Chrysler INDUSTRIAL ENGINES

MAINTENANCE AND PARTS LIST

MODEL CODES
T112 - T118 - T120

ISSUED - APRIL 1946

CHRYSLER CORPORATION OF CANADA, LIMITED
WINDSOR, ONTARIO

FACTORY PARTS PLANT, CHATHAM, ONTARIO

WM 4183 SUPERSEDES WM 3713

CHRYSLER INDUSTRIAL ENGINES

THE PARTS LIST AND MAINTENANCE INFORMATION WHICH FOLLOWS HAS BEEN PREPARED BY CHRYSLER CORPORATION, WINDSOR, ONTARIO

A brass identification plate is attached to the manifold side of each engine on which the type number and serial number are stamped. When ordering parts or writing about the engine, always give the ENGINE TYPE and SERIAL NUMBER stamped on the brass plate.

Parts may be ordered from the following points:

Chrysler Corporation of Canada, Limited, Parts Division, Factory Parts Plant, at Chatham, Ontario or Chrysler Corporation of Canada, (Sales) Limited, Regina, Saskatchewan.

> Owners east of Port Arthur, should send their parts orders to the Chrysler Corporation of Canada, Limited, Parts Division, Factory Parts Plant, at Chatham, Ontario, and those from Port Arthur, Ont., west, should send their parts orders to Chrysler Corporation of Canada, (Sales) Limited at Regina, Saskatchewan.

Parts orders should give complete information including:

(1) Name and full shipping address.

(2) Shipping instructions . . . parcel post, freight or express.

(3) Part number and complete name of part.

(4) Engine Type and Serial Number from brass plate.

The maintenance section deals mostly with routine operations which are handled by the engine operator. For the more complex service operations, skilled men and special tools are needed. The division of Chrysler Corporation, over a period of years, have trained hundreds of mechanics in the construction and approved methods of repairing engines of Chrysler manufacture. If the facilities of the engine user are not complete, it is recommended that the Service Department of the Chrysler Motors dealer nearest the unit be consulted. Information may be secured also from the Service Department of Chrysler Corporation, Windsor, Ont.

NOTE: PARTICULAR CARE SHOULD BE TAKEN OF AIR CLEANERS ON ENGINES OPERATING IN OR NEAR EXCAVATIONS OR EARTH HANDLING IN ANY FORM, BLAST FURNACES, STEEL MILLS OR FOUNDRIES.

The crankcase is provided with a ventilating system for the removal of harmful gases that might contaminate the crankcase oil. This system consists of a ventilator outlet pipe at the right rear of the engine and the oil filler pipe at the left front of the engine which forms the air intake.

The oil filler pipe cap has a wire mesh air cleaner for the protection of the ventilating system, and should be cleaned and re-oiled with the carburetor air cleaner.

Oil Filler Pipe Cap Air Cleaner

After each 50 hours of operation remove the oil filler cap. Clean in kerosene, dry thoroughly and re-oil with S.A.E. 50 engine oil.

Oil Filter

After each 400 hours of operation, install a new oil filter element.

Generator and Starter Motor

After 50 hours of operation, fill oil cups with a few drops of light oil.

Engine Water Pump

After each 50 hours of operation, lubricate the engine water pump at the seal (rear)—use water pump grease. At the bearing (front)—use short fiber grease.

Distributor

After each 50 hours of operation, fill the grease cup with fresh grease. Do not over-lubricate, keep oil and grease away from the breaker points.

Cold Weather Operation

1. Never attempt to start engine with wide open throttle.
2. Allow engine to reach normal operating temperature before heavy loads are applied. Best operating temperature is between 160° and 180°F.
3. Keep ignition system cleaned and properly adjusted.
4. In very cold weather it may be advisable to cover part of the radiator.
5. Keep the fuel lines and fuel pump sediment cup clean.
6. Never fill the cooling system with cold water while the engine is hot, a cracked cylinder block might result.
7. When using anti-freeze compounds, follow the manufacturer's directions. Anti-freeze solution containing salt, calcium chloride, soda, sugar or mineral oils will damage the cooling system and should not be used.

IMPORTANT:- Do not operate engine with the thermostat removed as the function of this unit is essential to maintain correct operating temperatures and to insure maximum performance.

