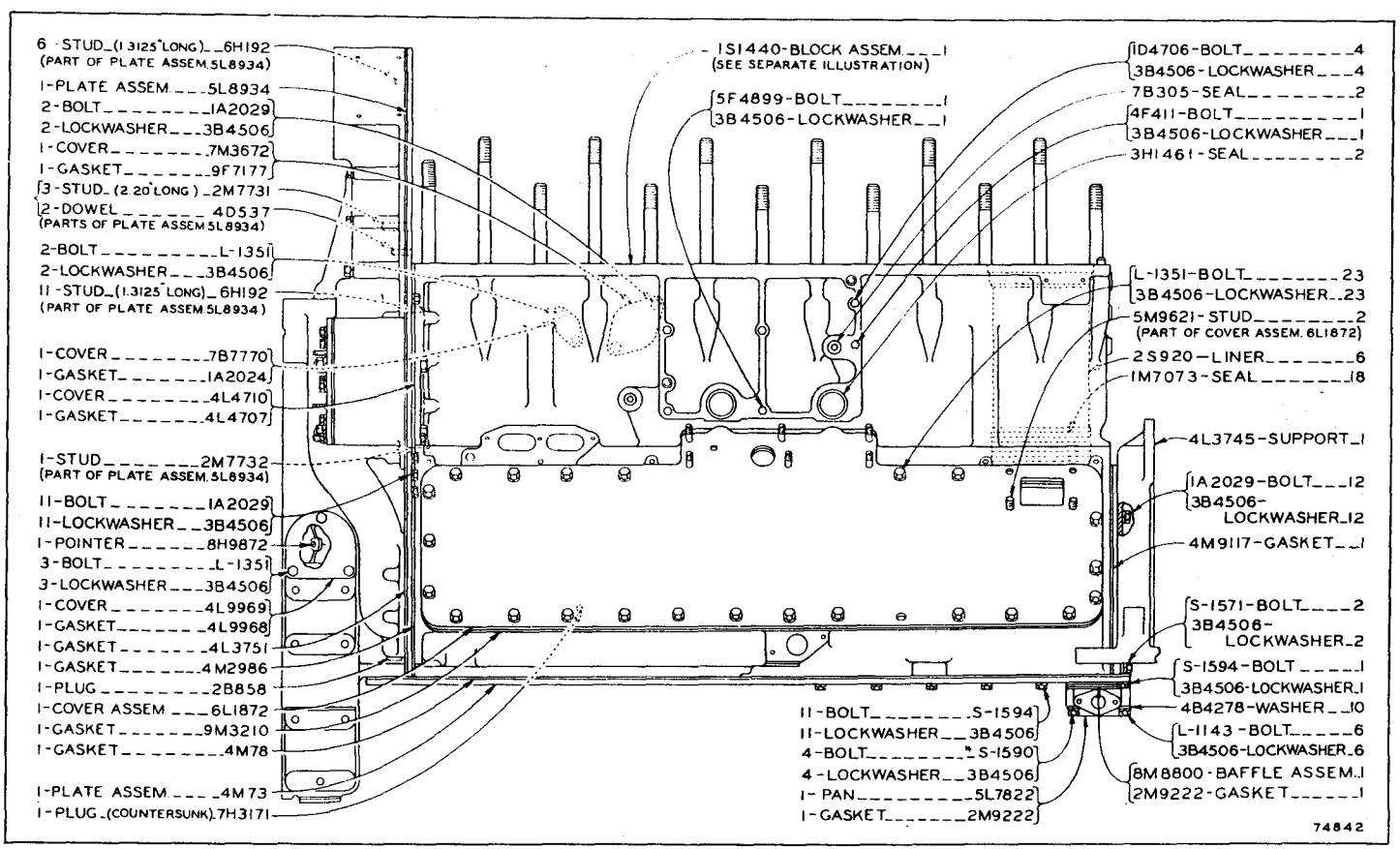


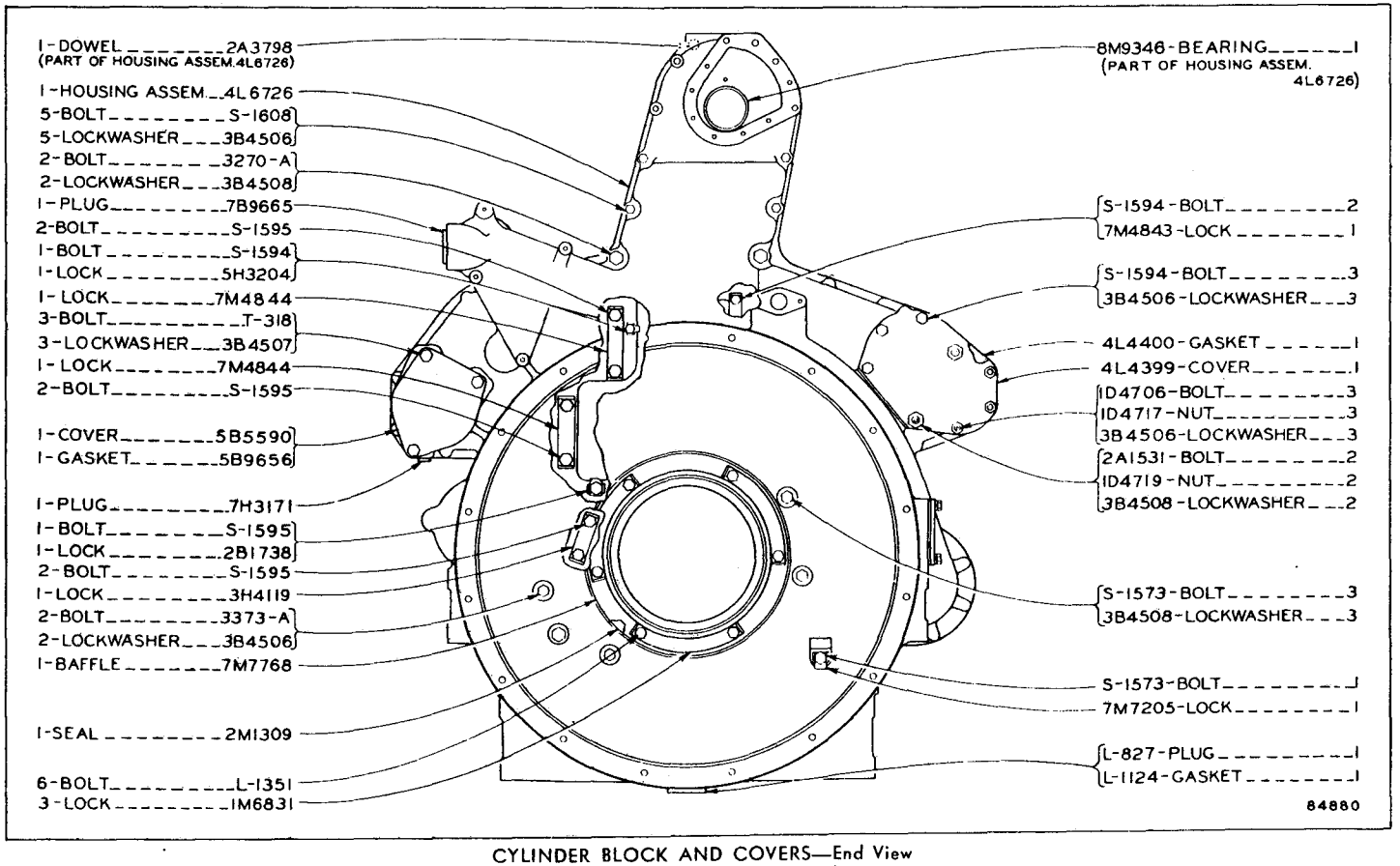
CYLINDER BLOCK AND COVERS—Side View

Serial No. 62B1015 to 62B1392 inclusive

1S1440 Cylinder Block Assembly parts are shown on Page 268. Note: 7M261 Piston and Liner Group, 8M3769 Cylinder Liner and Piston Replacement Gasket Kit and 9M177 Valve Grinding Gasket Kit are available. Piston and Liner replacement require the use of 8M3769 and 9M177 Gasket Kits.

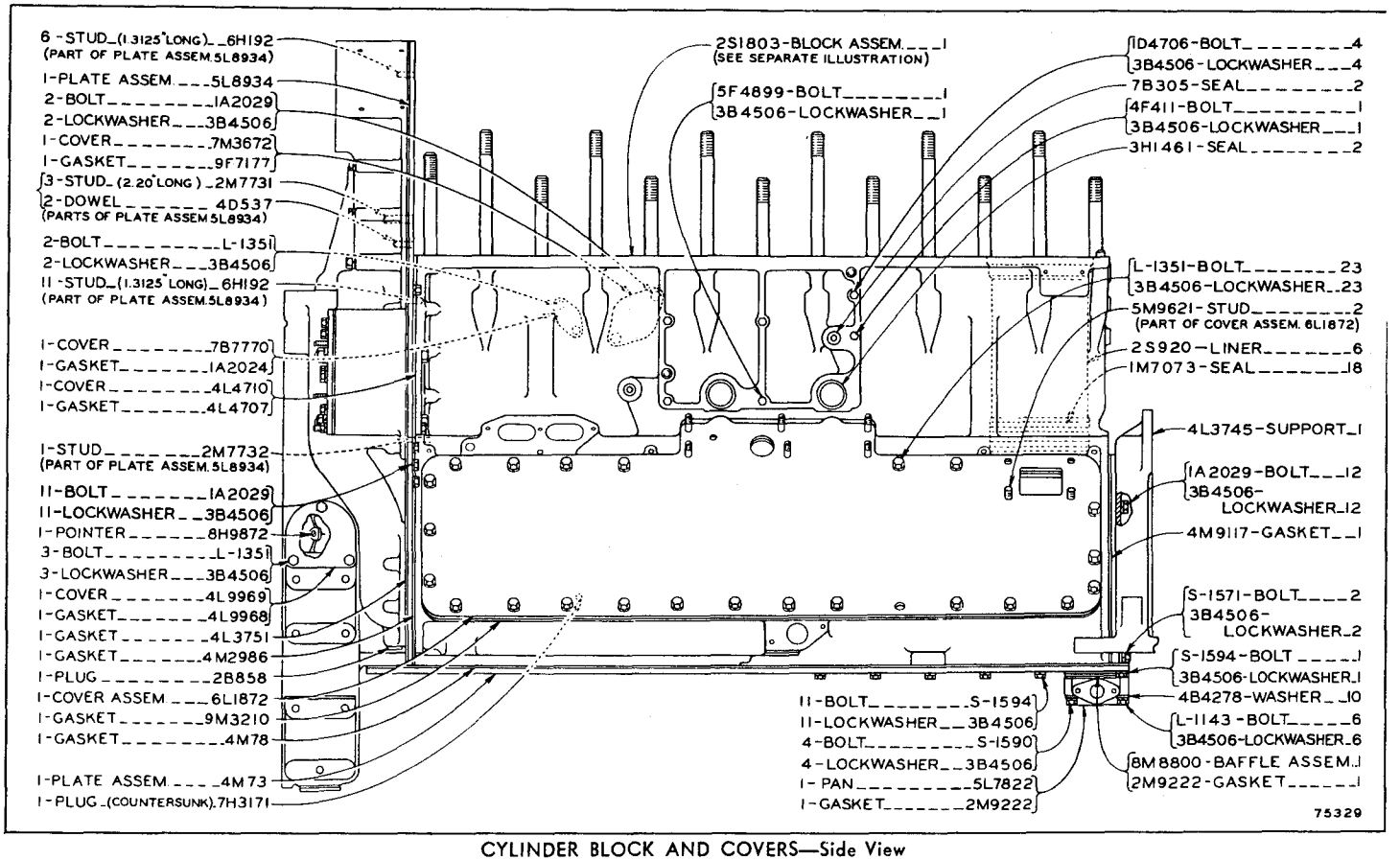
ALWAYS GIVE SERIAL NUMBER OF ENGINE

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



CYLINDER BLOCK AND COVERS—End View
Serial No. 62B1015 to 62B1392 inclusive

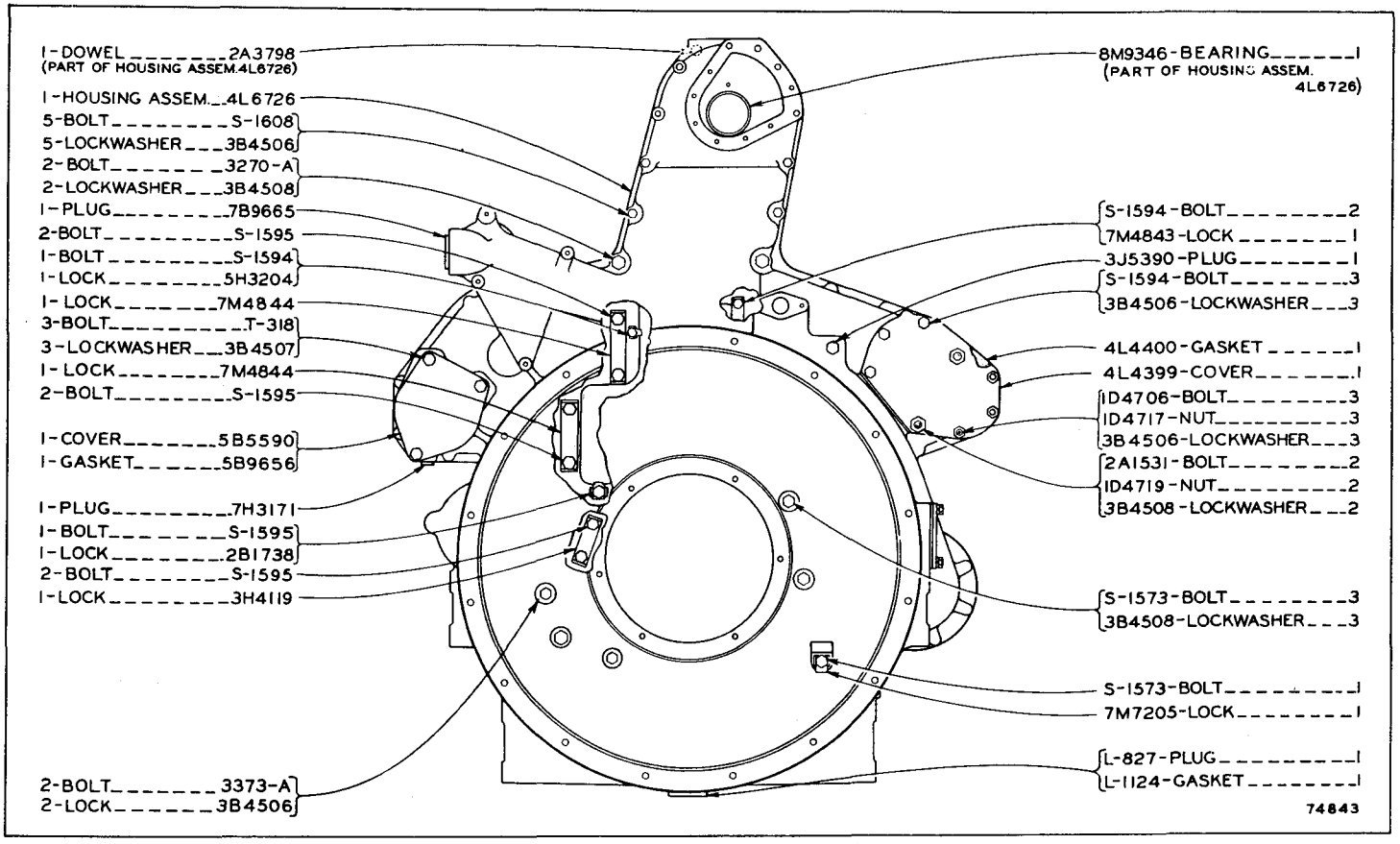
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



CYLINDER BLOCK AND COVERS—Side View

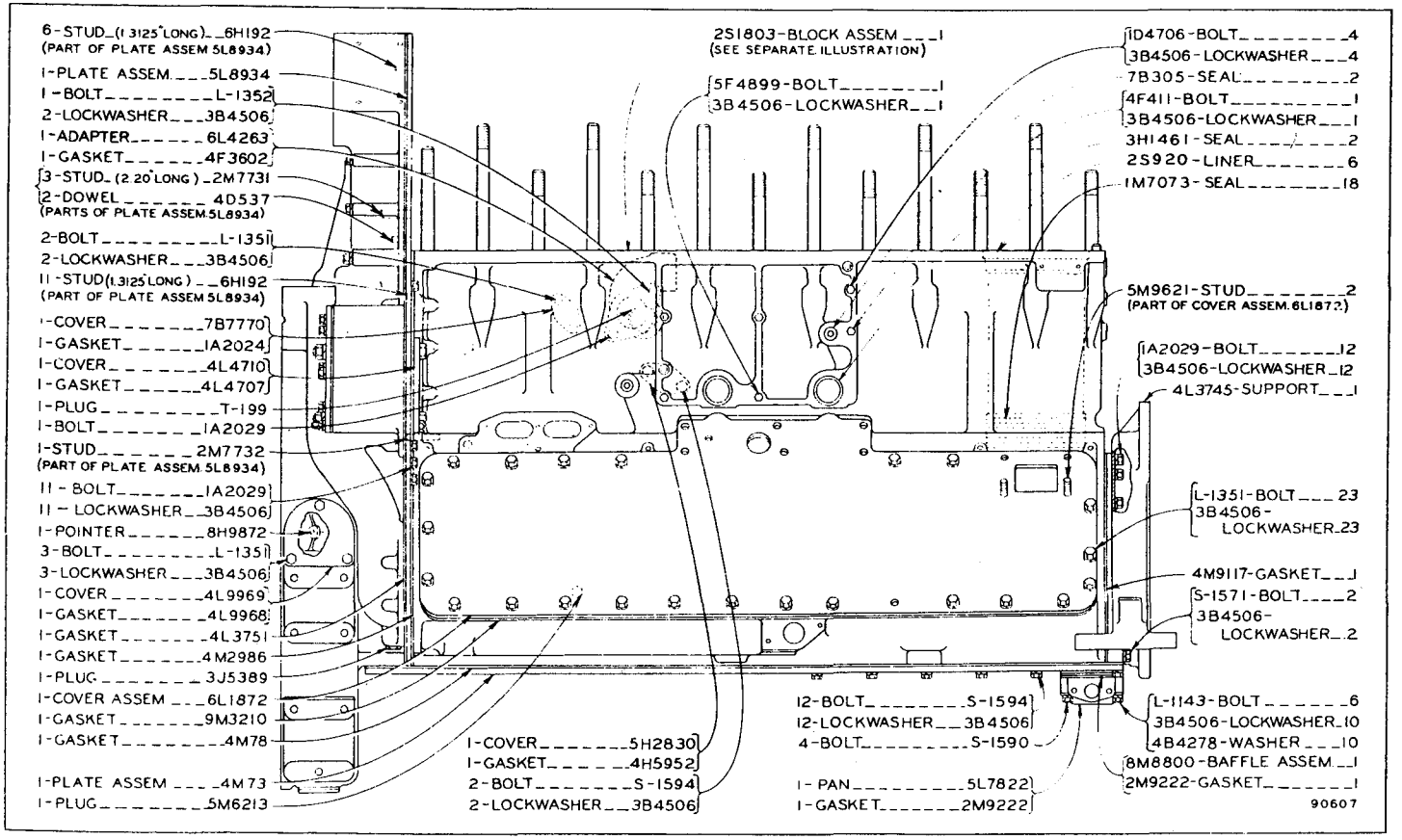
Effective with Serial No. 62B1393

2S1803 Cylinder Block Assembly parts are shown on Page 26C. Note: 7M261 Piston and Liner Group, 8M3769 Cylinder Liner and Piston Replacement



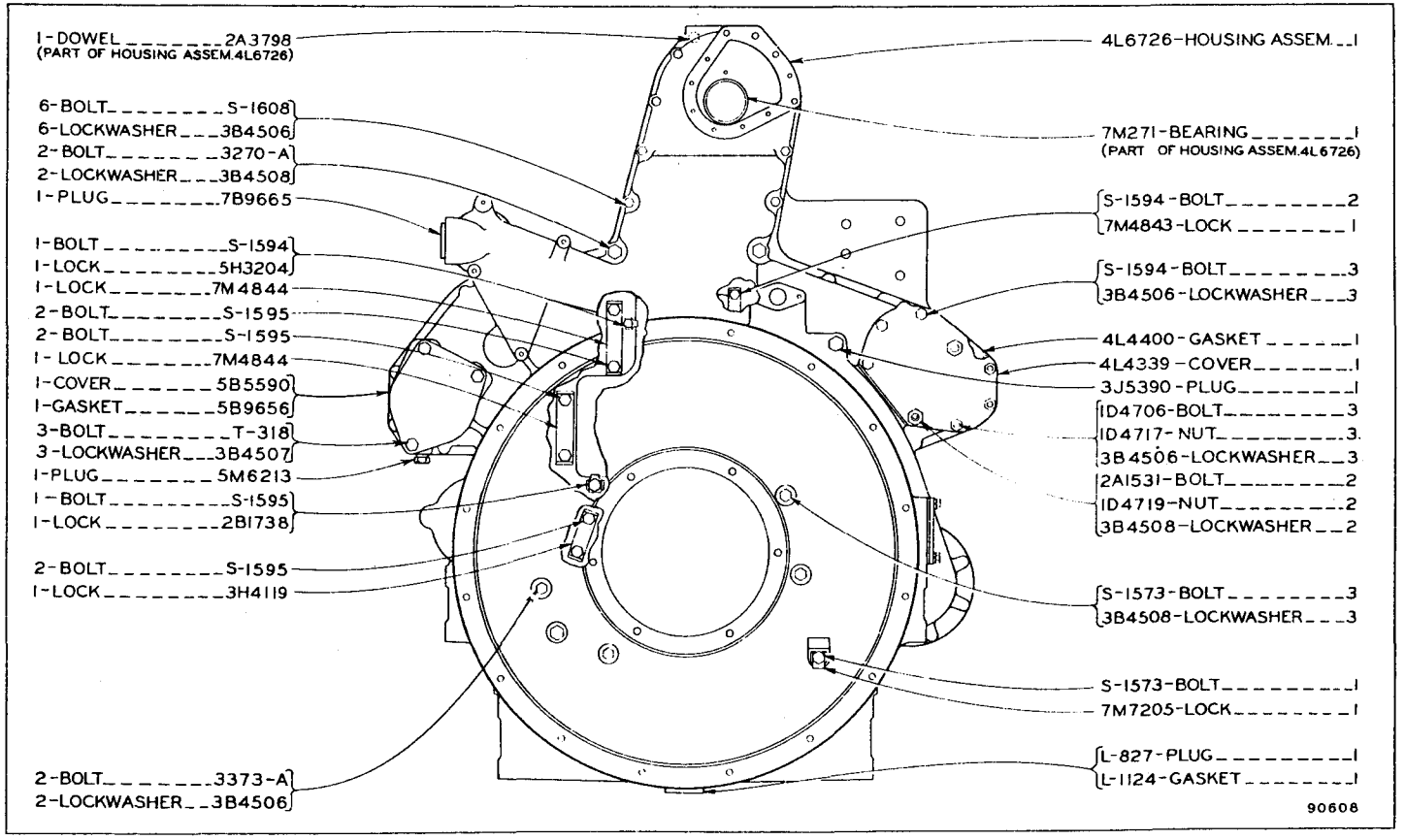
CYLINDER BLOCK AND COVERS—End View
Effective with Serial No. 62B1393

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



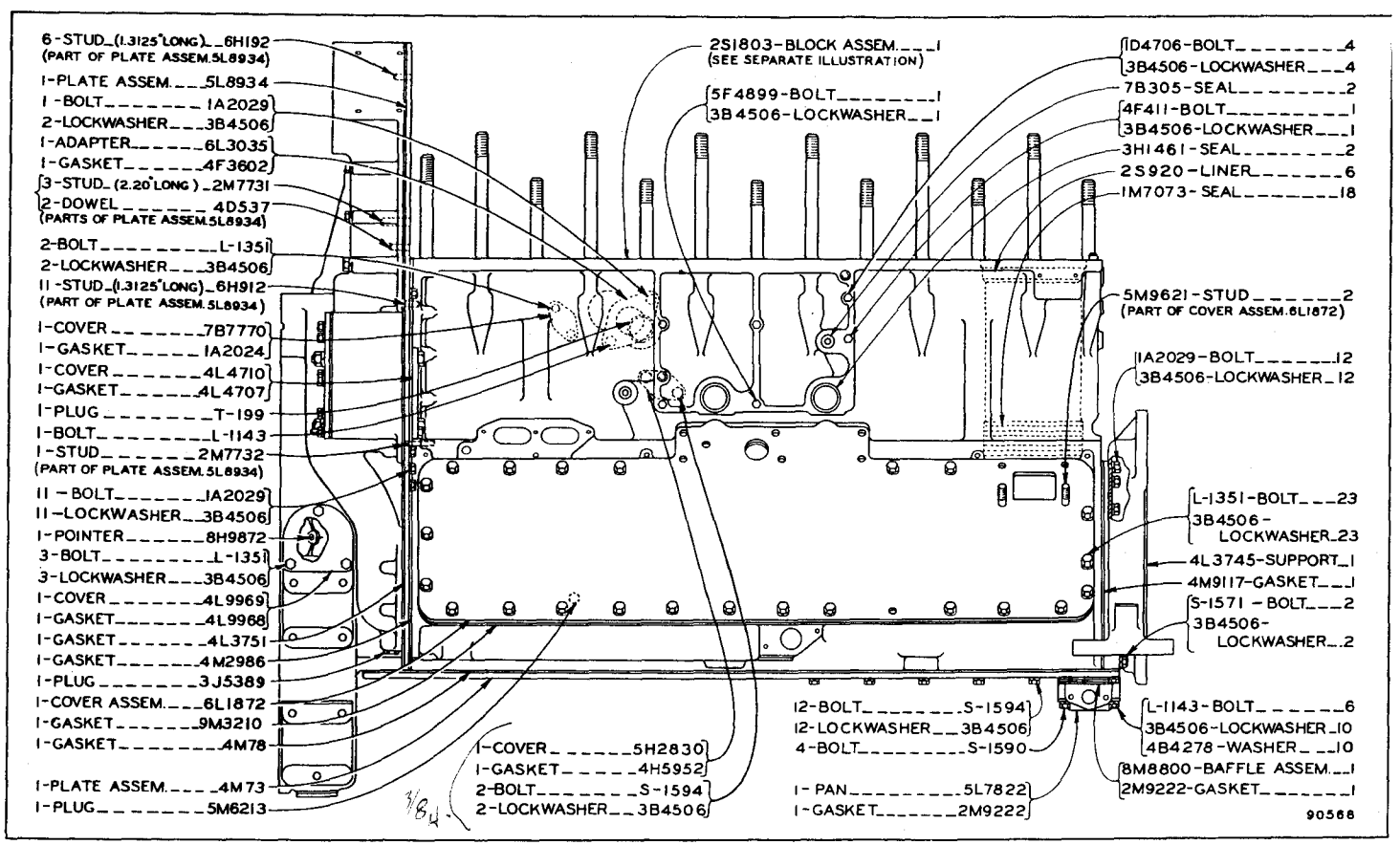
CYLINDER BLOCK AND COVERS—Side View

Effective with Serial No. 62818A0, 2S1803 Cylinder Block Assembly and up; also may be used between Pages 26 and 27



CYLINDER BLOCK AND COVERS—End View

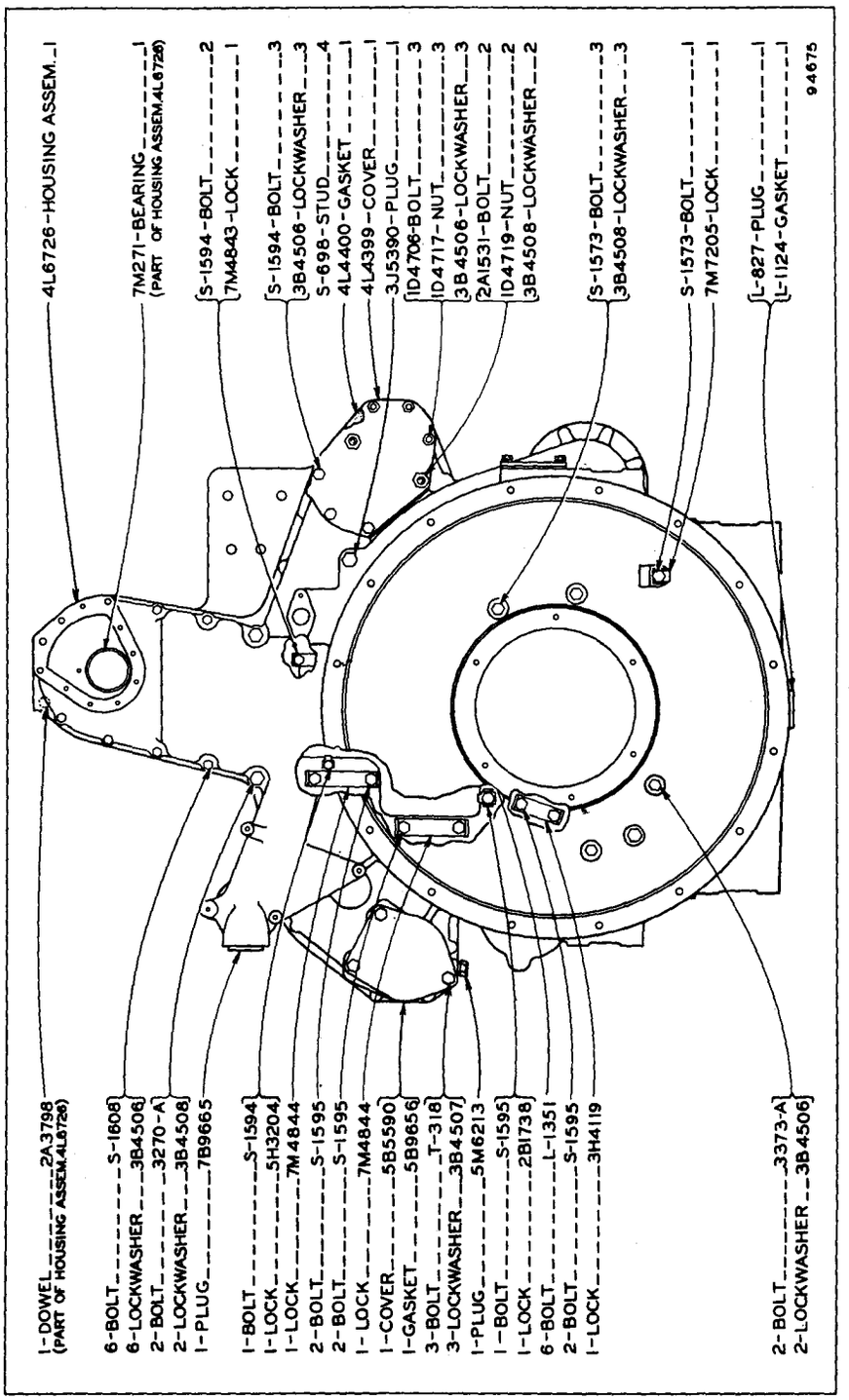
Effective with Serial No. 62B1869



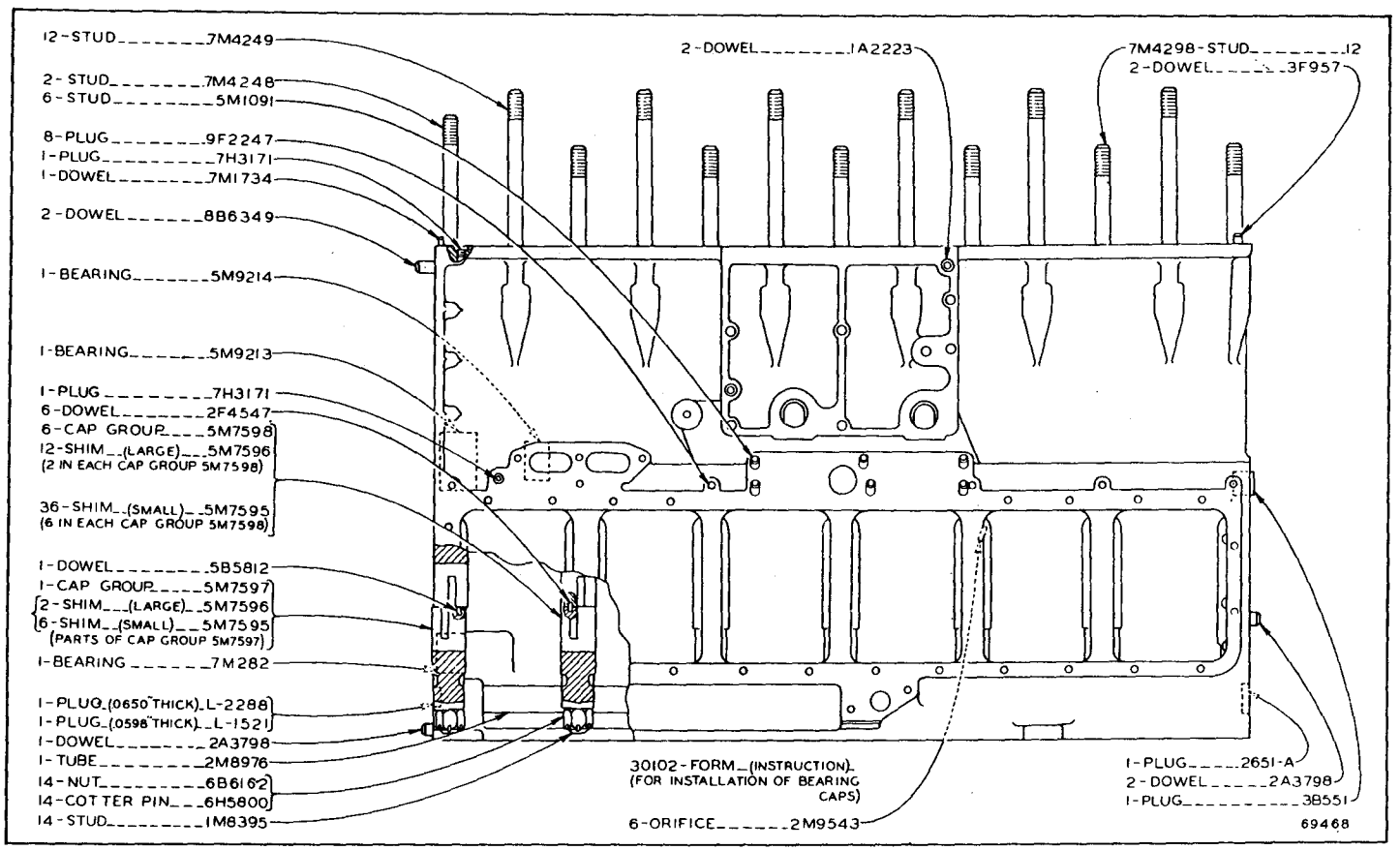
CYLINDER BLOCK AND COVERS—Side View

Effective with Serial No. 62B1869

2S1803 Cylinder Block Assembly

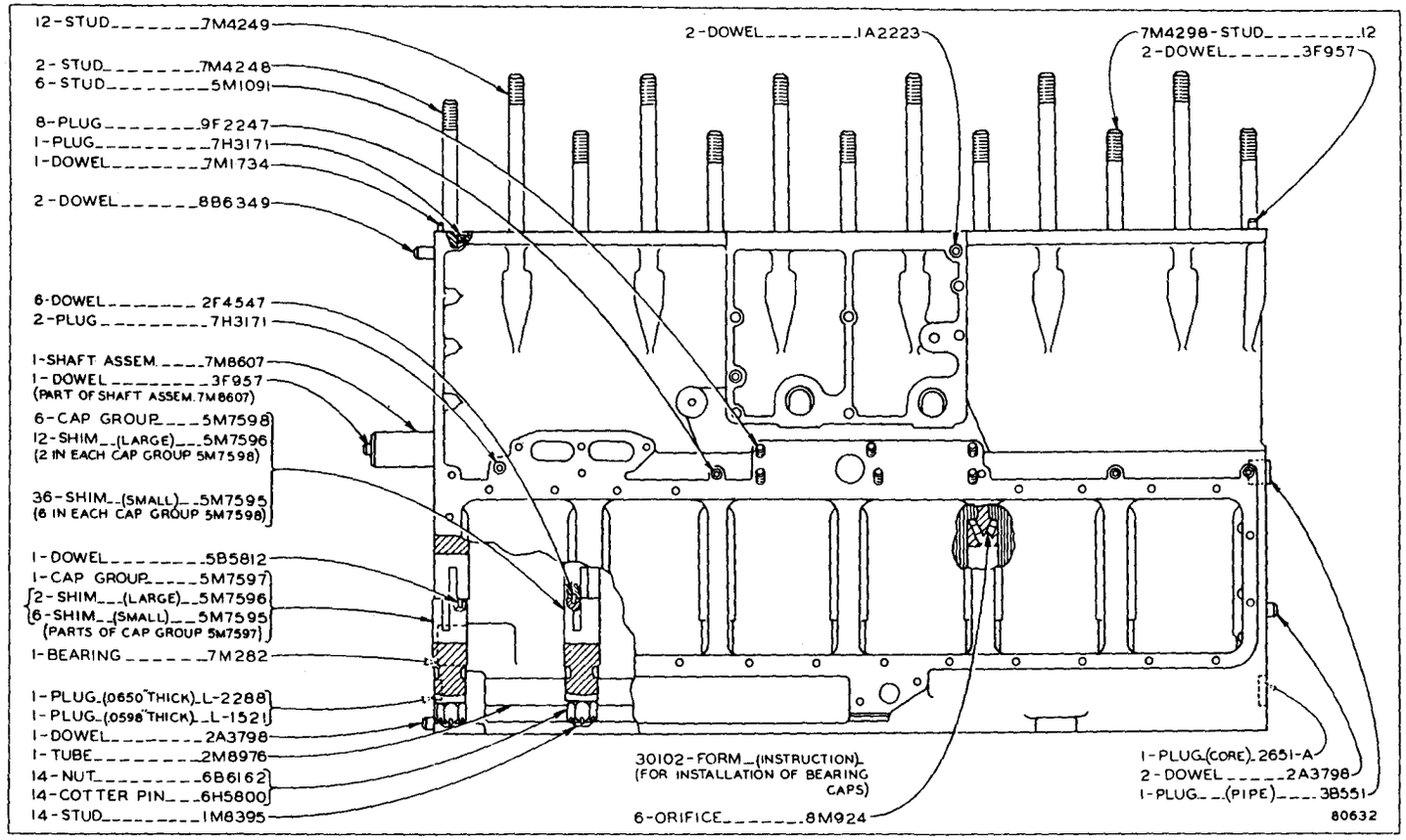


CYLINDER BLOCK AND COVERS—End View
Effective with Serial No. 62B1869
FOR USE WITHOUT AFTERCOOLER



