584E, 585E and 586E Forklifts
Service Manual

Table of Contents

Description	Section No.	Form No.
General	**Tab 1**	
Loctite Product Chart		8-98900
Safety Rules, Service Manual Introduction and Torque Specifications	1001	8-44810
Fluids and Lubricants Chart, Systemgard Testing Schedule and Maintenance Chart	1002	8-15550
General Engine Specifications	1010	8-27400
Engines	**Tab 2**	
Engine and Radiator Removal and Installation	2000	8-44810
Air Cleaner, Ether Injection	2001	8-44810
Stall Tests	2002	8-15680
Specification Details	2402	8-24163
Cylinder Head and Valve Train	2415	8-24173
Cylinder Block, Crankshaft, Pistons, Rods, Camshaft, Main Bearings, Oil Seals and Flywheel	2425	8-24183
Lubrication System	2445	8-24193
Cooling System	2455	8-24203
Fuel System	**Tab 3**	
Engine Controls, Fuel Lines and Fuel Tank	3001	8-15560
Fuel System and Filters	3410	8-24211
Fuel Injectors	3413	8-24233
Fuel Injection Pump and Drive Gear	3414	7-37131
Electrical	**Tab 4**	
Wiring Diagram	In pocket at rear of manual	
Removal and Installation of Electrical Components	4001	8-44810
Specifications and Troubleshooting	4002	8-15570
Batteries	4003	8-11360
Instrument Cluster	4004	8-15580
Starter and Starter Solenoid	4006	8-72280
Alternator	4019	8-12900
Steering	**Tab 5**	
Troubleshooting and Pressure Check	5002	8-44810
Steering Control Valve	5007	8-12930
Cylinder	5010	9-69280
Rear Axle - Two Wheel Drive Machines	5021	8-44810
Rear Axle - Four Wheel Drive Machines (D124605)	5022	8-15590
Rear Axle - Four Wheel Drive Machines (D134010)	5022	8-15720
Power Train	**Tab 6**	
Maintenance and Troubleshooting	6202	8-44810
Removal and Installation of Power Train Components	6209	8-15600
Power Shuttle	6210	8-44810
Power Shuttle Controls	6211	8-15610
Transaxle and Differential Lock	6215	8-15620
Transfer Gear Box (4-Wheel Drive Machines)	6216	8-23451
Wheels and Tires	6229	8-15630

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LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
#3	Dark Brown					24 hr	N/A	Form a Gasket (works with oil, fuel or grease) Pliable
80	Yellow					Fast	N/A	Weatherstrip Adhesive
123	Clear					N/A	N/A	Parts Cleaner Fluid
220	Blue	290	0.003	57/143 in lbs	-65 to +250	6 min/24 hrs	747	Wicking Threadlocker
221	Purple	222	0.005	75/44 in lbs	-65 to +300	2 min/24 hrs	747	Low Strength Threadlocker
222	Purple		0.005	53/30 in lbs	-65 to +300	20 min/24 hrs	764	Low Strength Threadlocker (Small Screws)
225	Brown	222	0.010	45/25 in lbs	-65 to +300	7 min/24 hrs	747	Low Strength Threadlocker
242	Blue		0.005	80/50 in lbs	-65 to +300	10 min/24 hrs	764	Medium Strength Threadlocker
262	Red	271	0.005	160/190 in lbs	-65 to +300	5 min/24 hrs	747	High Strength Threadlocker
270	Green	271	0.007	160/320 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
271	Red	262	0.007	160/320 in lbs	-65 to +300	10 min/24 hrs	764	High Strength Threadlocker
272	Red	620	0.007	180/220 in lbs	-65 to +450	30 min/24 hrs	764	High Temperature, High Strength
275	Green	277	0.010	210/300 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
277	Red		0.010	225/300 in lbs	-65 to +300	60 min/24 hrs	764	High Strength Threadlocker
290	Green		0.003	85/350 in lbs	-65 to +300	6 min/24 hrs	764	Wicking Threadlocker
*404	Clear	495	0.006	3200 psi	-65 to +180	30 sec/24 hrs	NA	Instant Adhesive
*406	Clear		0.004	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Adhesive
*409	Clear	454	0.008	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gel Instant Adhesive
*414	Clear		0.006	2500 psi	-65 to +180	30 sec/24 hr	N/A	Instant Adhesive
*415	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Metals)
*416	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Plastics)
*420	Clear		0.002	2500 psi	-65 to +180	15 sec/24 hrs	N/A	Wicking Instant Adhesive
*422	Clear	454	0.020	2800 psi	-65 to +180	60 sec/24 hrs	N/A	Gap Filling Instant Adhesive
*430	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
*445	White/Black		0.250	2000 psi	-65 to +180	5 min/24 hrs	N/A	Fast Setting 2 Part Epoxy
*454	Clear		0.010	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Gen Instant Adhesive
*495	Clear		0.004	2500 psi	-65 to +180	20 sec/24 hrs	N/A	General Purpose Instant Adhesive
*496	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
504	Brt Orange	515	0.030	750 psi	-65 to +300	90 min/24 hrs	None	Rigid Gasket Eliminator
509	Light Blue		0.020	750 psi	-65 to +320	6 hr/72 hrs	764	Flange Sealant
510	Red		0.020	1000 psi	-65 to +400	30 min/24 hrs	764	High Temperature, GAsket Eliminator
515	Purple		0.010	750 psi	-65 to +300	1 hr/24 hrs	764	Gasket Eliminator 515

Rac 8-98902 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity Printed in U.S.A.

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2000

ENGINE AND RADIATOR REMOVAL AND INSTALLATION

TABLE OF CONTENTS

Engine Removal 2000-2

Removing Power Shuttle and Torque Converter From Engine 2000-14

Installing Power Shuttle and Torque Converter To Engine 2000-16

Engine Installation 2000-17

Radiator Removal 2000-29

Illustration of Radiator Installation 2000-35

Radiator Installation 2000-36

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8-44810

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Issued April 1986

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3001

ENGINE CONTROLS, FUEL TANK, AND FUEL LINES

TABLE OF CONTENTS

Throttle Linkage 3001-2

Specifications 3001-2

Adjustment 3001-2

Illustration of Throttle Linkage 3001-3

Illustration of Fuel Tank 3001-4

Removing Air From the Fuel System 3001-5

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Bur 8-15560

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4001

REMOVAL AND INSTALLATION OF ELECTRICAL COMPONENTS

TABLE OF CONTENTS

Starter 4001-2

Alternator 4002-3

Drive Belt Replacement 4001-4

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CASE CORPORATION

8-44810

Printed in U.S.A.
Issued April 1986

Download full manual at youfixthis.com

5002

STEERING SYSTEM TROUBLESHOOTING AND PRESSURE CHECK

TABLE OF CONTENTS

Specifications 5002-2

Troubleshooting Chart 5002-2

Illustration of Steering Cylinder Installations 5002-4

Steering Relief Valve 5002-5

Pressure Setting Check 5002-5

Pressure Setting Adjustment 5002-5

Steering Cylinder 5002-6

Checking Steering Cylinder Packing 5002-6

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CASE CORPORATION

8-44810

Printed in U.S.A.
Issued April 1986

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6202

MAINTENANCE, OPERATION, AND TROUBLESHOOTING

TABLE OF CONTENTS

Specifications 6202-2
Maintenance for Power Shuttle 6202-3
Oil Level Check 6202-3
Oil Change 6202-3
Maintenance for Transaxle 6202-4
Gear Lubricant Level 6202-4
Gear Lubricant Change 6202-4
Maintenance for Rear Drive Axle 6202-5
Gear Lubricant Level 6202-5
Gear Lubricant Change 6202-5
Transfer Case 6202-6
Gear Lubricant Level 6202-6
Gear Lubricant Change 6202-6
Operation 6202-6
General Information 6202-6
Power Shuttle in Neutral 6202-8
Power Shuttle in Forward 6202-9
Reverse Cluch Actuated 6202-10
Clutch Cutout Actuated 6202-11
Troubleshooting Chart 6202-12
Troubleshooting for Power Shuttle 6202-14
Check To Do Before Testing 6202-14
Testing the Power Shuttle with a Pressure Gauge 6202-14
General Information 6202-14
Test No. 1 - Clutch Circuits 6202-15
Test No. 2 - Cooling Circuit 6202-15
Understanding the Results of the Test 6202-17
U.S. Measure Check 6202-19
Metric Measure Check Sheet 6202-20