HOT WEATHER OPERATION

When operating in abnormally high atmospheric temperatures, special precautions should be taken.

1. Remove or raise hood side panels, if any, to aid circulation of air around engine.
2. Keep cooling system free from obstructions.
3. Check level of electrolyte above plates in battery more often in hot weather as the water evaporates more rapidly.
4. Use S.A.E. 30 oil secured from a reliable source.
5. Keep air cleaners clean and well oiled.
6. Before stopping engine, let idle for few minutes at low speed to cool water and lubricating oil.

ENGINE TUNE-UP

To keep the engine at the highest point of efficiency, it should be frequently checked and if necessary tuned up.

The following points should receive attention:

1. Spark plugs—clean electrodes and porcelains and adjust spark gap to .025 inch.
2. Inspect and dress, if necessary, the breaker points in the distributor and adjust the opening .020 inch.
3. Check distributor cap and rotor for cracks or corrosion.
4. Inspect condenser lead wire for damaged insulation.
5. Check ignition timing. (Model T112—1° B.T.D. C., T116—T.D.C., T118—T.D.C., and T120—2° A.T.D.C.)

NOTE:- The ignition timing has been established for regular grade gasoline of approximately 70 octane rating.

6. Check valve tappet adjustment. (Hot engine—intake .010", exhaust .012").
7. Clean sediment bowl and screen on fuel pump.
8. Check wires for damaged insulation, or loose connections.

WHEN REPLACING OR ASSEMBLING ANY UNIT ALWAYS USE NEW COTTER PINS, LOCK WASHERS, GASKETS AND OIL SEALS TO INSURE STANDARD PERFORMANCE.

COOLING

It is desirable to use clean, soft water which is free from impurities in the cooling system. Water should be as nearly neutral as possible. To insure this, it is good practice to add to the cooling water a rust resistor or inhibitor which may be obtained from any dealer or parts depot of Chrysler Corporation. This is very essential in areas where only alkaline or salt waters are available. Sediment or dirt in water may cause a coating to form in the radiator core and water jackets, reducing radiation and causing overheating.

For protection against freezing, Chryco-Alcohol Base or Chryco-Glycol may be used. Solutions containing salt, calcium chloride, soda, sugar, or mineral oils should never be used in the cooling system. The following table supplies the amount of Chryco-Alcohol Base or Chryco-Glycol with water to make one Imp. gallon of anti-freeze proof against freezing at the Fahrenheit temperatures listed. The capacity of the cooling system for T112-T118 is 4 Gal.—T120—4-1/4 Gal.

To Make 1 Gallon Anti-Freeze

Chryco Alcohol Base:

	+10°F.	0°F.	-10°F.	-20°F.	-30°F.
Alcohol	2-1/2 pts.	3 pts.	3-1/2 pts.	4 pts.	5 pts.
Water	5-1/2 pts.	5 pts.	4-1/2 pts.	4 pts.	3 pts.

Chryco Glycol Base:

	+10°F.	0°F.	-10°F.	-20°F.	-30°F.
Glycol	2 pts.	2-1/2 pts.	3 pts.	3-1/2 pts.	4 pts.
Water	6 pts.	5-1/2 pts.	5 pts.	4-1/2 pts.	4 pts.

With all anti-freeze solutions make sure that there are no leaky hose connections. Check the cooling system for leaks after the first few hours operation. Leaks of anti-freeze do not appear at once when system is filled but generally after the engine is at normal operating temperatures.

CAUTION:- When draining the radiator in cold weather, be sure to drain the cylinder block also. Open the drain cock at the lower corner of the radiator, and also the drain cock on the left side of the engine at the lower edge of the water jacket, as indicated by the illustration to the right (Fig. 2)

WATER PUMP

Water is circulated in the cooling system by a "V" belt driven centrifugal pump. The shaft of this pump turns in two Roller Bearings (in assy. 14) (Fig. 1) and is automatically sealed. This "V" belt drive from the crankshaft includes the generator with the pump and fan shaft. The generator is mounted upon a pivoted bracket for belt adjustment. Only a slight tension is required.