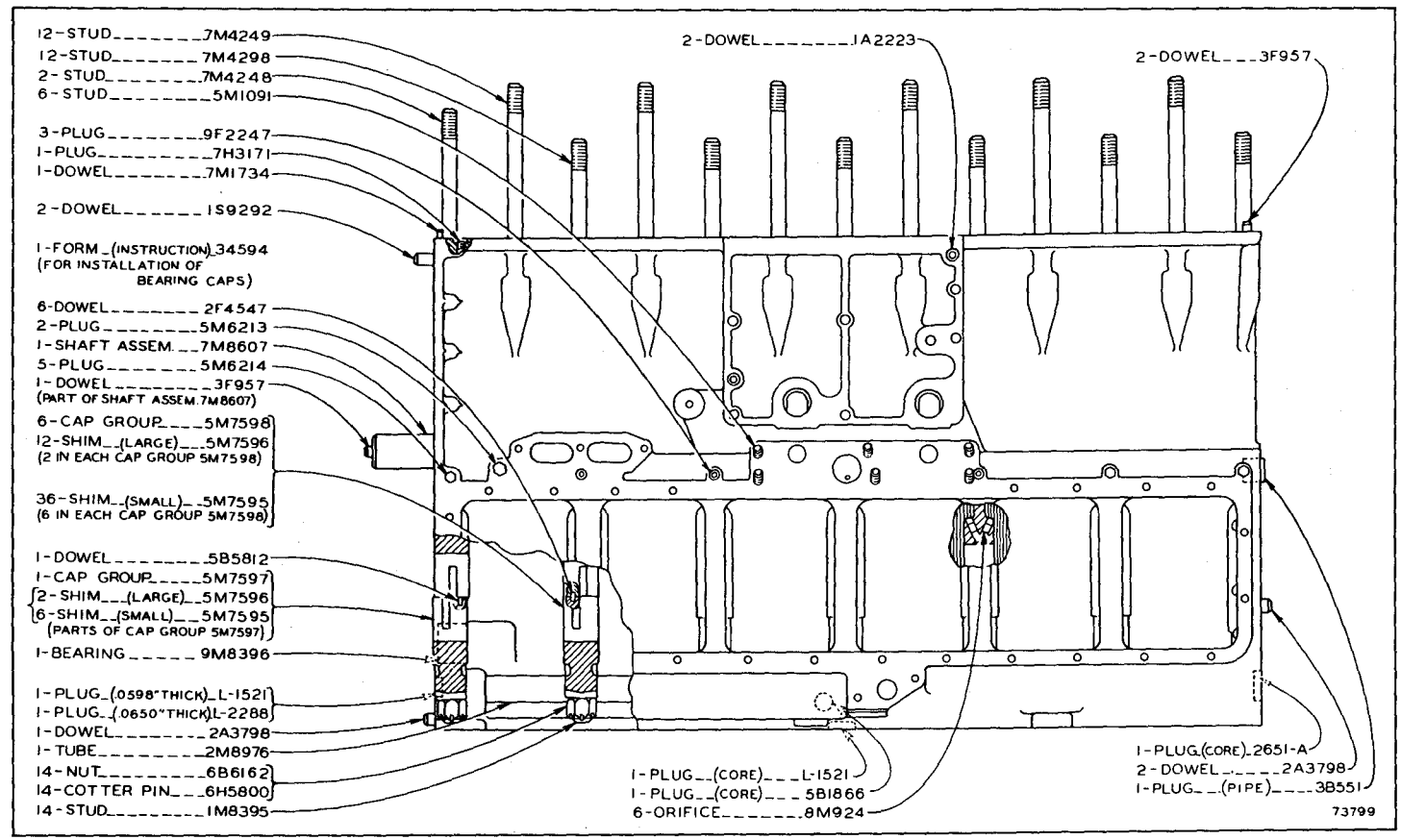
4M2978 CYLINDER BLOCK ASSEMBLY

Part of Cylinder Block and Covers shown on Page 24

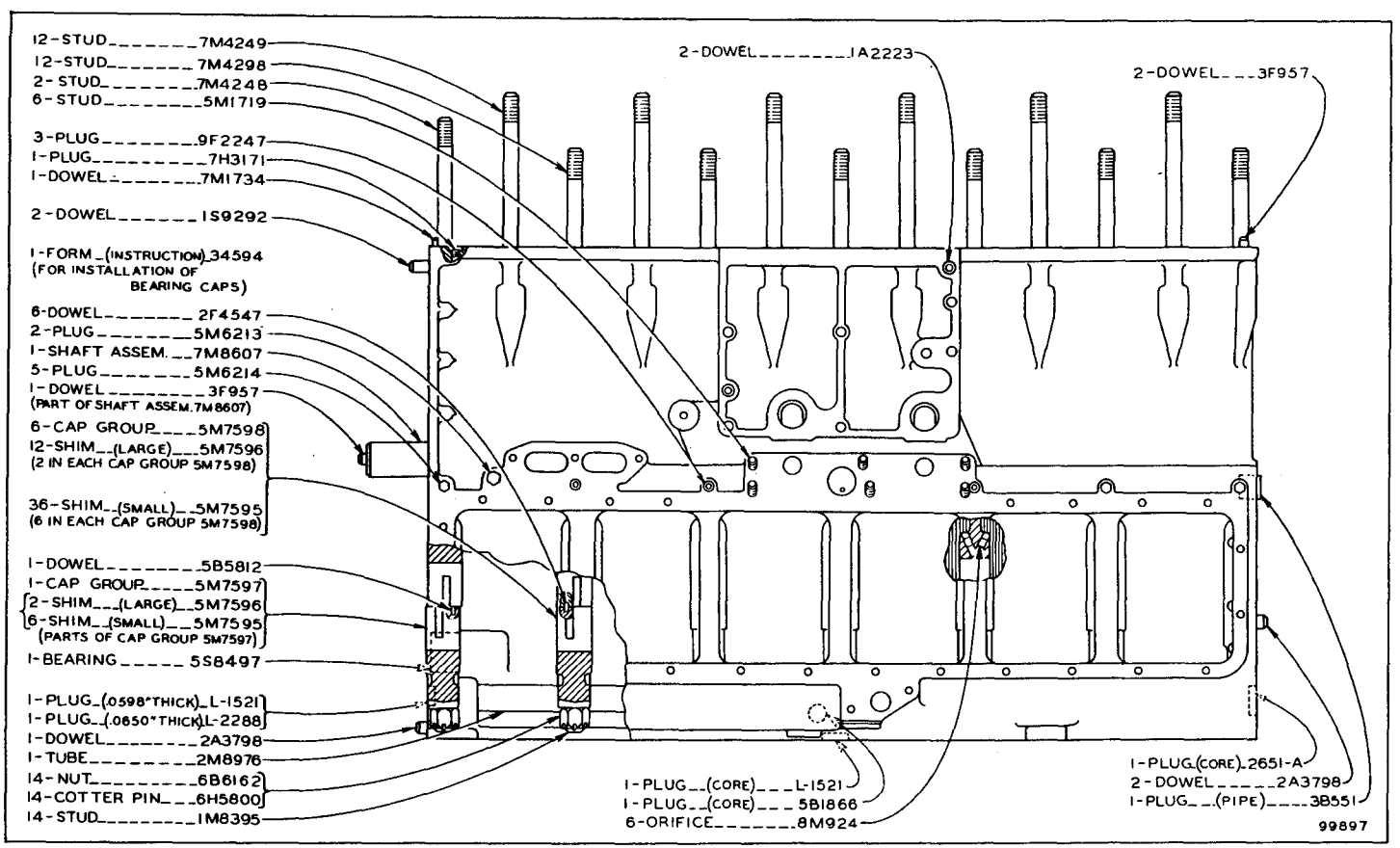


7M8650 CYLINDER BLOCK ASSEMBLY

Part of Cylinder Block and Covers shown on insert between Pages 24 and 25



1S1440 CYLINDER BLOCK ASSEMBLY
Part of Cylinder Block and Covers shown on Page 24M



2S1803 CYLINDER BLOCK ASSEMBLY

Part of Cylinder Block and Covers shown on Page 24P

8M6225 Diesel Engine Basic
Effective with Serial No. 62B50

8M6226 Diesel Engine Supplementary
Effective with Serial No. 62B50

▲ 8M6228 Diesel Engine Supplementary
Effective with Serial No. 62B1869

8M3770 Valve Grinding
Serial No. 62B1 to 62B49 inclusive

9M177 Valve Grinding
Effective with Serial No. 62B50

8M3769 Cylinder Liner and Piston Replacement

8M3768 Water Pump

1S3523 Gasoline Starting Engine Basic
Serial No. 62B1 to 62B1868 inclusive

3S803 Gasoline Starting Engine Basic
Effective with Serial No. 62B1869

1S3994 Gasoline Starting Engine Supplementary
Serial No. 62B1 to 62B1868 inclusive

3S807 Gasoline Starting Engine Supplementary
Effective with Serial No. 62B1869

9M5675 Gasoline Starting Engine Clutch Mechanism Repair
Serial No. 62B1 to 62B1868 inclusive

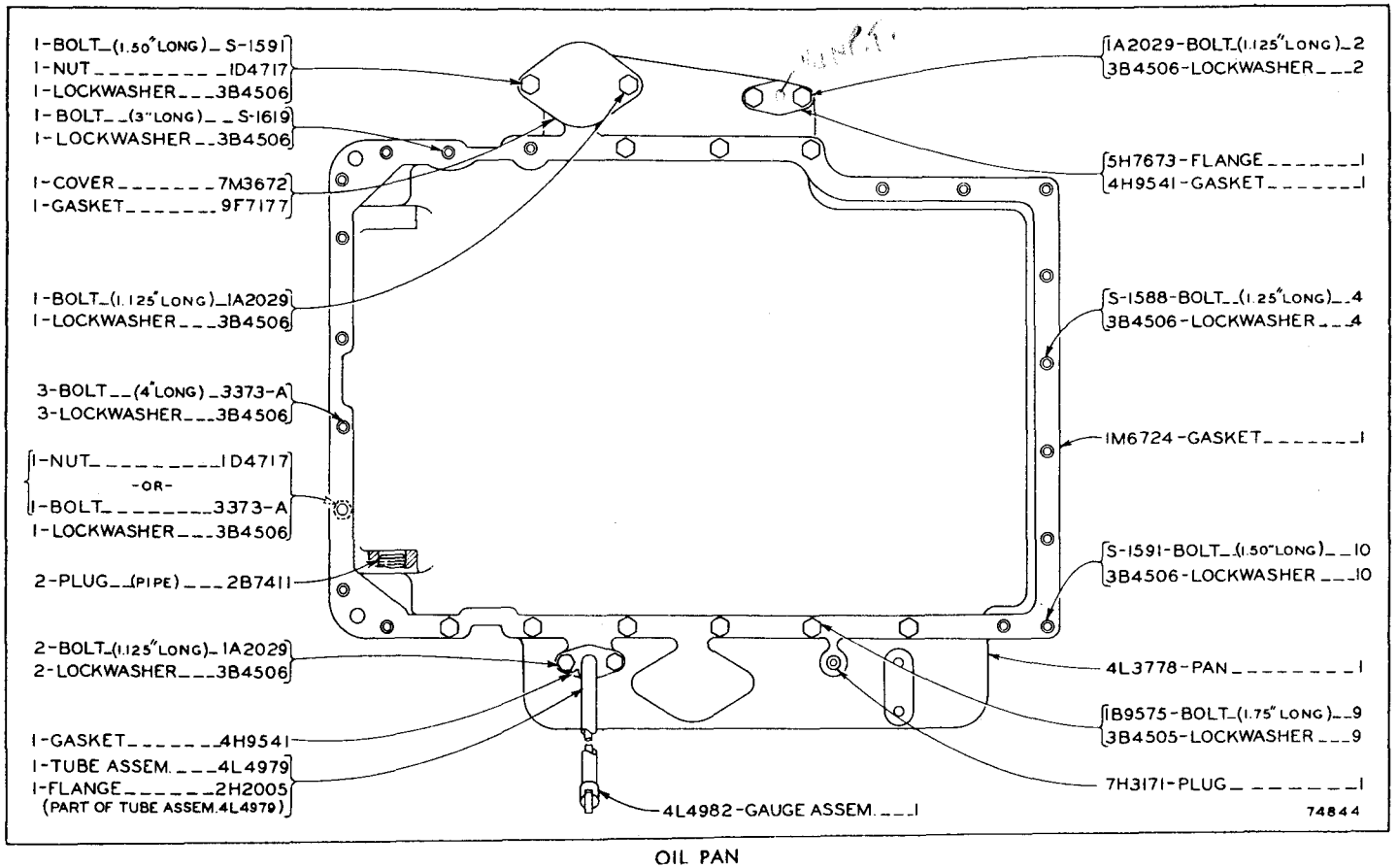
3S1718 Gasoline Starting Engine Clutch Mechanism Repair
Effective with Serial No. 62B1869

▲ Additional Supplementary Gasket Kit required for Engine equipped with Gasoline Starting System

LW28021

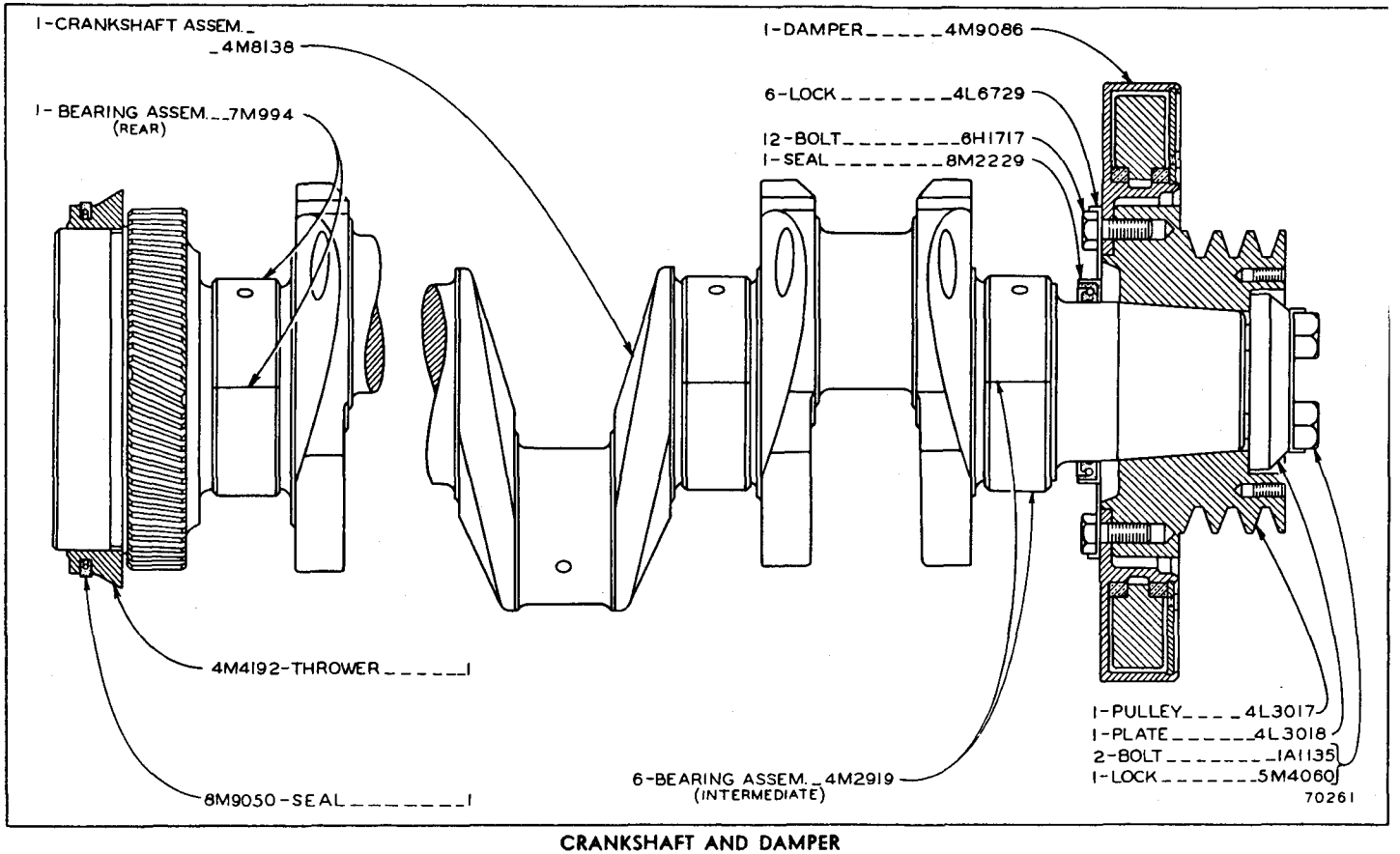
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



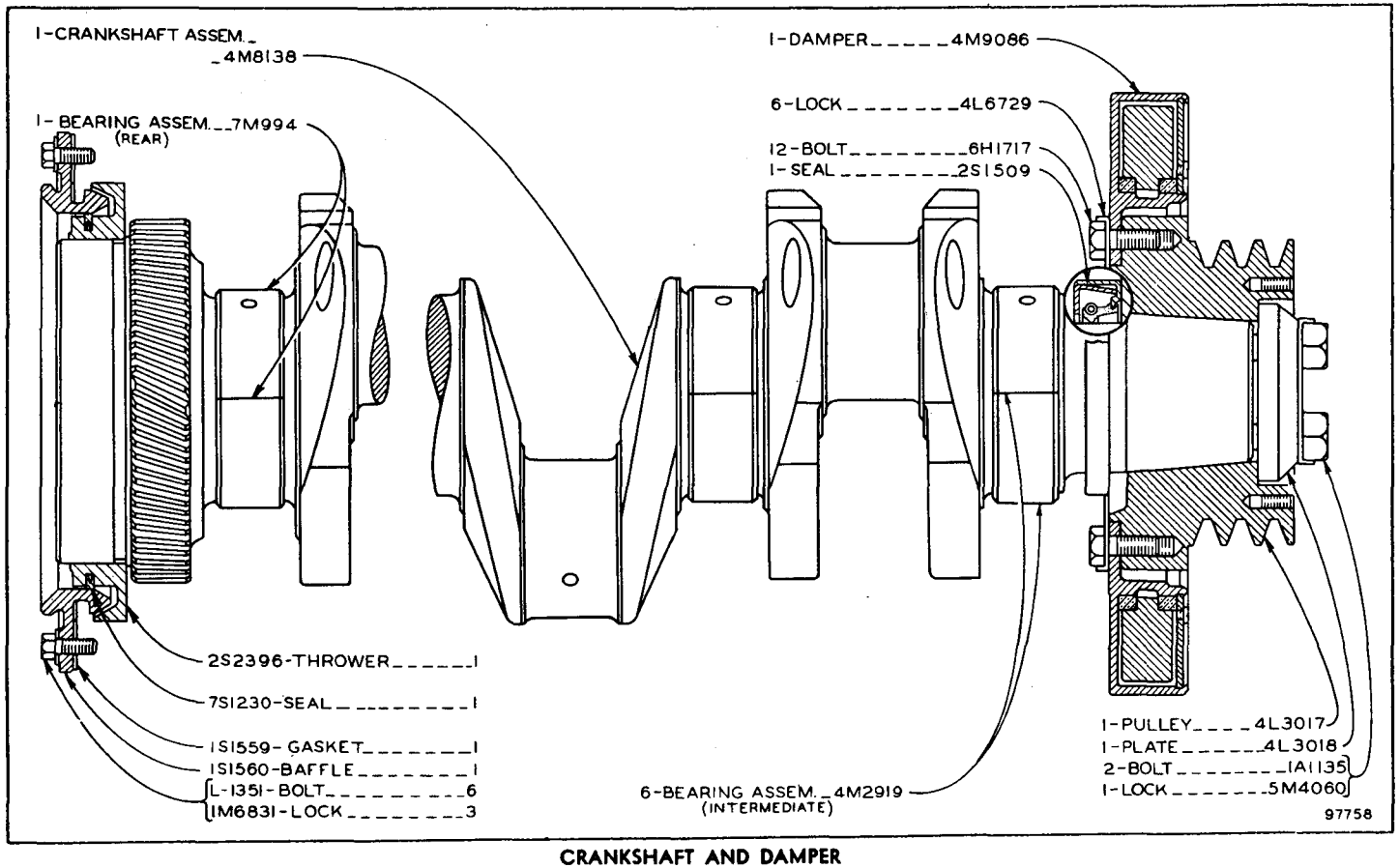
OIL PAN

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

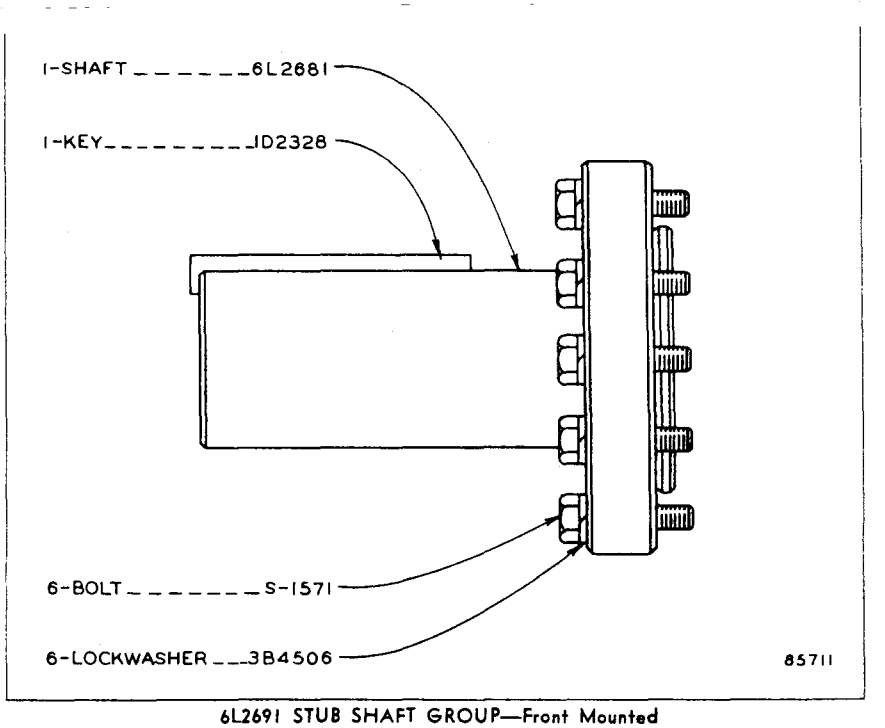


CRANKSHAFT AND DAMPER

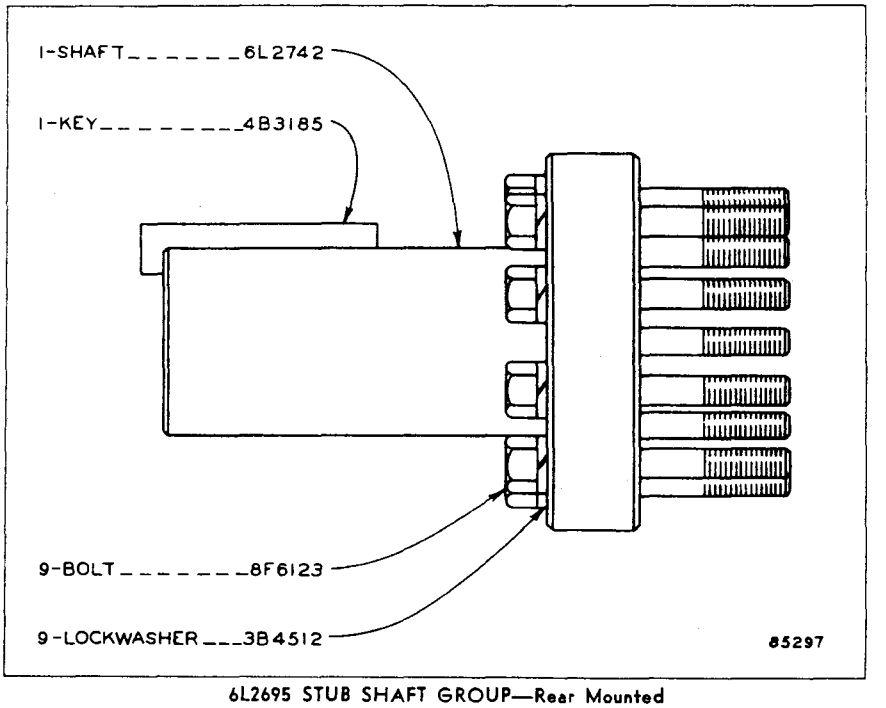
ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



CRANKSHAFT AND DAMPER
Effective with Serial No. 628328



6L2691 STUB SHAFT GROUP—Front Mounted



6L2695 STUB SHAFT GROUP—Rear Mounted

7M3865 For use with Standard Crankshaft

Consists of:

Complete set of Bearing Assemblies as shown with Standard Crankshaft

7M3863 For use with .025 Undersize Crankshaft

Consists of:

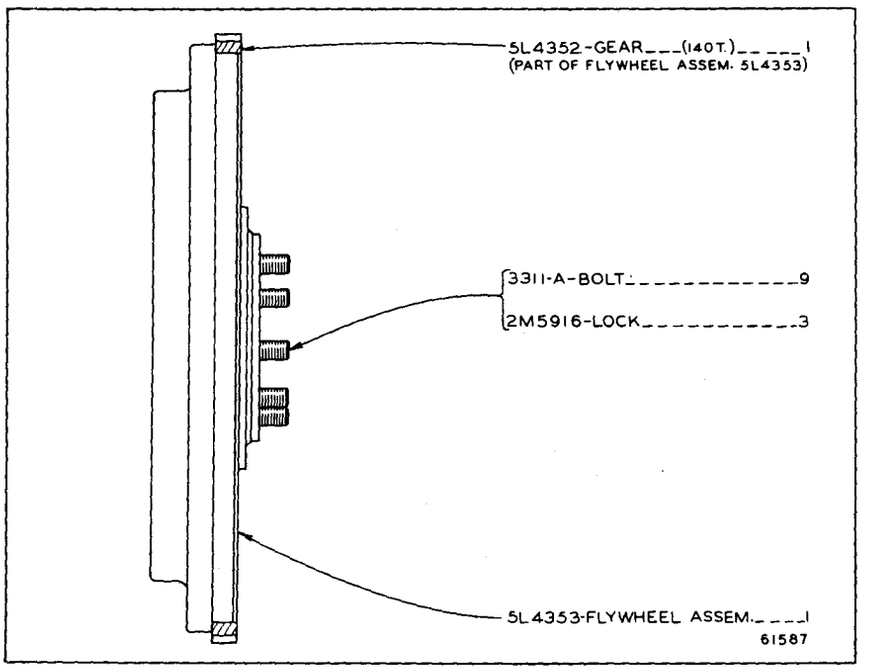
1	7M3772	Bearing Assembly—Rear
6	7M3632	Bearing Assembly—Intermediate

7M3864 For use with .050 Undersize Crankshaft

Consists of:

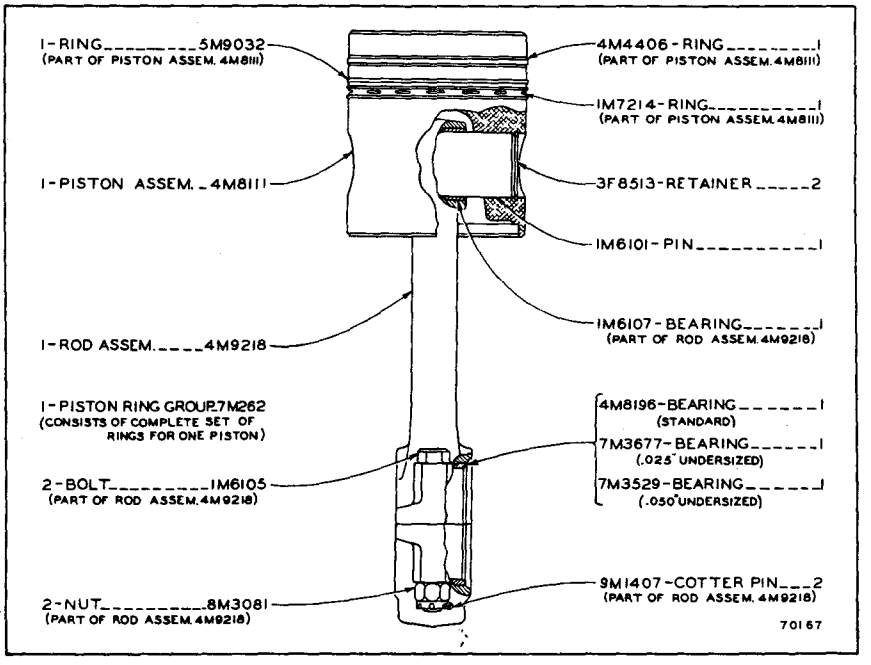
1	7M3771	Bearing Assembly—Rear
6	7M3528	Bearing Assembly—Intermediate

CRANKSHAFT BEARING REPLACEMENT GROUPS

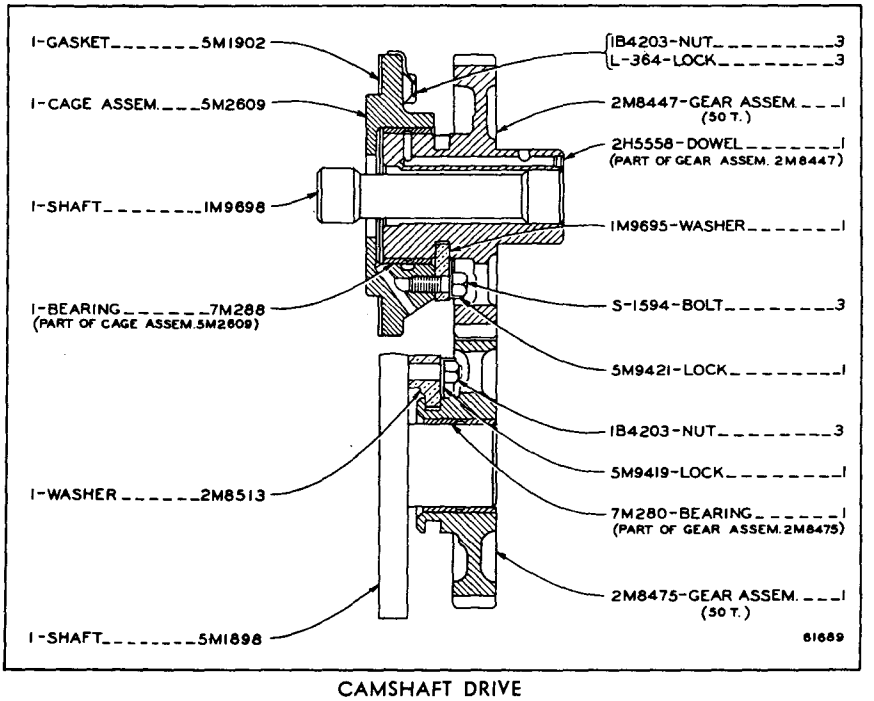


FLYWHEEL

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

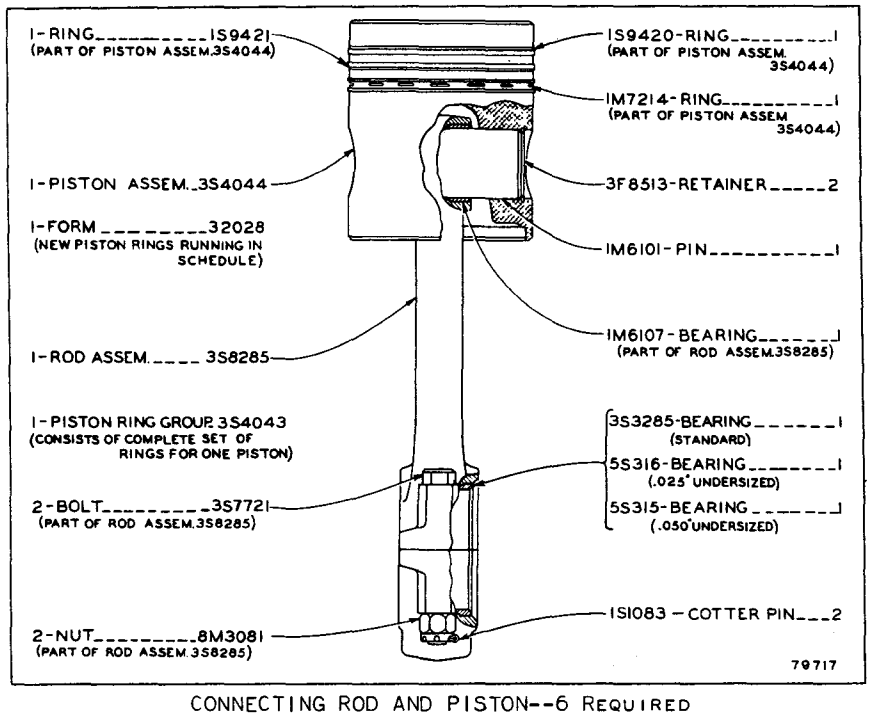


CONNECTING ROD AND PISTON—6 Required
Serial No. 62B1 to 62B1448 inclusive
Note: 7M261 Piston and Liner Group, consisting of: 1—Piston Assembly, 1—Liner and 3—Seal, is available