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8-44810

Printed in U.S.A.
Issued April 1986

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7106

BRAKES, BRAKE PEDALS TO TRANSAXLE

TABLE OF CONTENTS

Brake Adjustment 7106-2

General Information 7106-2

Adjustment Procedure 7106-2

Parking Brake Adjustment 7106-2

Removing Air From A Brake System 7106-2

Illustration - Master Cylinder Installation .7106-3

Master Cylinder 7106-4

Removal 7106-4

Installation 7106-4

Disassembly 7106-4

Inspection 7106-7

Assembly 7106-7

Exploded View of Master Cylinder .. 7106-10

Brake Pedal Adjustment 7106-11

Exploded View of Brake Pedal Installation 7106-12

Equalizer Valve 7106-13

Removal 7106-13

Installation 7106-13

Disassembly and Assembly 7106-13

Parking Brake Cable Installation 7106-14

Exploded View of Parking Brake 7106-15

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8-44810

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Issued April 1986

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8000

REMOVAL AND INSTALLATION OF PUMP, FLOW CONTROL VALVE AND CYLINDERS

TABLE OF CONTENTS

Removal and Installation of Control Valve ..... See Section 8005

Pump 8000-2

Removal 8000-2

Installation 8000-2

Preparing the Pump for Service 8000-3

Flow Control Valve 8000-4

Removal 8000-4

Installation 8000-4

Lift Cylinder for Free Lift Mast ..See Section 9041

Lift Cylinder for Single Cylinder Mast 8000-5

Removal 8000-5

Installation 8000-6

Removing Air from the Lift Cylinder ... 8000-8

Lift Cylinder for Two Cylinder Mast 8000-9

Removal 8000-10

Installation 8000-10

Removing Air from the Lift Cylinder .. 8000-11

Tilt Cylinder 8000-12

Removal 8000-12

Installation 8000-13

Side Shift Cylinder 8000-14

Removal 8000-14

Installation 8000-14

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Section

9040

MASTS WITH SINGLE LIFT CYLINDER

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Circuit No.	Color
1	Red
2	Black
3	Black
4	Red
5A	Red
5B	Red
5C	Red
5D	Red
7A	White or Orange
7B	White
7C	White
7D	White
8	Black
9A	Lt. Green
9B	Lt. Green
9C	Lt.Green
10A	Orange

Circuit No.	Color
10B	Orange
10C	Orange
11	Orange
12	Lt. Green
13	Orange with Black Tracer
15	Gray
15A	Pink
15B	Pink
15C	Pink
15D	Pink
16A	Lt. Blue
16B	Lt. Blue
16C	Lt. Blue
16D	Lt. Blue
16E	Lt. Blue
16F	Lt. Blue

Circuit No.	Color
17B	Black
18A	Yellow with White Tracer
18B	Yellow with White Tracer
18C	Black
19A	Yellow with Black Tracer
19B	Yellow with Black Tracer
20	Black
21A	Yellow
21B	Yellow
22A	Purple
22B	Purple
23	Purple with White Tracer

Circuit No.	Color
23B	White with Red Tracer
23D	White with Red Tracer
24A	Purple with Red Tracer
24B	Purple with Red Tracer
25	Brown
25A	Pink with Black Tracer
25B	Pink with Black Tracer
26	Black
28A	Lt. Blue with Red Tracer
28B	Lt. Blue with Red Tracer
30	Orange
31	Black
41T	Pink
42E	Dark Blue
42F	Dark Blue

Circuit No.	Color
42G	Dark Blue
42H	Dark Blue
44	Tan
44C	Tan with White Tracer
45	Dark Brown
45L	Gray
45R	Gray with White Tracer
45RL	Dark Brown with Yellow Tracer
45RR	Dark Brown with Lt. Green Tracer
46A	Dark Green
46B	Dark Green
66	Optional
66A	Optional
66B	Black

AIR FILTER LAMP
ENG. OIL PRESS. LAMP
ALTERNATOR LAMP
ENG. TEMP. GAUGE
TRANS. OIL TEMP. GAUGE
PANEL LAMPS (3)
FUEL GAUGE
VOLTMETER
OIL FILTER LAMP
LH TURN SIG. LAMP
RH TURN SIG. LAMP
TACHOMETER
TRANSMISSION OIL TEMPERATURE SENDER
MAIN HARNESS
ENGINE HARNESS
NEUTRAL START SWITCH
AIR FILTER SWITCH
ENGINE OIL PRESSURE SWITCH
FUEL SHUTOFF SOLENOID
COLD START SOLENOID
TEMPERATURE SW.
COLD START SWITCH
ENG. TEMP. SENDER
STARTER SOLENOID
STARTER
ALTERNATOR
BATTERY
OPTIONAL BATTERY
TO FRAME
TO ENGINE
KEY SWITCH
STARTER MAGNETIC SWITCH
MAIN MAGNETIC SWITCH
LAMP MAGNETIC SWITCH
DIODE
DIODE
FUEL LEVEL SENDER
HYDRAULIC FILTER SWITCH
CIRCUIT BREAKER MOUNTING BOLT
15 AMP CIRCUIT BREAKER
LAMP (LIGHTS) SWITCH
INSTRUMENT PANEL LAMP
FLASHER
HORN SWITCH
HORN
15 AMP CIRCUIT BREAKER
PRESSURE SWITCH
BACKUP ALARM
STOP LAMP AND TAIL LAMP
RIGHT TURN LAMP AND WARNING LAMP
HEAD LAMP
LH BRAKE LAMP SWITCH
RH BRAKE LAMP SWITCH
10 AMP CIRCUIT BREAKER
FRONT FLOOD LAMP
FRONT FLOOD LAMP
HEAD LAMP
LEFT TURN LAMP AND WARNING LAMP
TAIL LAMP AND STOP LAMP
10 AMP CIRCUIT BREAKER
10 AMP CIRCUIT BREAKER
FLOOD LAMP SWITCH
FLASHER SWITCH
REAR FLOOD LAMP
REAR FLOOD LAMP
CLUTCH CUTOUT SWITCH - INSTRUMENT PANEL
CLUTCH CUTOUT SWITCH - BRAKE PEDAL
CLUTCH CUTOUT SWITCH - FLOOR
CLUTCH CUTOUT SOLENOID

Charging Circuit

Common (Starting and Charging) Circuit

Starting Circuit

(A) STANDARD LIGHTING - CONNECT 15C TO 42E
OPTIONAL LIGHTING - CONNECT 15C TO HEAD LAMP CIRCUIT

(B) STANDARD LIGHTING - CONNECT 15D TO 42H
OPTIONAL LIGHTING - CONNECT 15D TO 41T

860056

584E, 585E, AND 586E FORKLIFT

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LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
518	Red	515	0.030	500psi	-65 to +300	1hr/24 hrs	764	Gasket Eliminator 518 for Aluminum
542	Brown	569	N/A	132/92 in lbs	-65 to +300	2 hr/24 hrs	747	Hydraulic Sealant
545	Purple		N/A	25/20 in lbs	-65 to +300	4 hr/24 hrs	747	Low Strength Pneumatic/Hydraulic Sealant
549	Orange	504	0.020	2500 psi	-65 to +300	2 hr/24 hrs	747	Instant Seal Plastic Gasket
554	Red	277	0.015	240/240 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Refrigerant Sealant
567	White	592	N/A	500 psi	-65 to +400	4 hrs/24 hrs	764	Pipe Sealant for Stainless Steel
568	Orange	277	0.015	2500 psi	-65 to +300	12 hrs/24 hrs	764	Plastic Gasket
569	Brown	545	0.010	40/25 in lbs	-65 to +300	1 hr/24 hrs	764	Hydraulic Sealant
570	Brown	592	N/A	25/40 in lbs	-65 to +300	6 hrs/72 hrs	764	Steam Sealant
571	Brown	592	0.015	40/20 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Pipe Sealant
572	White	578.575	N/A	80/27 in lbs	-65 to +300	24 hrs/72 hrs	None	Gasketing
592	White		0.020	500 psi	-65 to +400	4 hrs/72 hrs	736	Pipe Sealant with Teflon
593	Black		0.250	400 psi	-95 to +400	30 min/24 hrs	N/A	RTV Silicone
601	Green	609	0.005	3000 psi	-65 to +300	10 min/24 hrs	764	Current PIN #609
609	Green		0.005	3000 psi	-65 to +300	10 min/24 hrs	764	General Purpose Retaining Compound
620	Green	640	0.015	3000 psi	-65 to +450	30 min/24 hrs	747	High Temperature Retaining Compound
635	Green	680	0.010	4000 psi	-65 to +300	1 hr/24 hrs	747	High Strength Retaining Compound
638	Green	680	0.015	4100 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
640	Green	620	0.007	3000 psi	-65 to +400	1 hr/24 hrs	747	High Temperature Retaining Compound
660	Silver		0.020	3000 psi	-65 to +300	20 min/24 hrs	764	Quick Metal
675	Green	609	0.005	3000 psi	-65 to +300	20 min/24 hrs	747	General Purpose Retaining Compound
680	Green	635	0.015	4000 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
706	Clear	755	N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
707	Amber		N/A	N/A	N/A	N/A	N/A	Activaltor for Structural Adhesives
736	Amber		N/A	N/A	N/A	N/A	N/A	Primer NF
738	Amber		N/A	N/A	N/A	N/A	N/A	Depend Activator
747	Yellow	N/A	N/A	N/A	N/A	N/A	N/A	Primer T
751	Clear		N/A	N/A	N/A	N/A	N/A	Activator for Structural Adhesives
755	Clear		N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
764	Green		N/A	N/A	N/A	N/A	N/A	Primer N
767	Silver		N/A	N/A	-65 to +1600	N/A	N/A	Anti-Seize Lubricant

