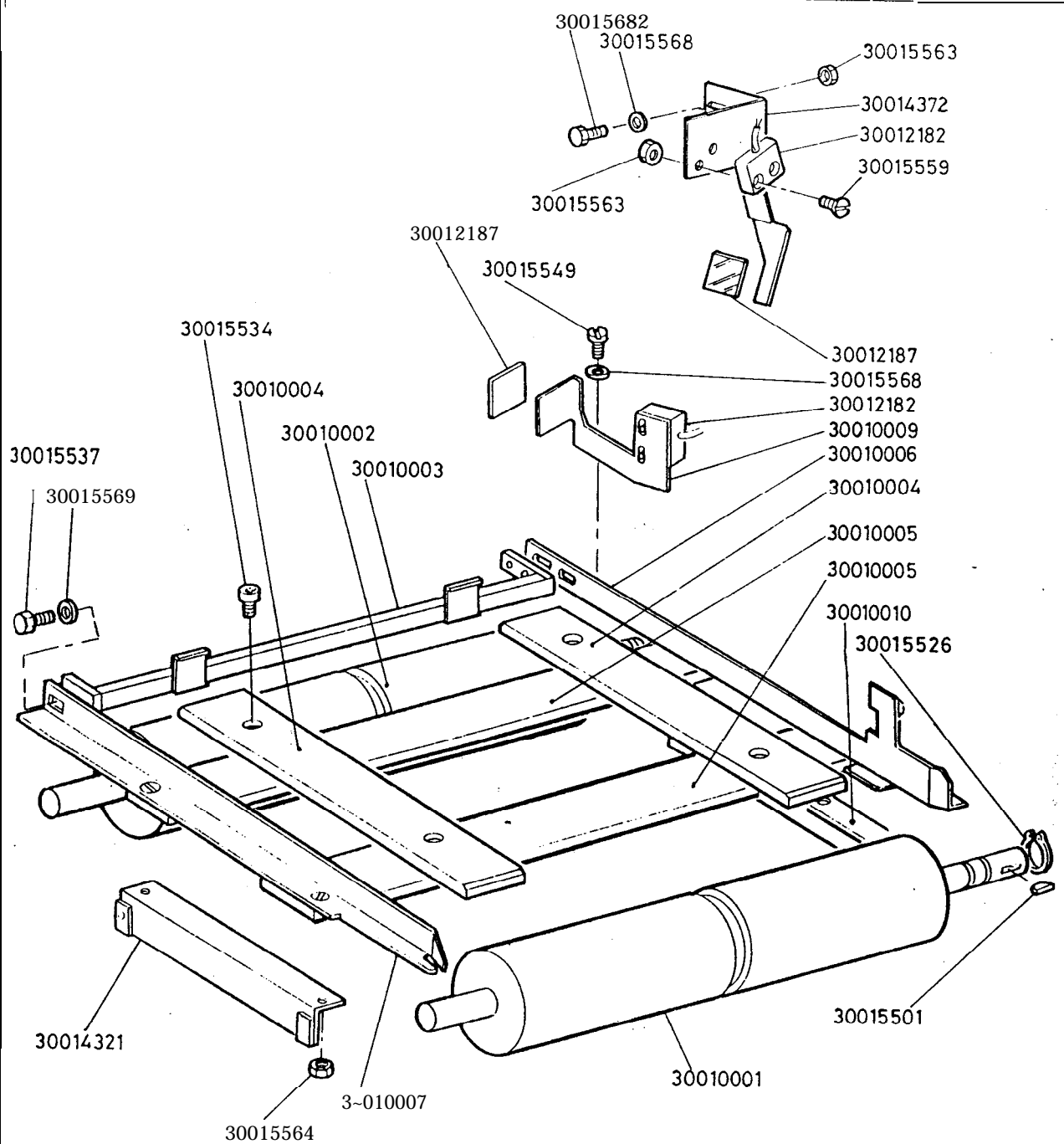


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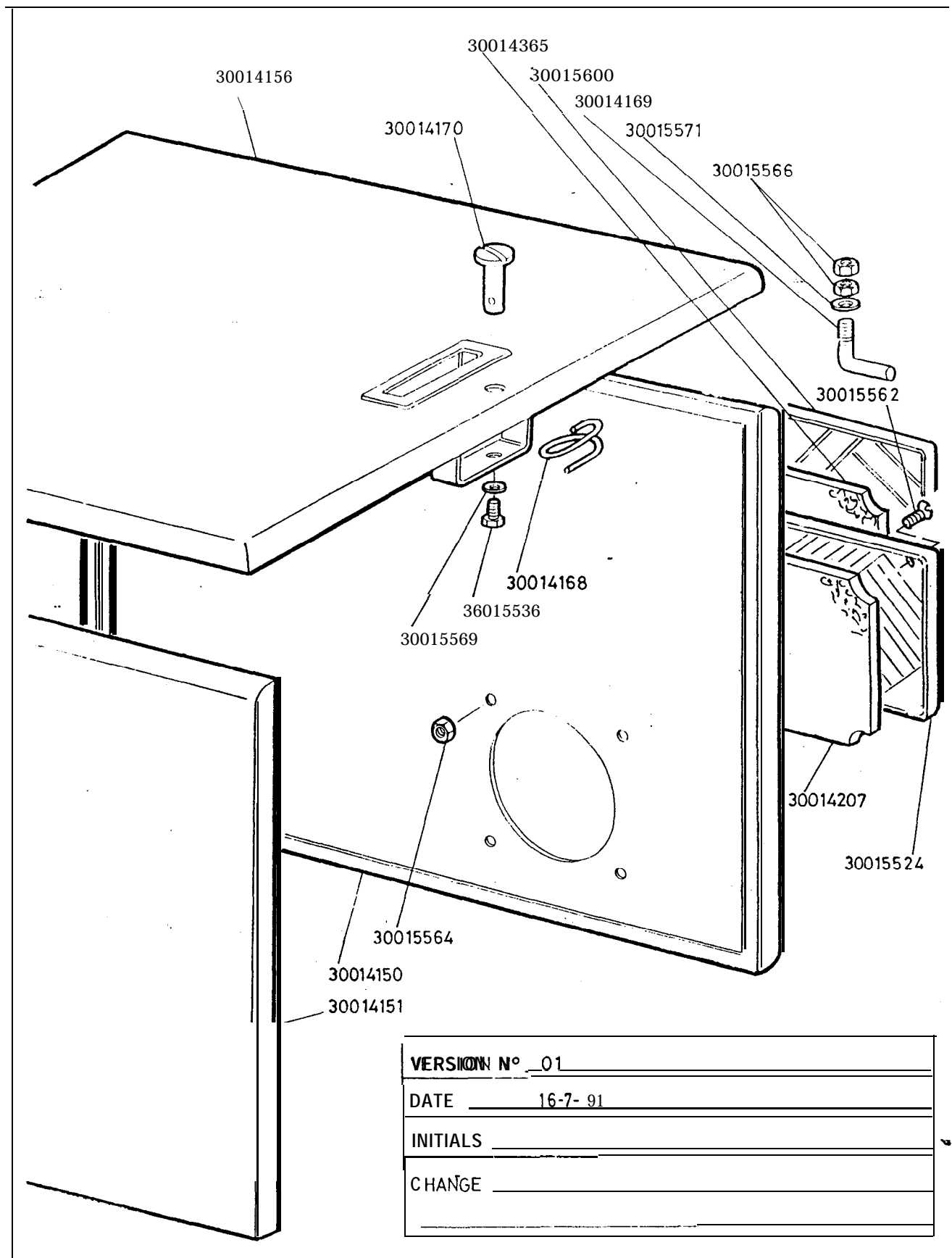