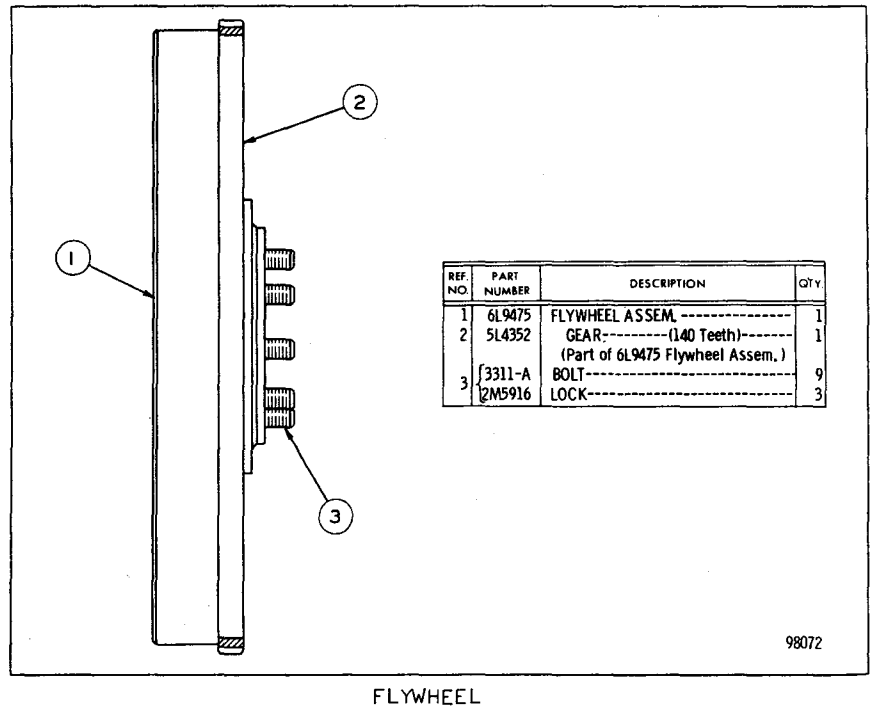


CAMSHAFT DRIVE
Serial No. 62B1 to 62B122 inclusive

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING

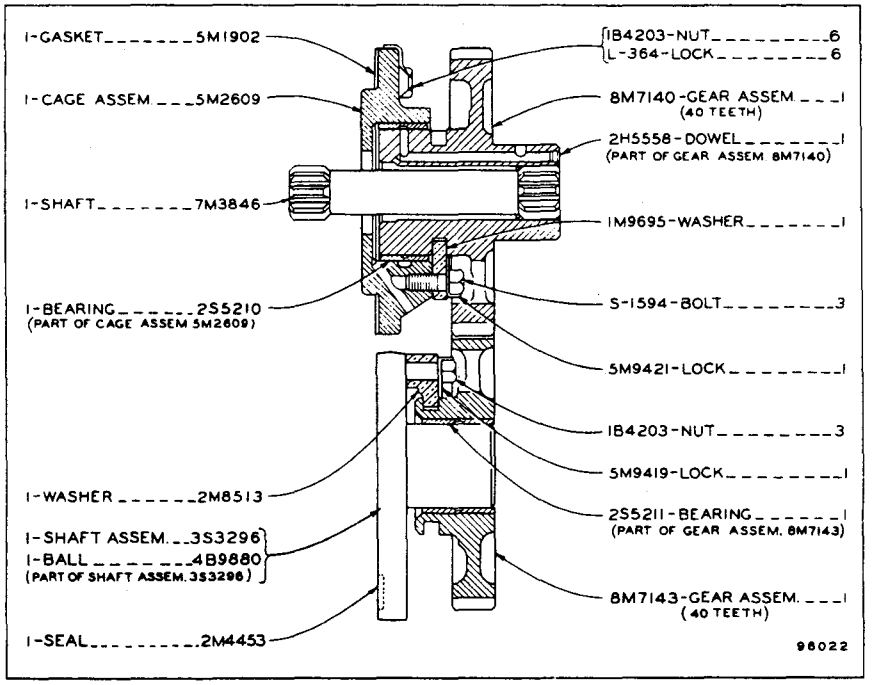


CONNECTING ROD AND PISTON--6 REQUIRED
EFFECTIVE WITH SERIAL NO. 62B2766
NOTE: 3S4045 PISTON AND LINER GROUP IS AVAILABLE

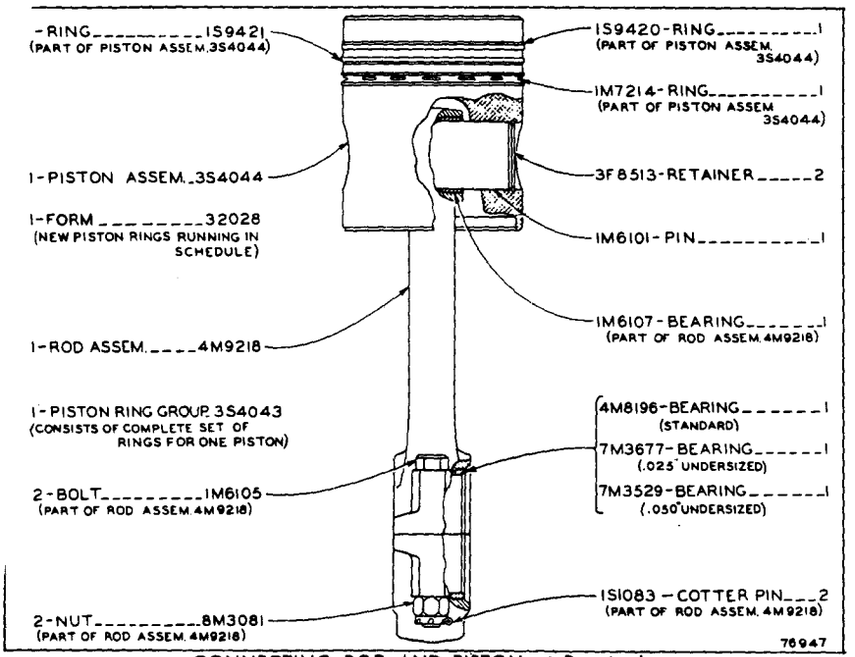


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	6L9475	FLYWHEEL ASSEM.	1
2	5L4352	GEAR--------(140 Teeth)------- (Part of 6L9475 Flywheel Assem.)	1
3	3311-A	BOLT	9
	2M5916	LOCK	3

FLYWHEEL
EFFECTIVE WITH SERIAL NO. 62B3645



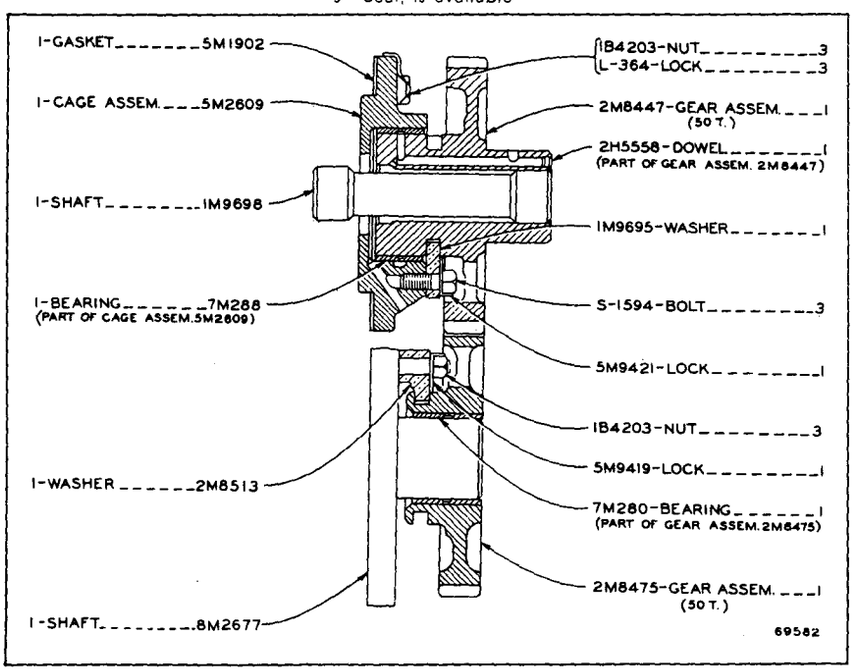
CAMSHAFT DRIVE
Effective with Serial No. 62B2634



CONNECTING ROD AND PISTON—6 Required

Serial No. 62B1449 to 62B2765 inclusive

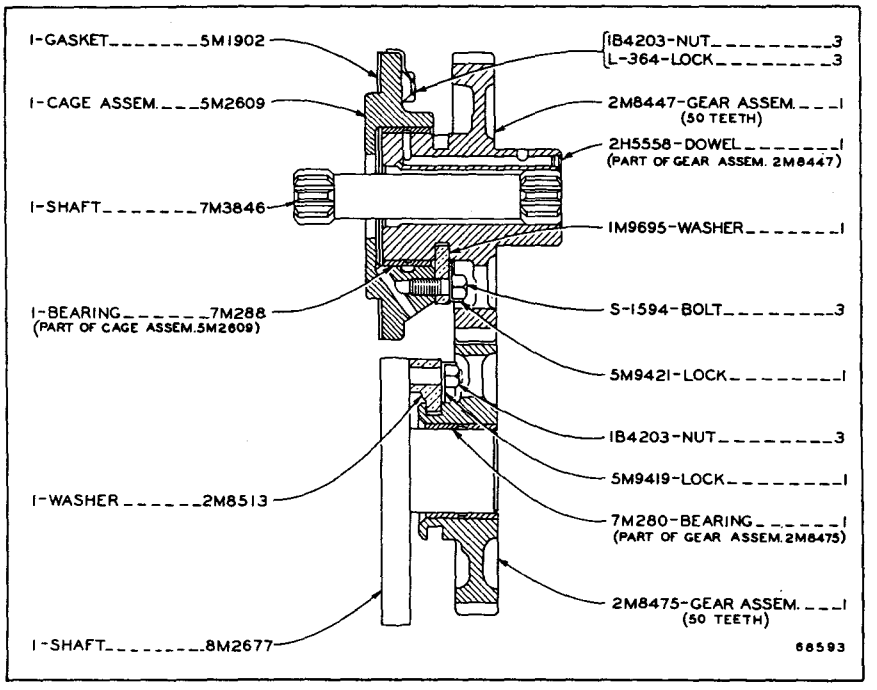
Note: 3S4045 Piston and Liner Group, consisting of: 1—Piston Assembly, 1—Liner and 3—Seal, is available



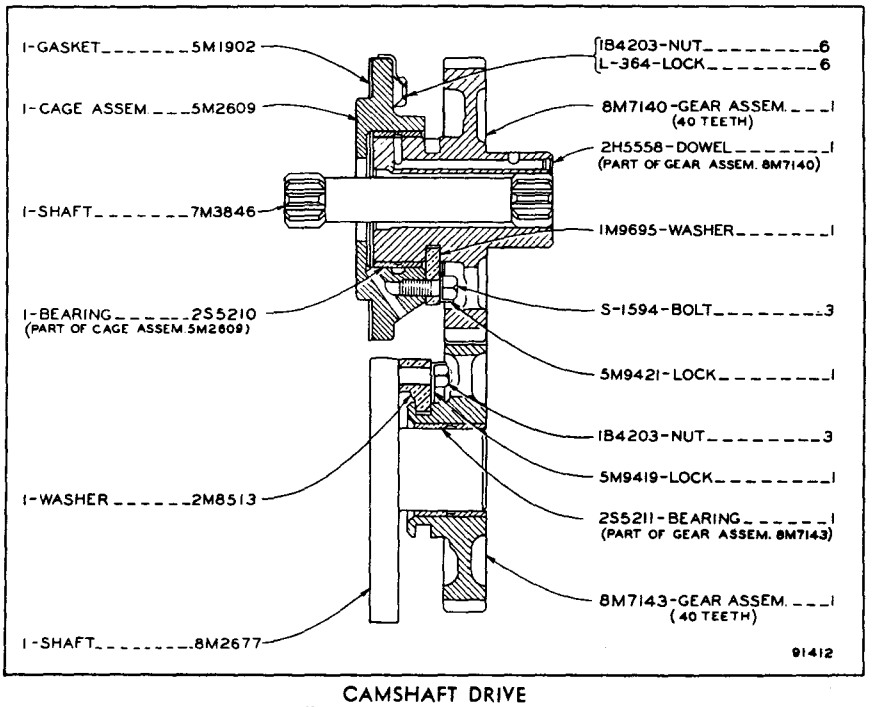
CAMSHAFT DRIVE

Serial No. 62B123 to 62B244 inclusive

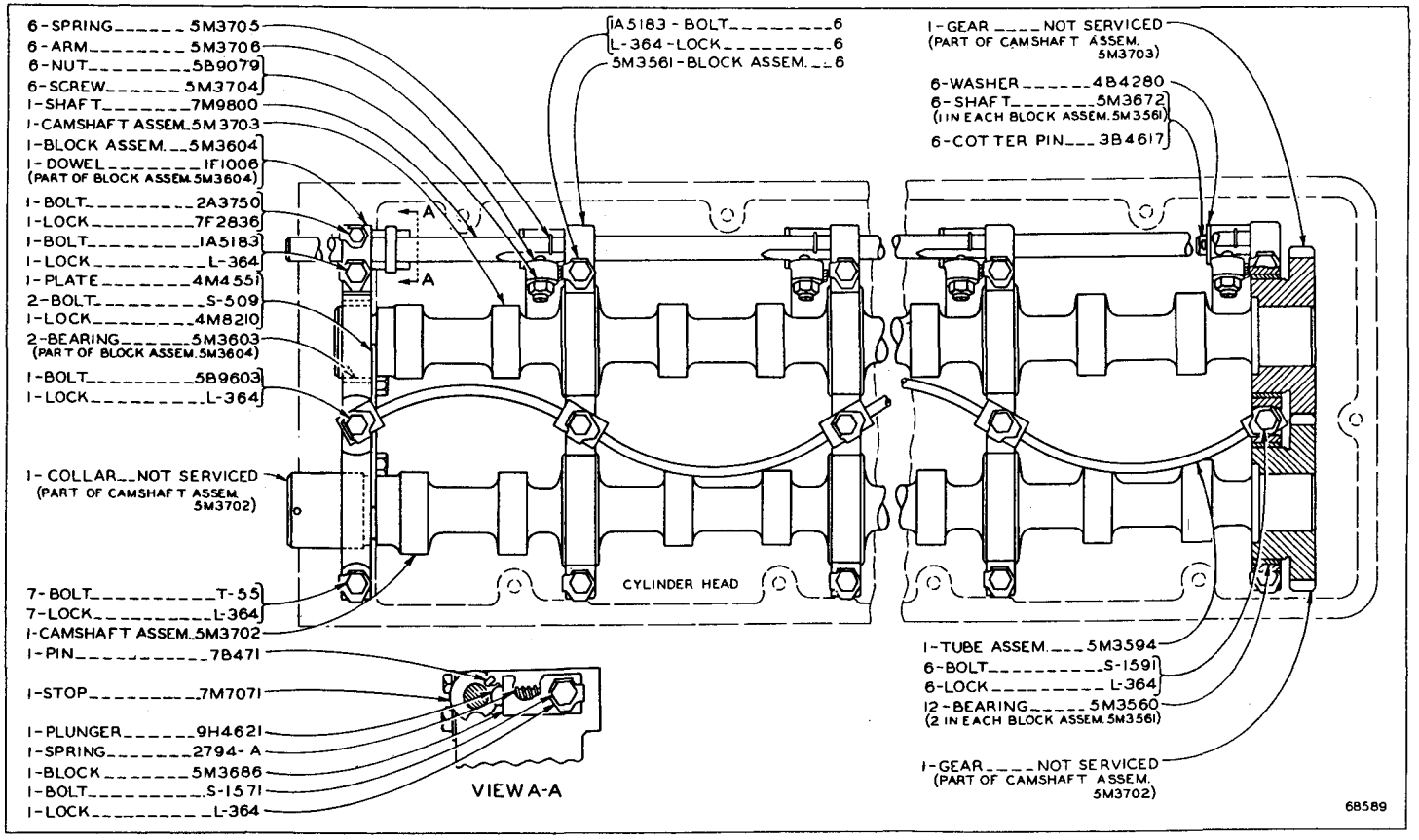
ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



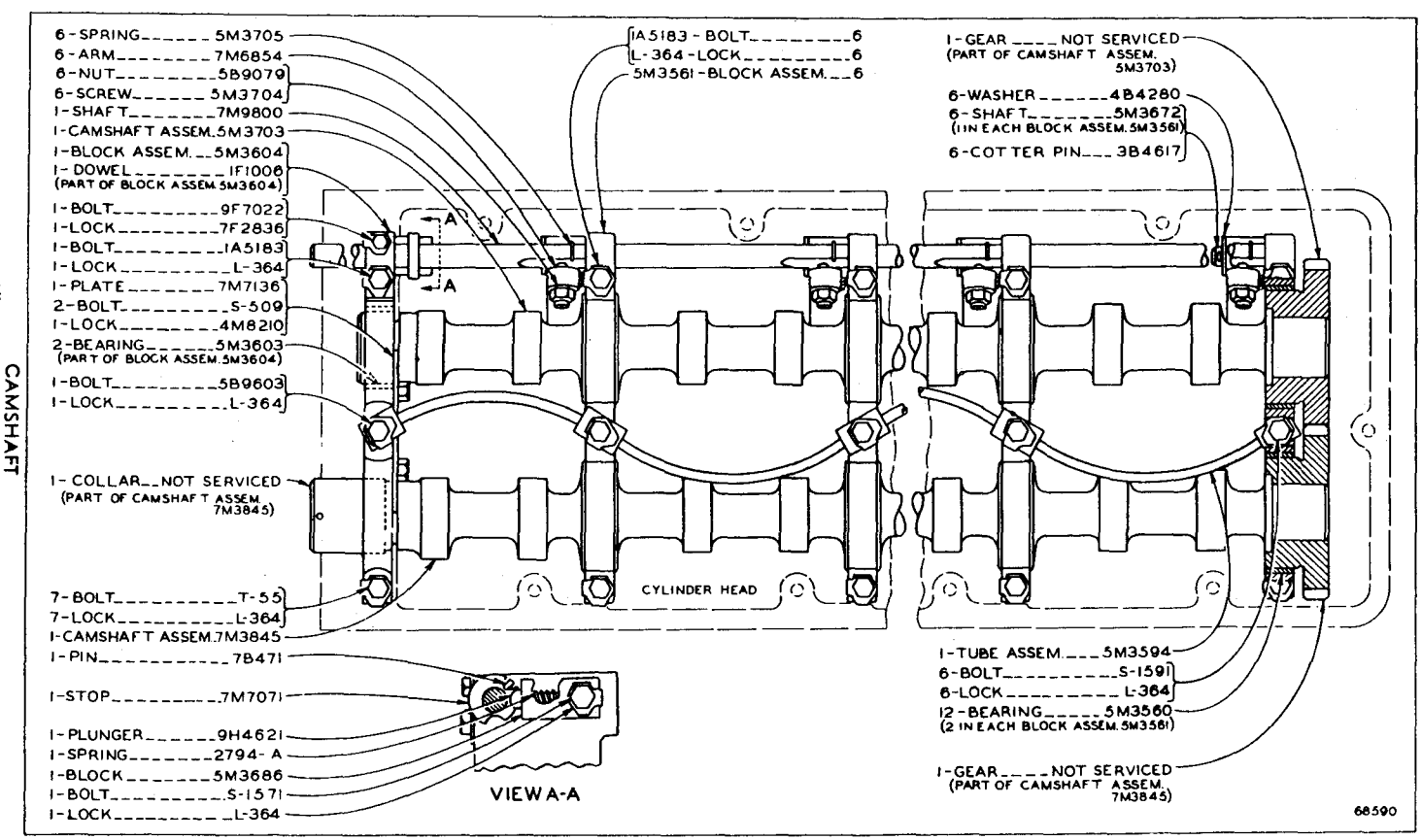
CAMSHAFT DRIVE
Serial No. 62B245 to 62B699 inclusive



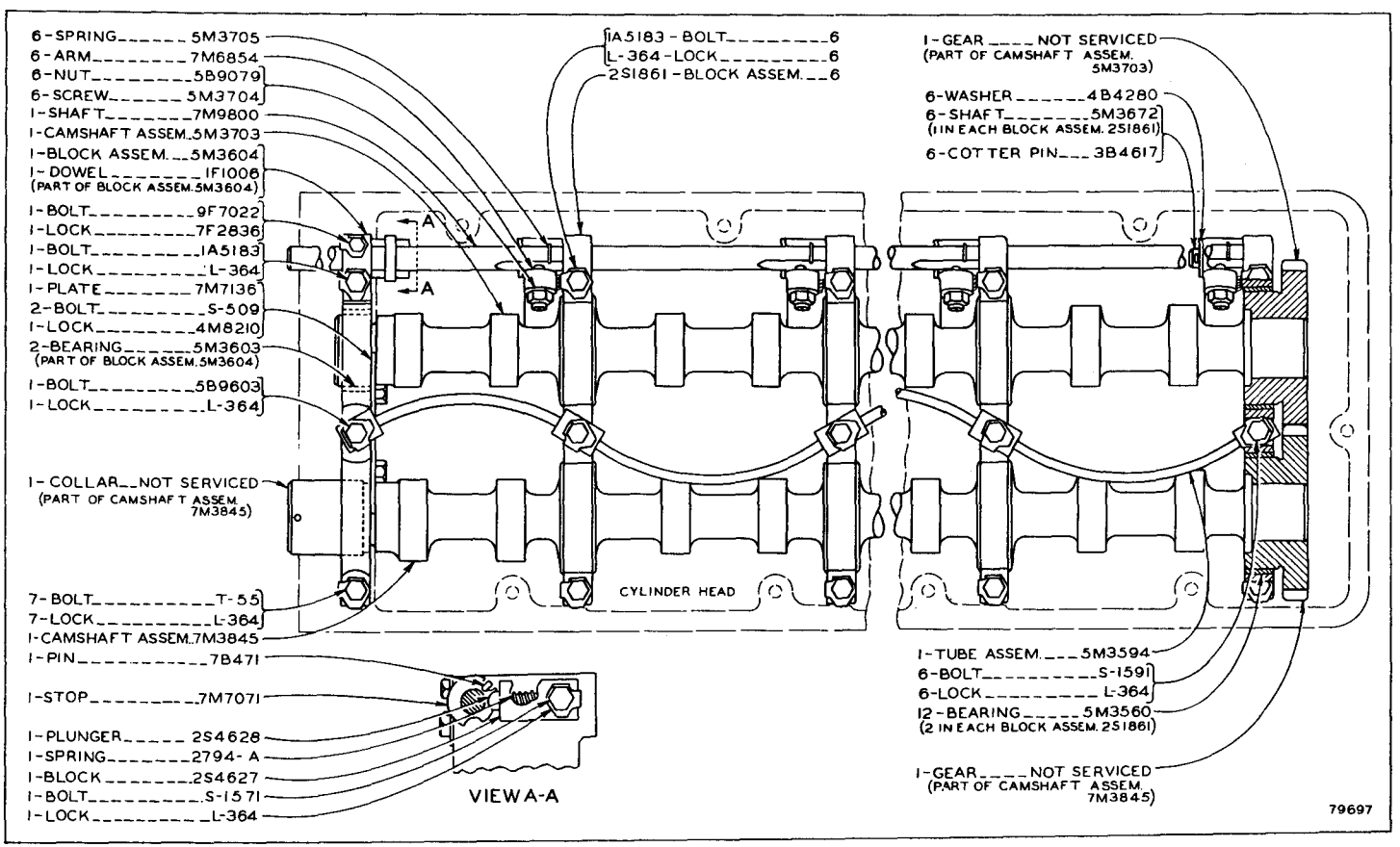
CAMSHAFT DRIVE
Effective with Serial No. 62B700



CAMSHAFT
Serial No. 62B128 to 62B244 inclusive

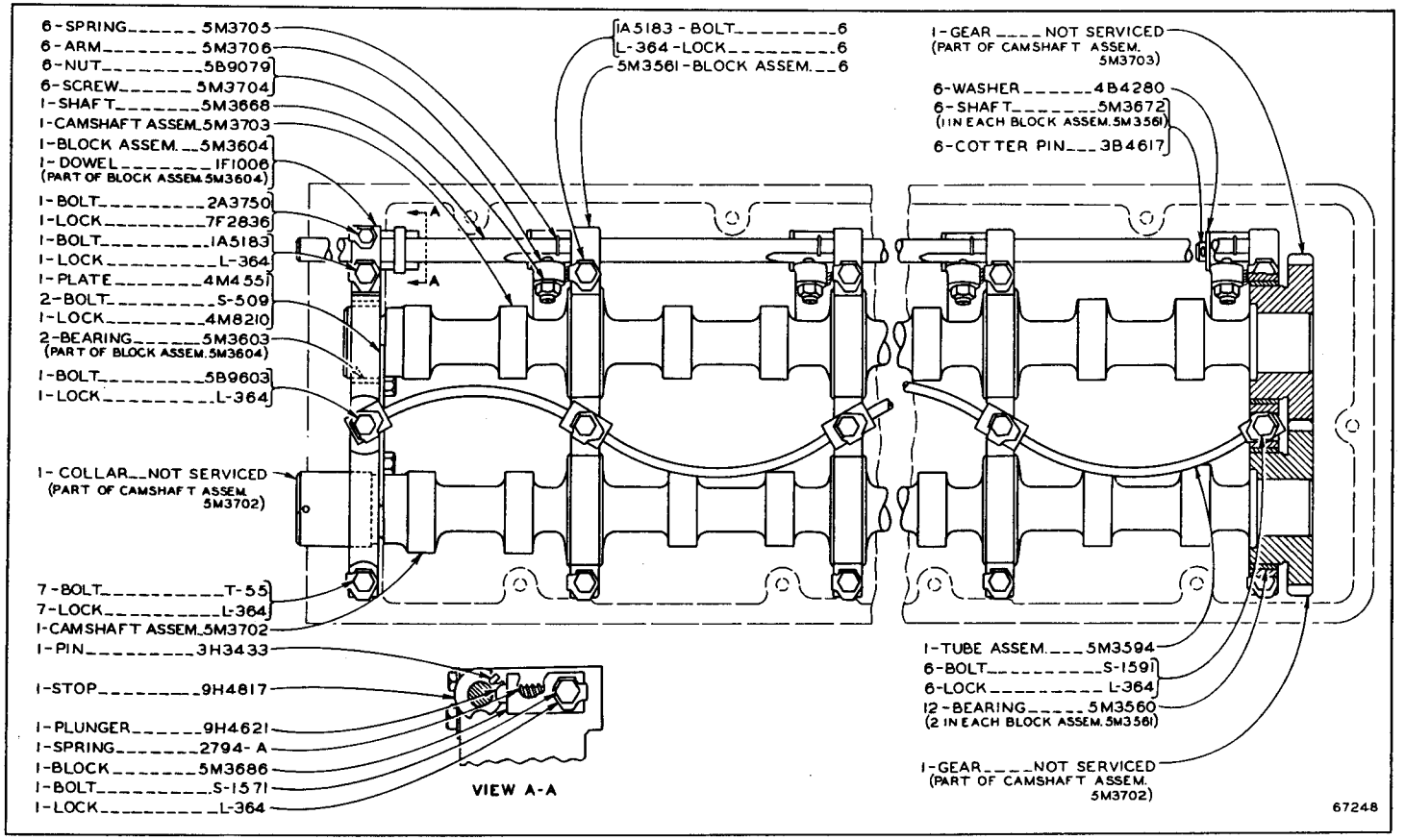


CAMSHAFT
Effective with Serial No. 62B245



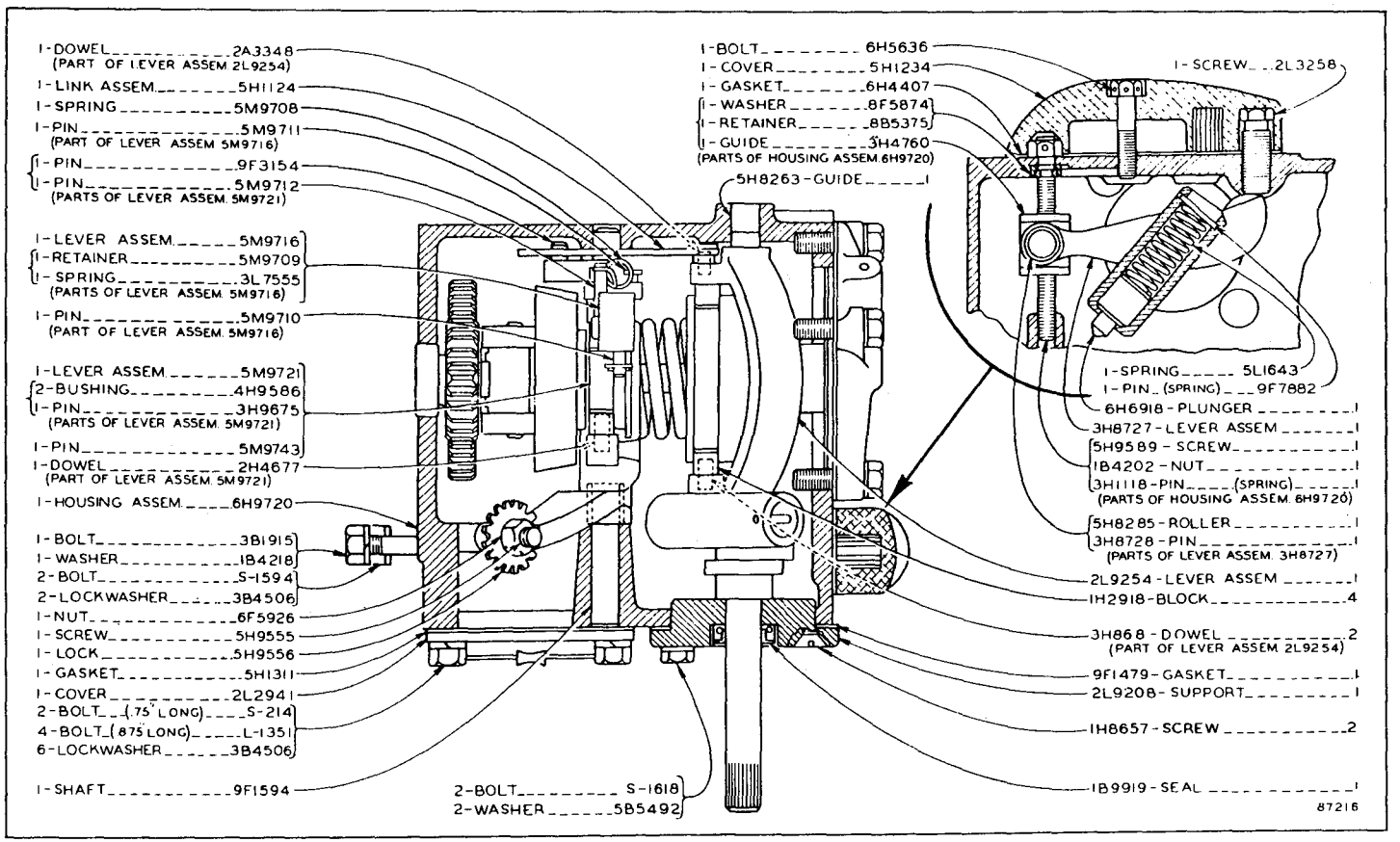
CAMSHAFT
EFFECTIVE WITH SERIAL No. 62B1922

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



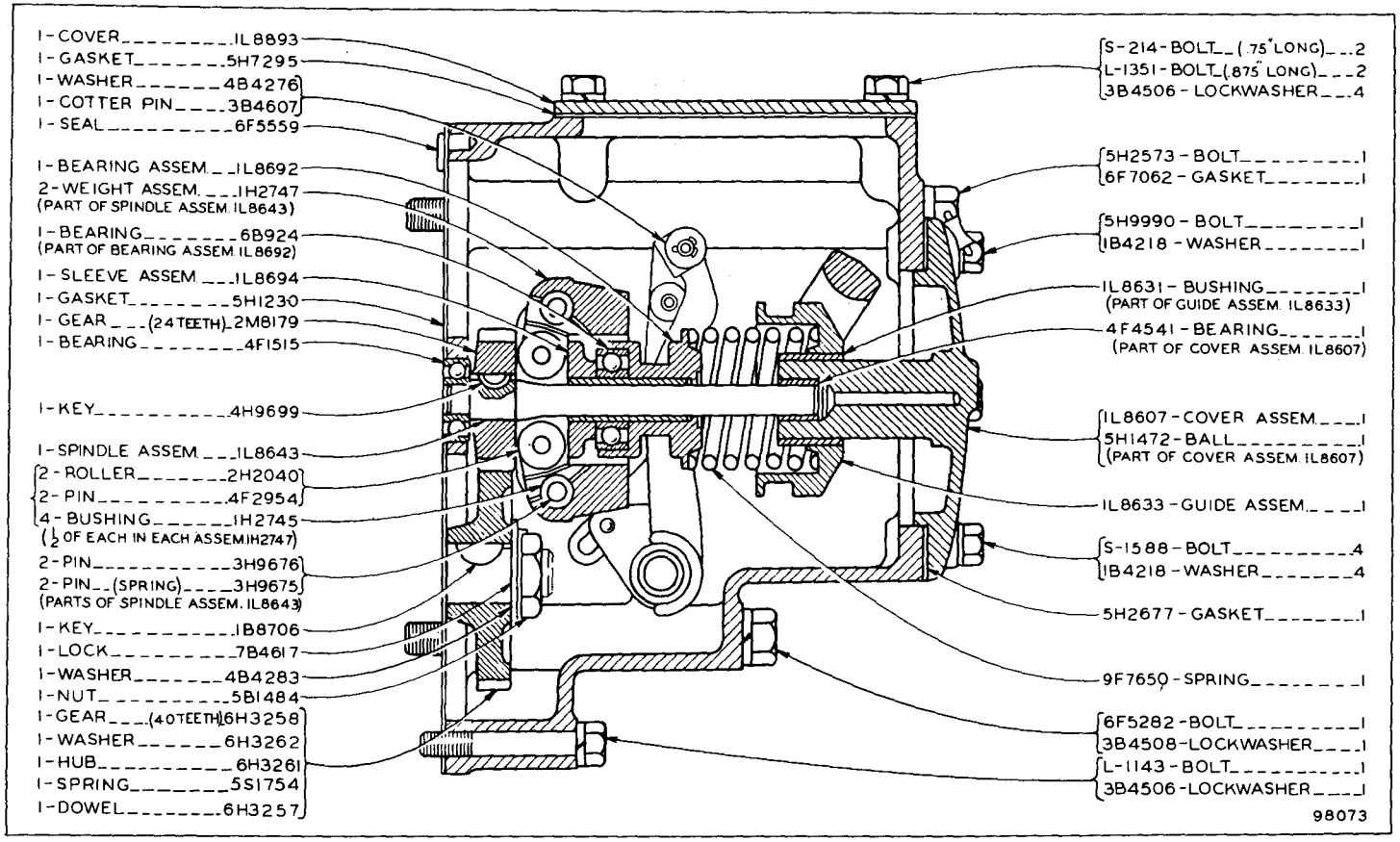
CAMSHAFT

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

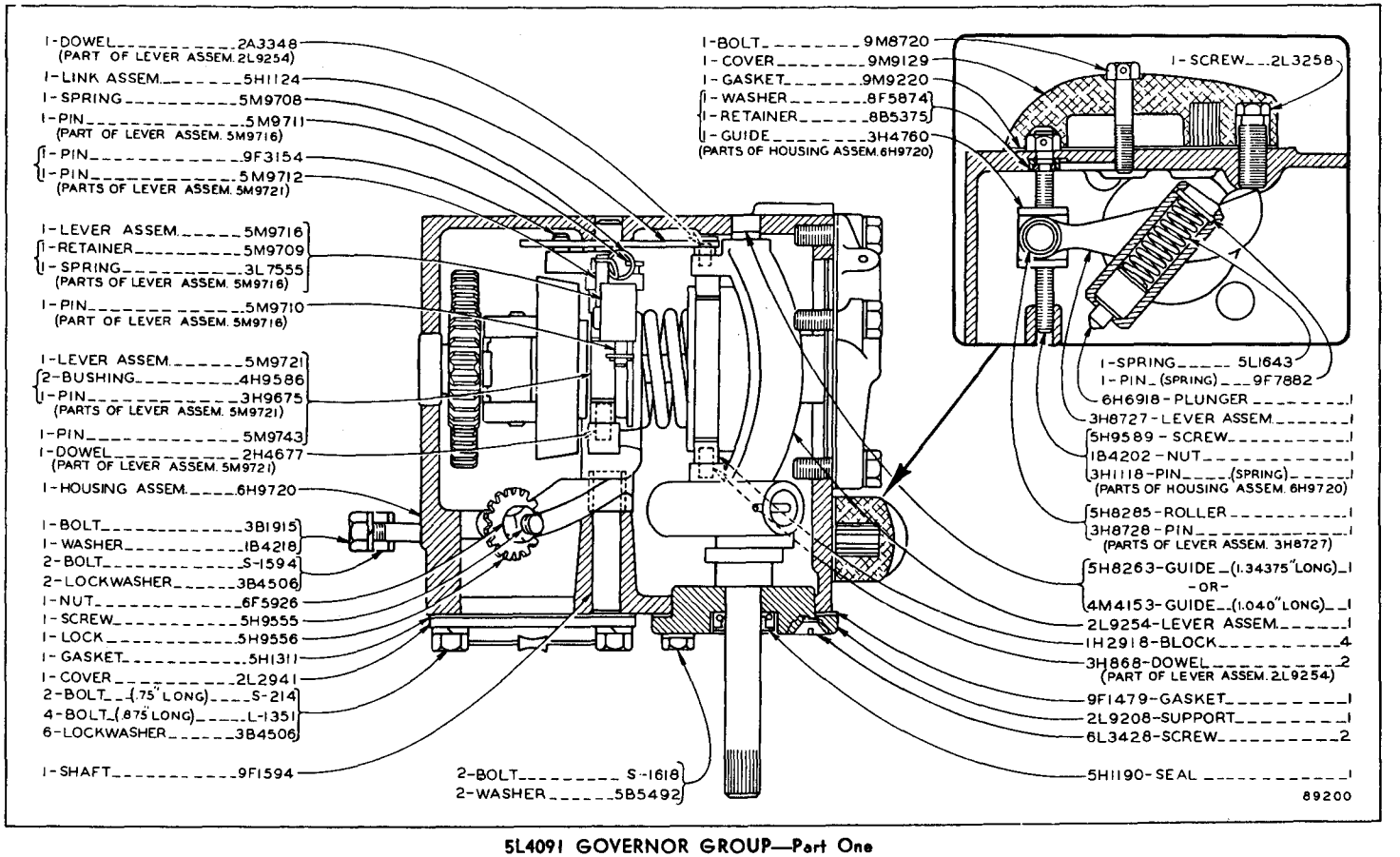


5L4091 GOVERNOR GROUP—Part One
Serial No. 62B1 to 62B1358 inclusive
Refer also to Pages 98 through 102 for special parts