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SPECIFICATIONS

ENGINES MANUFACTURED IN U.S.A.
- Prior to Engine Serial Number 45511034 ..... Injector Nozzle 9 mm
- Engine Serial Number 45511034 and After ..... Injector Nozzle 7 mm

ENGINES MANUFACTURED IN DARLINGTON ENGLAND
- Prior to Engine Serial Number 21092870 ..... Injector Nozzle 9 mm
- Engine Serial Number 21092870 and After ..... Injectior Nozzle 7 mm

ENGINES MANUFACTURED IN NEUSS GERMANY
- Prior to Engine Number 52107489 ..... Injector Nozzle 9 mm
- Engine Serial Number 52107489 and After ..... Injector Nozzle 7 mm

CYLINDER HEAD
- Maximum Warpage ..... 0.010 mm in any 50 mm diameter area or more than 0.075 mm overall end to end or side to side.
- Maximum amount of material that can be removed during resurfacing ..... 1.0 mm
- Minimum total height of cylinder head ..... 93.75 to 94.25 mm

CYLINDER HEAD MACHINING IDENTIFICATION MARKS
- Total thickness of cylinder head material removed ..... See Page 12
- X on head indicates block resurfacing ..... See Page 27
- V on head indicates valves have been ground ..... See Page 27
- G on head indicates thermostat bore inspected ..... See Page 40
- M on head indicates thermostat bore machined ..... See Page 40

14 MM REPLACEMENT VALVE GUIDE
- Valve guide OD ..... 14.026 to 14.038 mm
- Bore cylinder head to ..... 13.987 to 14.013 mm
- Press fit ..... 0.013 to 0.051 mm
- Installed height above top of valve guide boss on cylinder head ..... 11.25 to 11.75 mm

11 MM REPLACEMENT VALVE GUIDE
- Valve guide OD ..... 11.150 to 11.163 mm
- Bore cylinder head to ..... 11.112 to 11.138 mm
- Press fit ..... 0.012 to 0.051 mm
- Installed height above top of valve guide boss on cylinder head ..... 11.25 to 11.75 mm

EXHAUST VALVE INSERT
- Diameter of insert ..... 43.713 to 43.739 mm
- Diameter of bore ..... 43.647 to 43.663 mm
- Depth of bore ..... 10.10 to 10.30 mm
- Press fit ..... 0.05 to 0.092 mm

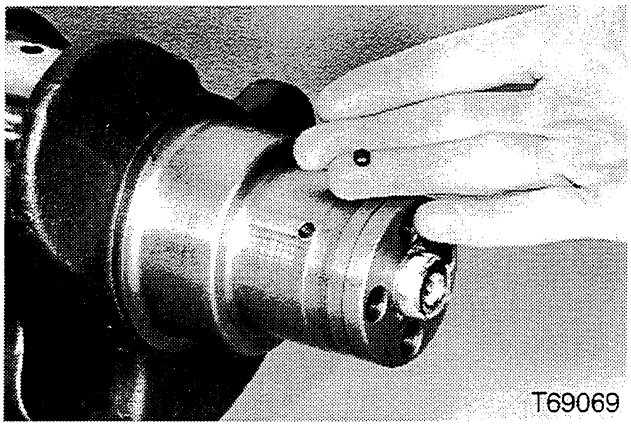
INTAKE VALVE INSERT
- Diameter of insert ..... 47.063 to 47.089 mm
- Diameter of bore ..... 46.987 to 47.013 mm
- Depth of bore ..... 10.30 to 10.50 mm
- Press fit ..... 0.05 to 0.102 mm

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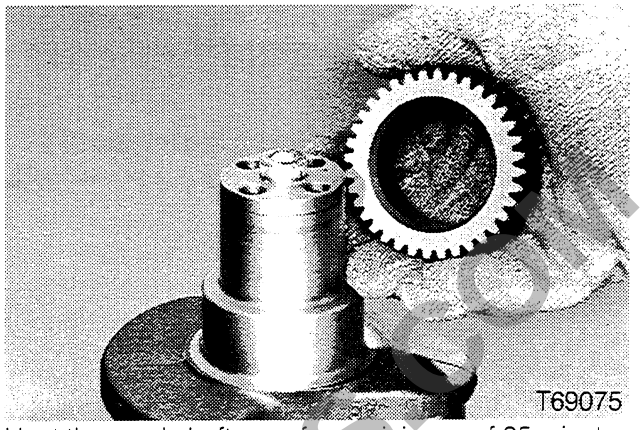
CRANKSHAFT GEAR INSTALLATION

STEP 190



Install the crankshaft gear pin or woodruff key.

STEP 191

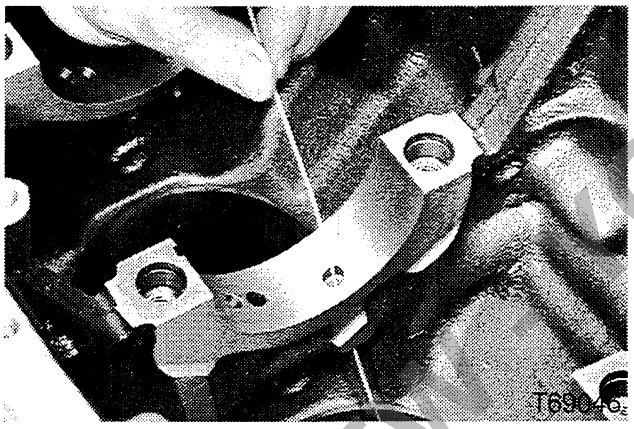


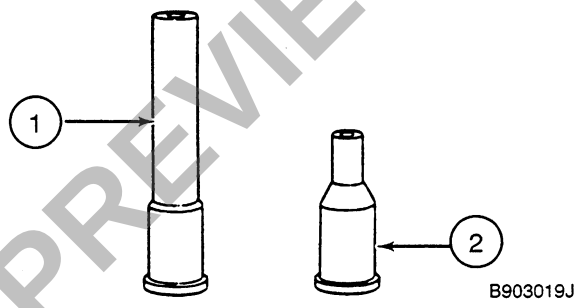
Heat the crankshaft gear for a minimum of 25 minutes at 250°F (121°C). Use a bearing heater oven.

Install the heated gear on the crankshaft.