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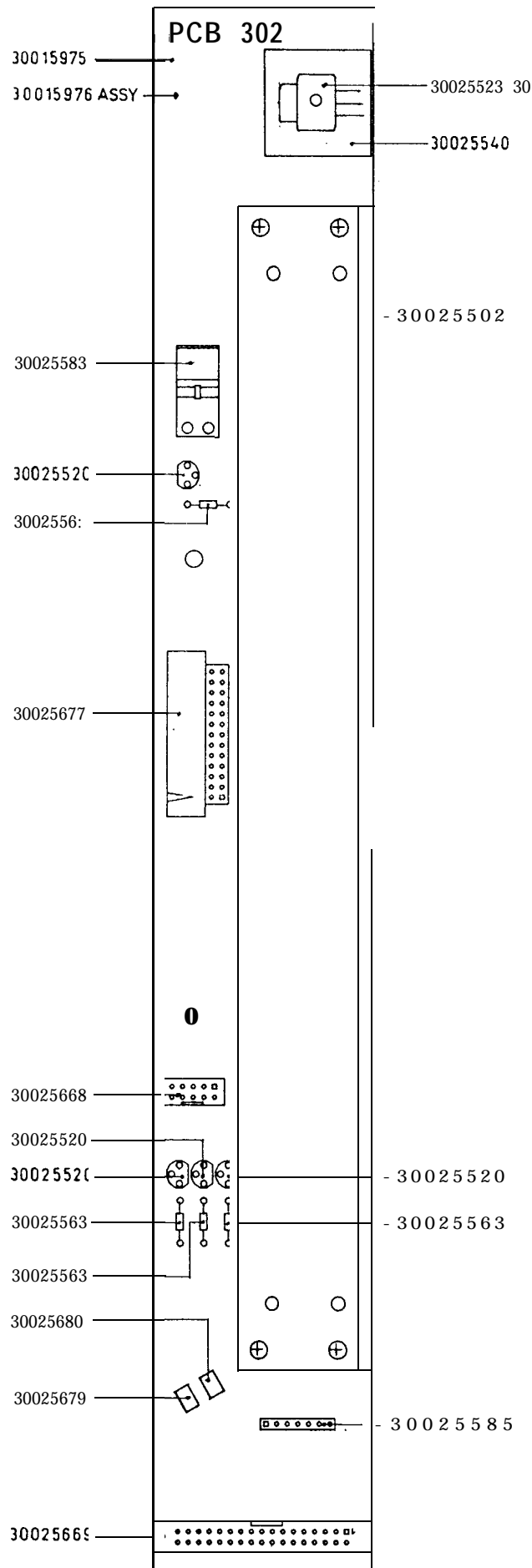
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