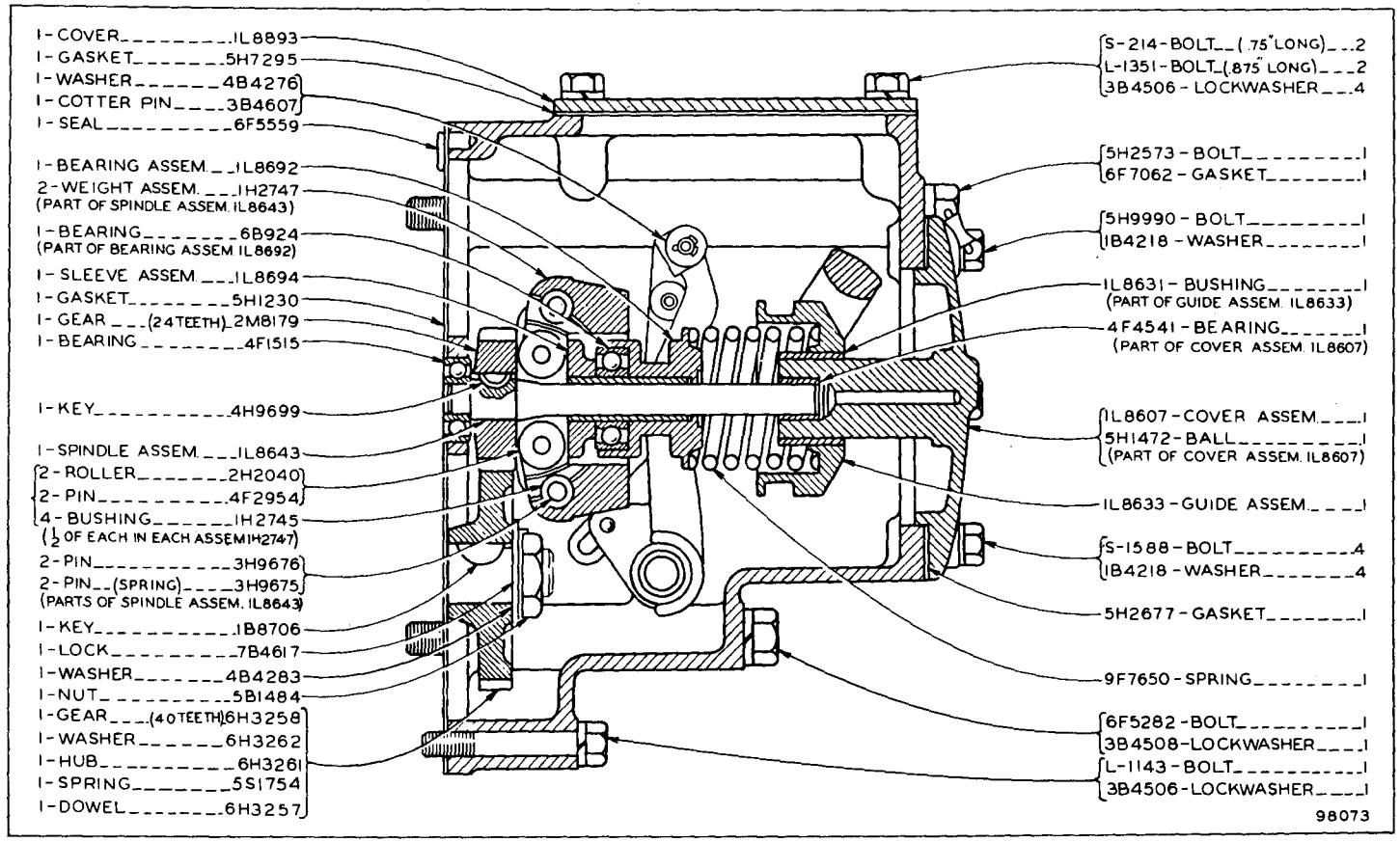
ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



5L4091 GOVERNOR GROUP--PART TWO
SERIAL No. 62B1 TO 62B1358 INCLUSIVE
REFER ALSO TO PAGES 98 THROUGH 102 FOR SPECIAL PARTS

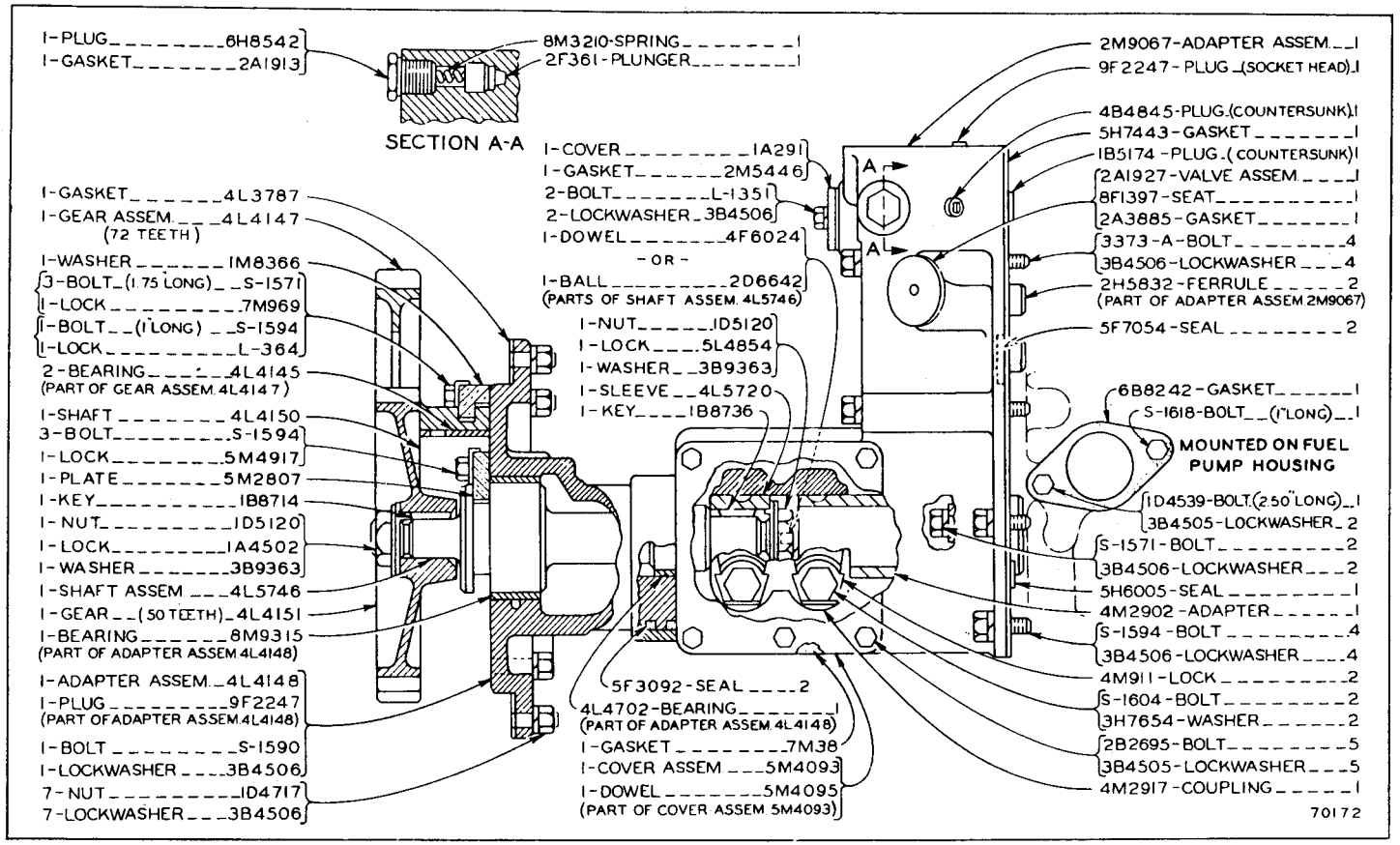


5L4091 GOVERNOR GROUP—Part One
Effective with Serial No. 62B1359

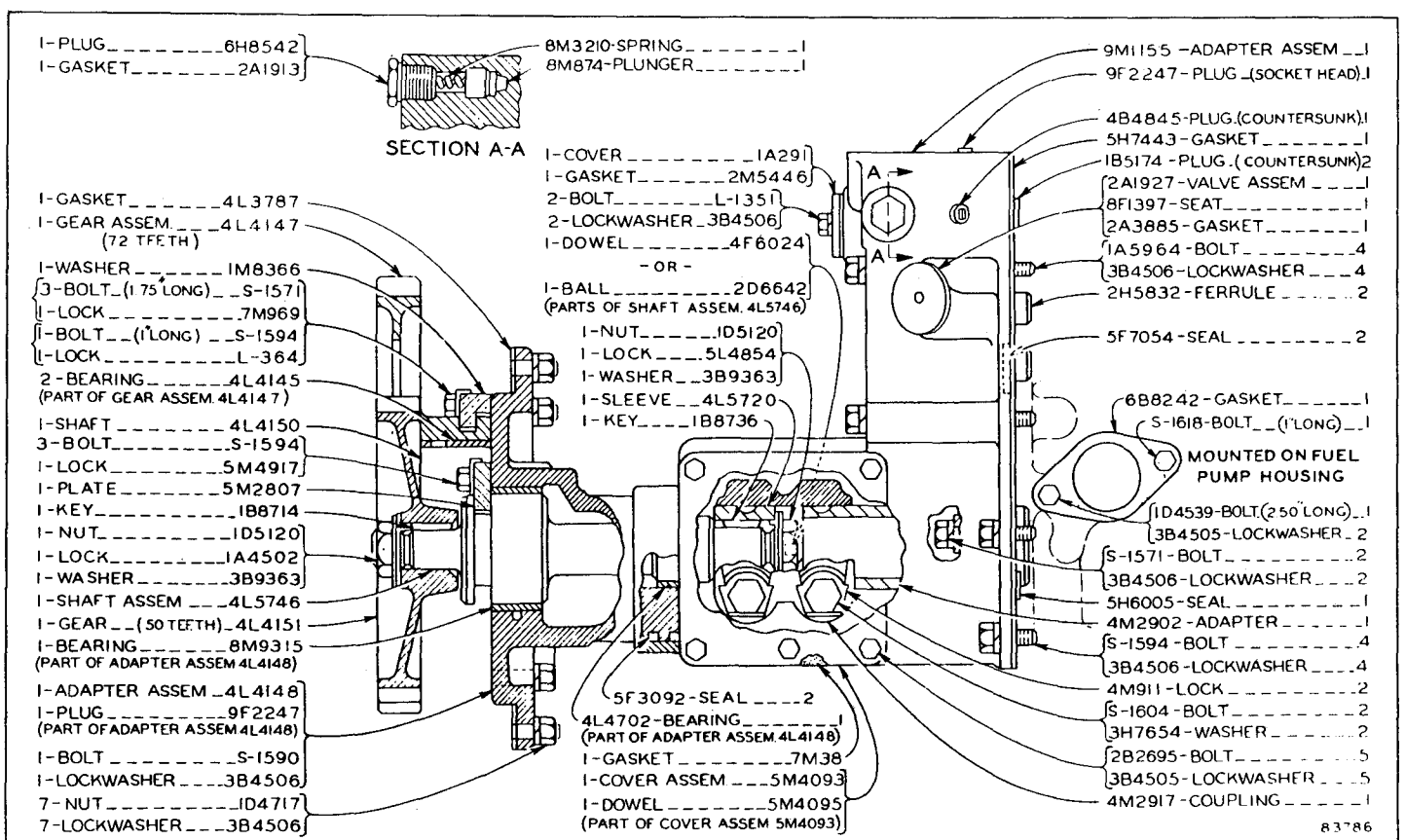


5L4091 GOVERNOR GROUP--PART TWO
EFFECTIVE WITH SERIAL No. 62B1359
REFER ALSO TO PAGES 98 THROUGH 102 FOR SPECIAL PARTS

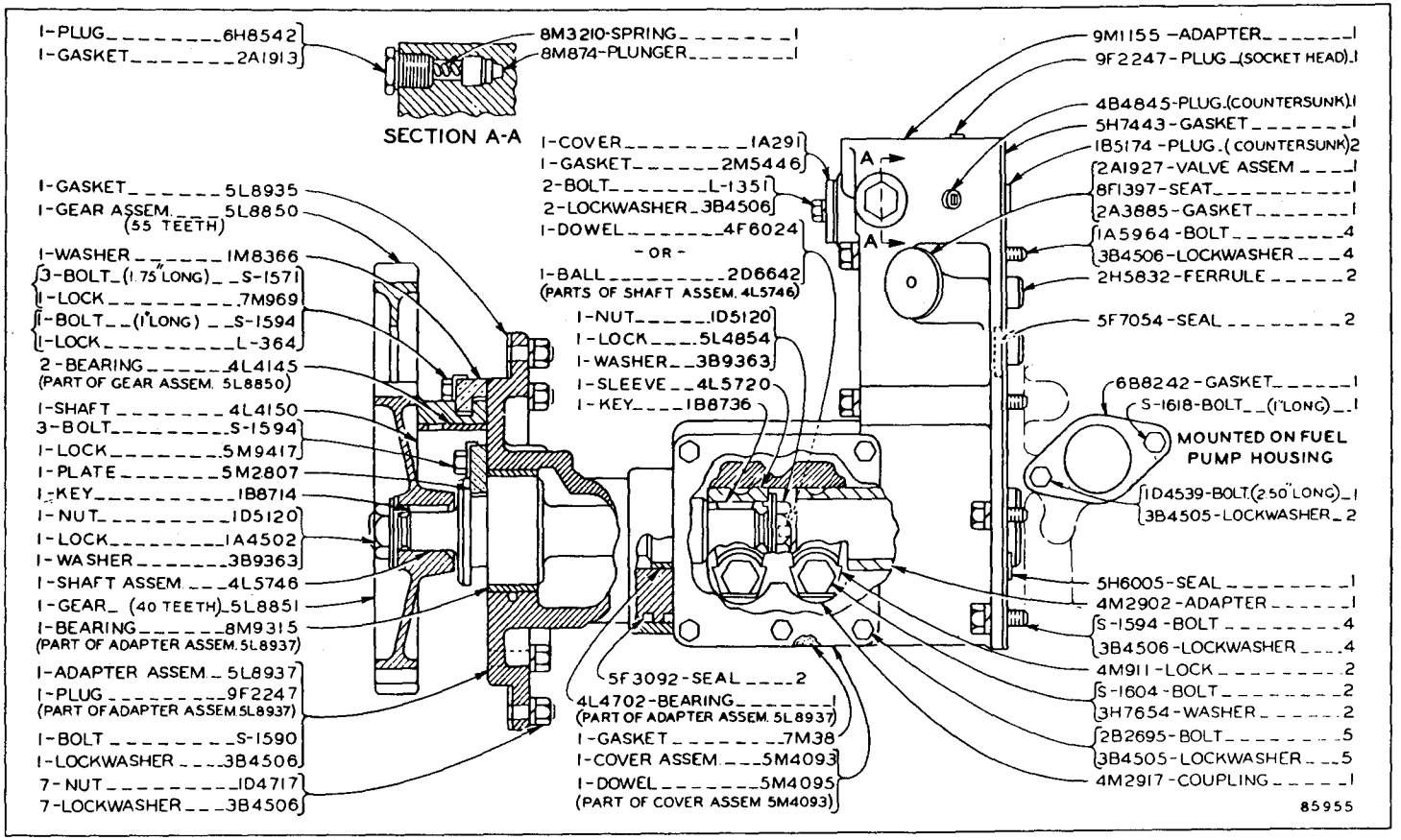
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



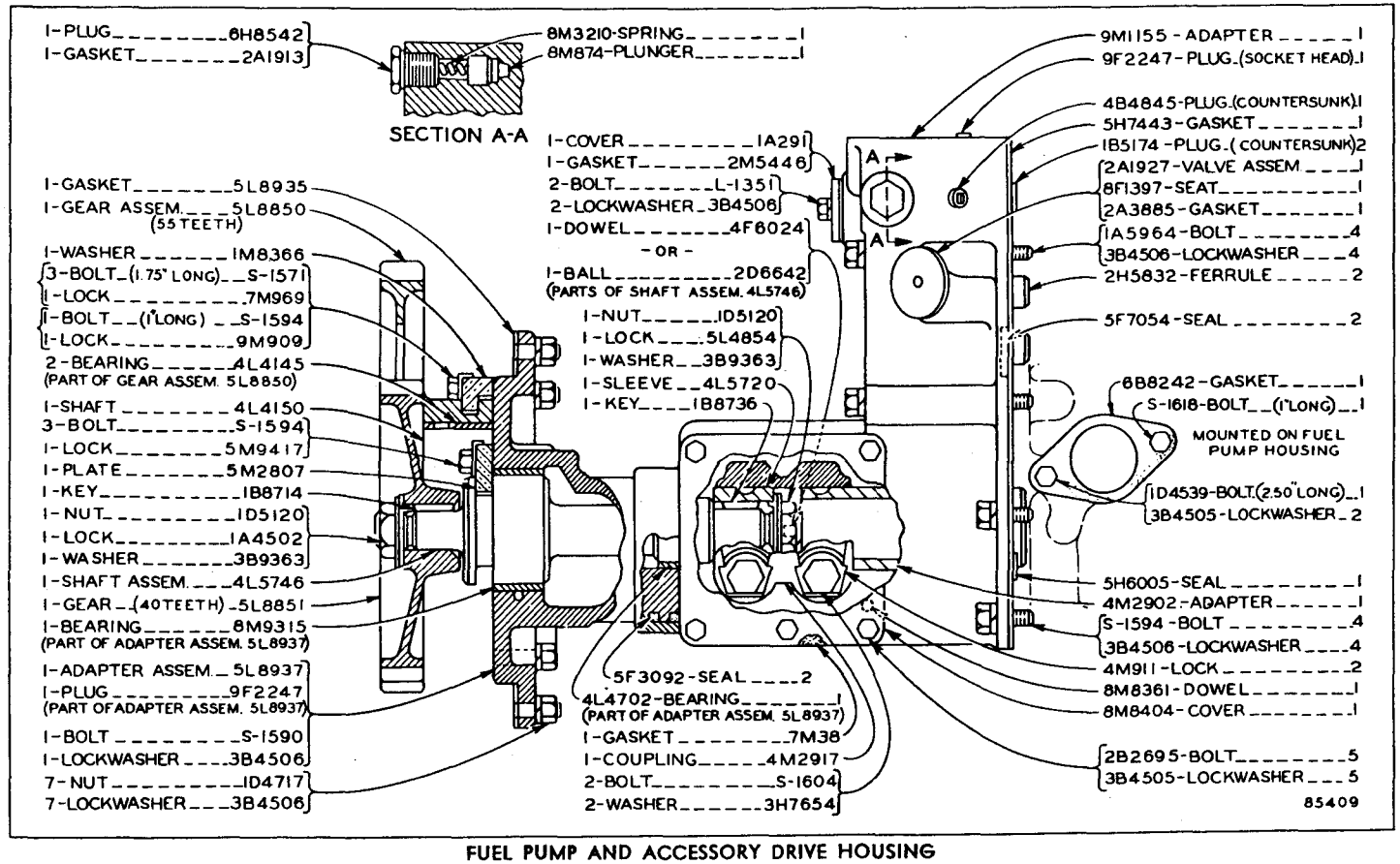
FUEL PUMP AND ACCESSORY DRIVE HOUSING



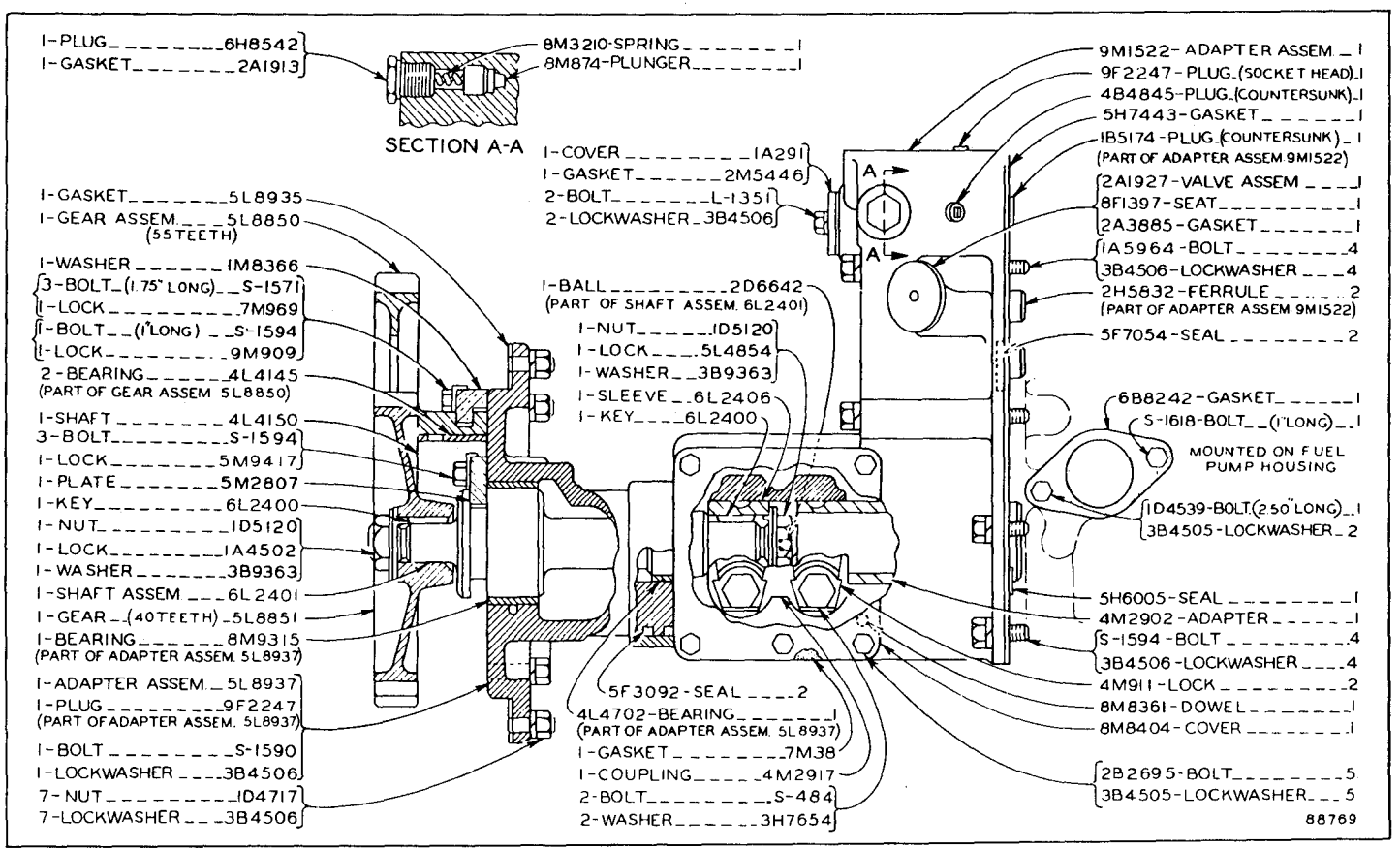
FUEL PUMP AND ACCESSORY DRIVE HOUSING
Serial No. 62B600 to 62B699 inclusive



FUEL PUMP AND ACCESSORY DRIVE HOUSING
Serial No. 62B700 to 62B908 inclusive

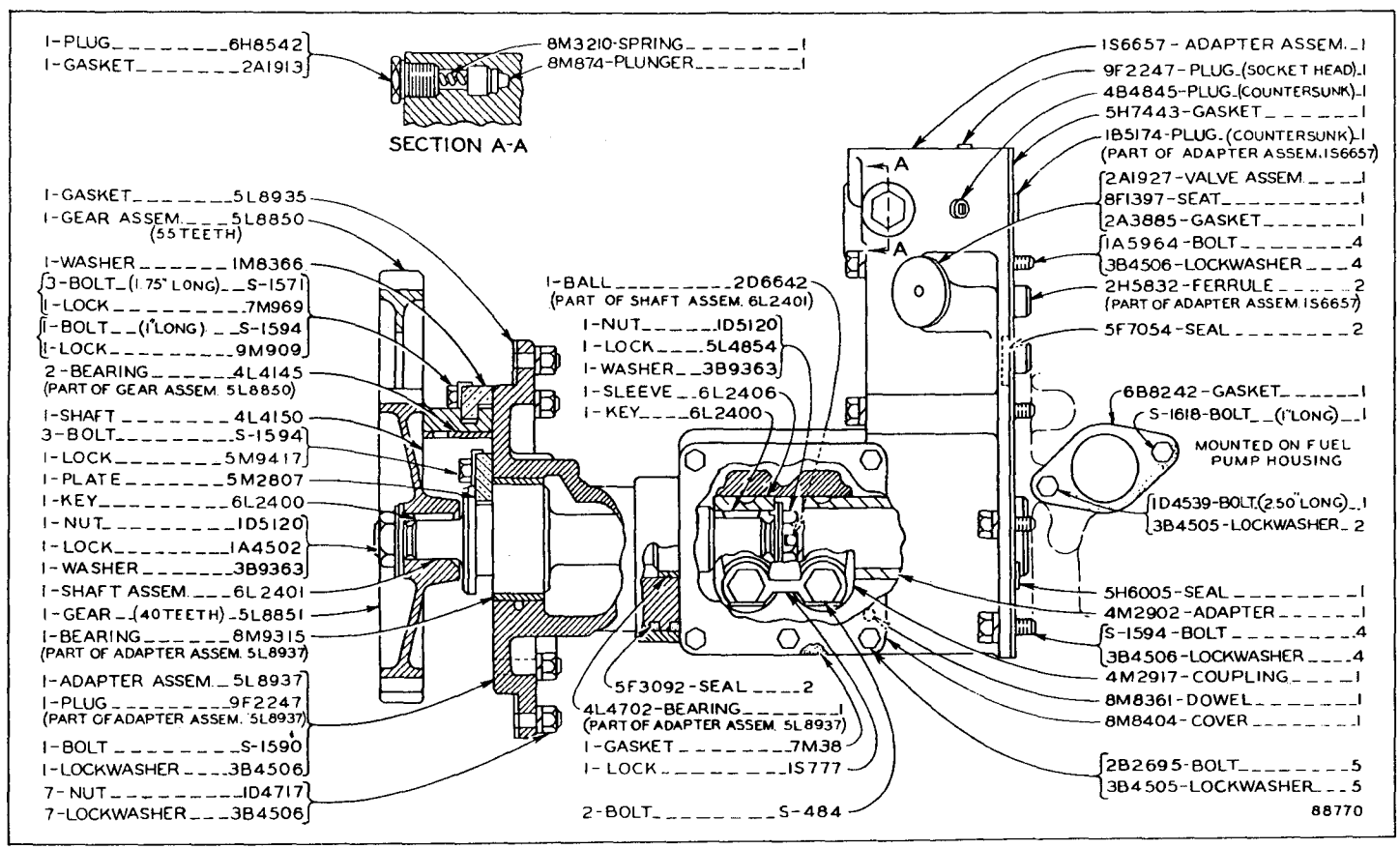


FUEL PUMP AND ACCESSORY DRIVE HOUSING
Serial No. 62B909 to 62B1014 inclusive



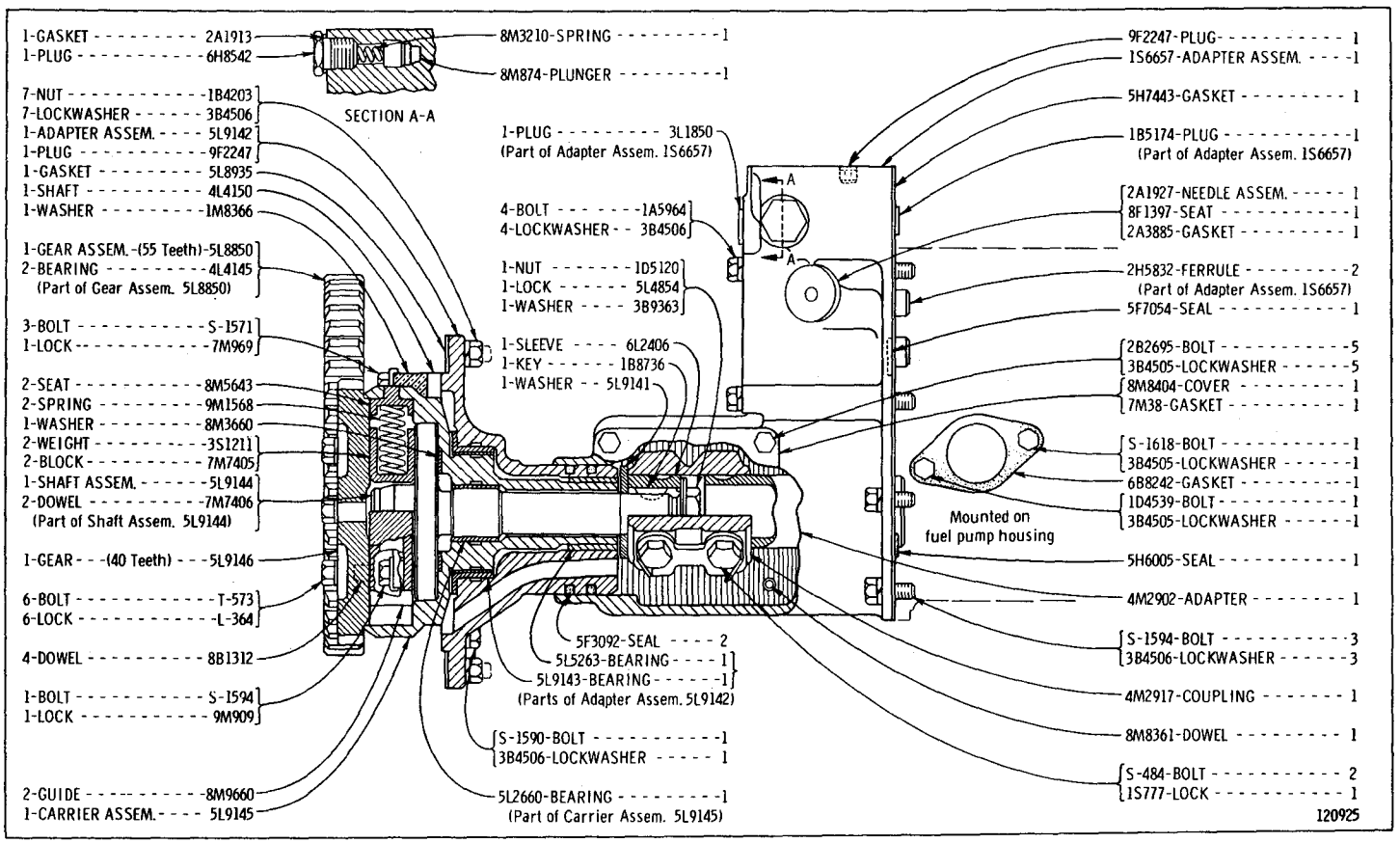
FUEL PUMP AND ACCESSORY DRIVE HOUSING

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

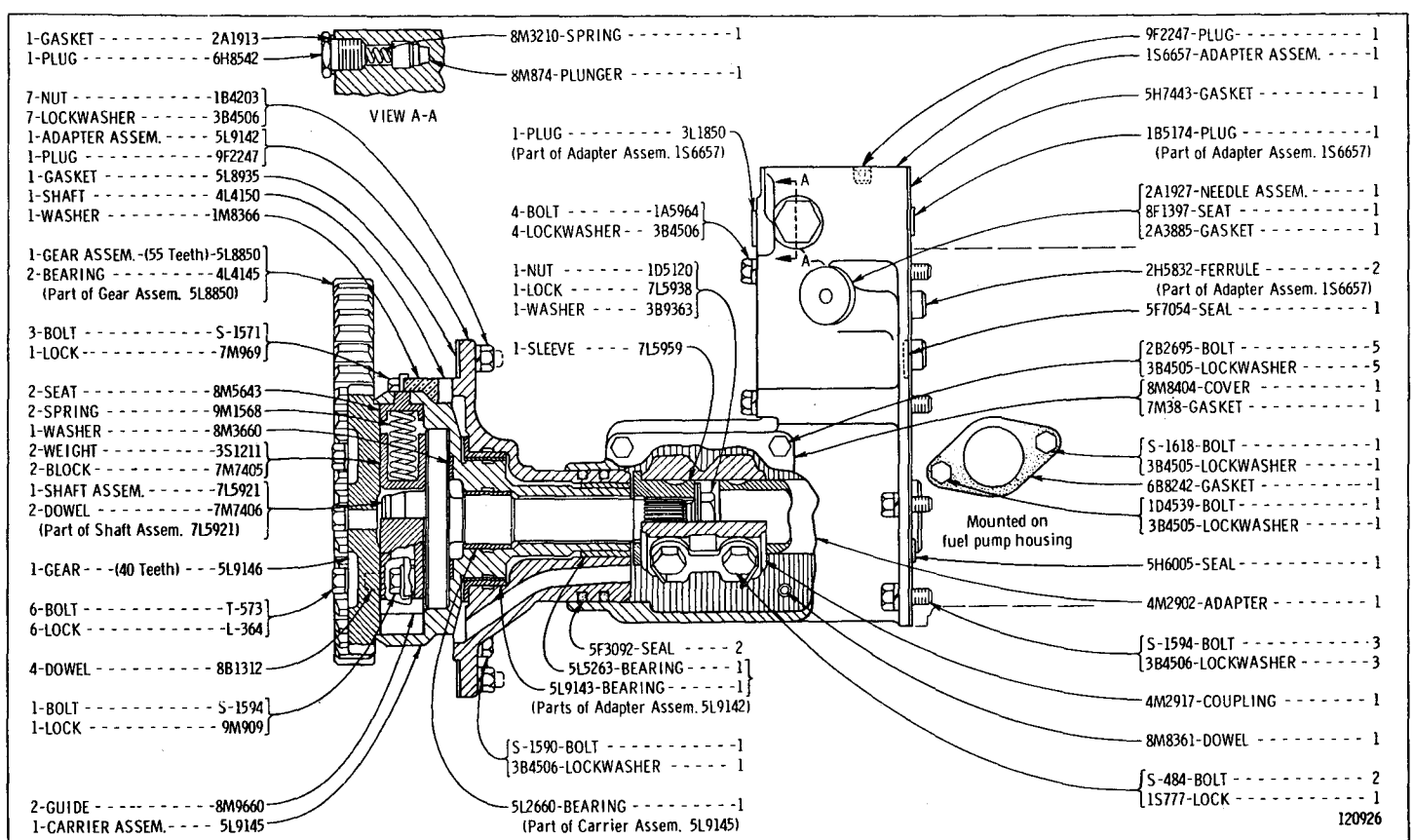


FUEL PUMP AND ACCESSORY DRIVE HOUSING
Effective with Serial No. 62B1550

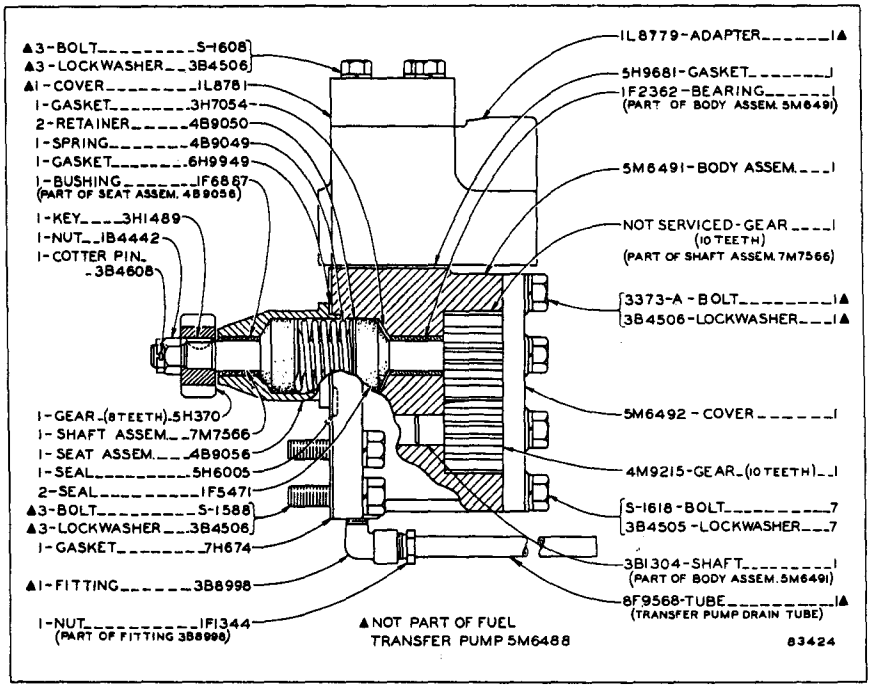
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