Periodic lubrication through the grease nipples (4A, 4B) is the only attention required. It is advisable to use a water-proof, heat resisting grease now made by all oil companies. For continuous service, lubricant

WATER PUMP

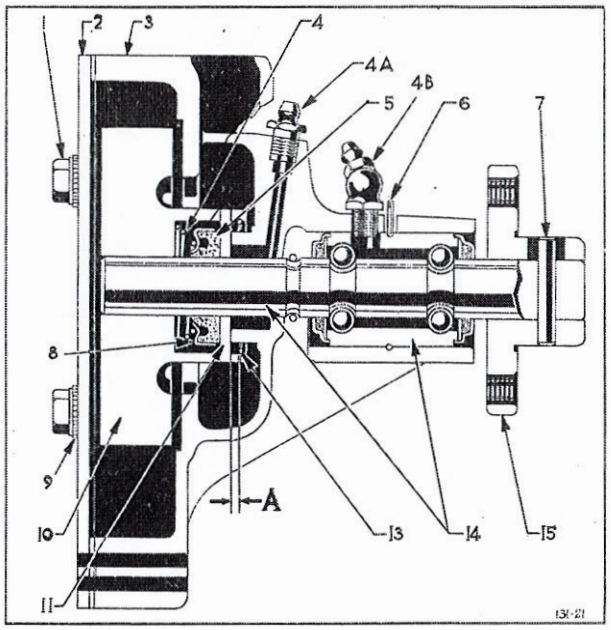
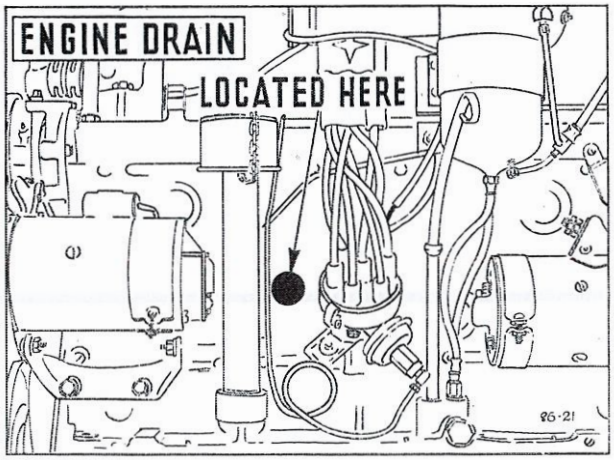


Fig. 1—Water Pump (Assembled View)

1. Body cover plate screw
2. Body cover plate
3. Body
4. Seal thrust spring
4A. Seal lubricant nipple
4B. Bearing lubricant nipple
5. Seal
6. Shaft bearing lock ring
7. Fan pulley hub pin
8. Seal retainer
9. Body cover plate screw lockwasher
10. Impeller
11. Seal retainer washer
12. Body cover plate gasket
13. Seal retainer washer lock ring
14. Shaft and bearing
15. Fan pulley hub
A. Minimum dimensions (3/32")



(Fig. 2)

should be added in small quantities every week by means of a zerk gun.

When an overhaul is necessary on a water pump the following suggestions will be helpful: Drain cooling

system—Loosen generator bracket pivot bolt and remove fan belt—Disconnect water pump by-pass hose and engine inlet hose—Remove cap screws which hold pump body to cylinder block and lift out water pump assembly. To assemble to motor—reverse the foregoing operations.

The thrust spring, seal retainer, seal and seal retainer washer are assembled in the impeller. To remove seal parts, remove washer lock ring No. 13. Removal of lock ring No. 6 will allow the removal of shaft and bearing assembly from housing. The shaft and bearing is sold by Chrysler Corporation Parts Division as an assembly. It is recommended when a complete overhaul is necessary that the water pump assembly be taken to the nearest authorized service station due to the special tools used in the removal and installation of special parts.