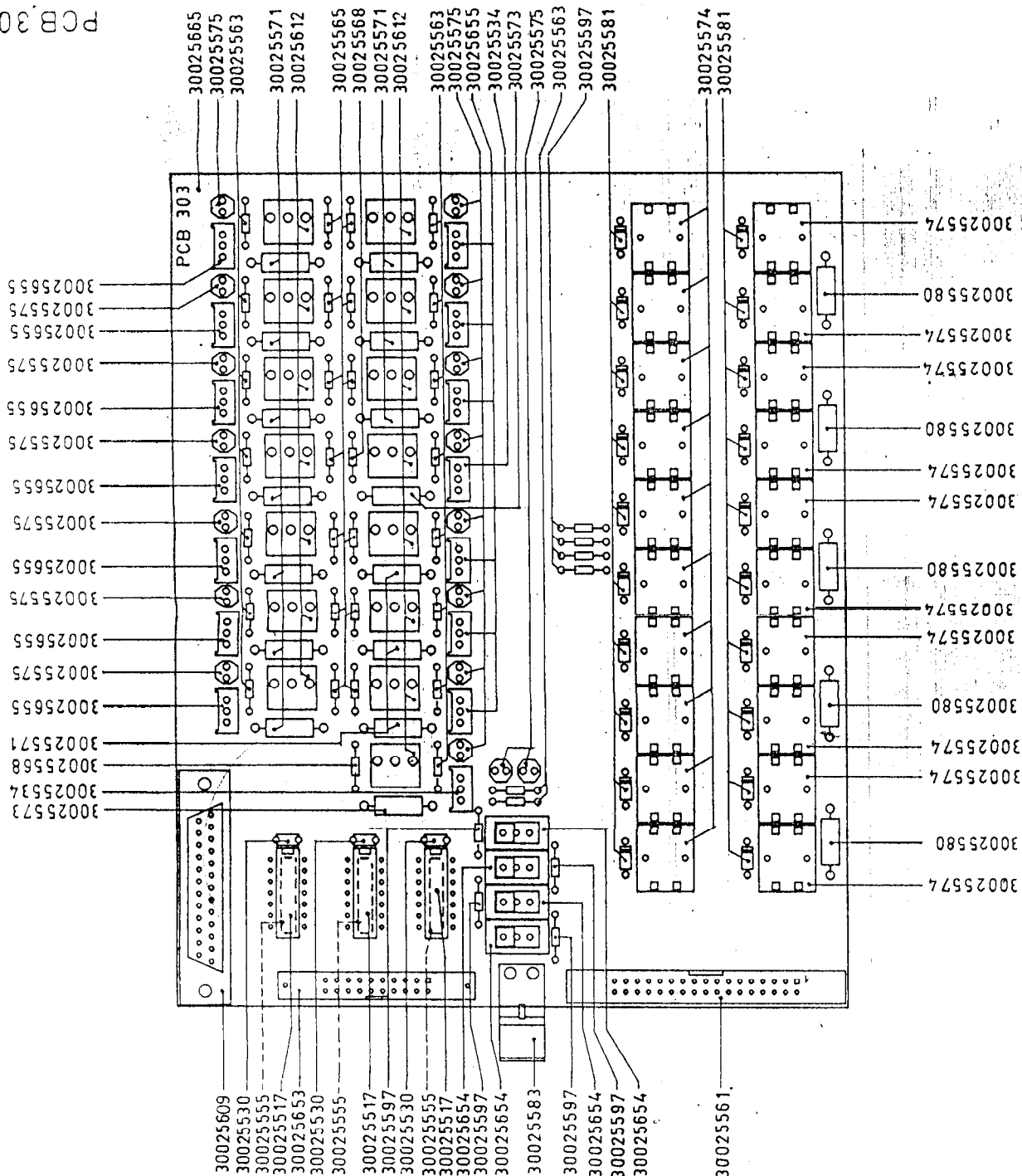


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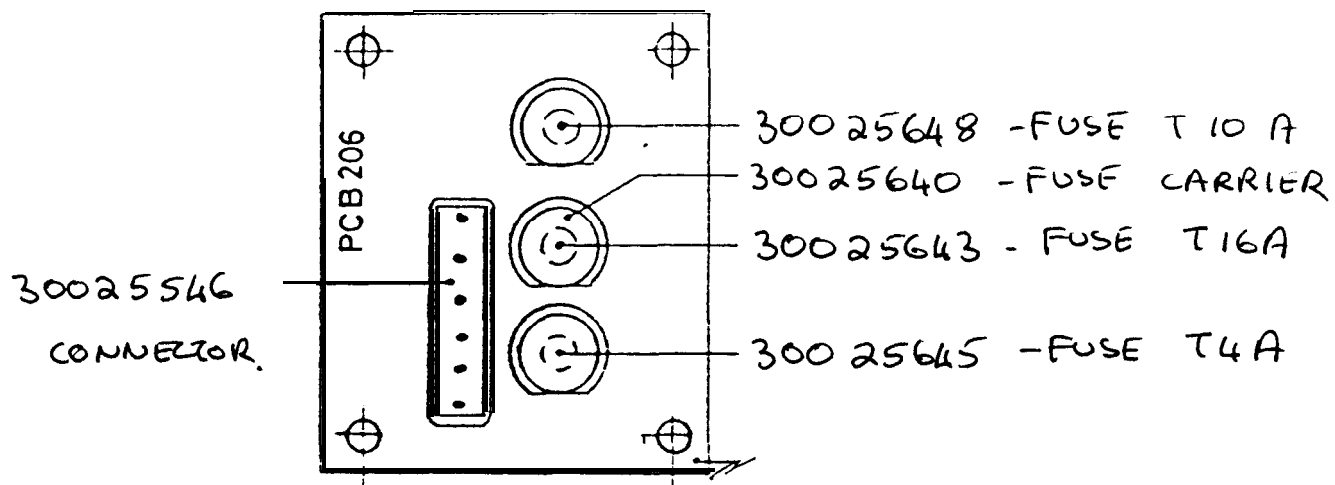