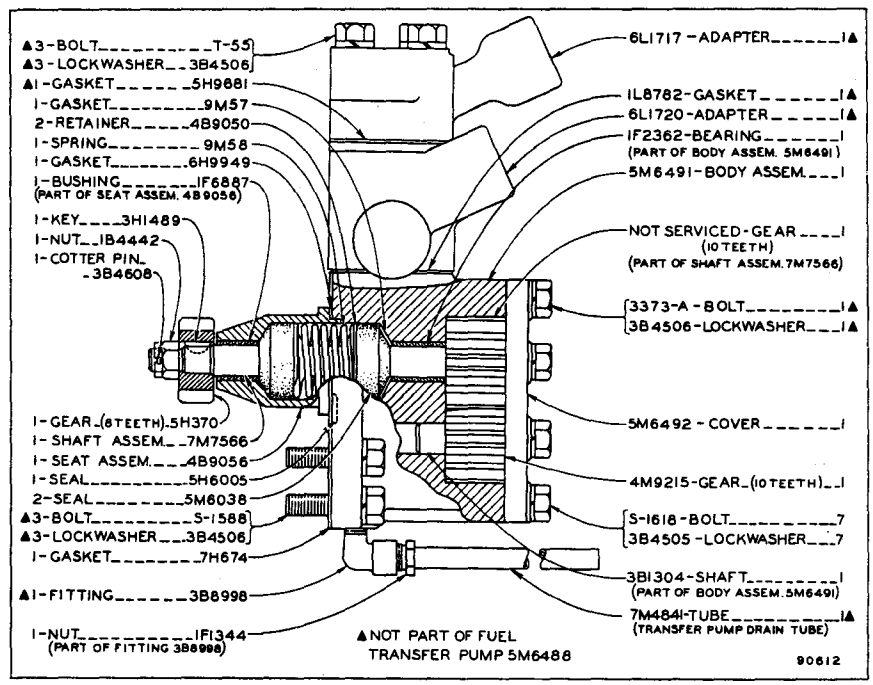
AUTOMATIC TIMING ADVANCE DRIVE



AUTOMATIC LINING ADVANCE DRIVE
EFFECTIVE WITH SERIAL No. 62B4228

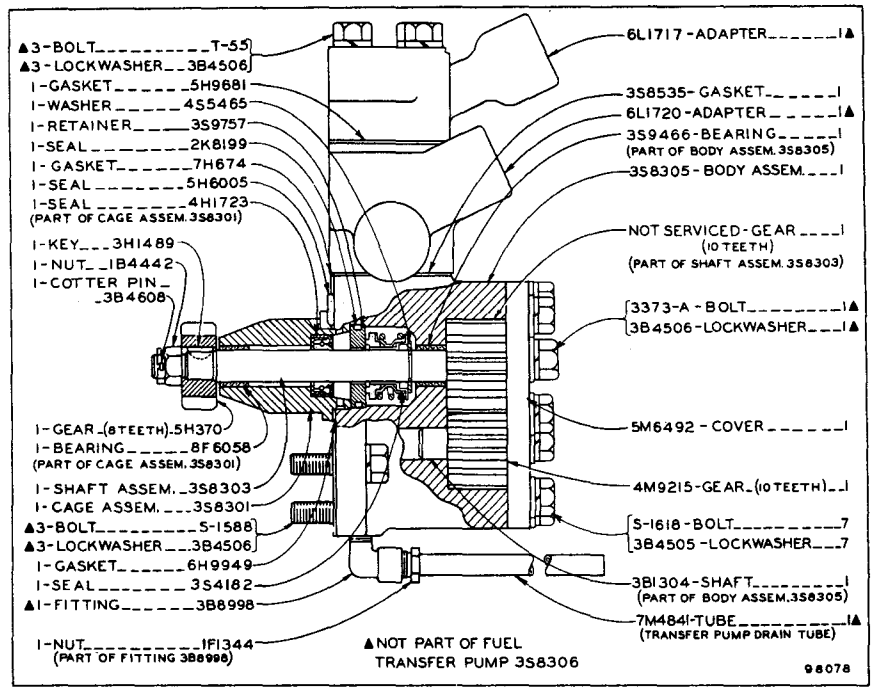


5M6488 FUEL TRANSFER PUMP GROUP
SERIAL NO. 62B1 TO 62B1014 INCLUSIVE

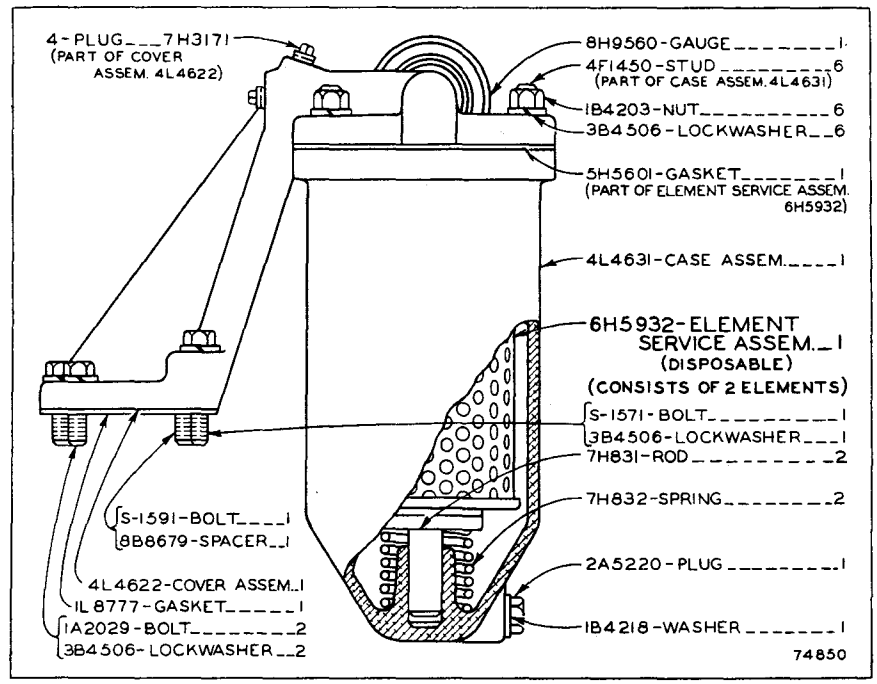


5M6488 FUEL TRANSFER PUMP GROUP
SERIAL NO. 62B1015 TO 62B3682 INCLUSIVE

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

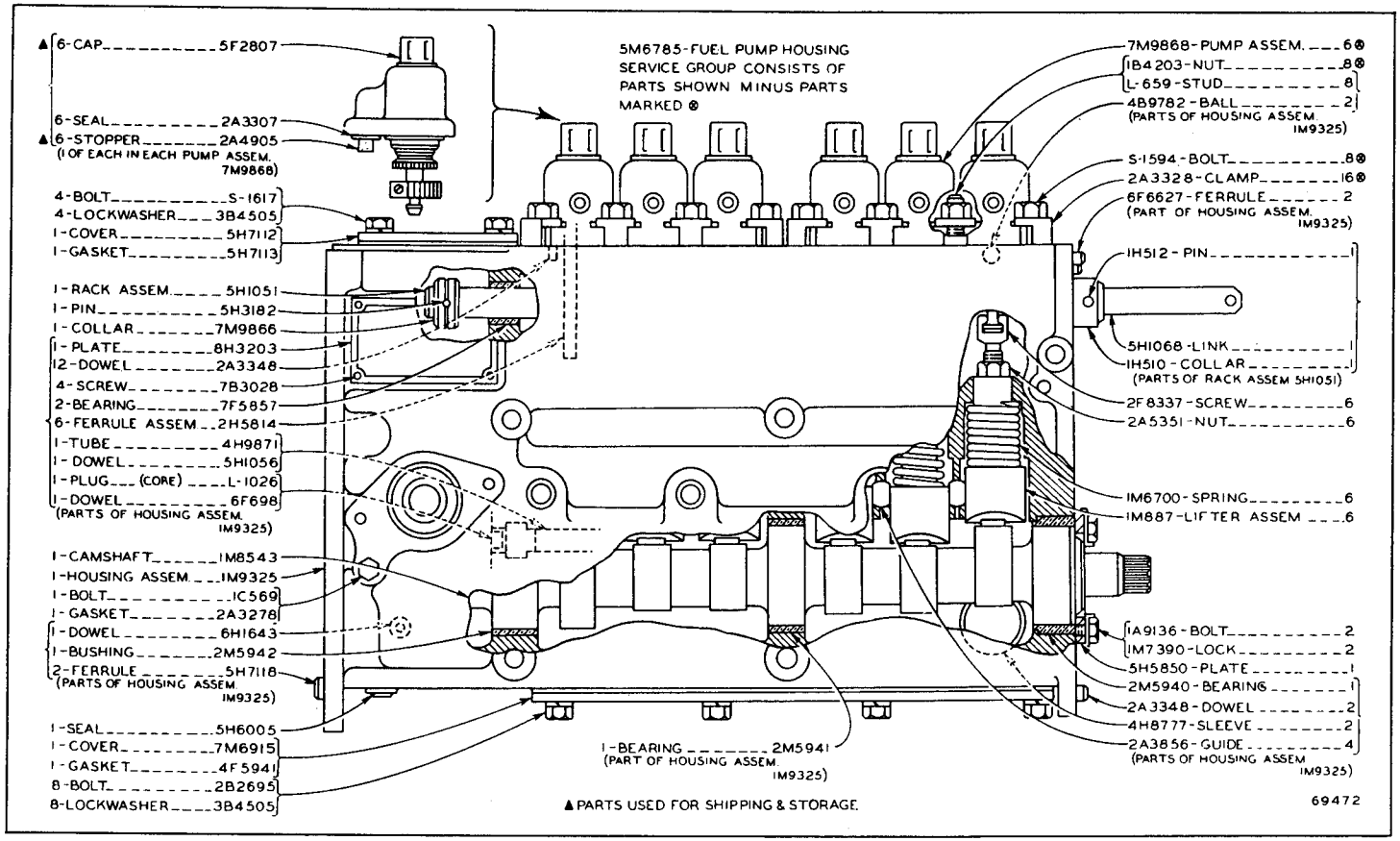


3S8306 FUEL TRANSFER PUMP GROUP
EFFECTIVE WITH SERIAL No. 62B3683

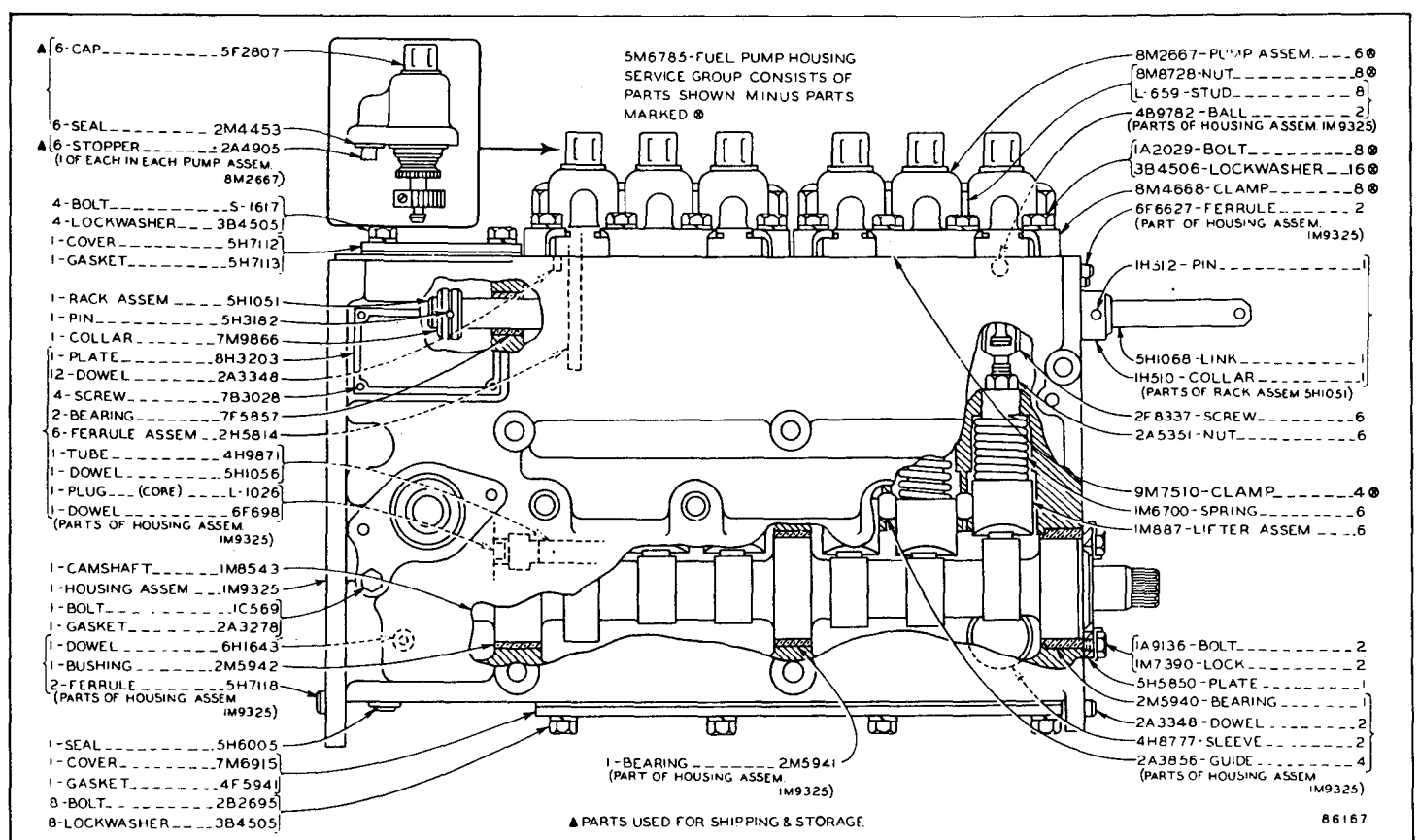


FUEL FILTER

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

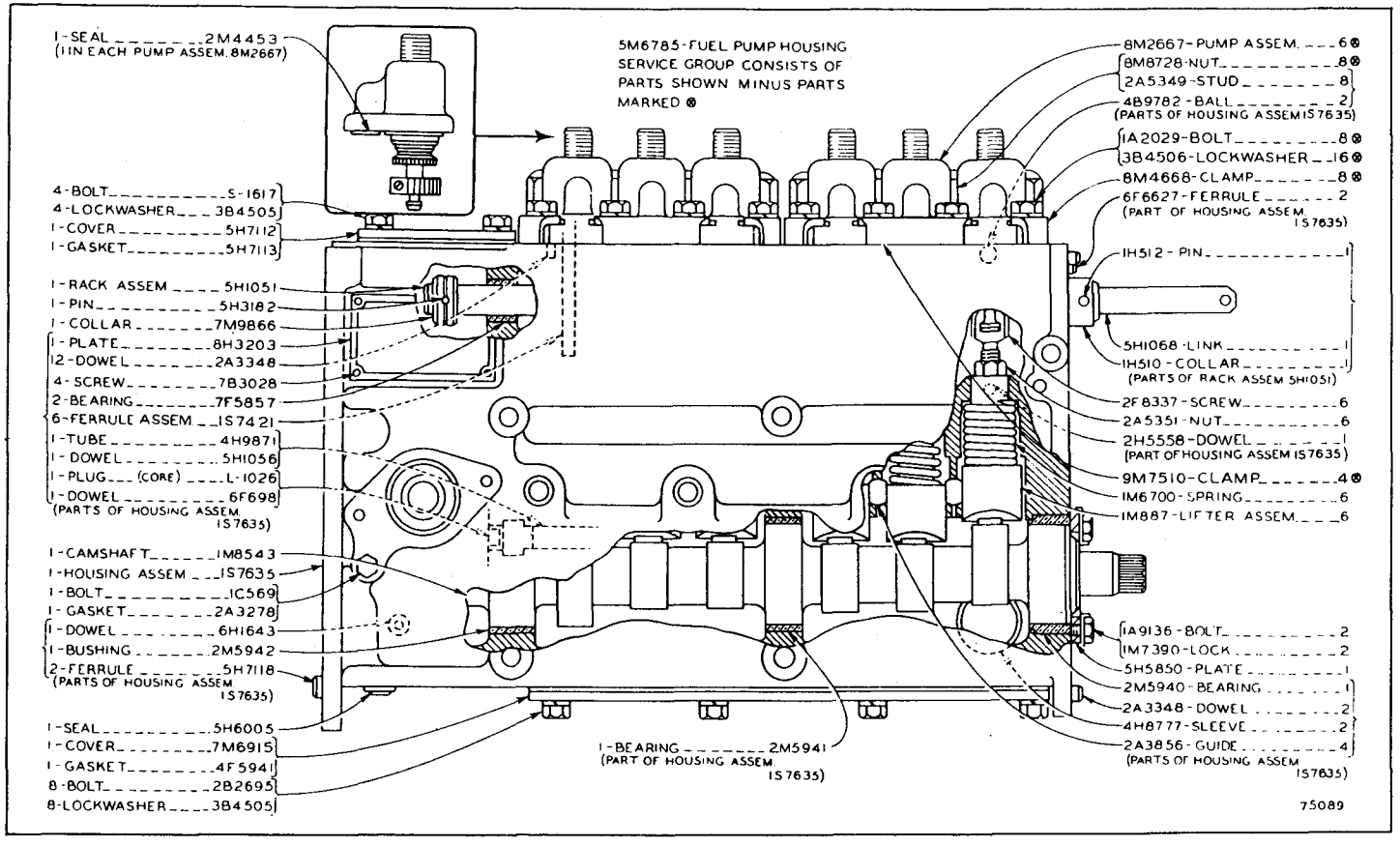


FUEL PUMP HOUSING

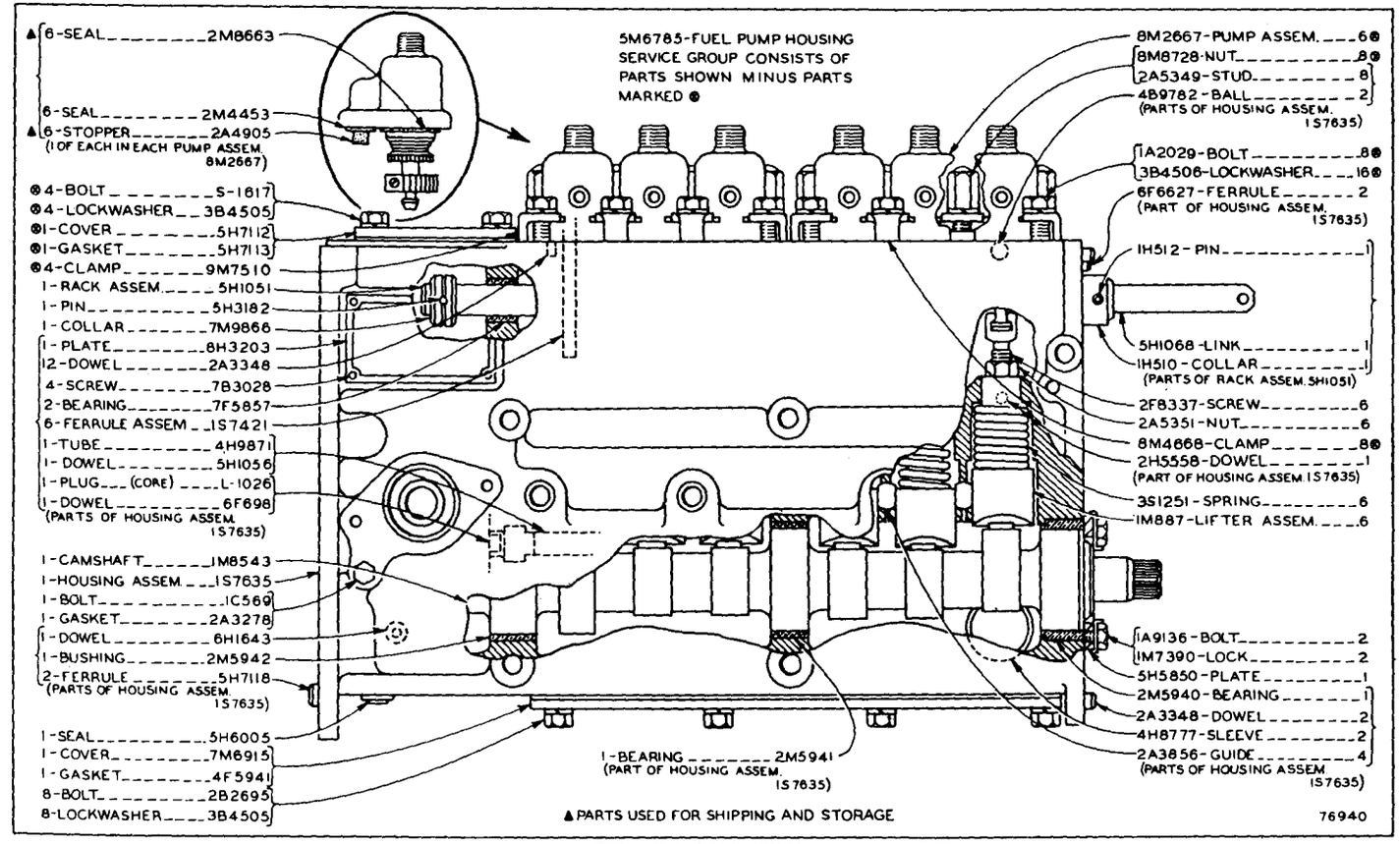


FUEL PUMP HOUSING
Serial No. 62B495 to 62B659 inclusive

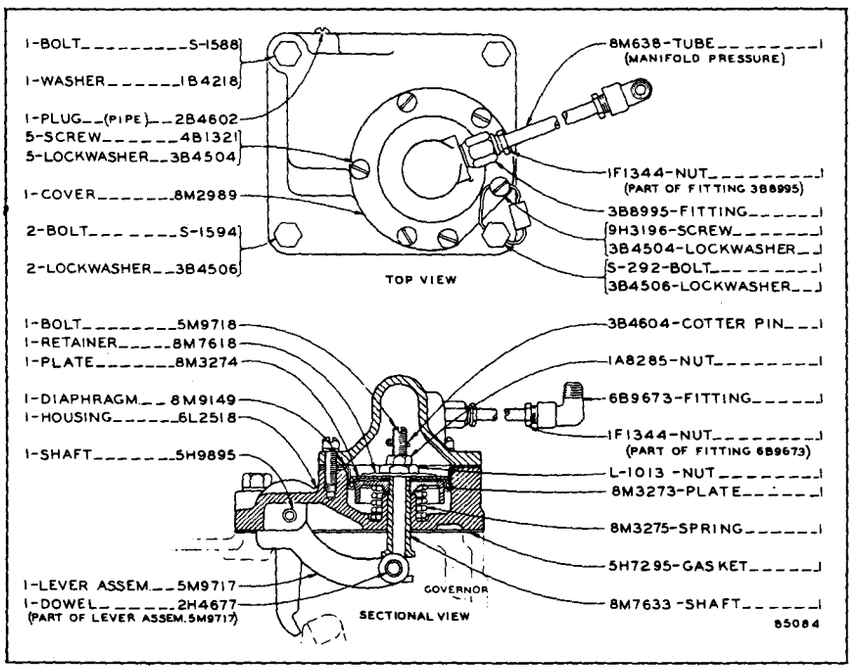
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



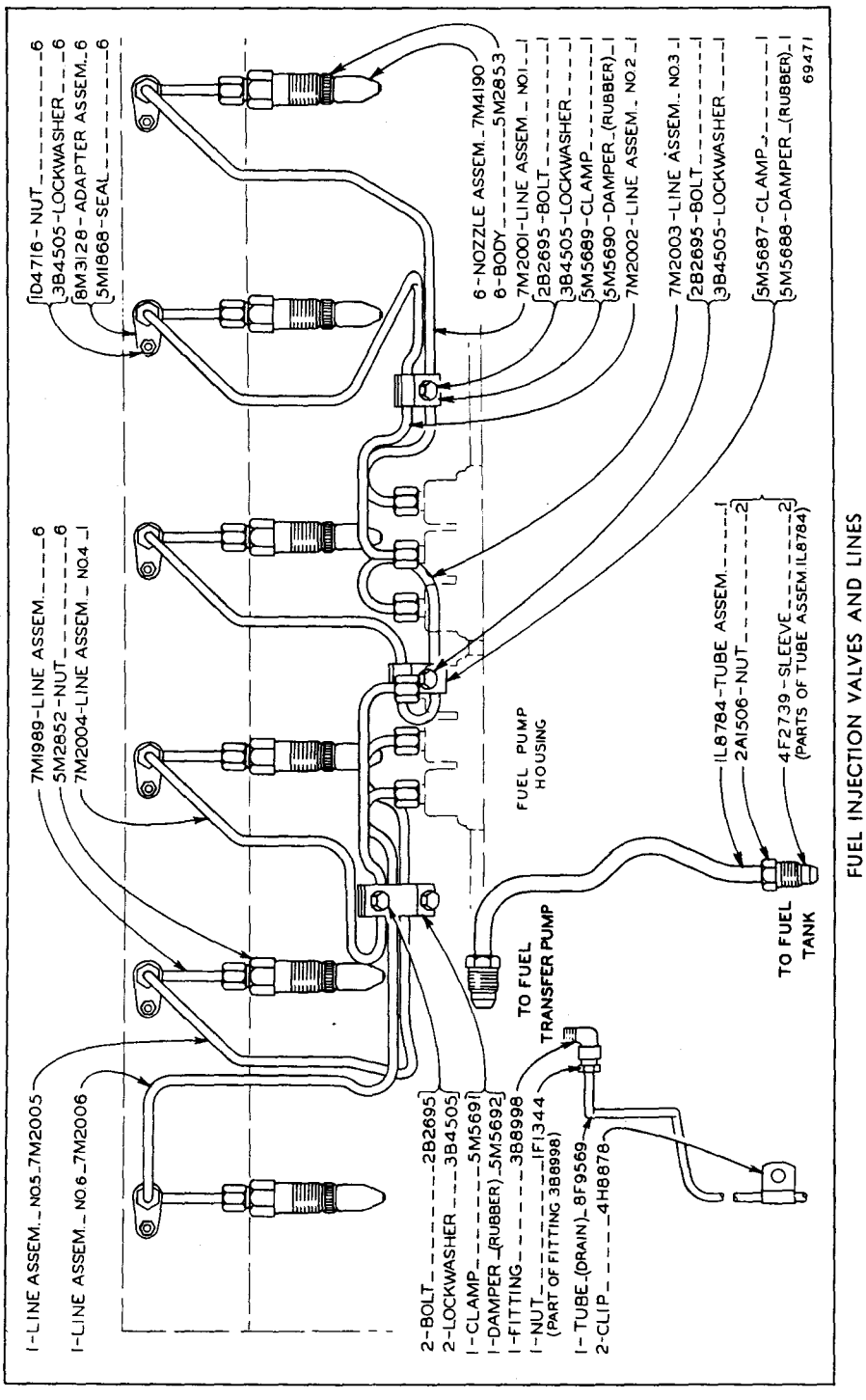
FUEL PUMP HOUSING
Effective with Serial No. 62B660



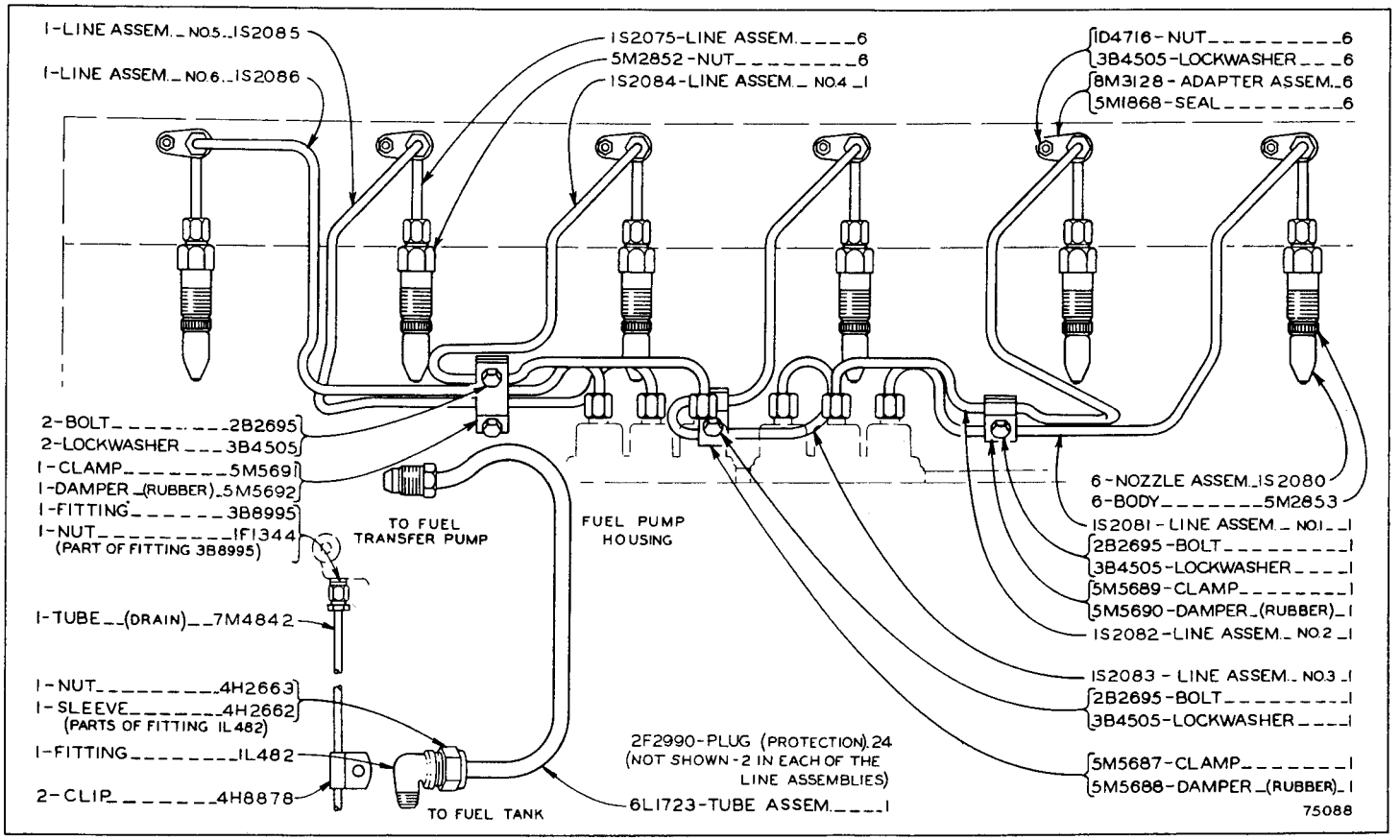
FUEL PUMP HOUSING
Effective with Serial No. 62B1869



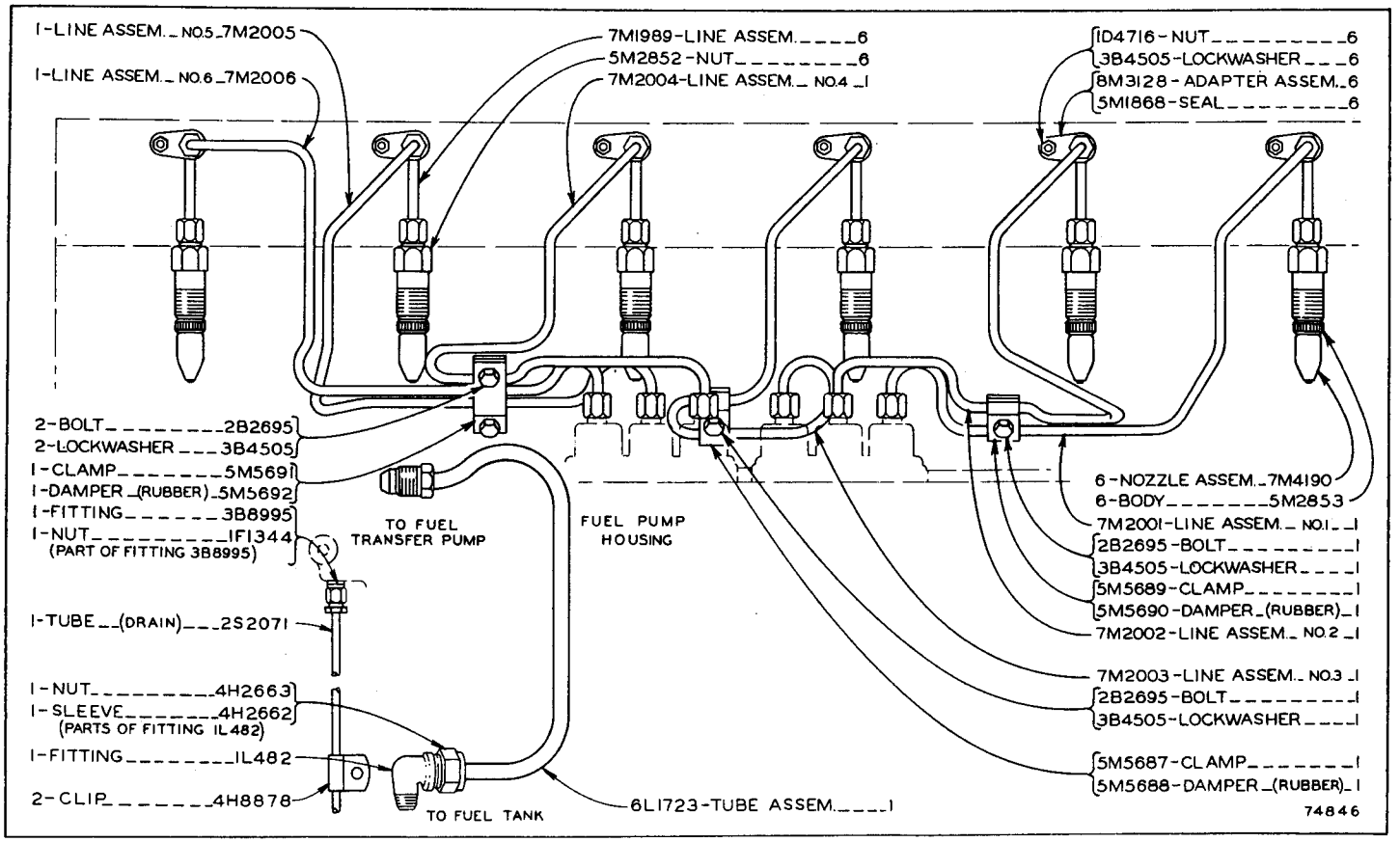
5L5508 FUEL RATIO CONTROL GROUP
AN ATTACHMENT