CRANKSHAFT INSTALLATION

STEP 192

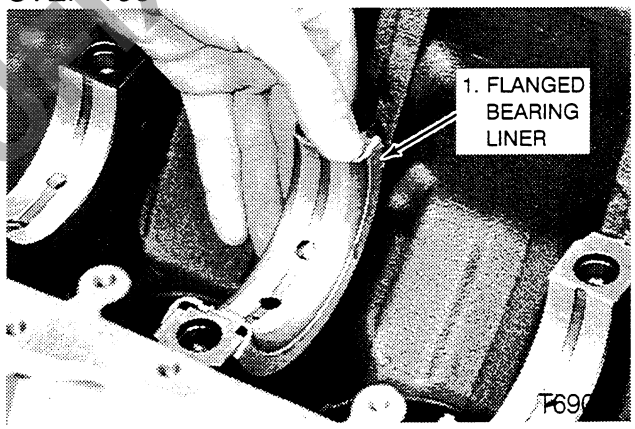




1. Late Production Oil Spray Nozzle
2. Early Production Oil Spray Nozzle

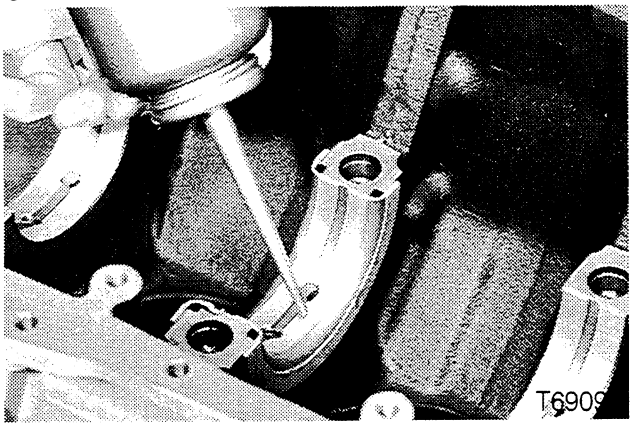
Clean the oil spray nozzle with a small wire. If the nozzle is damaged it must be replaced.

STEP 193



Install the bearing liners. The flanged bearing liner must be installed on the second journal from the rear of the block. The remainder of the bearing liners have no flange.

STEP 194



Add lubrication to the bearing liners. Use clean engine oil.

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TABLE OF CONTENTS

SPECIAL TOOLS 2

SPECIAL TORQUES 2

TROUBLESHOOTING GUIDE 3

FUEL INJECTION PUMP
- Removal 4,5
- Installation 6,7

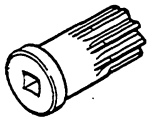
INJECTION PUMP GEAR
- Removal 8,9
- Installation 10,11

FUEL INJECTION PUMP TIMING 11-14

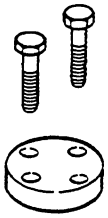
FUEL SHUT-OFF SOLENOID
- Removal and Disassembly 14
- Assembly and Installation 14

PRIMER PUMP
- Removal 15
- Installation 15

SPECIAL TOOLS



CAS-1690 ENGINE TURN OVER TOOL
FIRST USED ON PAGE 5



CAS-1691 A GEAR PULLER
FIRST USED ON PAGE 5

SPECIAL TORQUES

Injection Pump Mounting Bolts ..... 21 to 27 Nm

Injection Pump Nut ..... 59 to 71 Nm

Fuel Line Inlet Bolt ..... 22 to 28 Nm

Fuel Shutoff Solenoid ..... 14 Nm

Leak Off Fitting ..... 13 to 17 Nm

Injection Pump Lock Bolt (Lock Position) ..... 7 Nm

Injection Pump Lock Bolt (Unlock Position) ..... 20 Nm

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TABLE OF CONTENTS

SPECIFICATIONS 2

SPECIAL TOOLS 2

DISASSEMBLY 3

INSPECTION 8

ASSEMBLY 11

SPECIFICATIONS

Rotor and stator clearance ..... 0.005 inch (0.13 mm)

Special Torques

Allen head plug ..... 100 pound-inches (11 Nm)

Ferry head screws ..... 225 to 275 pound-inches (25 to 31 Nm)

SPECIAL TOOLS

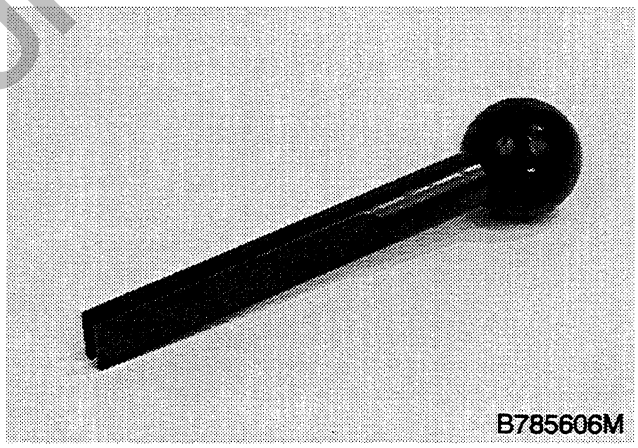
Order special tools from one of the following addresses:

In the U.S.A. and Canada

Service Tools
P.O. Box 314
Owatonna, Minnesota 55060

In Europe

VL Churchill Ltd.
P.O. Box 3, Daventry
Northants, NN11 4NF
England

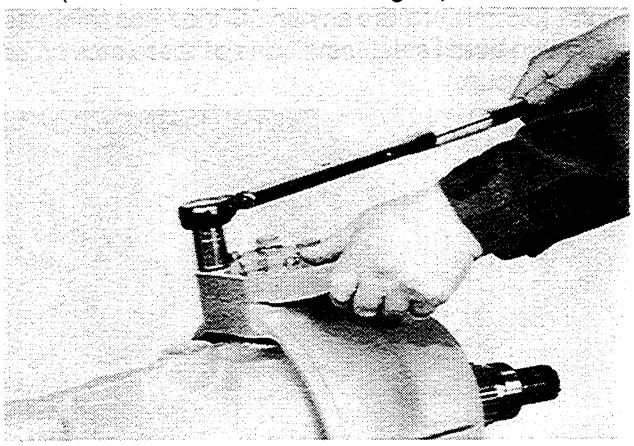


CAS-1239 Centering Spring Installation Tool
This tool is first used on page 5007-13.

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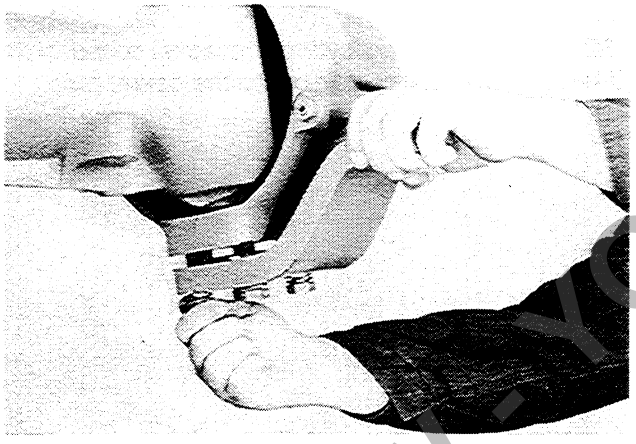
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34. Tighten the cap screws to 100 to 110 pound-feet (136 to 149 N m, 14 to 15 kg/m).