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PCB 302



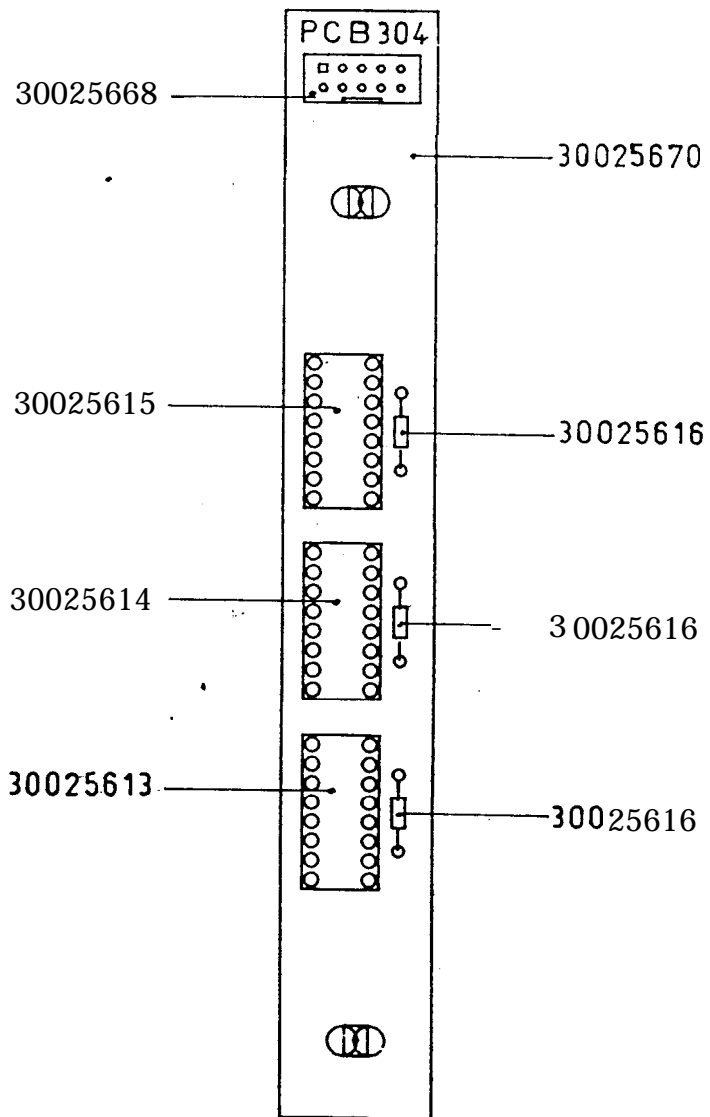




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