FUEL INJECTION VALVES AND LINES
Serial No. 62B1 to 62B1014 inclusive

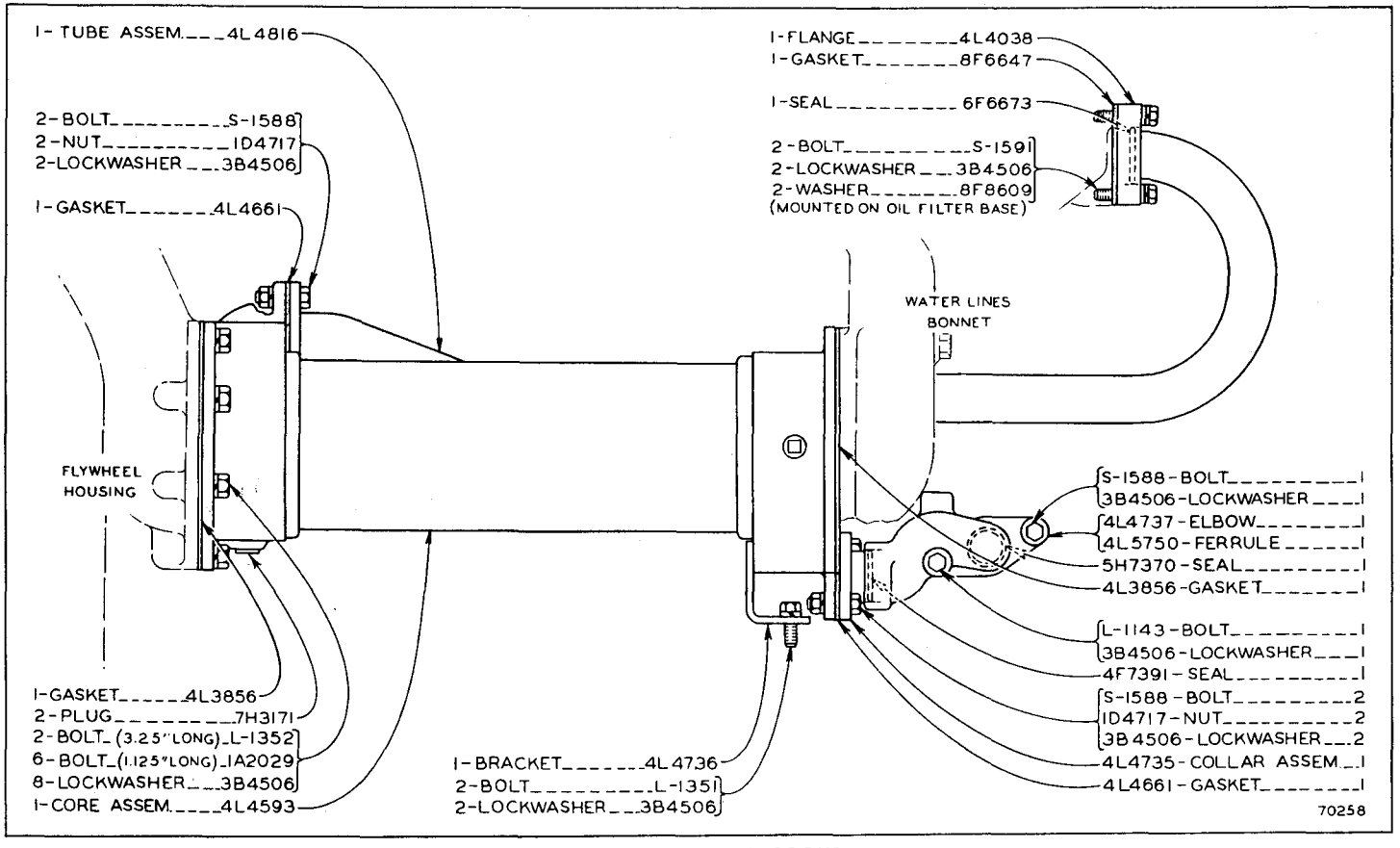


FUEL INJECTION VALVES AND LINES
Effective with Serial No. 6281869



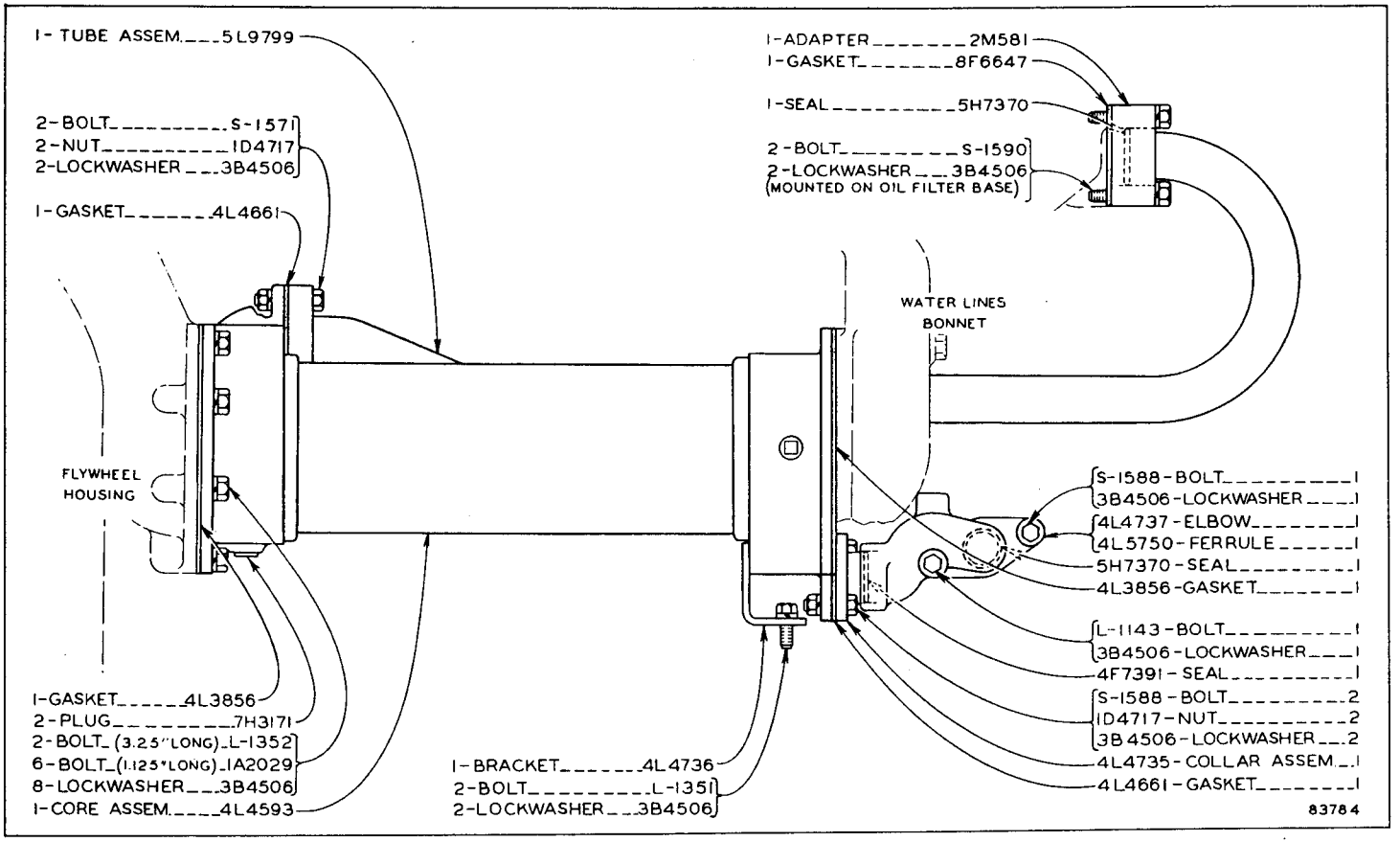
FUEL INJECTION VALVES AND LINES
Effective with Serial No. 62B1015

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



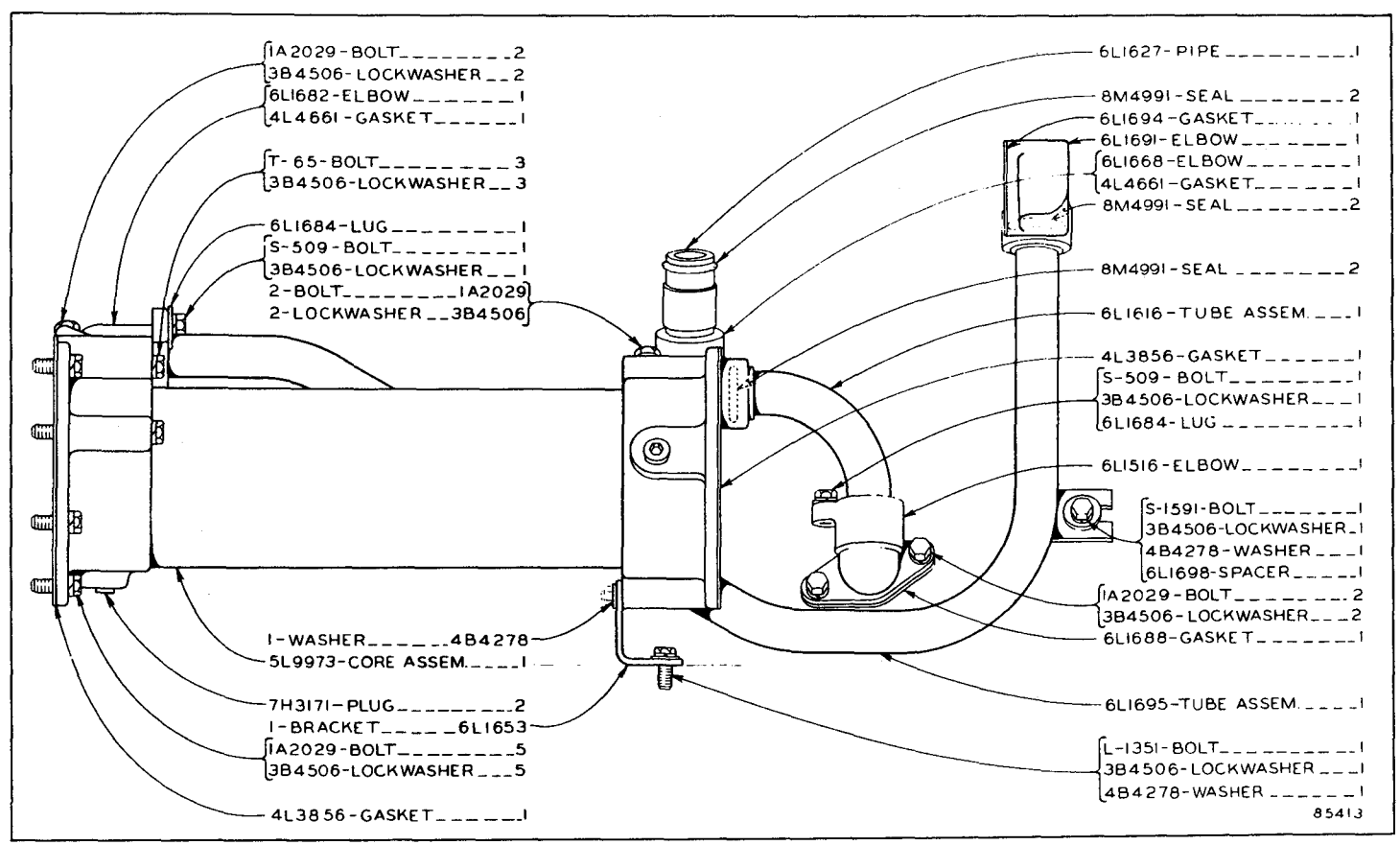
4L3338 OIL COOLER GROUP

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

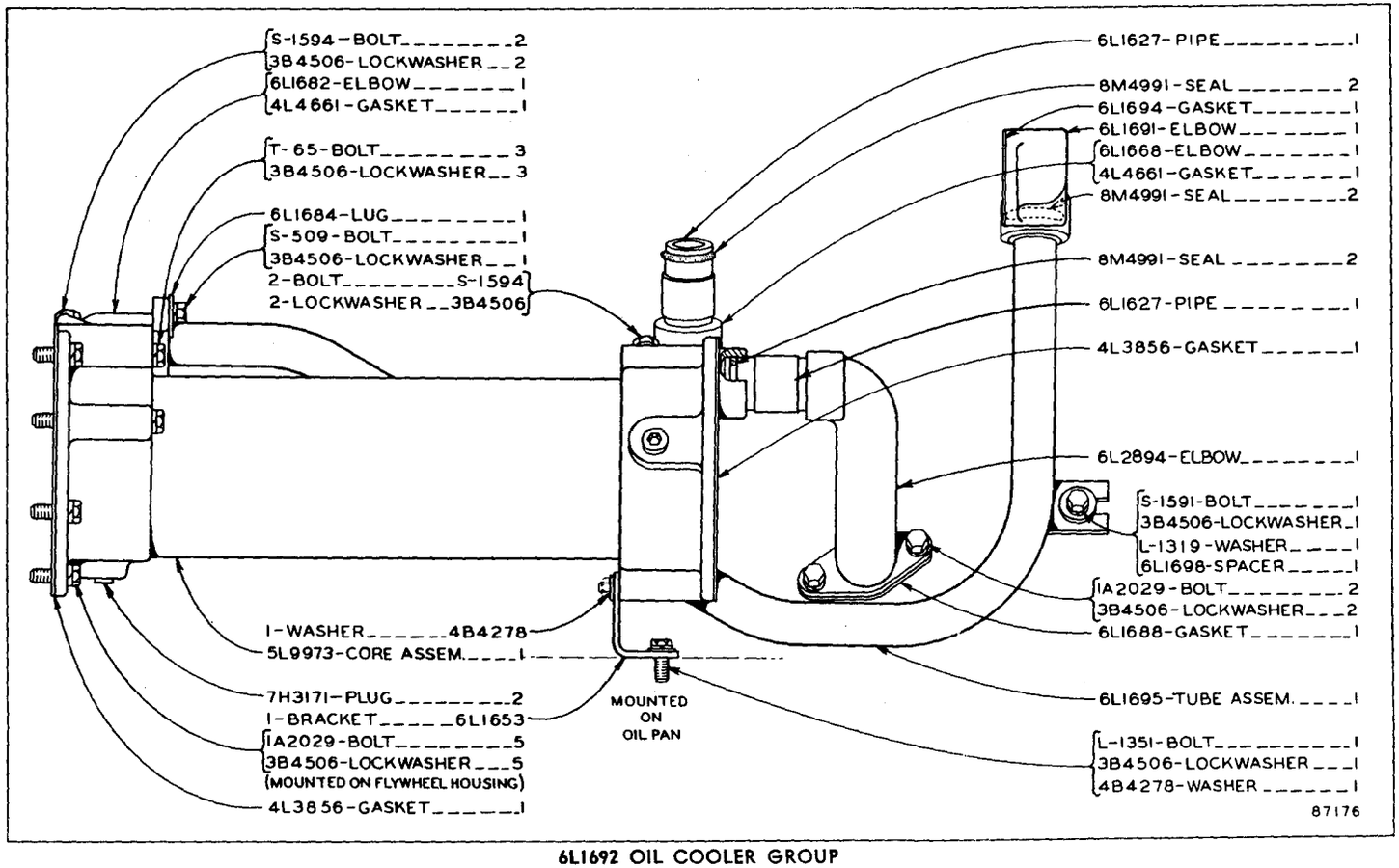


4L3338 OIL COOLER GROUP
Serial No. 62B559 to 62B1014 inclusive

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

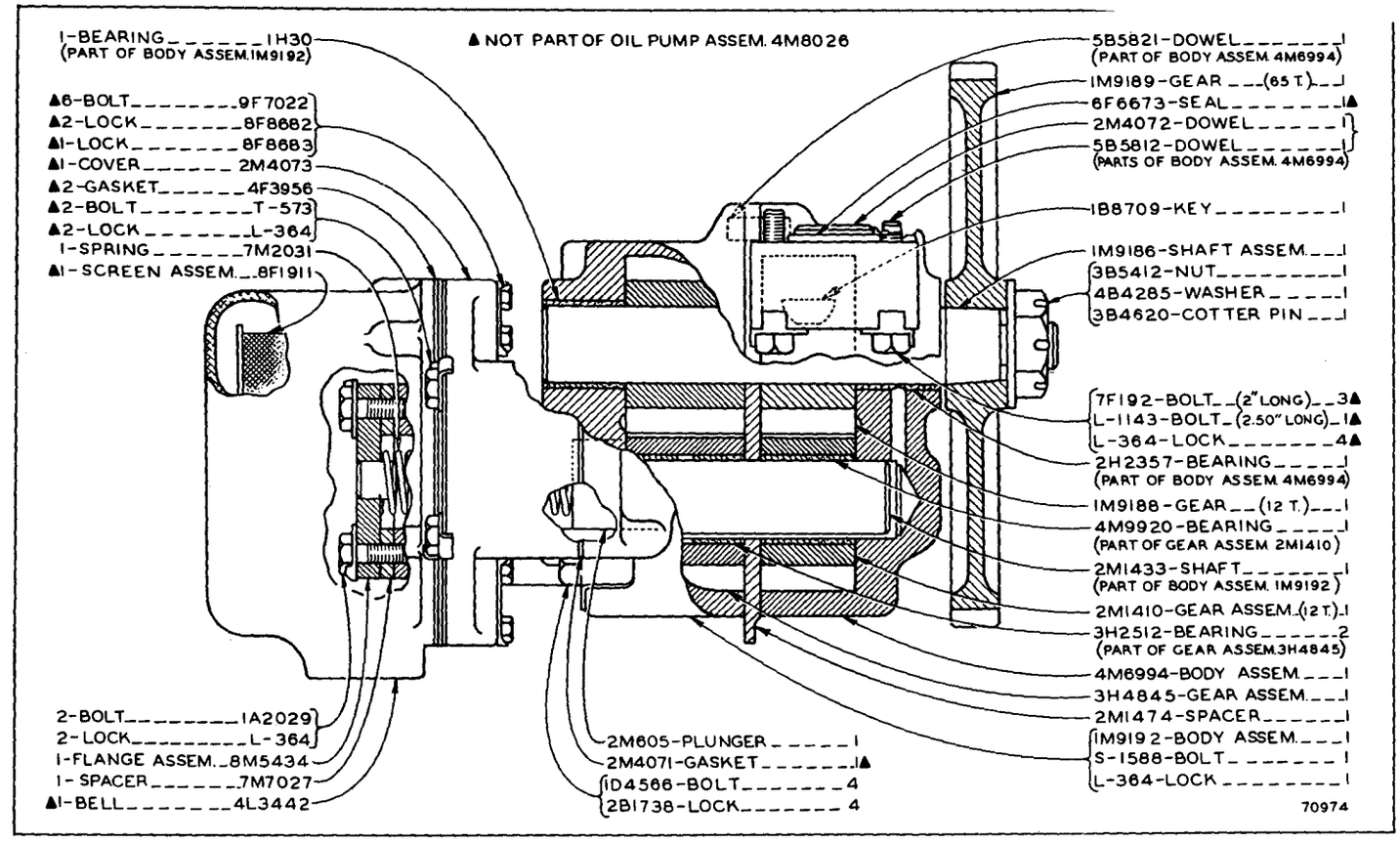


6LI692 OIL COOLER GROUP
Serial No. 62B1015 to 62B1351 inclusive

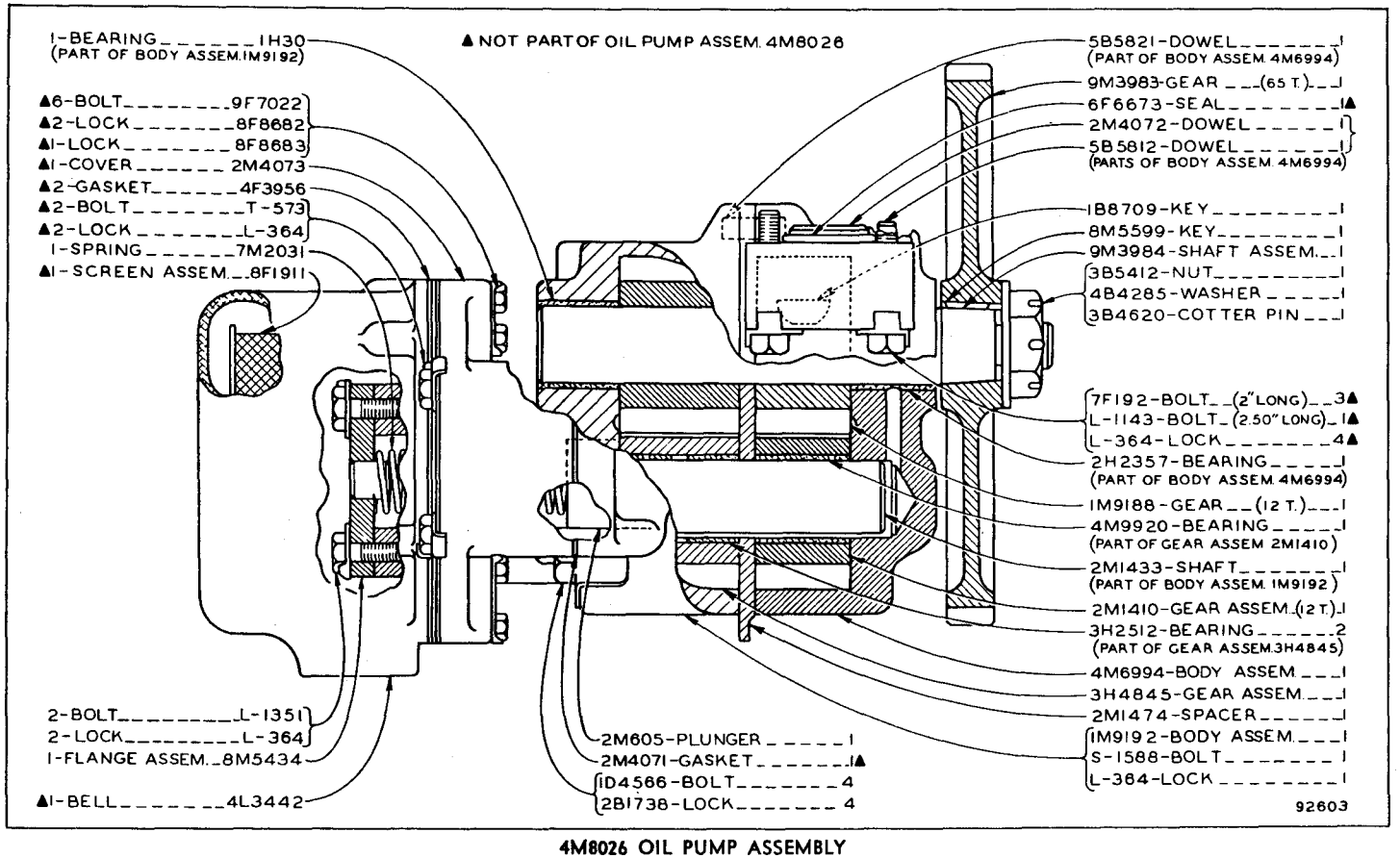


6L1692 OIL COOLER GROUP
Effective with Serial No. 62B1352

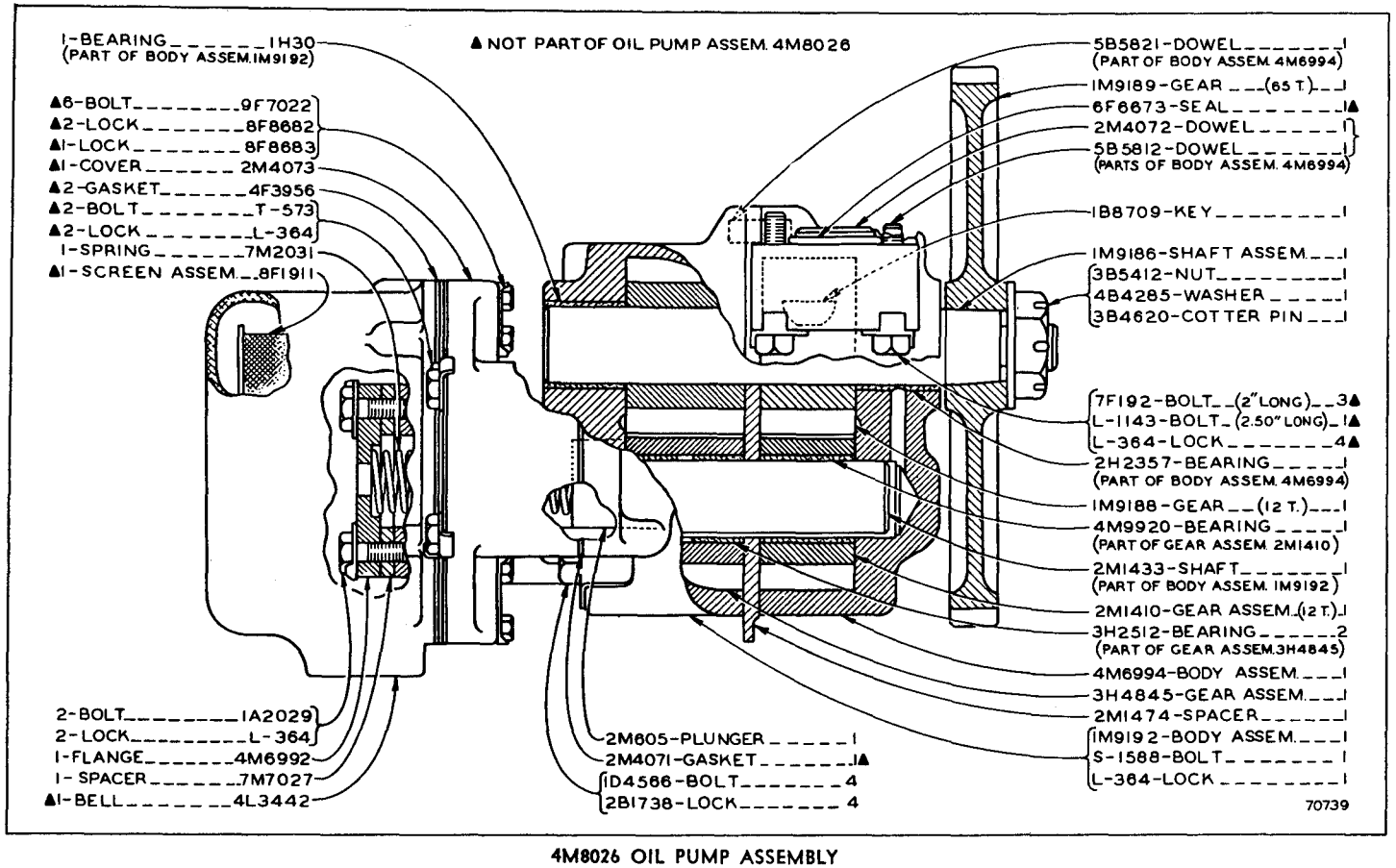
ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE



4M8026 OIL PUMP ASSEMBLY
Serial No. 62B216 to 62B680 inclusive

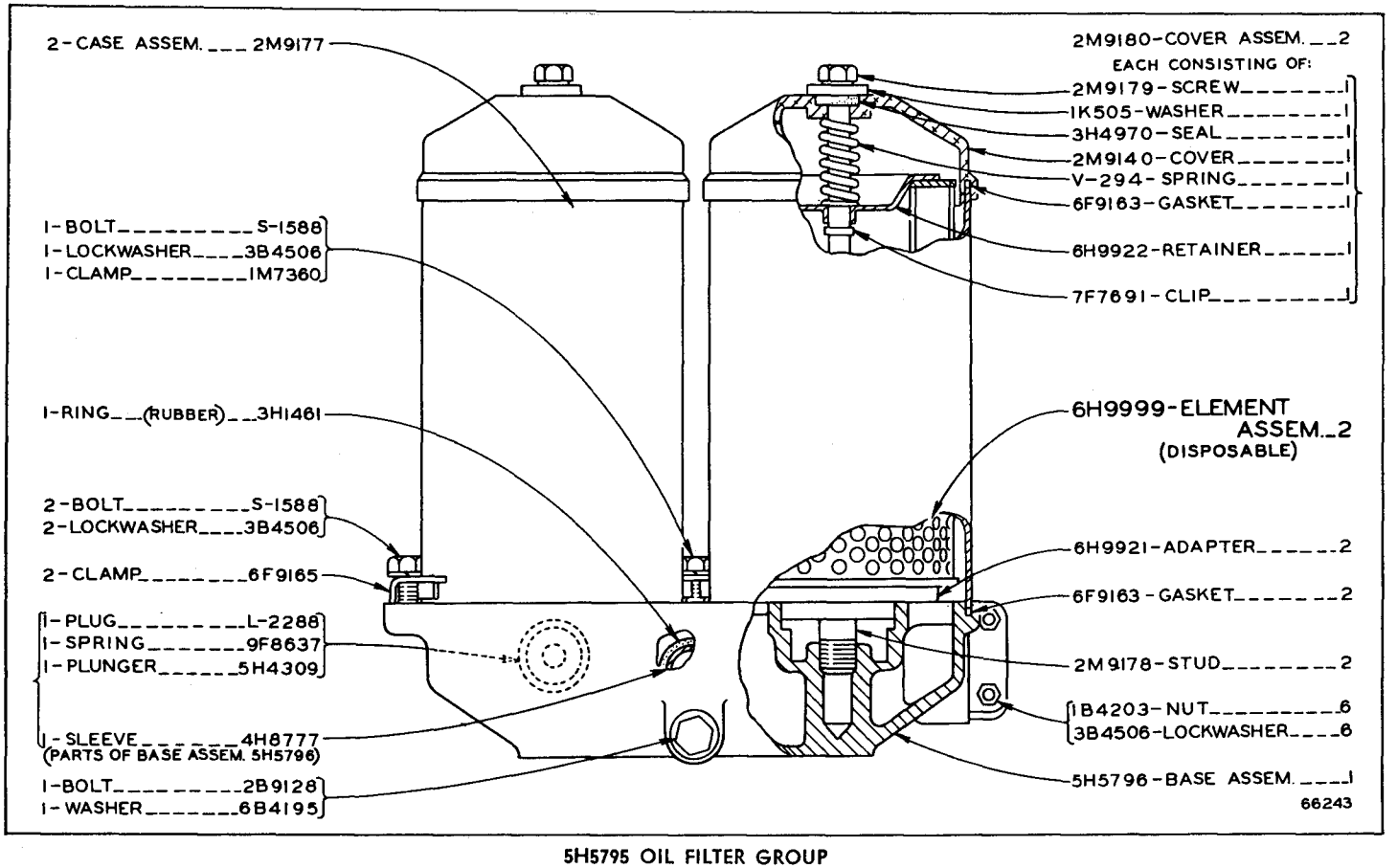


4M8026 OIL PUMP ASSEMBLY
Effective with Serial No. 62B681

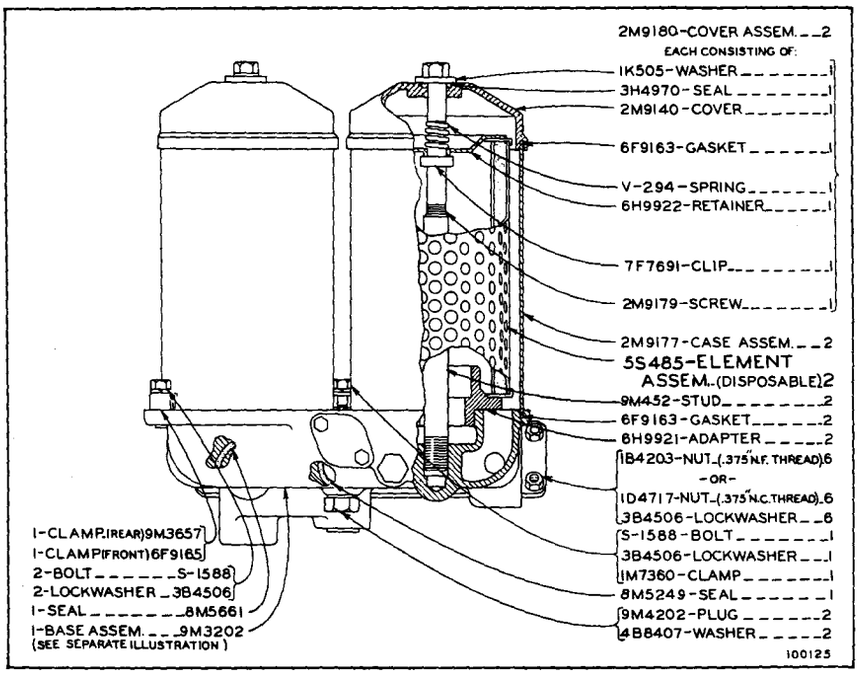


4M8026 OIL PUMP ASSEMBLY

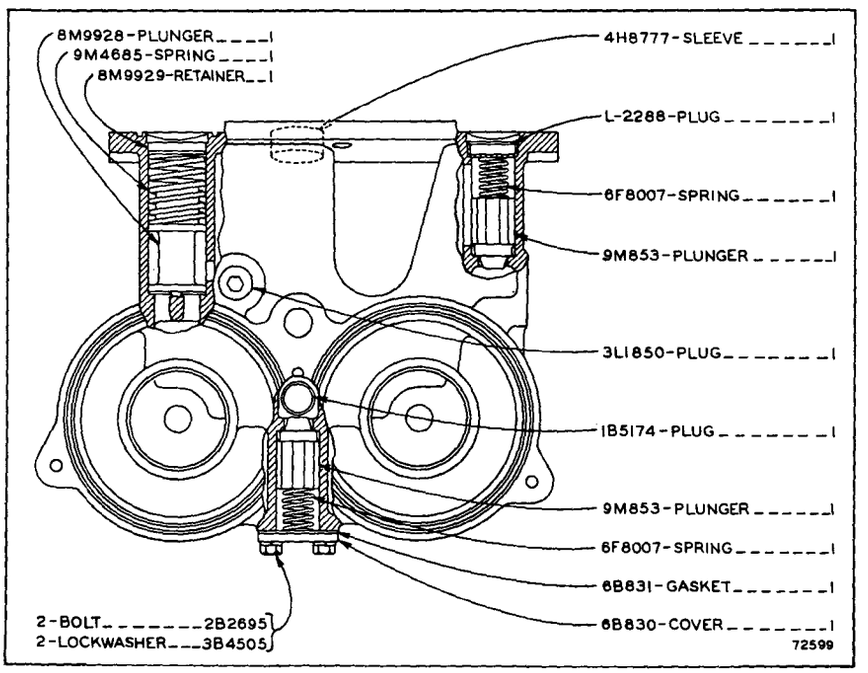
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