418237

35. Loosen and remove the cap screws that fasten the tie rod bracket to the swivel housing.



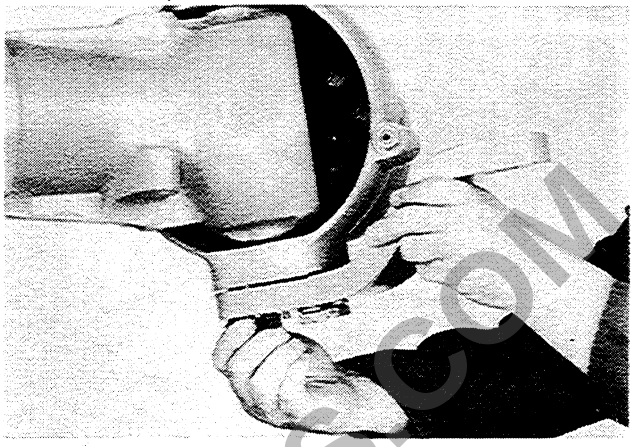
418239

36. Install the other set of shims, if required, on the bearing cup. Use grease as necessary to hold the shims in place.



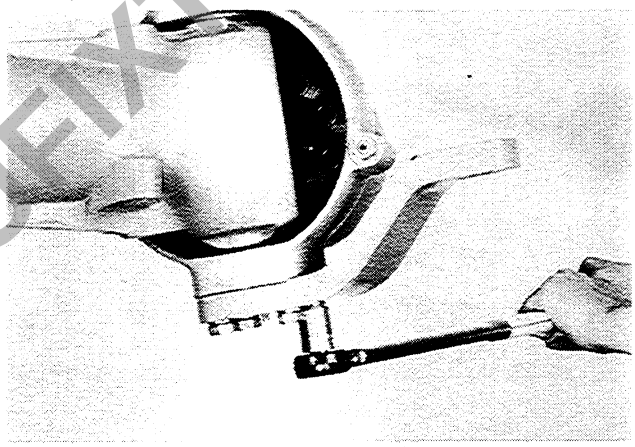
210633

37. Hold the tie rod bracket against the shims and install the cap screws and lock washers.



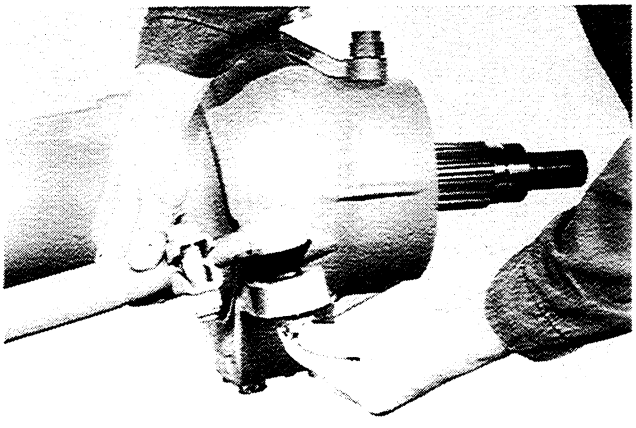
418243

38. Tighten the cap screws to 100 to 110 pound-feet (136 to 149 N m, 14 to 15 kg/m).



418201

39. Install a new boot on the ball joint. Install the ball joint in the tie rod bracket. Install the flat washer and slotted nut.



418203

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Section

5022

REAR AXLE - FOUR WHEEL DRIVE MACHINES
CASE PART NUMBER D134010

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CASE CORPORATION

Bur 8-15720

Printed in U.S.A.
Issued June 1990

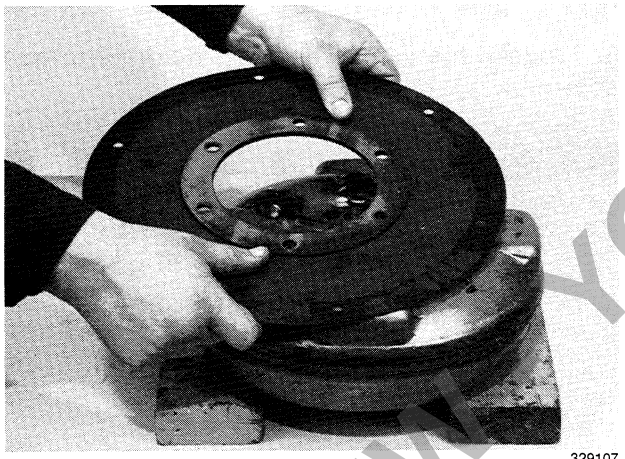
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Replacing the Flex Plate

1. Loosen and remove the cap screws that hold the flex plate.


329105

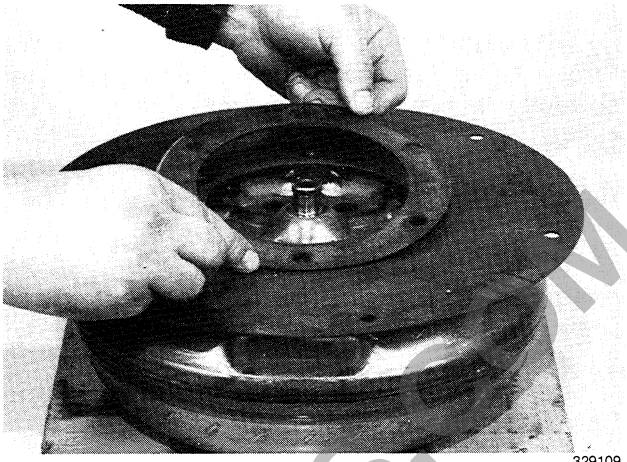
2. Remove the flex plate and reinforcement ring.


329107

3. Install the flex plate.


329108

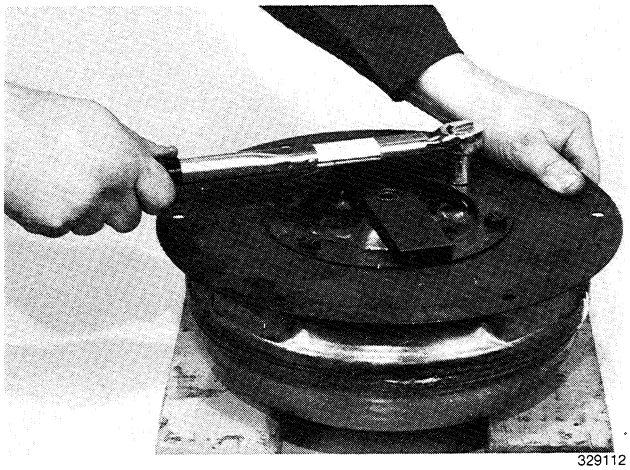
4. Install the reinforcement ring.


329109

5. Install the tool CAS-1153A to align the parts with the torque converter.


329111

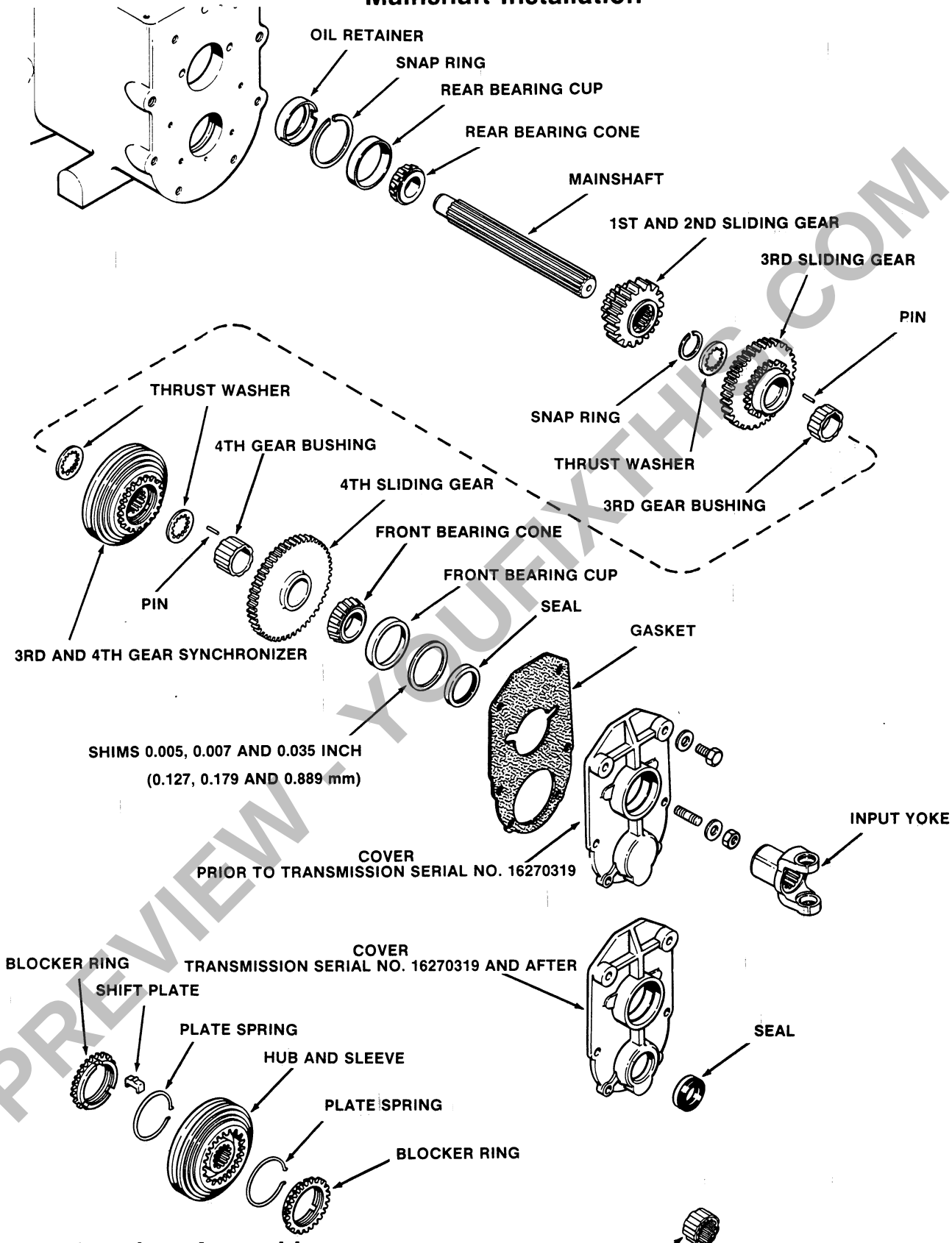
6. Install and tighten four cap screws to 456 to 504 pound-inches (51 to 57 Nm).