ELECTRICAL SYSTEM
DISTRIBUTOR AND SPARK PLUGS

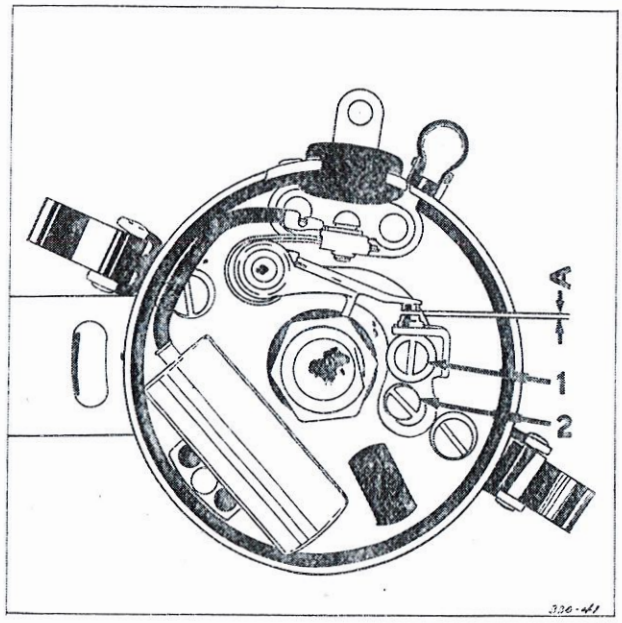


Fig. 3—Distributor Breaker Points

1—Adjustable breaker point lock screw
2—Adjustable breaker point adjusting screw
A—Breaker point gap (.020″)

The ignition distributor is driven by a spiral gear on the camshaft.

Lubrication is required each week by means of an oil cup for the distributor shaft and a few drops of clean engine oil on the small felt wick in the upper end of the distributor shaft, which is visible upon removing the distributor rotor. (Fig. 3)

When the distributor cap is removed inspect the breaker points for condition and gap. The correct gap is .020″ (Camdwell 34-1/2° to 38°). The method of checking is shown in the cut. If breaker points are rough or pitted, replace them.

Ignition timing: (Std. cylinder head and 70 octane fuel) T112 andT118G top dead center. T120 Ignition timing—2° or .002″ ATDC. This requires the proper equipment for checking and it is suggested that changes should not be made unless complete equipment is at hand or the services of someone skilled in that kind of work. Nationwide service is available through Electric Auto-Lite stations and dealers for repair and reconditioning of distributor units, and field service is available through Chrysler Corporation dealers.

The engine firing order is 1-5-3-6-2-4. The spark plug size is 14 m.m. and of the correct heat characteristics for the engine. Keep porcelain clean from oil and dirt above the body. Replacements of spark plugs should be of the same make, size and number (marked on the porcelain above the body) as the original equipment.

Occasionally check spark plug cables for leaks or cracks and snug seating of cable terminals in the distributor cap sockets.

The correct spark plug gap is .025″ which should be checked with a round wire feeler gauge.

GENERATOR, STARTING MOTOR AND BATTERY

The generator is driven by a "V" belt from the crankshaft and is mounted upon a pivoted bracket for belt adjustment.

The generator is a large capacity—air-cooled—shunt type with automatic cutout. Current and voltage regulation is used to maintain a 6-volt starting and ignition battery. The output of the generator is controlled in relation to the voltage requirements, keeping the battery fully charged and maintaining proper voltage under normal conditions. The voltage control feature of the generator prevents overcharging of the battery and because there is no excessive voltage—long life is assured for the electrical system.

Alterations in the generator charging rate should not be attempted except by a qualified automotive electrician or by an official Auto-Lite or Chrysler Corporation Dealer Service Station.

At least once a month a few drops of oil should be applied to the armature shaft bearings through the oil cups provided at each end of the generator.

The starting motor will require little attention except for regular lubrication of the armature shaft bearing. At least once a month or after 50 hours of operation, apply a few drops of clean engine oil to the oil cup at the front end of the starting motor at the same time the generator is being lubricated.

After considerable service, the starting motor and generator may be removed from the engine for examination and test by any dealer of Chrysler Corporation or an authorized Auto-Lite service station. Tools and instruments designed for electrical work are required for repair or test.

The battery water level should not be allowed to fall below the tops of the battery plates but maintained by the addition of distilled water at 3/8″ to 1/2″ above the plates. Hydrometer readings of battery fluid:

Fully charged	1.275
Half charged	1.225
Danger-low	1.150

The freezing point of a discharged battery with 1.150 gravity is about 5°F. above zero, while a fully charged battery will not freeze at temperatures ordinarily encountered.

Keep the top of the battery clean. After scraping the terminals free from corrosion coat them with a non-fluid lubricant to retard corrosion.