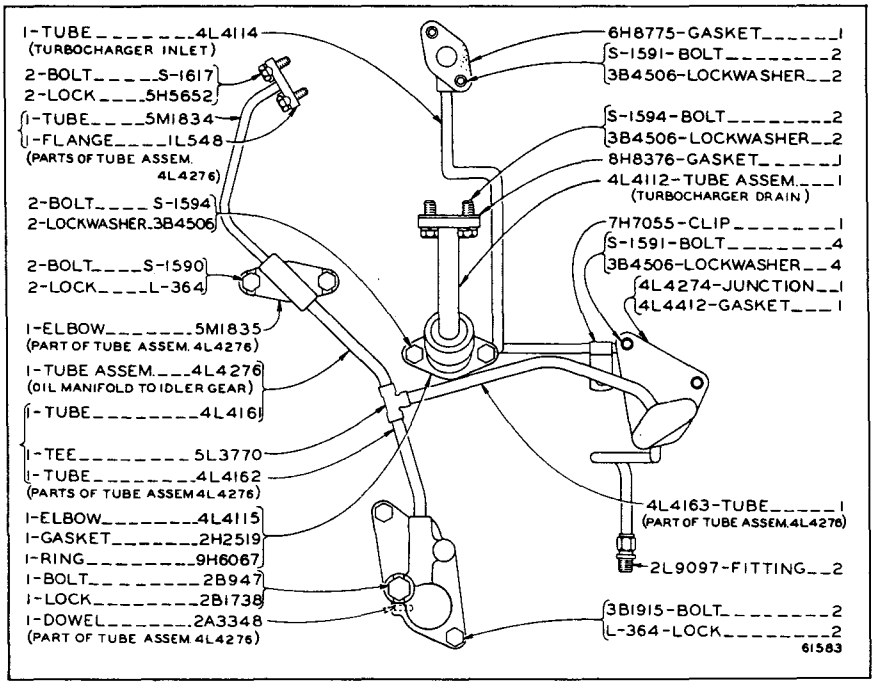
5H5795 OIL FILTER GROUP



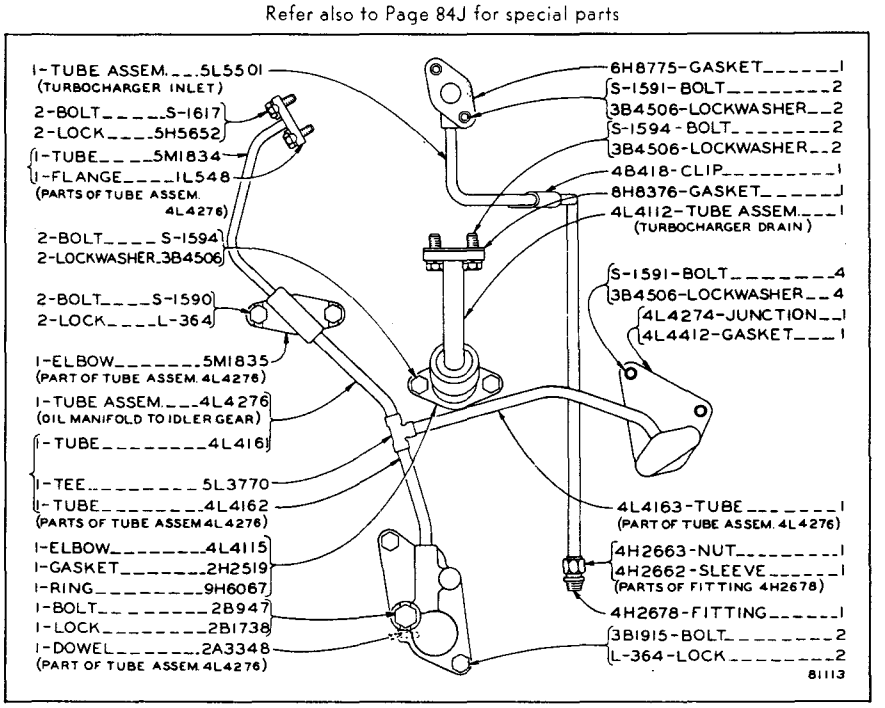
9M3223 OIL FILTER GROUP
Effective with Serial No. 62B1015



9M3202 OIL FILTER BASE ASSEMBLY
Part of 9M3223 Oil Filter Group

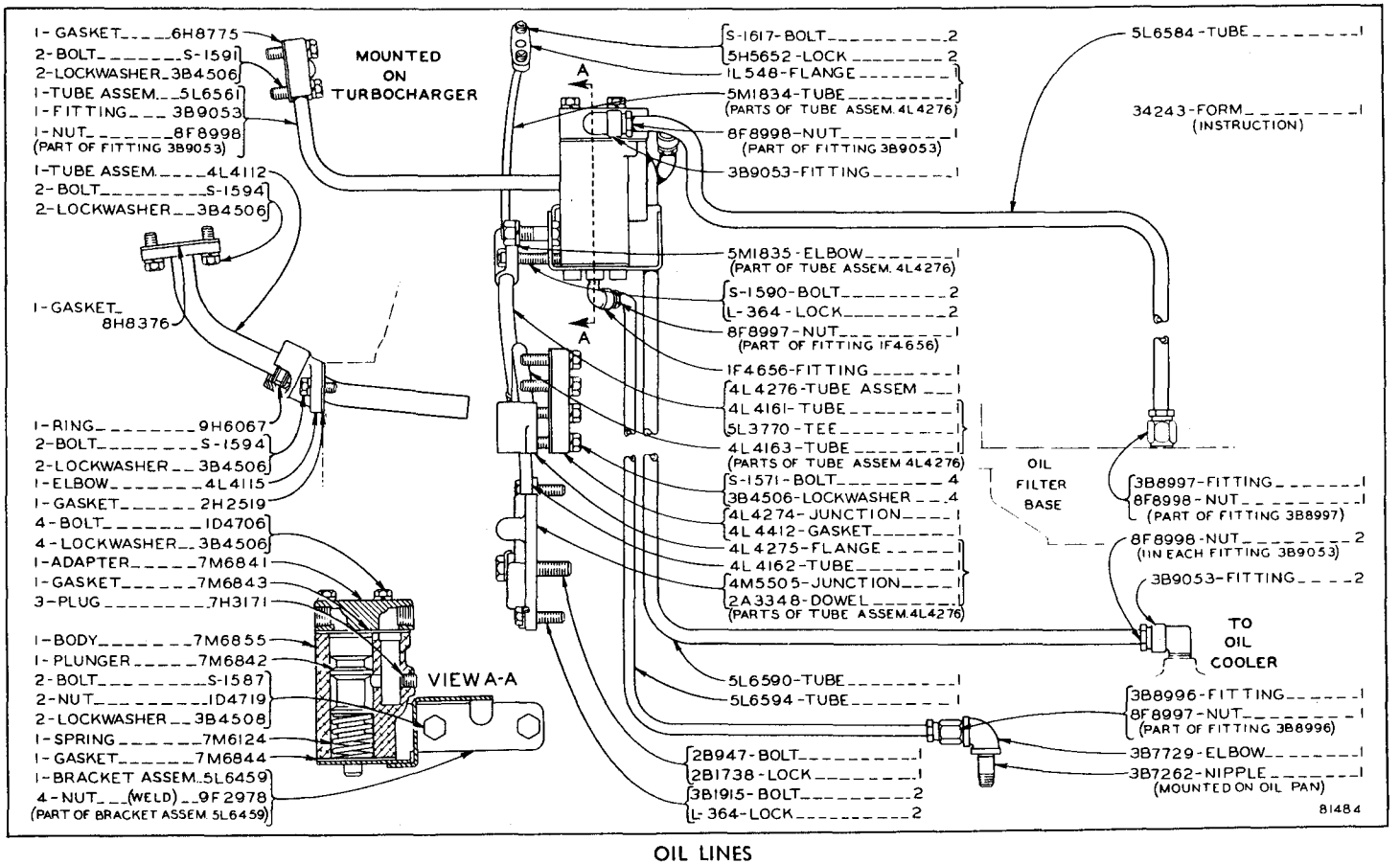


OIL LINES
Serial No. 62B1 to 62B171 inclusive
Refer also to Page 84J for special parts



OIL LINES
Serial No. 62B172 to 62B275 inclusive
Refer also to Page 84J for special parts

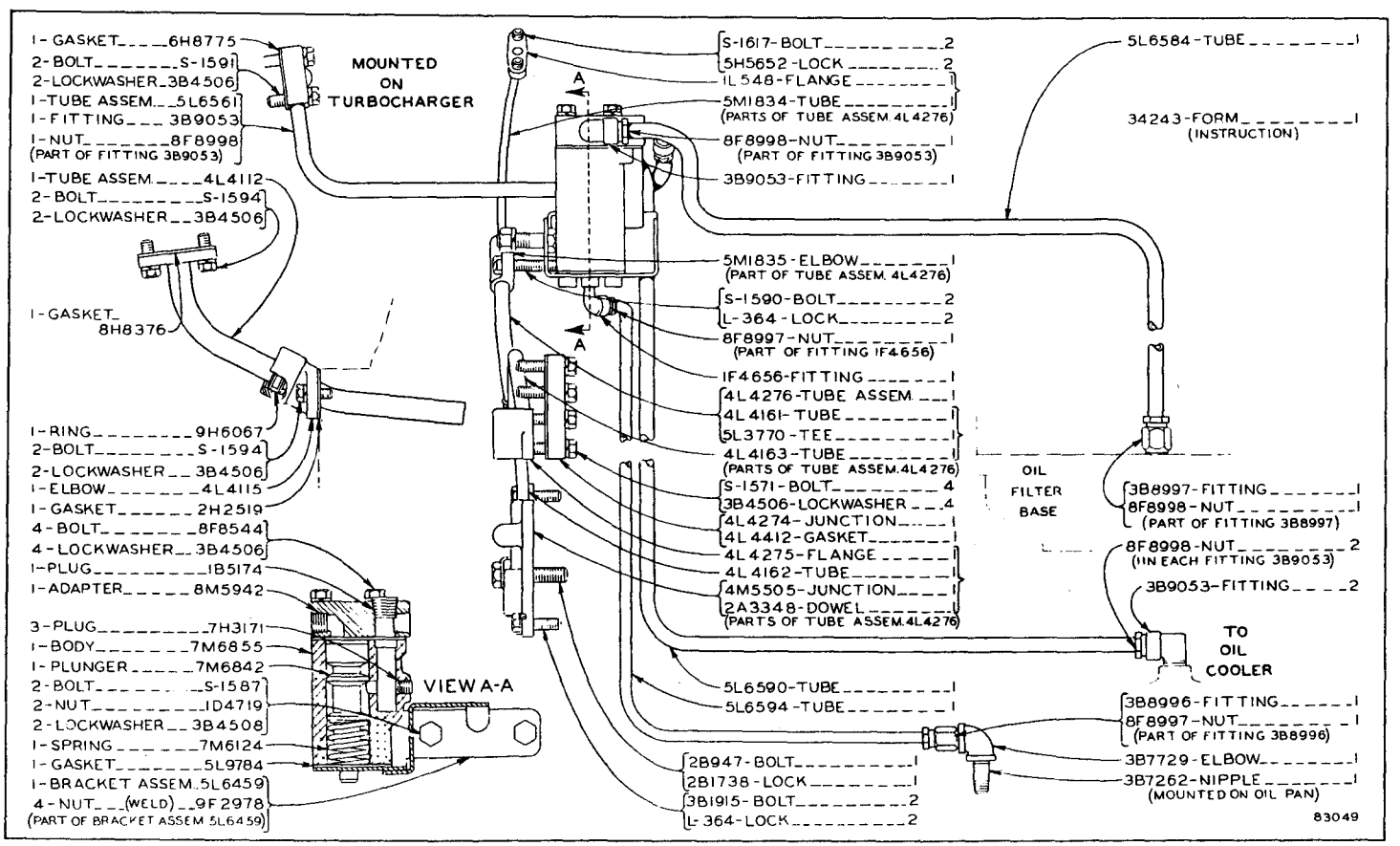
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



OIL LINES

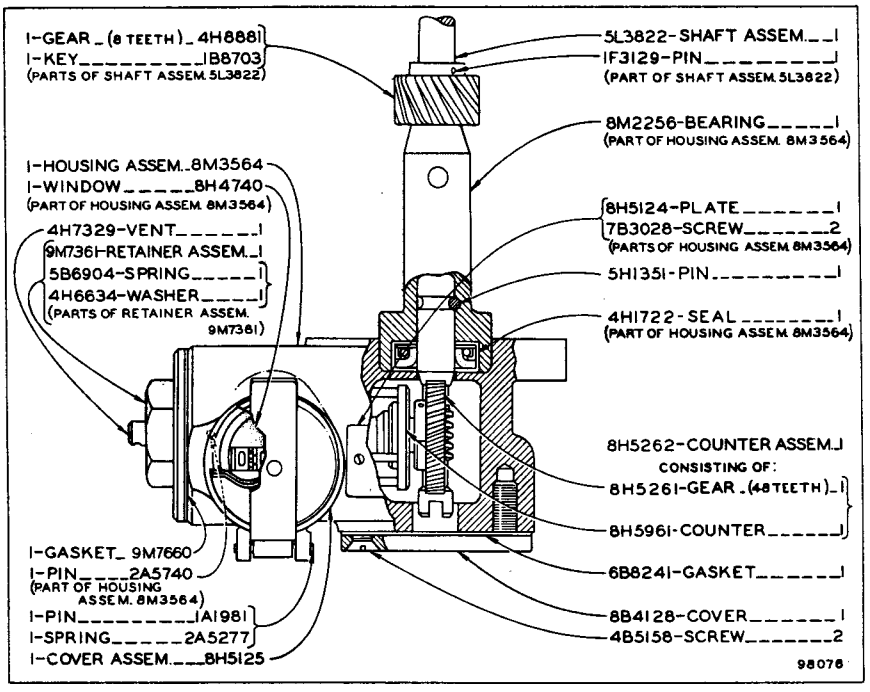
Serial No. 62B274 to 62B430 inclusive

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

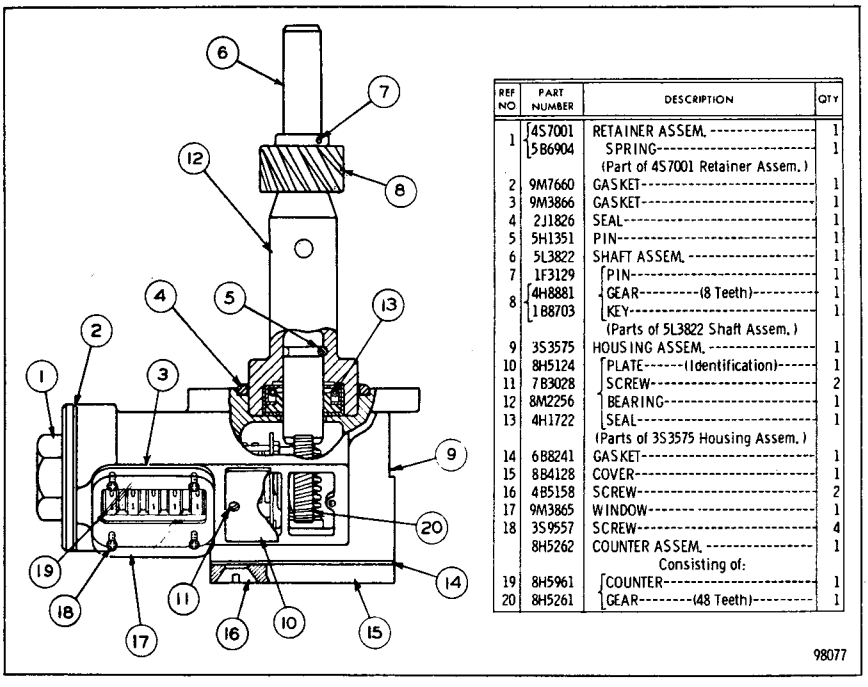


OIL LINES

Serial No. 62B431 to 62B1014 inclusive



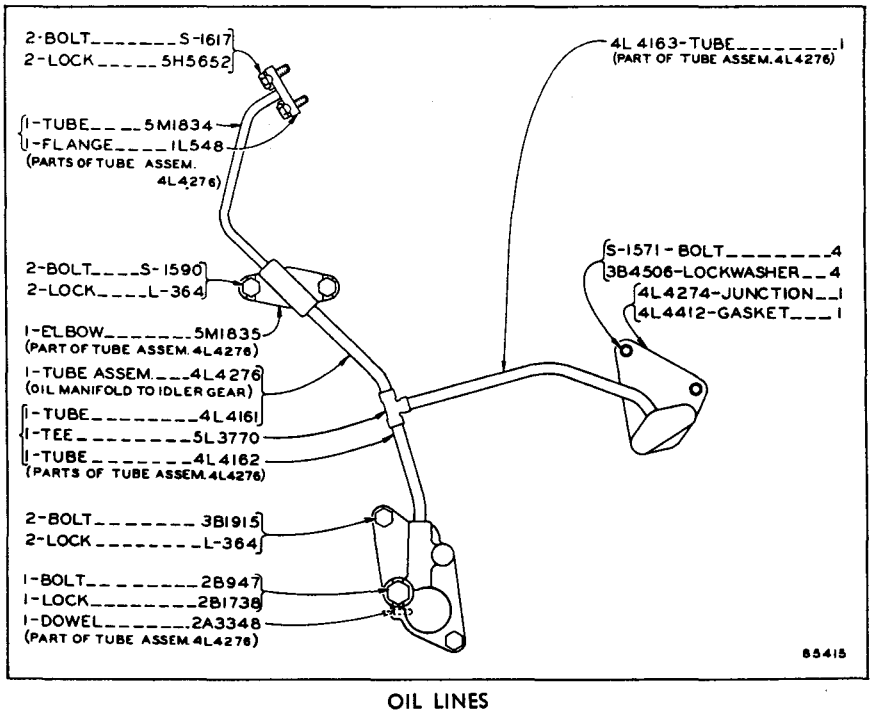
4L3342 SERVICE METER GROUP
SERIAL NO. 62B599 TO 62B3850 INCLUSIVE



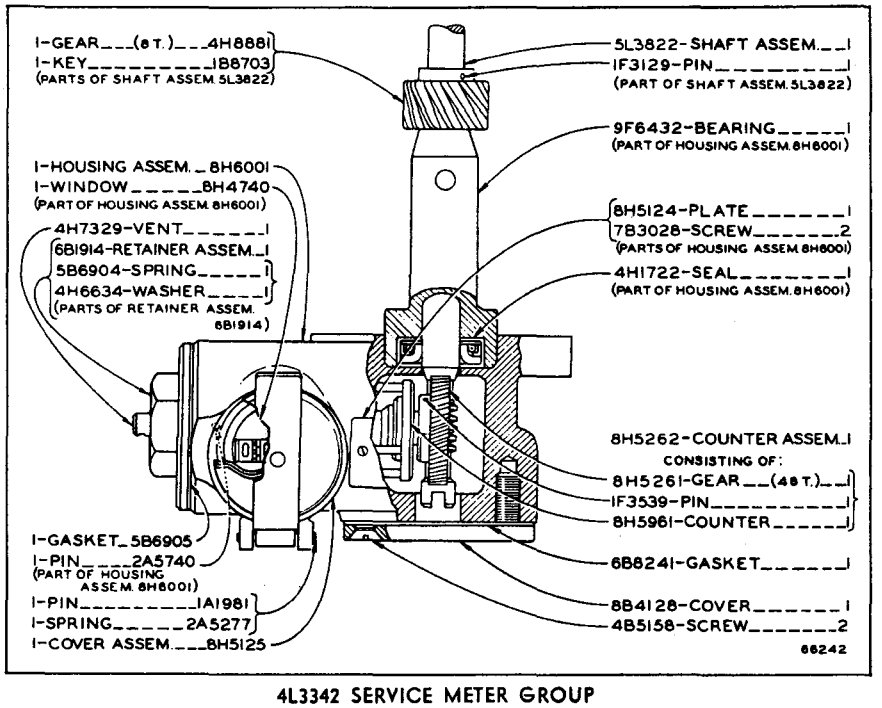
REF NO	PART NUMBER	DESCRIPTION	QTY
1	4S7001	RETAINER ASSEM.	1
	5B6904	SPRING	1
		(Part of 4S7001 Retainer Assem.)	
2	9M7660	GASKET	1
3	9M3866	GASKET	1
4	2J1826	SEAL	1
5	5H1351	PIN	1
6	5L3822	SHAFT ASSEM.	1
7	1F3129	PIN	1
8	4H8881	GEAR (8 Teeth)	1
	1B8703	KEY	1
		(Parts of 5L3822 Shaft Assem.)	
9	3S3575	HOUSING ASSEM.	1
10	8H5124	PLATE (Identification)	1
11	7B3028	SCREW	2
12	8M2256	BEARING	1
13	4H1722	SEAL	1
		(Parts of 3S3575 Housing Assem.)	
14	6B8241	GASKET	1
15	8B4128	COVER	1
16	4B5158	SCREW	2
17	9M3865	WINDOW	1
18	3S9557	SCREW	4
	8H5262	COUNTER ASSEM.	1
		Consisting of:	
19	8H5961	COUNTER	1
20	8H5261	GEAR (48 Teeth)	1

6L9355 SERVICE METER GROUP
EFFECTIVE WITH SERIAL NO. 62B3851

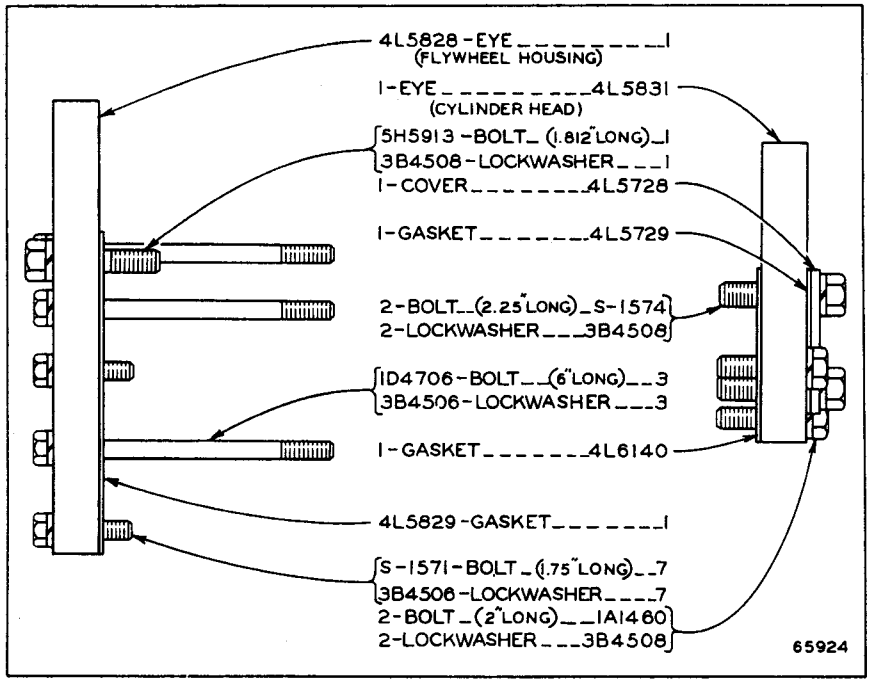
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



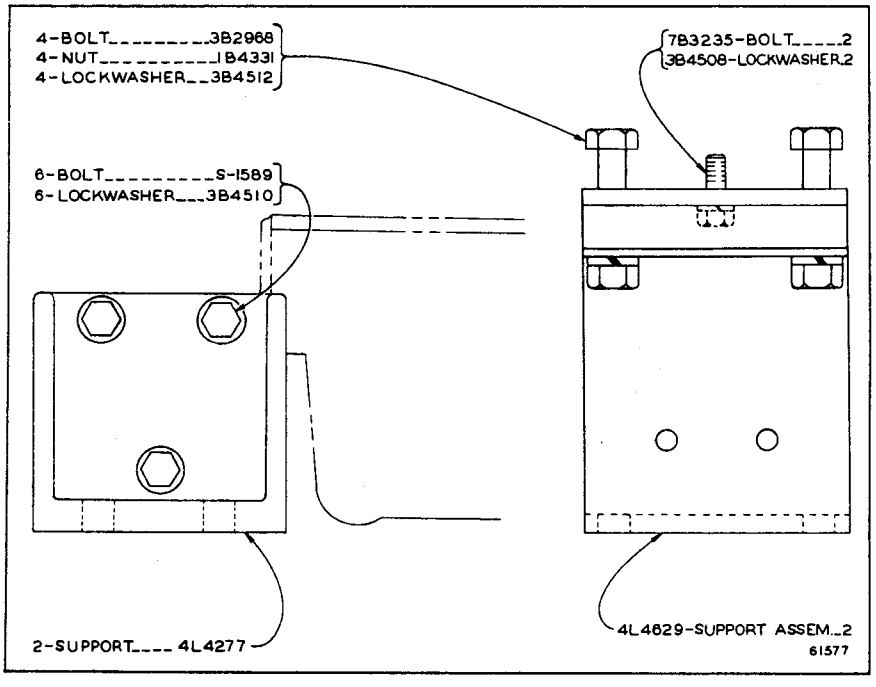
OIL LINES
Effective with Serial No. 62B1015



4L3342 SERVICE METER GROUP
Serial No. 62B1 to 62B598 inclusive

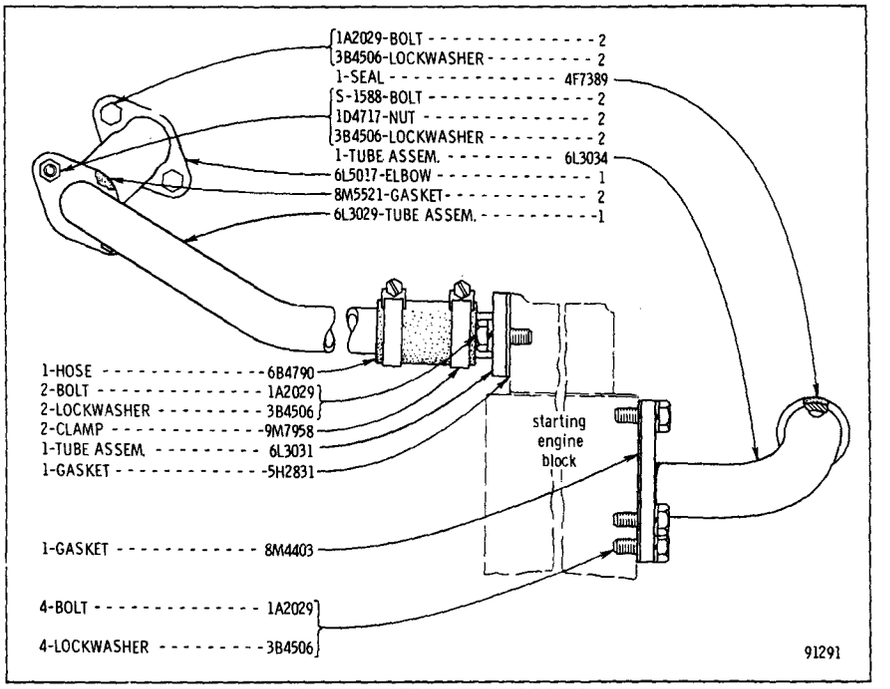


LIFTING EYE

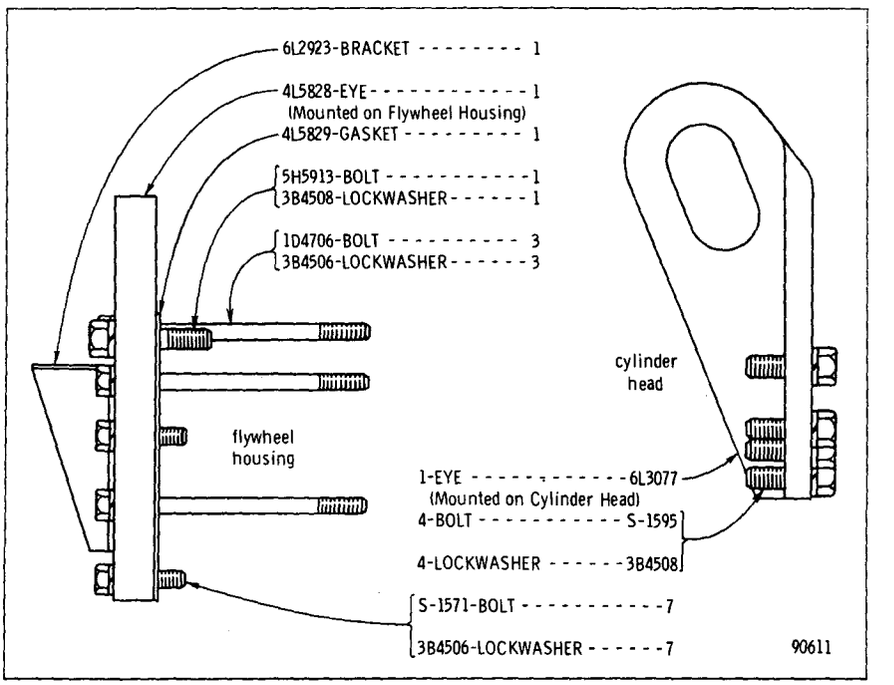


ENGINE SUPPORT

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



6L3094 WATER LINES GROUP
Effective with Serial No. 62B1869—Up and Starting Engine Block No. F3306—Up
Part of Complete Gasoline Starting Engine Arrangement listed on insert between Pages 42 and 43



LIFTING EYE
Effective with Serial No. 62B1869

5L6398 General Gasoline Starting Engine Arrangement

		Consists of:	Page
1	5L6397	Basic Starting Engine Arrangement	Listed below
1	4H4359	Hand Crank Assembly	
1	4L4267	Flywheel Assembly	

5L6397 Basic Starting Engine Arrangement

Part of 5L6398 Arrangement

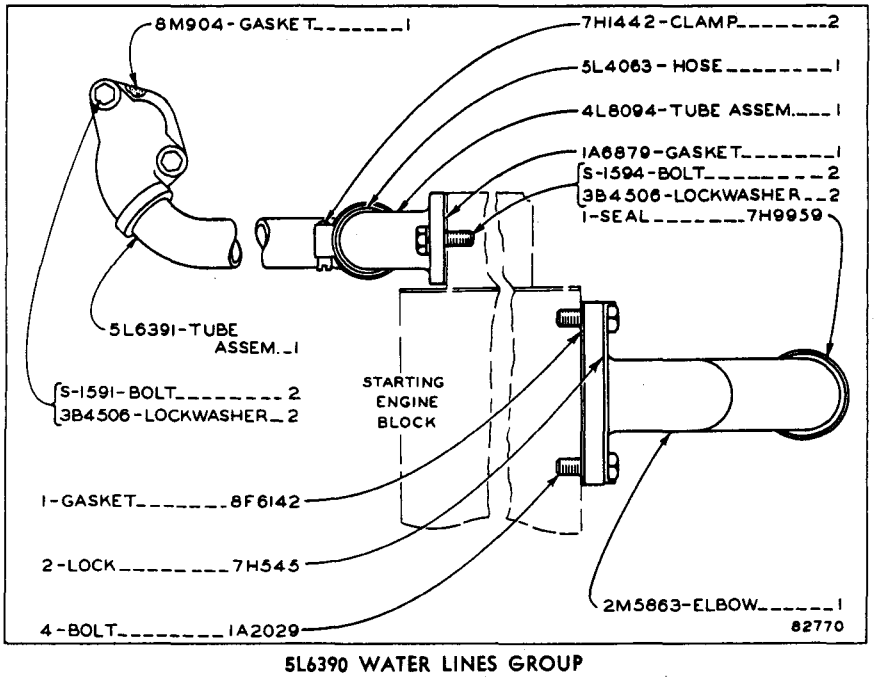
Consists of:

1	.....	Camshaft and Governor	Between 46 & 47
1	.....	Compression Release Control	43
2	.....	Connecting Rod and Piston	47
1	.....	Crankshaft	47
1	.....	Cyl. Block, Cyl. Head & Valve Mechanism	44
1	.....	Engine Support	55
1	2H7664	Oil Pump Assembly	48
1	4L3811	Clutch and Pinion Control Group	51
1	4L3817	Starter Pinion Group	53
1	4L4471	Ignition System Group	51
1	4L4666	Clutch Group	52
1	5L5800	Manifold, Carburetor & Air Cleaner Group	Between 48 & 49
1	5L5823	Fuel System Group	Between 48 & 49
1	5L6390	Water Lines Group	Shown below
1	1M4639	Starting Crank Group	54

STARTING ENGINE ARRANGEMENT

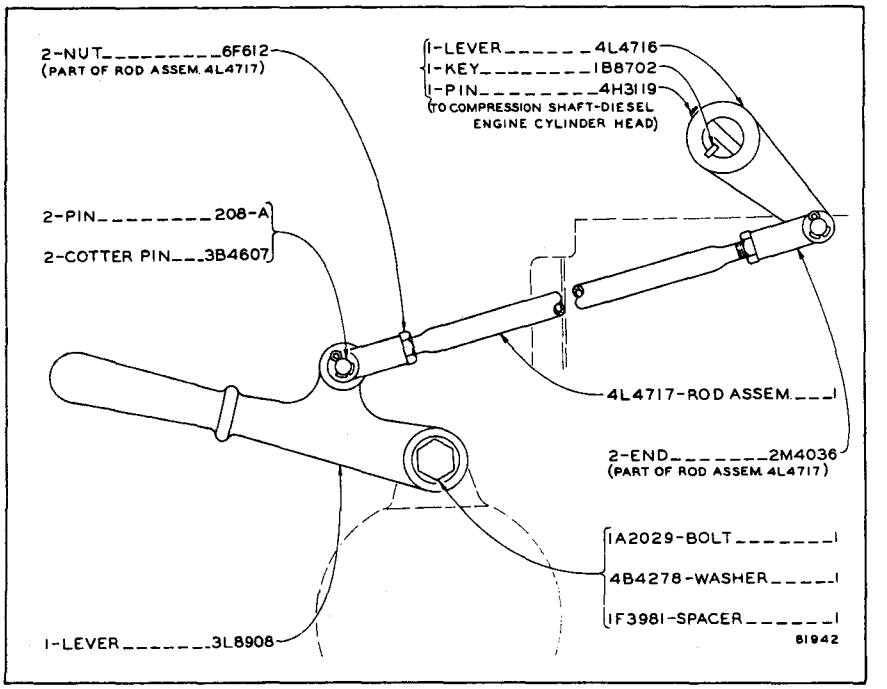
Effective with Serial No. 62B375

Note: For Field Installation of 5L6398 Arrangement order 5L6397 Basic Starting Engine Arrangement, 1—4H4359 Crank Assembly and 1—4L4265 Ring Gear

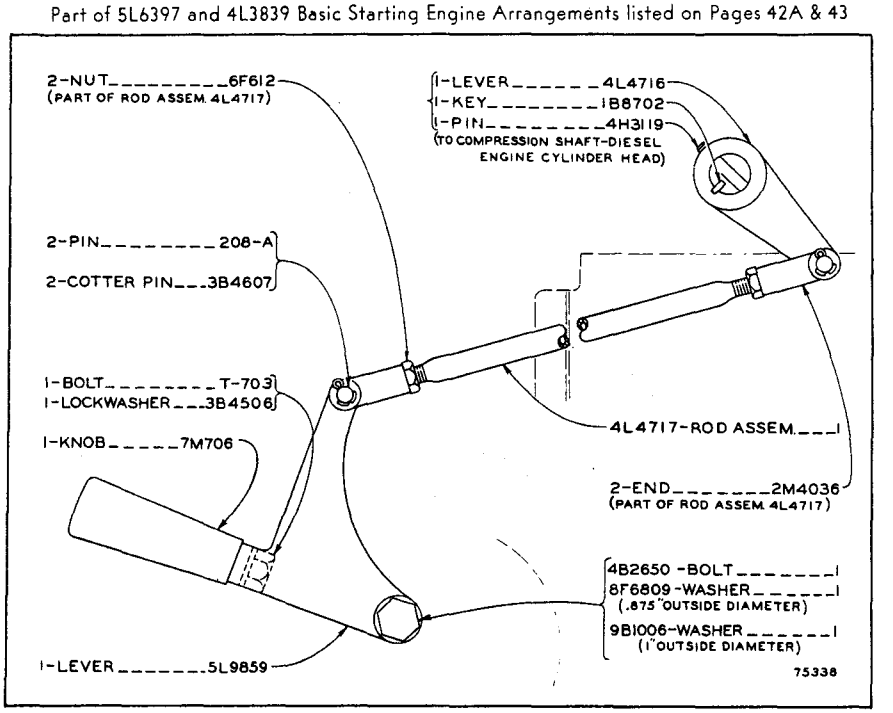


5L6390 WATER LINES GROUP

Part of 5L6397 Basic Starting Engine Arrangement



COMPRESSION RELEASE CONTROL
Serial No. 62B1 to 62B937 inclusive
Part of 5L6397 and 4L3839 Basic Starting Engine Arrangements listed on Pages 42A & 43



COMPRESSION RELEASE CONTROL
Effective with Serial No. 62B938
Part of 5L6397 Basic Starting Engine Arrangement listed on Page 42A

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS

Complete Gasoline Starting Engine Arrangement

	Consists of:		Page
1	.....	Compression Release Control	43
1	6L2579	Fuel System Group	Between 48 & 49
1	6L2585	Starting Engine and Transmission Arrangement	Listed below
1	6L2587	Starting Engine Installation Group	Reverse side this insert
1	6L3094	Water Lines Group	Between 42 & 43