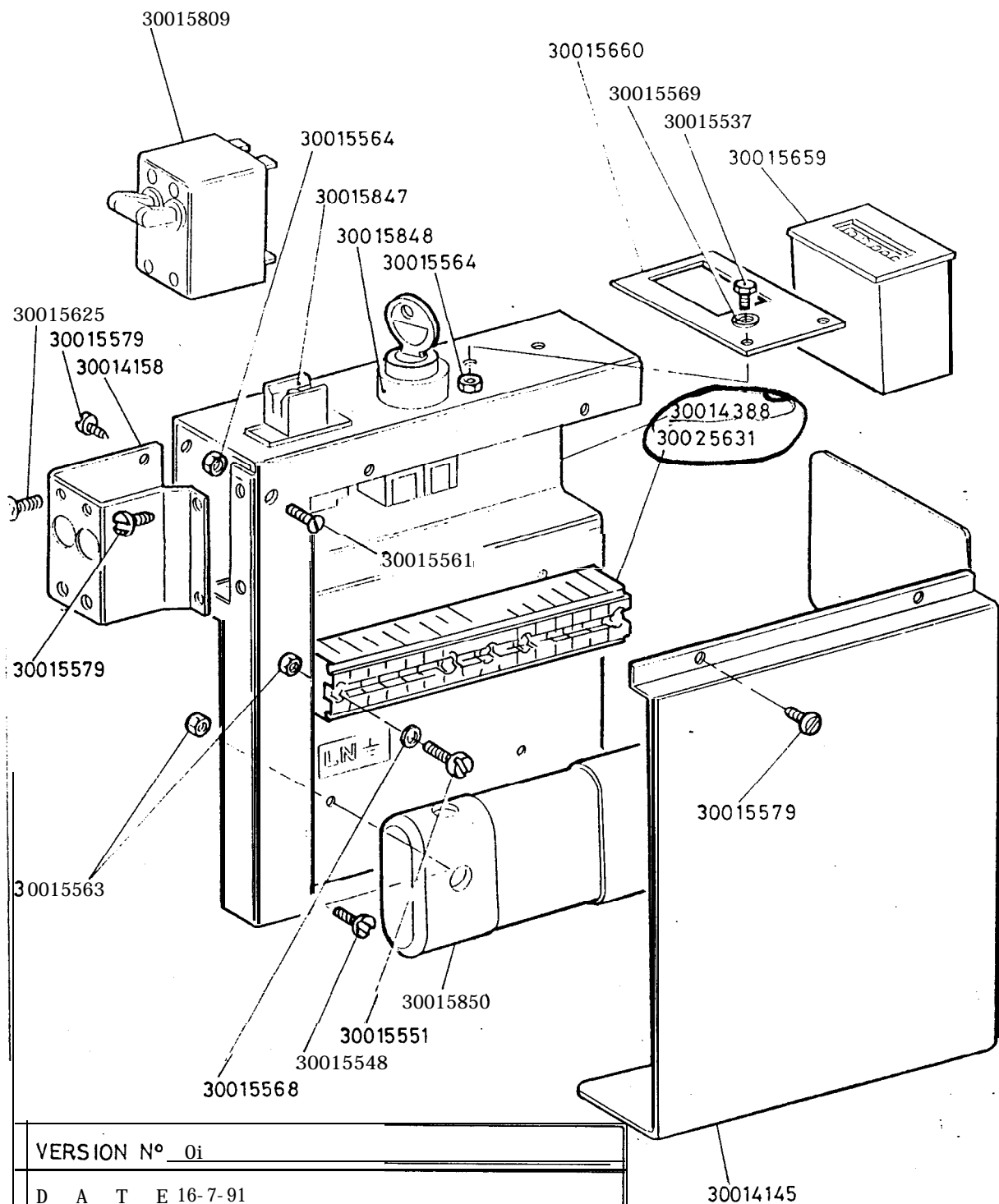


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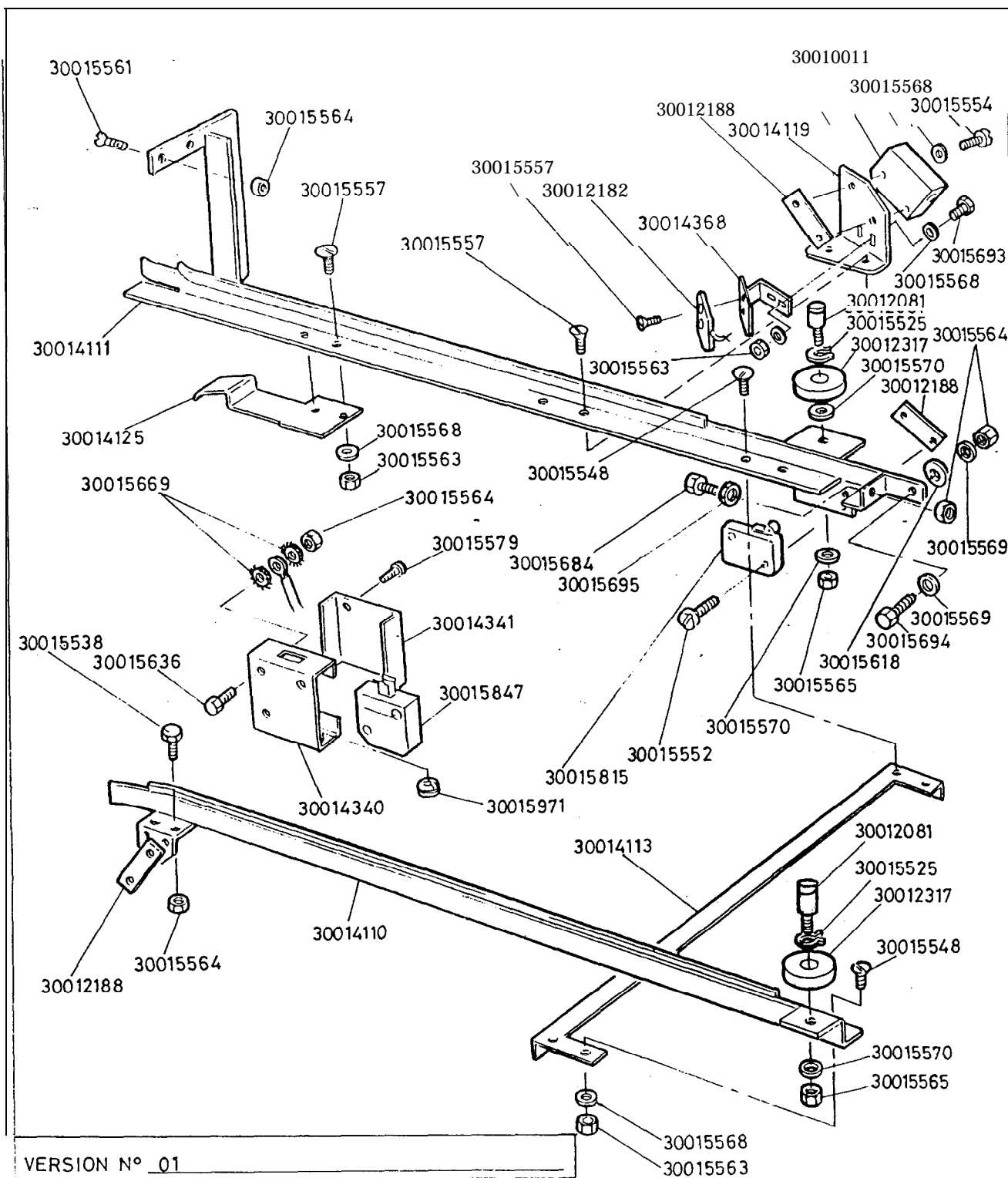