329112

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Mainshaft Installation



Synchronizer Assembly

NOTE: *On some models the 3rd gear bushing and the 4th gear bushing can have internal splines instead of the bushing and pin.*

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Inspection

1. Clean all metal parts in cleaning solvent. Use a clean cloth to wipe dirt or oil from the rubber parts.

2. Inspect the bore of the body for pitting, scoring, and rust. You can use a cylinder hone to remove the light pitting and scoring from the bore. If damage is severe, use a new master cylinder.

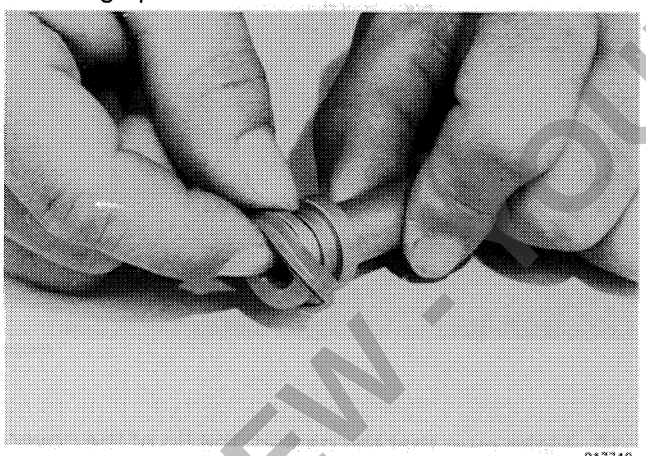
3. Inspect the primary cup, secondary cup, and distortion. Discard any spring which has damage.

4. Inspect the springs for cracks, corrosion, and distortion. Discard any spring which has damage.

Assembly

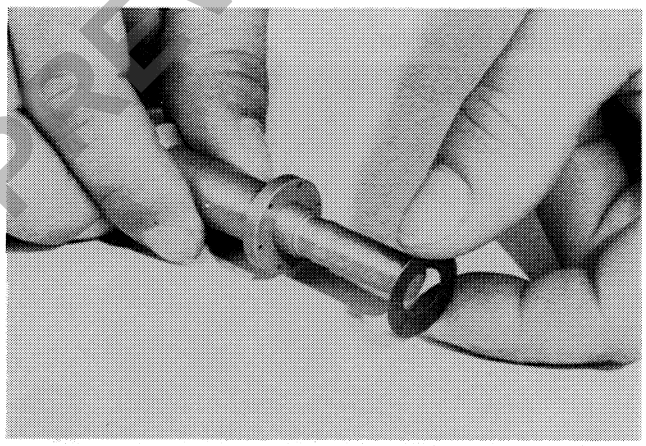
1. Use clean Case TCH Fluid to lubricate the piston, the bore of the body, and the rubber parts except the gasket.

2. Install the secondary cup on the piston so that the long lip is toward the inside.



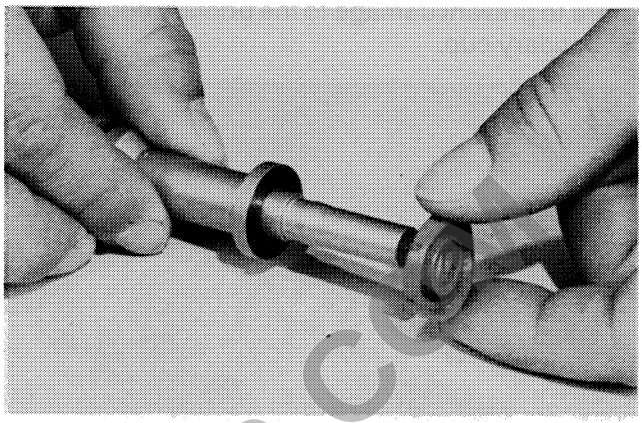
017710

3. Install the flat washer.



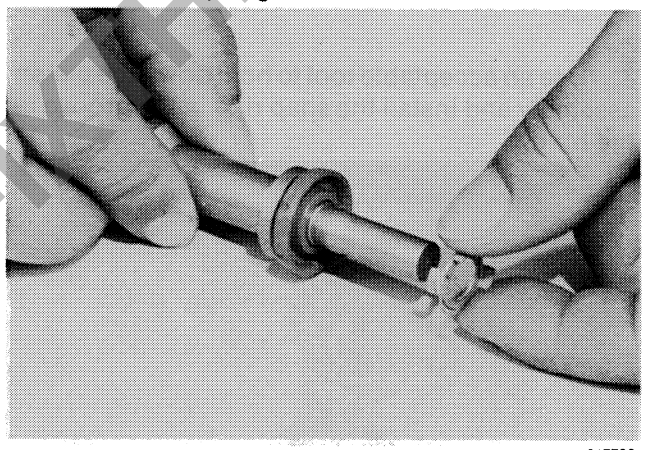
017708

4. Install the primary cup.



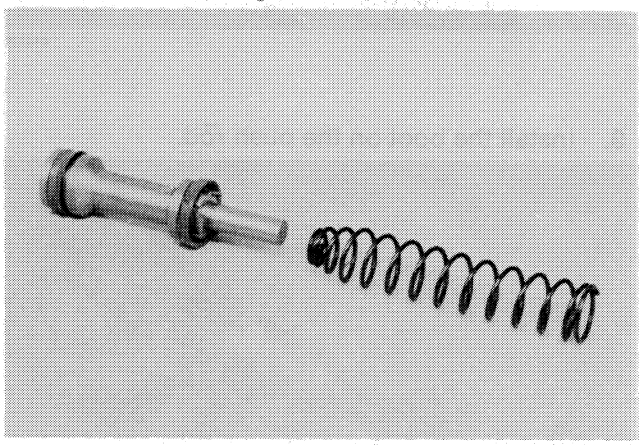
017707

5. Install the spring seat.



017706

6. Install the spring on the piston as shown.

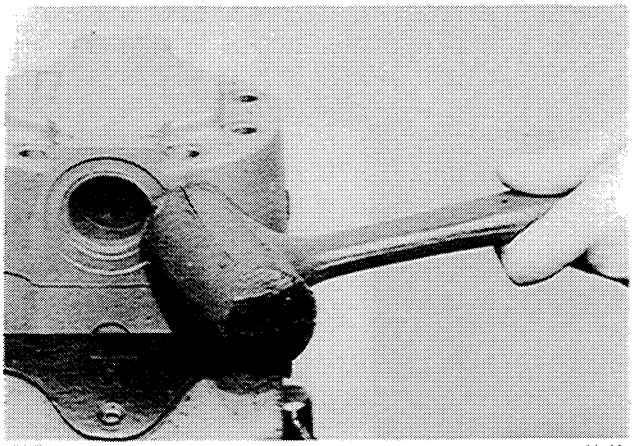


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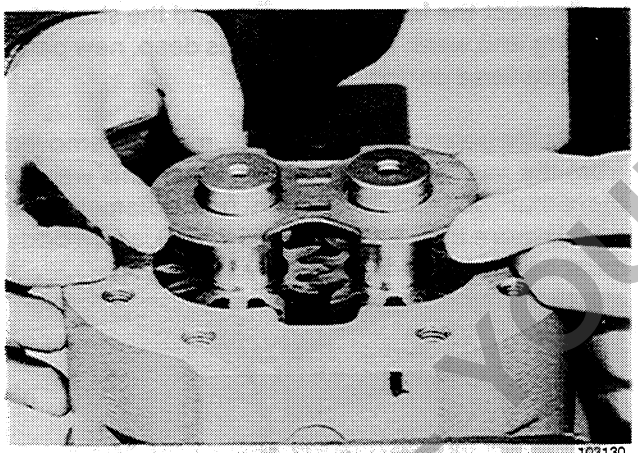
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4. Use a soft hammer to remove the port end cover from the dowel pins.