6L2585 Starting Engine and Transmission Arrangement

Part of Complete Gasoline Starting Engine Arrangement

Consists of:

1	.....	Basic Starting Engine Arrangement	Listed below
1	4L3811	Clutch and Pinion Control Group	51
1	4L3817	Starter Pinion Group	53
1	4L4666	Clutch Group	52

Basic Starting Engine Arrangement

Part of 6L2585 Starting Engine and Transmission Arrangement

Consists of:

1	.....	Camshaft and Governor	Between 46 & 47
2	.....	Connecting Rod and Piston	Between 46 & 47
1	.....	Crankshaft	Between 46 & 47
1	.....	Cylinder Block, Cylinder Head and Valve Mechanism	Between 44 & 45
1	4L4471	Ignition System Group	51
1	6L2529	Carburetor and Air Transfer Pipe Group	Between 48 & 49
1	9M1713	Oil Pump Assembly	Between 48 & 49
1	9M7894	Manual Starting Crank Group	Between 54 & 55

GASOLINE STARTING ENGINE ARRANGEMENT
Effective with Serial No. 62B1869—Up and Starting Engine Block No. F3306—Up

Consists of:

2	1A2029	Bolt—Support to Diesel Block
1	1B3057	Clip—Tube to Bolt
4	1B4203	Nut—Exhaust Pipe to Starting Engine Cylinder Block
4	1B4203	Nut—Support to Starting Engine Cylinder Block
4	1B4330	Nut—To Pipe Assembly
1	2B9815	Gasket—Adapter to Pipe Assembly
4	3B4504	Lockwasher—1/4"
14	3B4506	Lockwasher—3/8"
2	3B4507	Lockwasher—7/16"
6	3B4508	Lockwasher—1/2"
1	3B8998	Fitting—Tube to Pinion Housing Assembly
2	3B8999	Fitting—Lower Tube
4	4B1282	Screw—Adapter to Pipe Assembly
1	5B494	Grommet—Tube to Clip
1	5B6018	Flame Arrestor
1	1D4707	Bolt—Bracket to Starting Engine Timing Gear Housing
4	4F7957	Bolt—Flame Arrestor to Pipe Assembly
1	1H7922	Fitting—Tube to Diesel
1	3H5368	Bolt—Bracket to Starting Engine Timing Gear Housing
1	4L4265	Ring Gear
1	4L4465	Tube—Upper—Diesel to Pinion Housing Assembly
1	5L5802	Plate—Air Cleaner
1	5L6868	Tube—Lower—Pinion Housing Assembly to Diesel
1	6L2578	Exhaust—Pipe Assembly
1	6L2644	Tube—Filter to Carburetor
1	6L2646	Bracket—Fuel Tank Mounting
1	6L2824	Support—Starting Engine to Diesel—Upper Rear
1	7M7072	Case Assembly—Air Cleaner
1	8M3120	Element—Air Cleaner
1	8M3271	Hand Crank Assembly
2	8M4418	Gasket—Exhaust Pipe and Cover to Starting Engine Cylinder Block
1	9M3239	Bracket—Starting Engine Timing Gear Housing to Diesel Block
1	9M3253	Bracket—Starting Engine Oil Pan to Diesel Block
1	9M6475	Tube—Filter to Carburetor
4	S-1585	Bolt—Bracket to Diesel Block
2	S-1588	Bolt—Upper Rear Support Bracket to Diesel Block
2	S-1595	Bolt—Bracket to Diesel Block
2	T-703	Bolt—Tank to Bracket

6L2587 STARTING ENGINE INSTALLATION GROUP
Part of Complete Gasoline Starting Engine Arrangement listed on front side of this insert

5L4439 General Starting Engine Arrangement

Consists of: Page

1	4L3839	Basic Starting Engine Arrangement	43
1	4H4359	Crank Assembly	
1	4L4267	Flywheel Assembly	

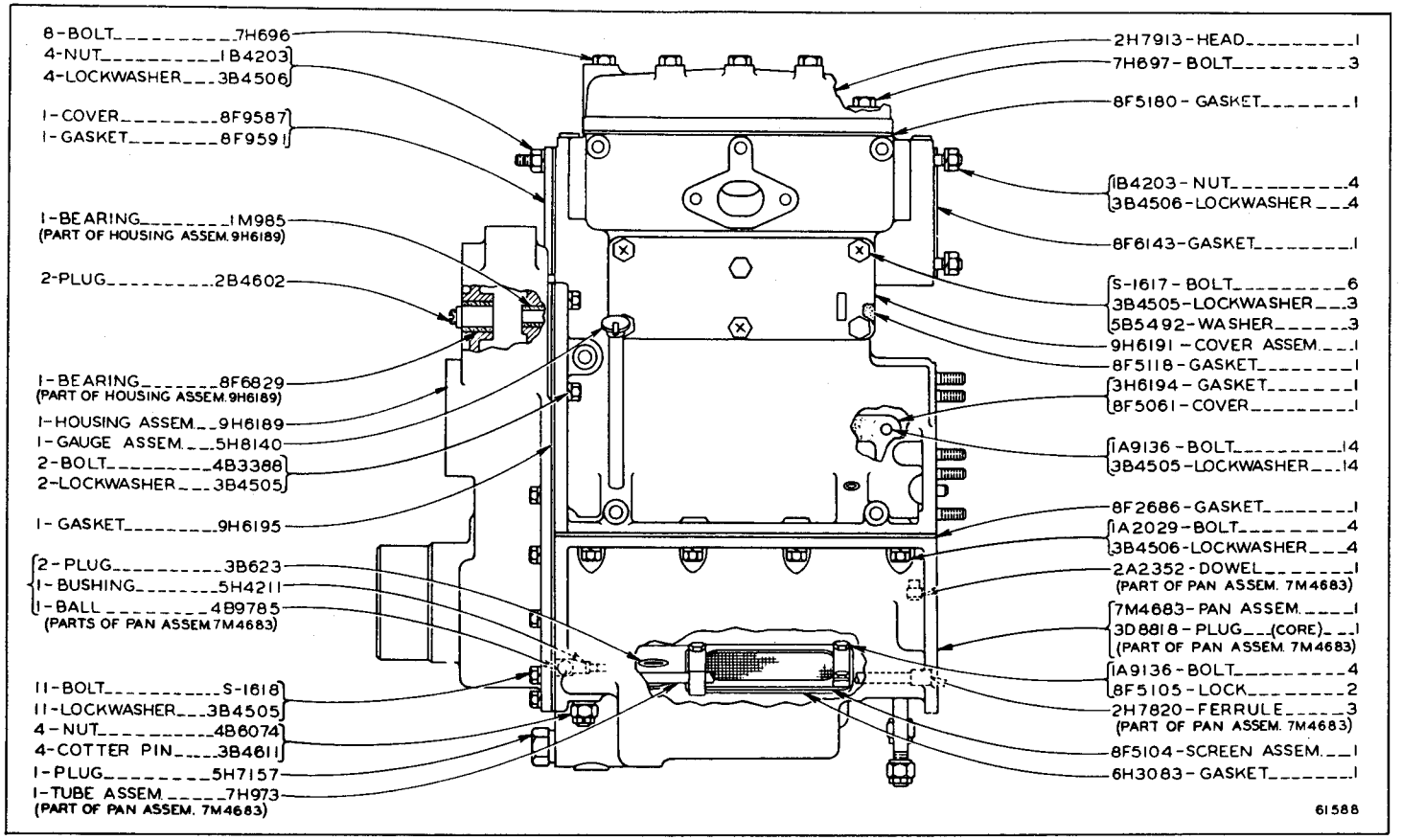
4L3839 Basic Starting Engine Arrangement
Part of 5L4439 Arrangement

Consists of:

1	.....	Camshaft and Governor	46
1	.....	Compression Release Control	42B
2	.....	Connecting Rod and Piston	47
1	.....	Crankshaft	47
1	.....	Cylinder Block, Cylinder Head and Valve Mechanism	44
1	2H7664	Oil Pump Assembly	48
1	4L3811	Clutch and Pinion Control Group	51
1	4L3817	Starter Pinion Group	53
1	4L4471	Ignition System Group	50B
1	4L4664	Water Lines Group	54
1	4L4666	Clutch Group	52
1	4L4700	Exhaust Lines, Carburetor and Air Cleaner Group	Between 48 & 49
		—or—	
1	5L5800	Manifold, Carburetor and Air Cleaner Group	49
1	4L4731	Fuel System Group	48
		—or—	
1	5L5823	Fuel System Group	Between 48 & 49
1	1M4639	Starting Crank Group	54
1	1M7132	Engine Support Group	54A

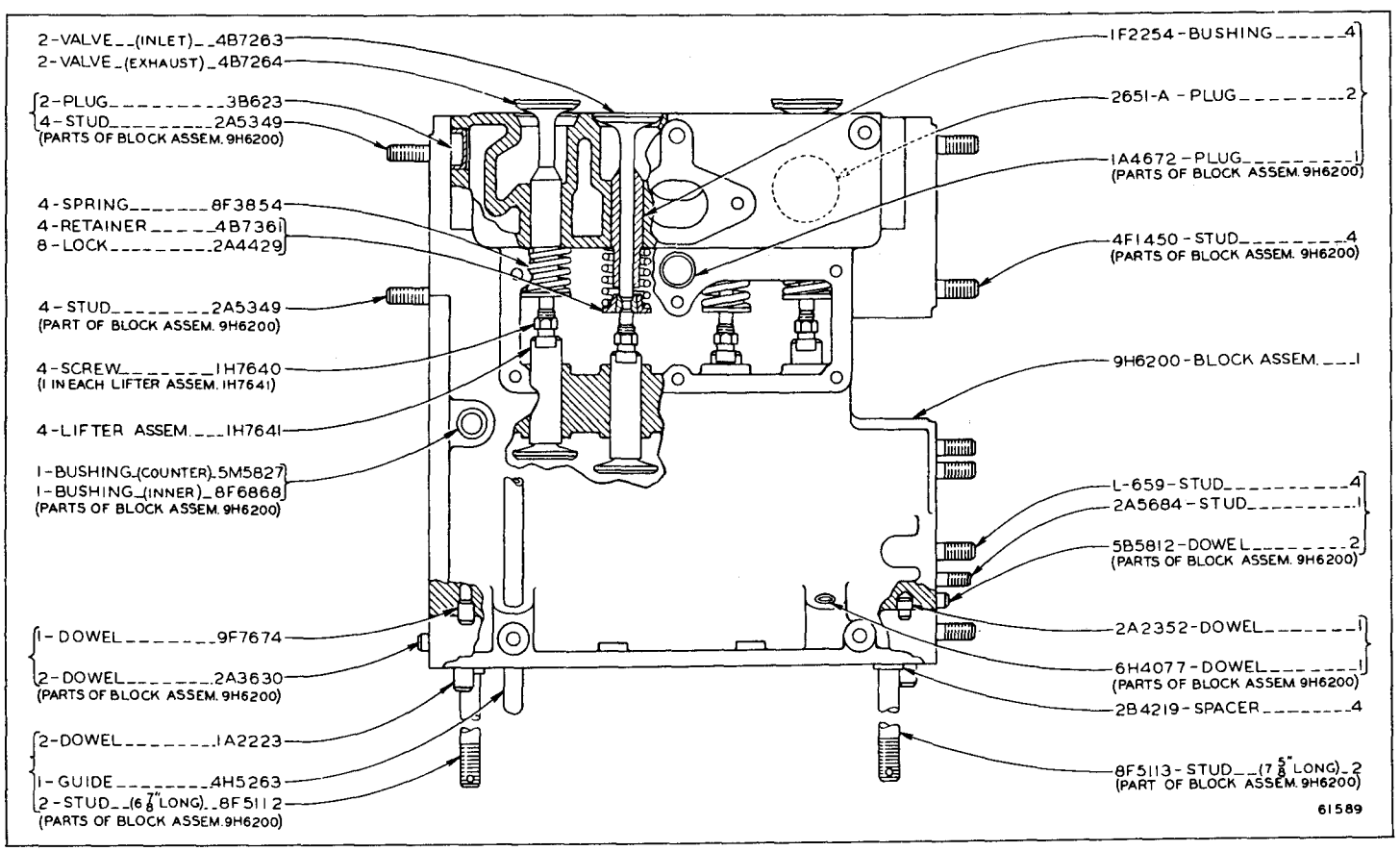
STARTING ENGINE ARRANGEMENTS
Serial No. 62B1 to 62B374 inclusive
Note: For Field Installation of 5L4439 Arrangement order 1—4L3839 Basic Starting Engine Arrangement, 1—4H4359 Crank Assembly and 1—4L4265 Ring Gear

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part One

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

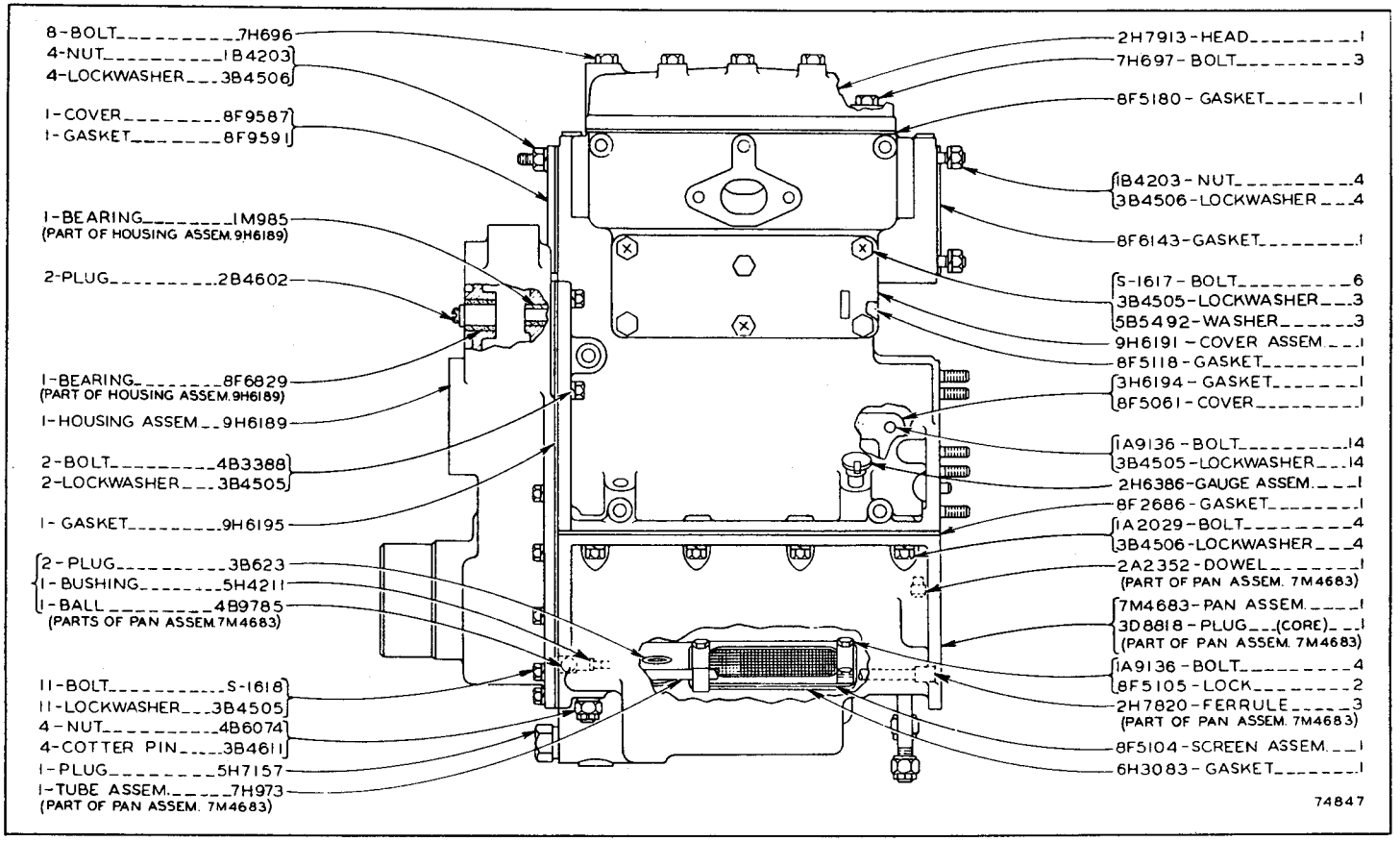


CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part Two

Serial No. 62B1 to 62B195 inclusive

Part of 4L3839 Basic Starting Engine Arrangement listed on Page 43

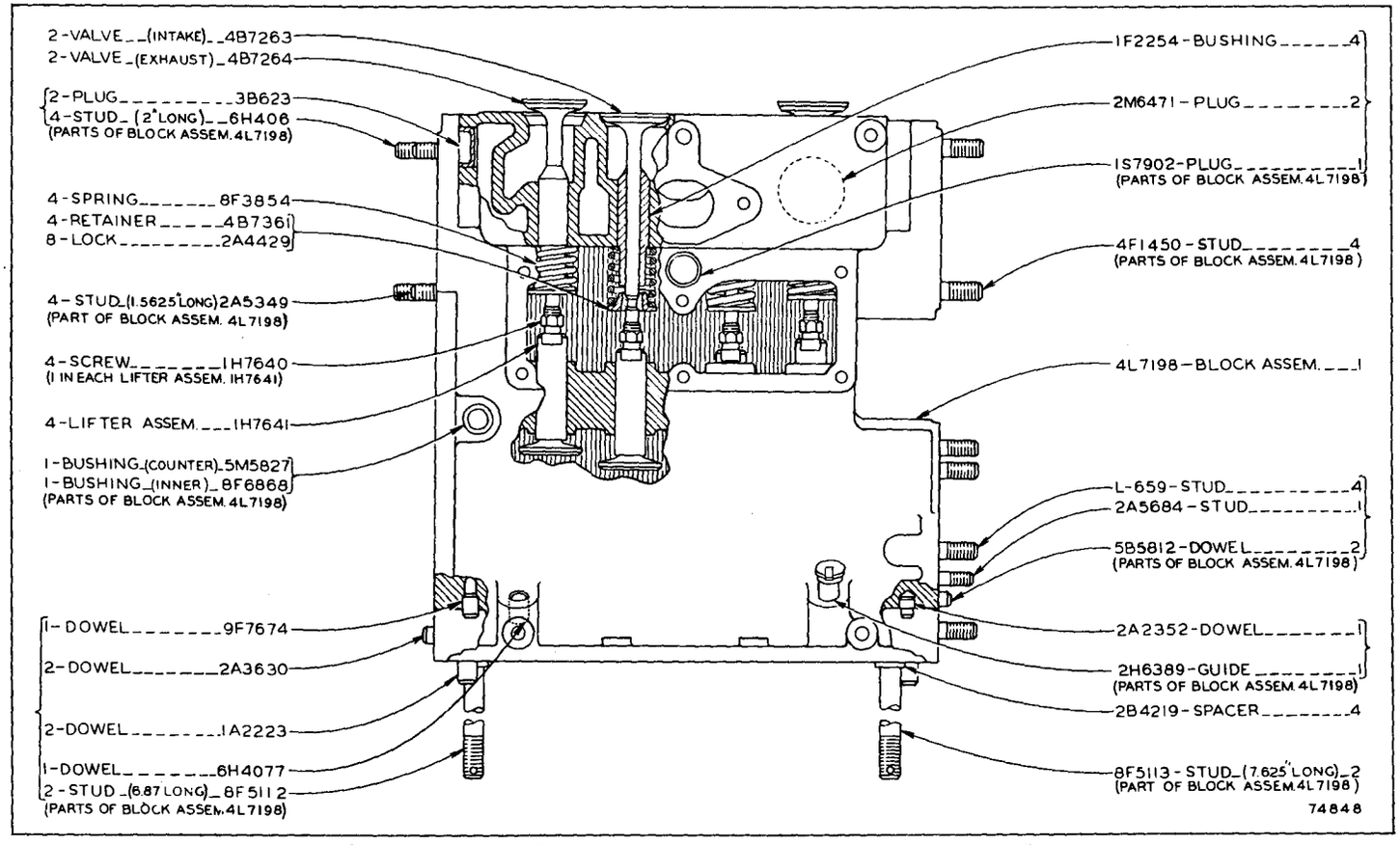
ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part One

Effective with Serial No. 628196

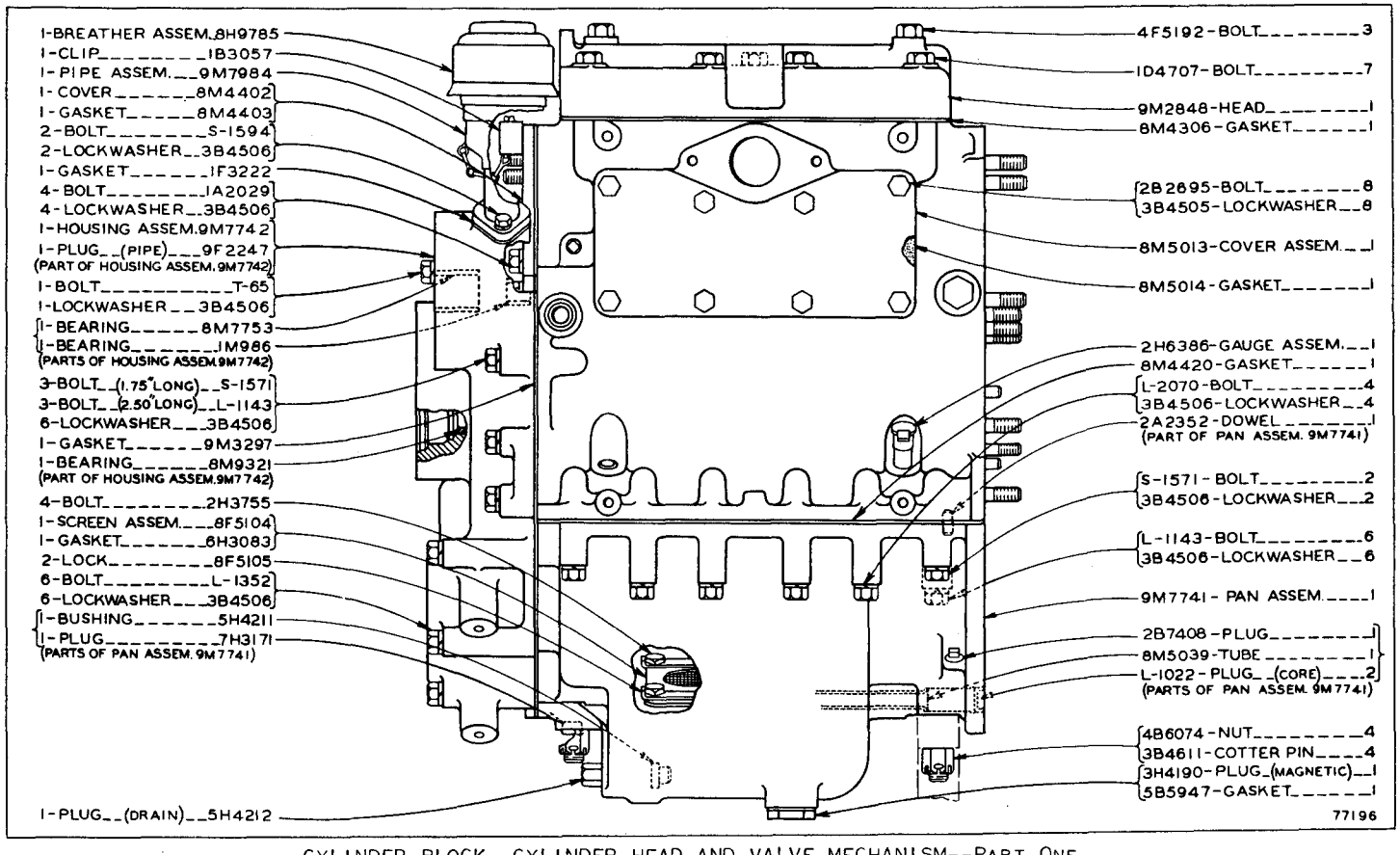
Part of 5L6397 and 4L3839 Basic Starting Engine Arrangements listed on Pages 42A and 43



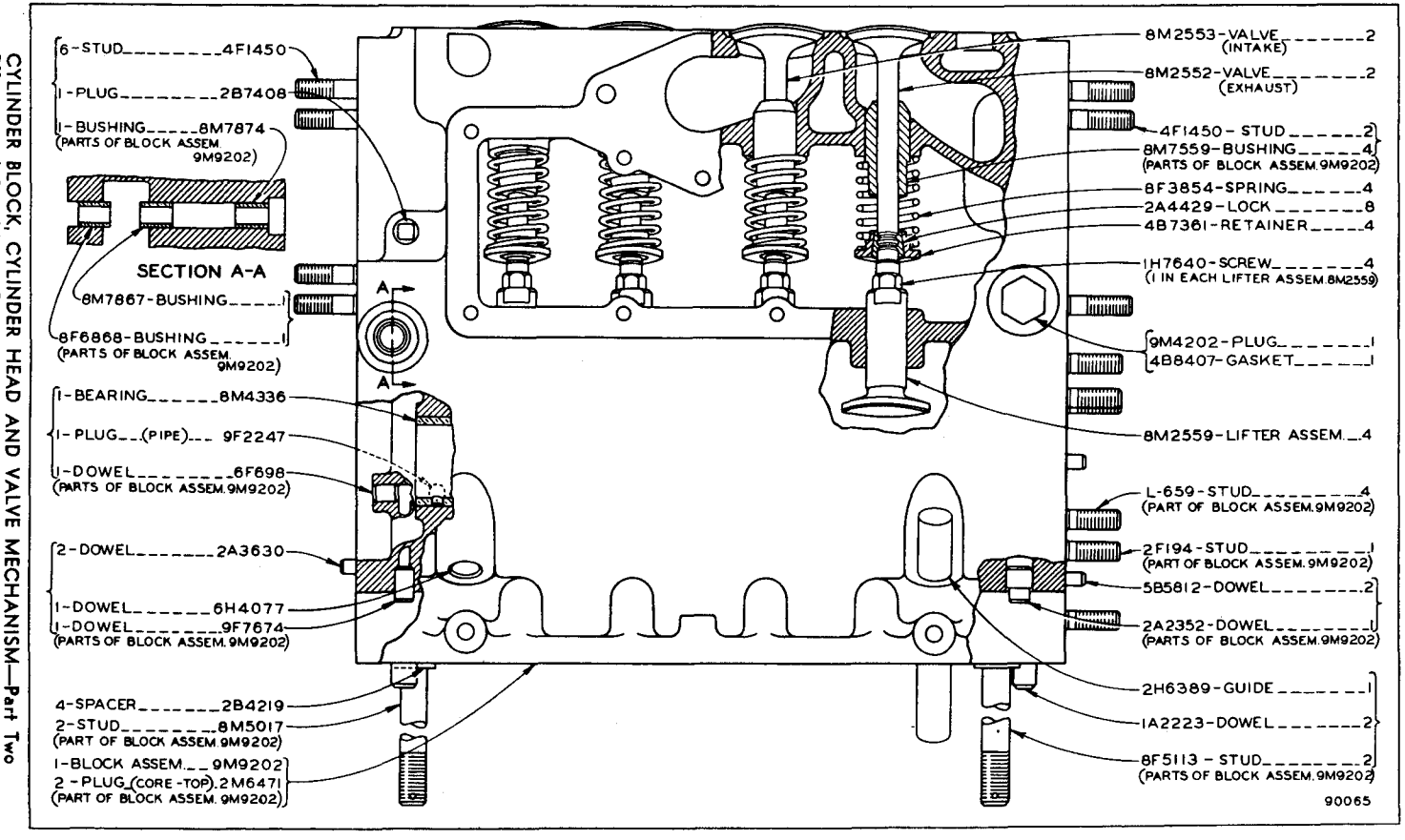
CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part Two

Effective with Serial No. 628196

Basic 4L7207 and 4L3839 Basic Starting Engine Arrangements listed on Pages 42A and 43



CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM--PART ONE
EFFECTIVE WITH SERIAL NO. 62B1869-UP AND STARTING ENGINE BLOCK NO. F3306-UP

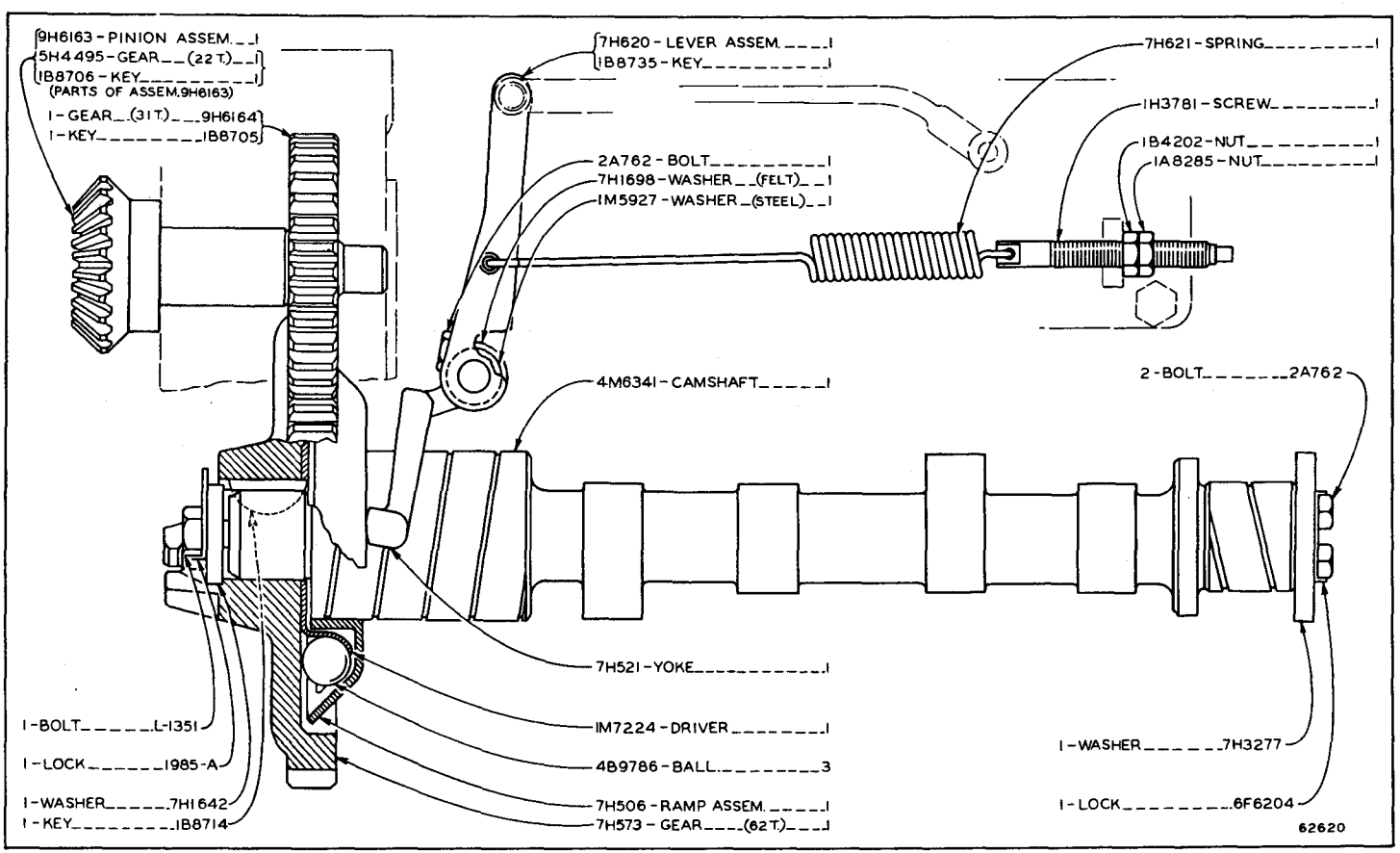


CYLINDER BLOCK, CYLINDER HEAD AND VALVE MECHANISM—Part Two

Effective with Serial No. 62B1869—Up and Starting Engine Block No. F3306—Up

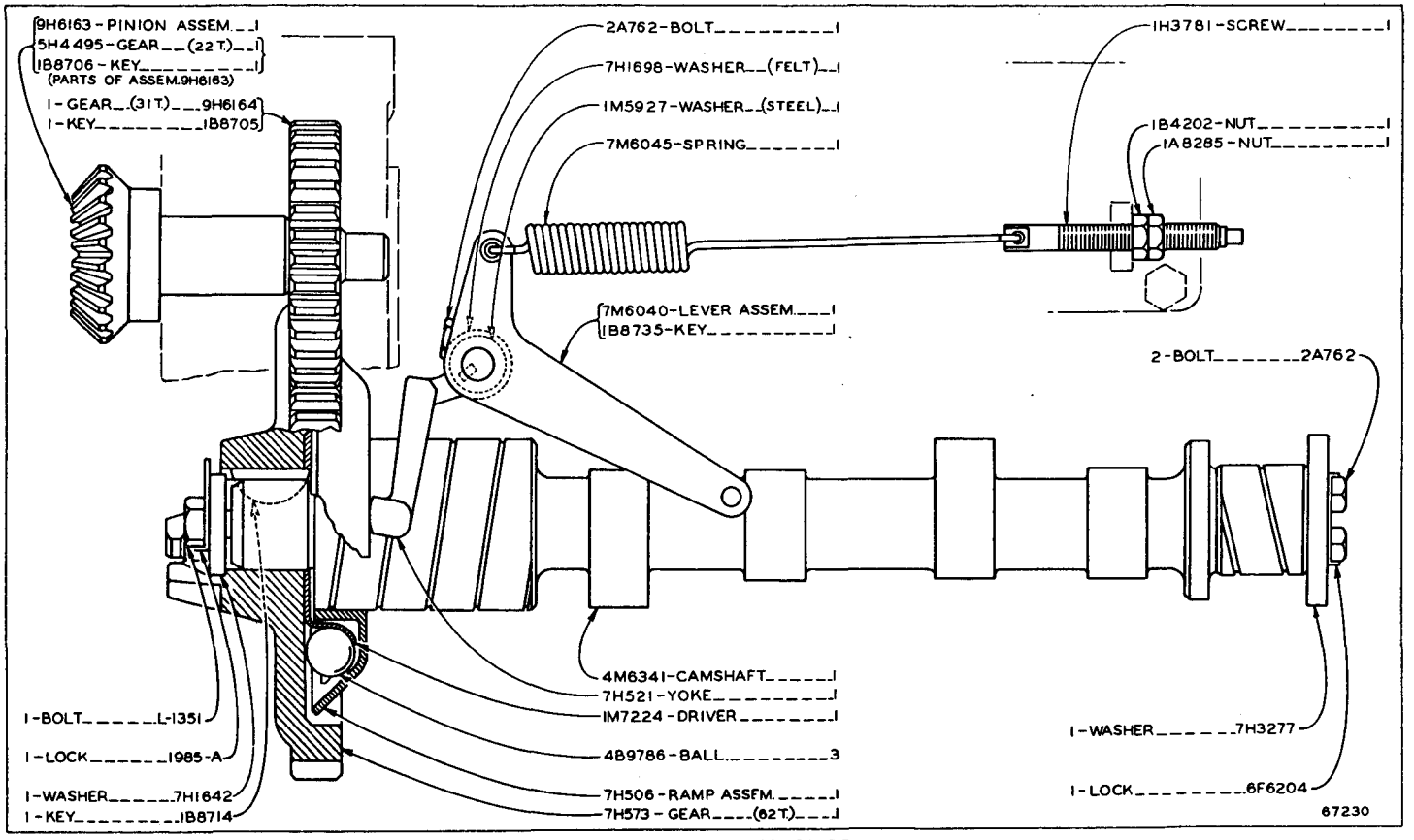
Part of Basic Starting Engine Arrangement listed on insert between Pages 42 and 43

ALWAYS GIVE SERIAL NUMBER WHEN ORDERING PARTS



CAMSHAFT AND GOVERNOR

Part of 4L3839 Basic Starting Engine Arrangement listed on Page 43



CAMSHAFT AND GOVERNOR
Effective with Serial No. 62B196
Part of 4L3839 Basic Starting Engine Arrangement listed on Page 43

ONLY "CATERPILLAR" PARTS GIVE "CATERPILLAR" PERFORMANCE

CAMSHAFT AND GOVERNOR