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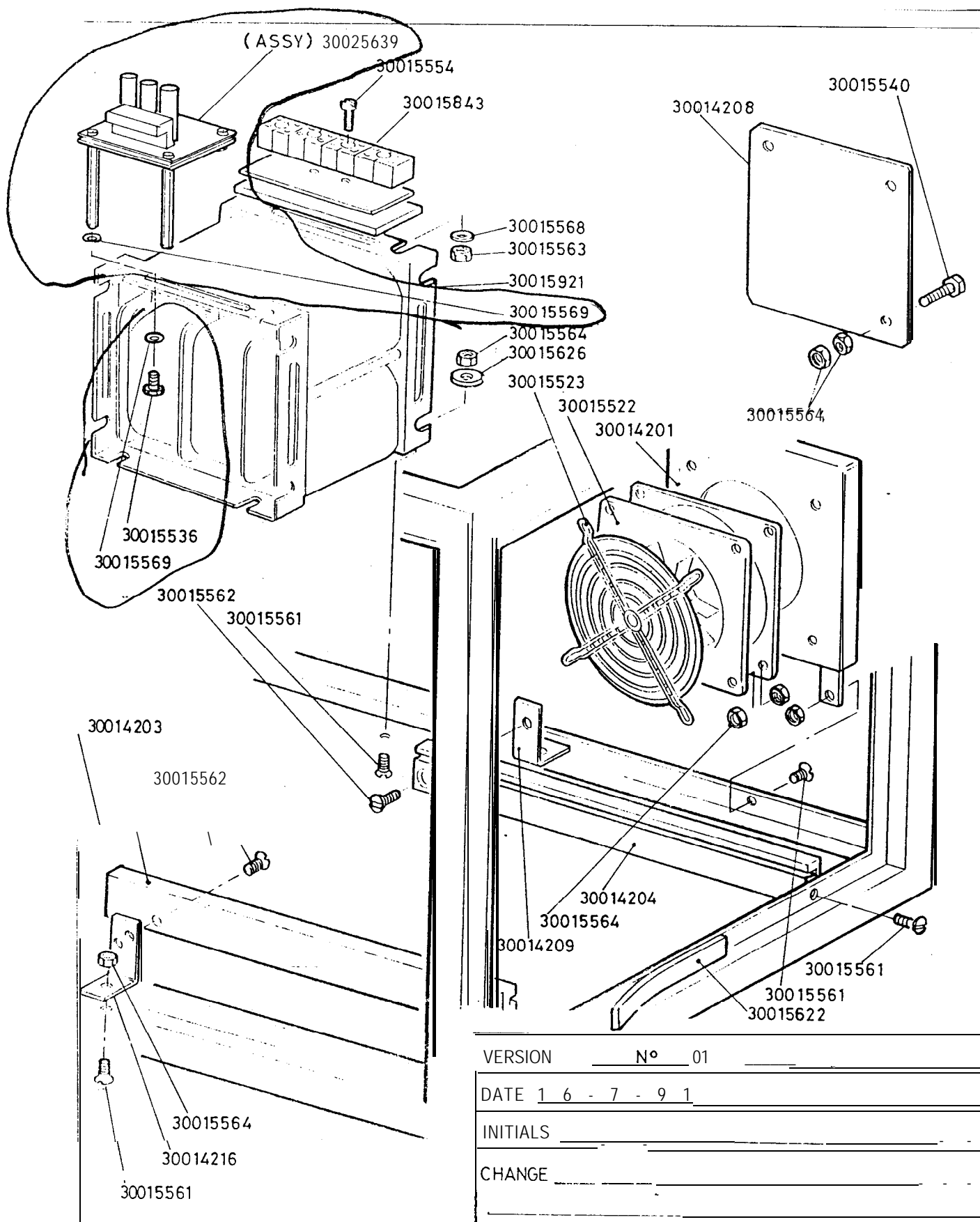


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