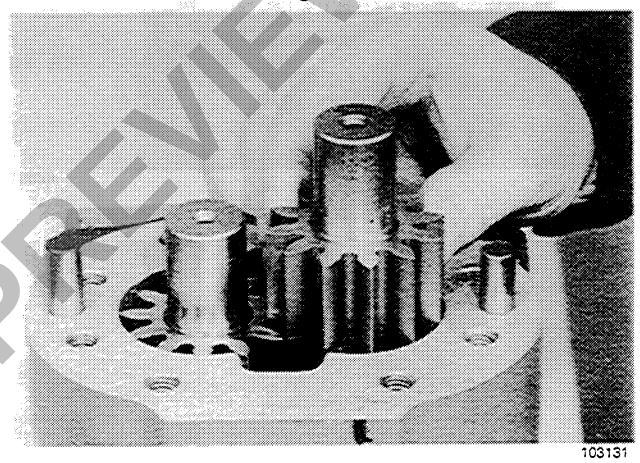
103128

5. Remove the thrust plate.



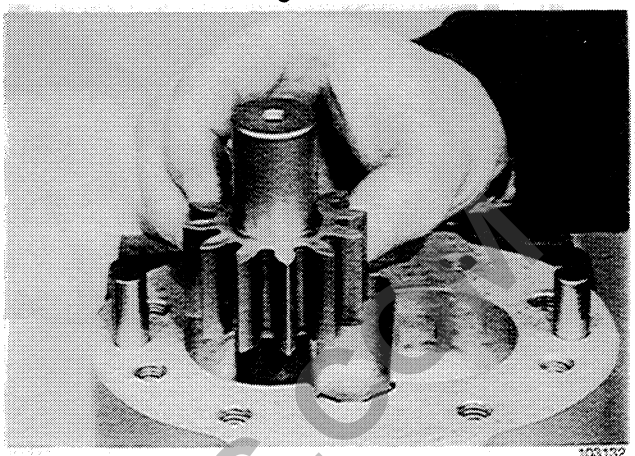
103130

6. Remove the driven gear.



103131

7. Remove the drive gear.



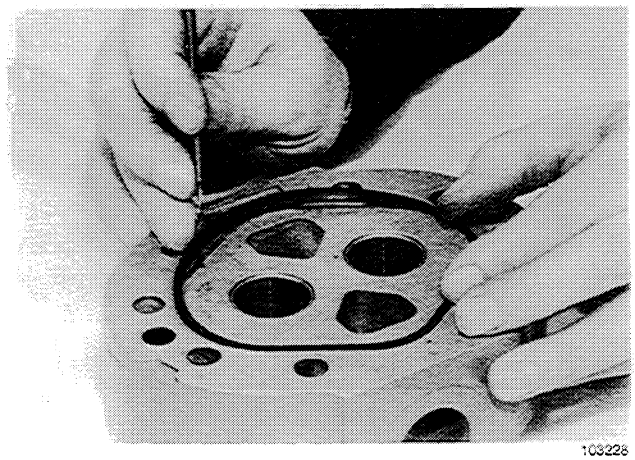
103132

8. Remove the wear plate.



103133

9. Remove the quad ring.



103228

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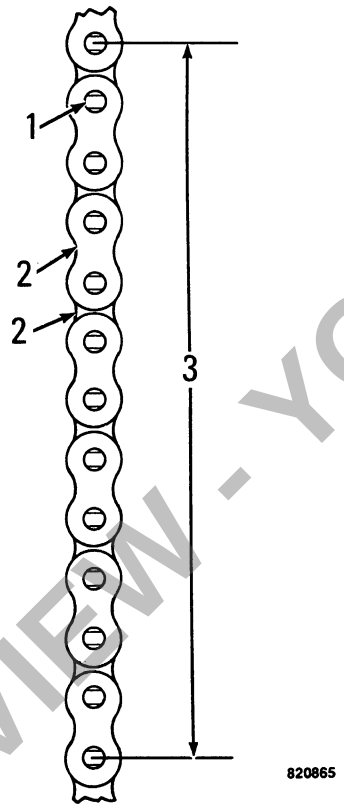
MAST: 12-FOOT (3.6 m) FOR 585D AND 586D
14-1/4-FOOT (4.3 m) FOR 584D, 585D, AND 586D

Measuring The Chains For Wear

1. Measure the distance between 13 pins (12 links) near the center of the chain.

   a. The chain for the 584D, 14-1/4-foot (4.3 m) mast must be replaced if the measurement is 12-3/8 inches (314.3 mm), or more.

   b. The chain for the 585D and 586D, 12-foot (3.6 m) and 14-1/4-foot (4.3 m) masts must be replaced if the measurement is 15-7/16 inches (392.1 mm), or more.

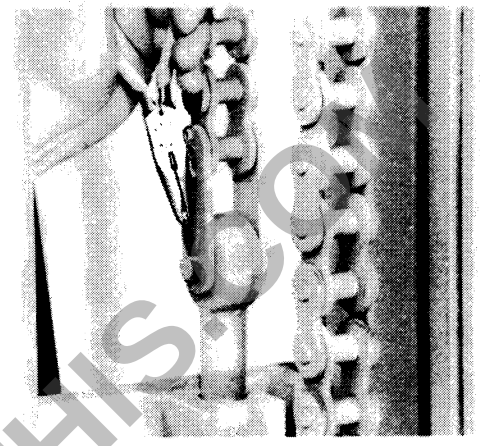


1. *Pin*
2. *Link*
3. *Measure This Distance To Check The Chain Wear*

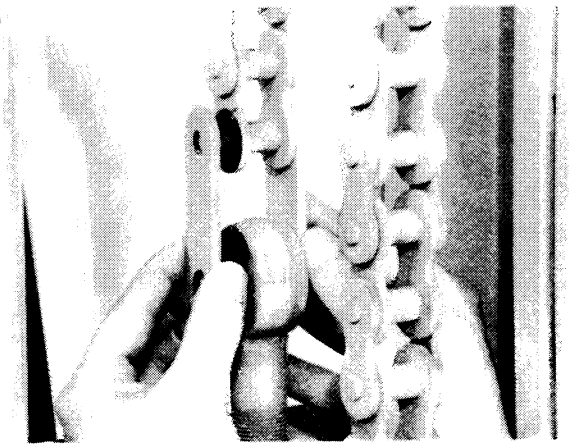
Measuring the Chain

Chain and Sheave Removal

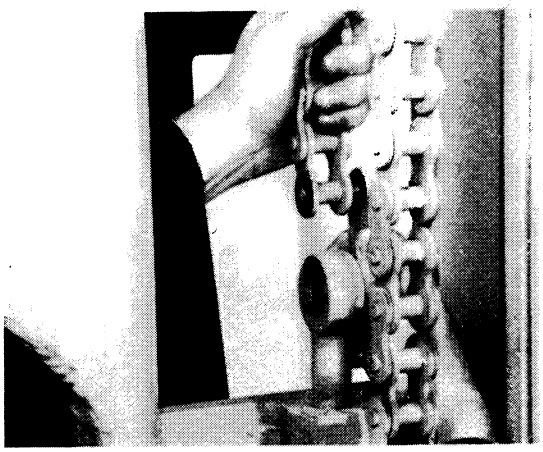
1. Park the machine on a level surface.
2. Lower the forks to the floor.
3. Apply the parking brake. Stop the engine.
4. Remove the cotter pins.



5. Remove the plate.



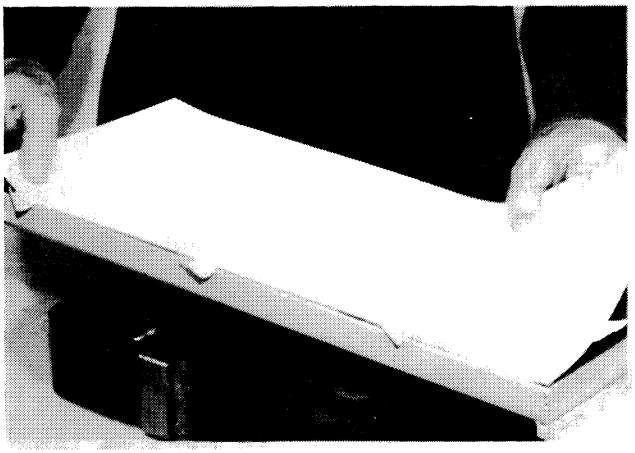
6. Hold the chain and remove the connecting link.