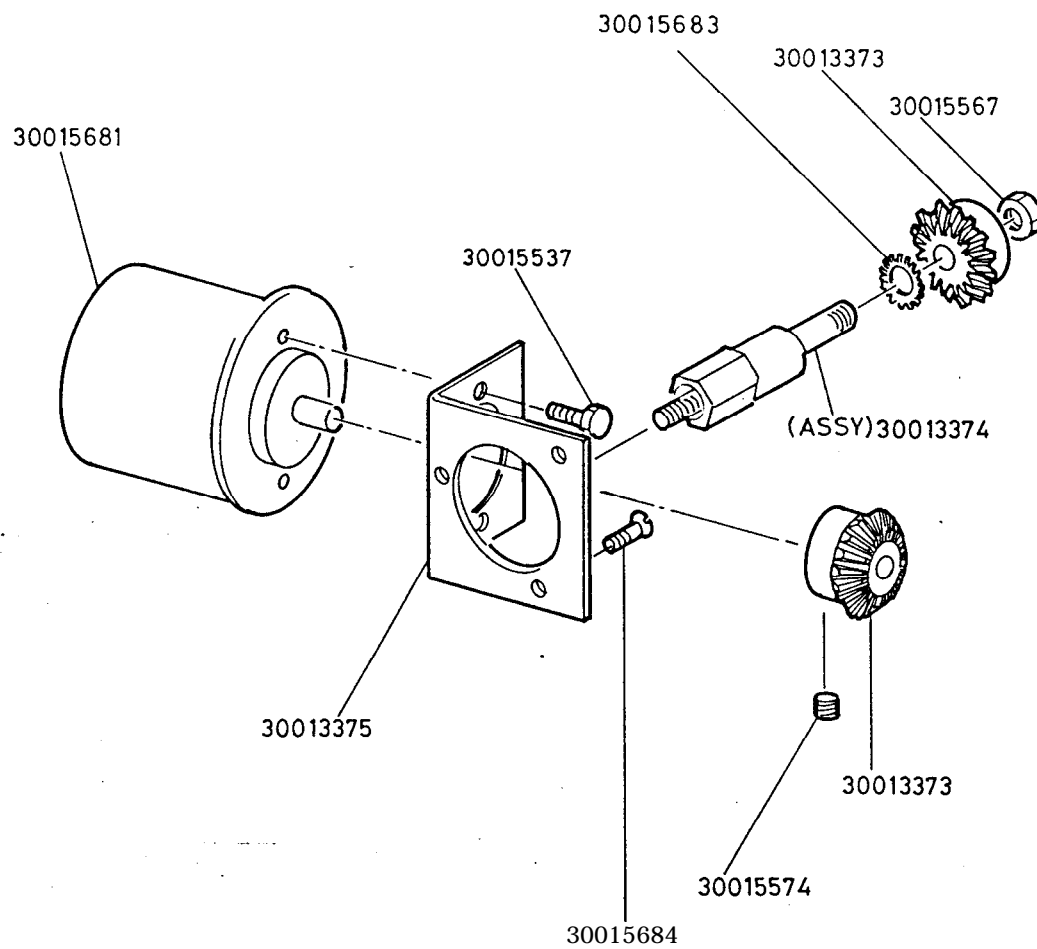
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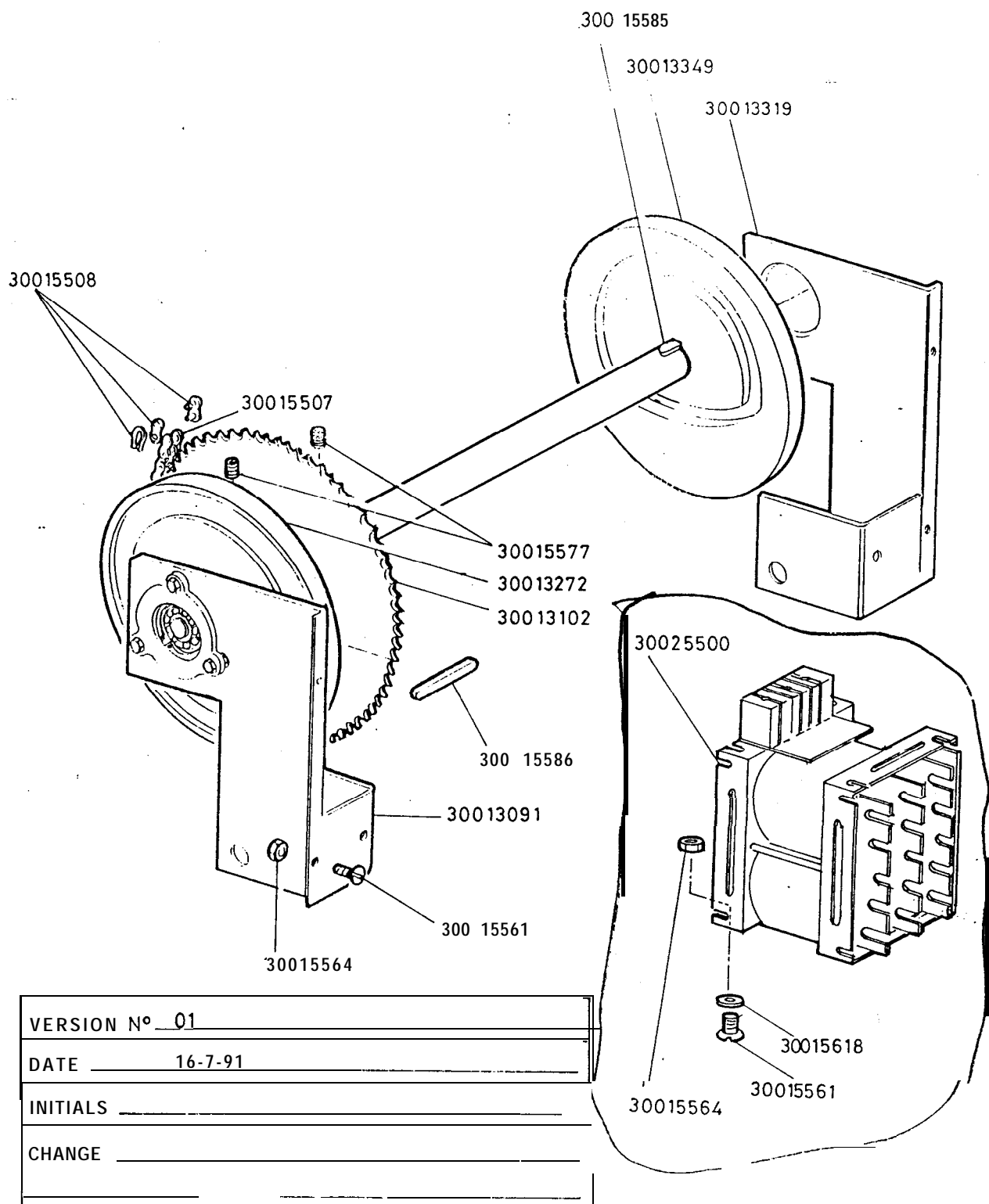
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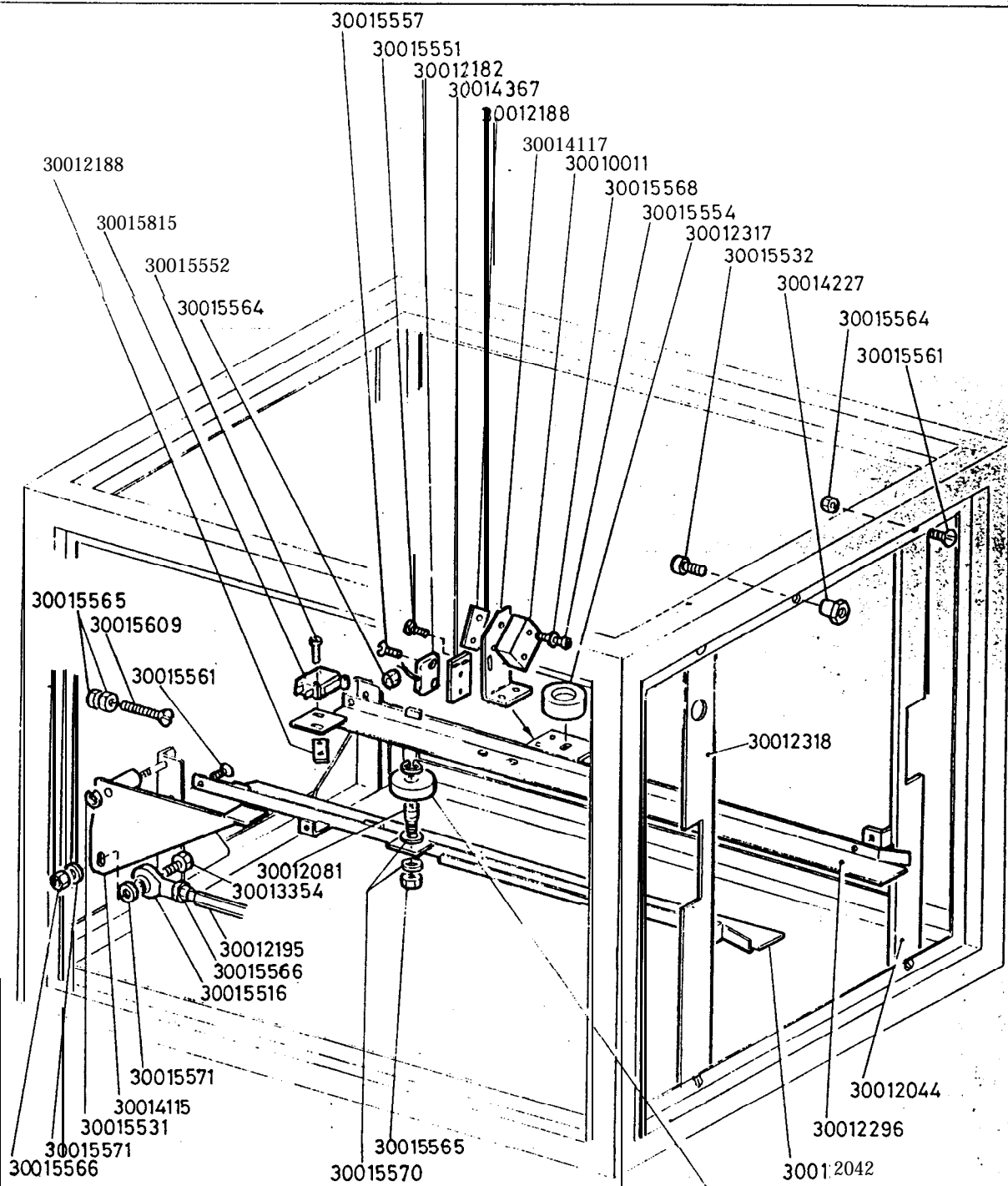
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