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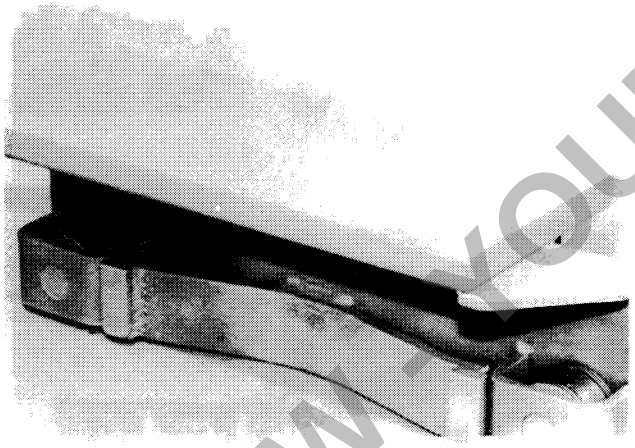
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7. Remove the pattern from the carriage bracket.



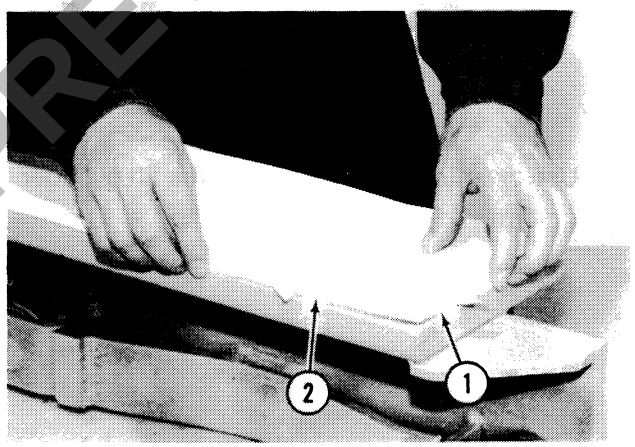
226733

8. Put the new carriage bracket on the work bench. Make sure the new carriage bracket is for the same side of the carriage as the carriage bracket used to make the pattern.



226735

9. Put the pattern on the carriage bracket. Be sure to align the pattern with the top and inside edges of the plate.



226737

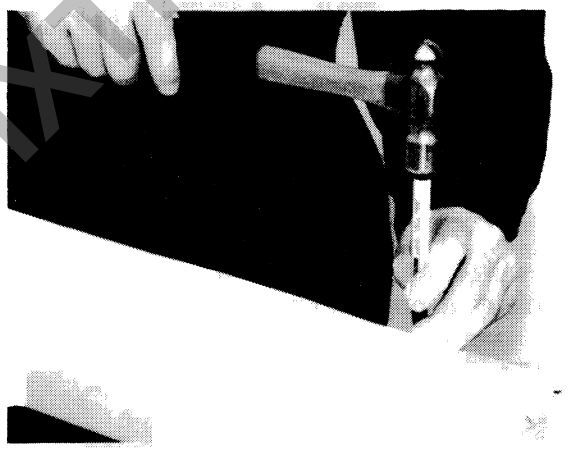
1. *Top Edge*
2. *Inside Edge*

10. Use tape to hold the pattern in place.



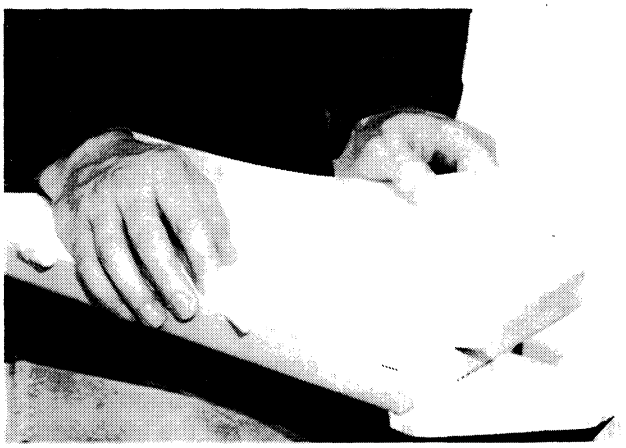
226739

11. Use a center punch and mark the center of each hole in the plate.



226741

12. Remove the pattern from the carriage bracket.

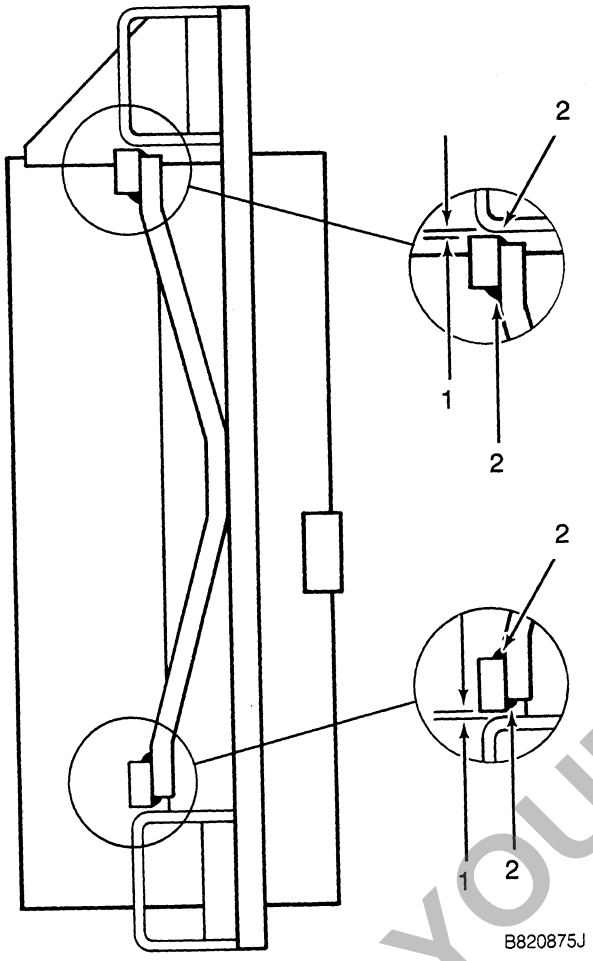


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STEP 84



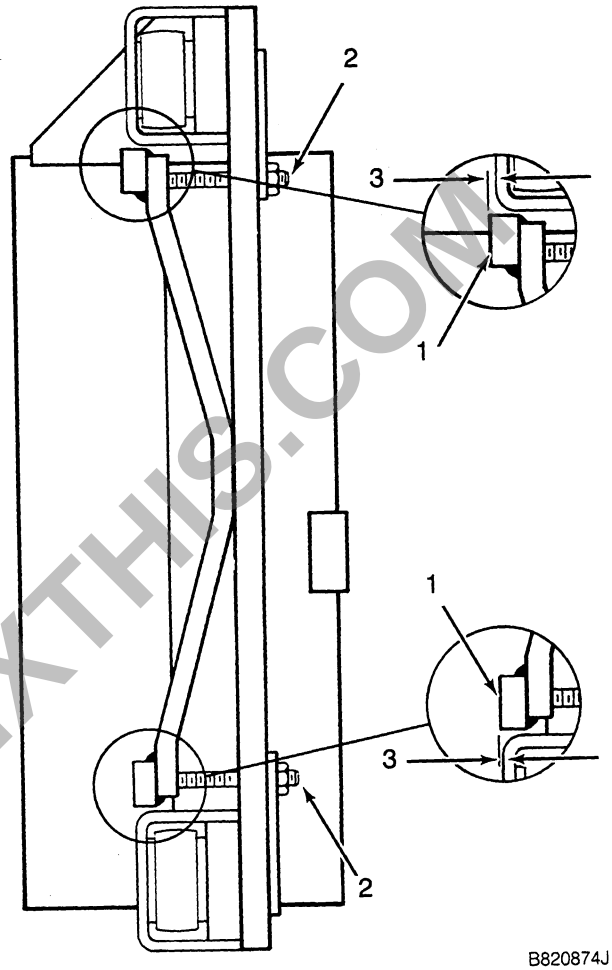
1. 1/8 Inch (3.2 mm)
2. 3/8 Inch (9.5 mm) Fillet Weld

Put the wear plates on the bracket according to the dimensions above. Use C-clamps to hold the wear plates in position.

STEP 85

Use 5/32 Airco 70 phosphor bronze rod and weld the wear plates to the bracket.

STEP 86



1. Wear Plate
2. Allen Head Screw
3. 1/8 Inch (3.2 mm)

Use the Allen screws to adjust the wear plates to the dimension shown above.

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