CAUTION:- Adjust the fan belt so that it is just snug. Too tight a belt will cause damage to both generator and water pump bearings. Too loose a belt will cause slippage.

CYLINDER BLOCK AND HEAD

The cylinder block has been designed to take full advantage of modern foundry practice. The casting is of close-grained gray iron of sufficient density to provide hard mirror-like surfaces after various machining and honing operations. It is heavily ribbed to prevent distortion by heavy loads and is water-jacketed for the full length of the cylinder bores. Provision is made for a water distributor tube inserted lengthwise of the block from which water is directed at high velocity from slots in the tube against the surfaces adjacent to the exhaust valve seats.

The development of service tools has kept pace with the highly developed equipment used in production. As a result, the same accuracy may be obtained in a modern service station that is required in manufacturing. This is particularly true of tools for reconditioning cylinder bores. Although the final working limit for out-of-round and taper is .0005″, modern hones or boring tools are capable of working to these close limits without disturbing the basic engine design.

If a check of the cylinder bores shows that they are more than .002″ out of round or tapered more than .0015″, reconditioning of the bores is recommended. Piston over-sizes cover a wide range so that it is only necessary to remove sufficient metal to restore the original working limits of the cylinder bores.

The cast iron cylinder head will require tightening from time to time. The tightening (tension 65-70 ft.-lbs.) should begin at the center and progress to the front and rear alternately when the engine is hot. If the cylinder head is removed for any reason, always replace the cylinder head gasket with a new one. The head will require tightening for the second time a few hours after the new gasket is installed.

The flow of water from the cylinder head to the radiator is stopped when the engine is cold by a by-pass thermostat in the water outlet elbow. The water flows directly to the water pump and back into the engine. Uniform and rapid warming up of the engine is accomplished. When the temperature reaches about 155° Fahrenheit, the thermostat allows the water to flow to the radiator in the normal manner. The unit will require no attention. The location and method of assembly is shown in the illustration below. (Fig. 4)

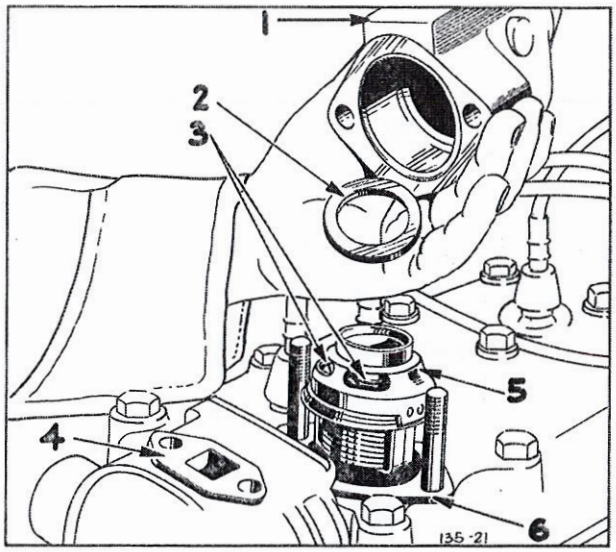


Fig. 4—Removing Thermostat
1—Cylinder head outlet elbow
2—Thermostat gasket
3—Thermostat openings
4—By-pass elbow gasket
5—Thermostat
6—Water outlet elbow gasket

IMPORTANT:- Do not operate the engine with the thermostat removed as the function of this unit is essential to maintain correct operating temperatures and to insure maximum performance.

PISTONS - PINS - RINGS

Light allow pistons are cam ground to an extremely high finish and then subjected to a stannic electrolytic process, which produces a wear-resisting skin on the surface of the piston. The cam grinding operation so shapes the piston that when heated in the engine it conforms to the contour of the cylinder bore.

There are four piston rings, all above the piston pin, for establishing a good compression and oil seal. The two 5/32″ upper compression rings are of the undercut non-fluttering type. Two 5/32″ slotted oil control rings are properly ventilated through drain holes in the two lower ring grooves. Ring gaps should be not less than.007″ and not more than .015″. Side clearance in the ring groove may range from .0015″ to .003″. When the piston is tilted, the rings should barely move in the grooves. All accumulated carbon should be removed from the ring grooves and from the drain holes. Blocking of

the drain holes and sticking piston rings, one of the causes of oil consumption, are often caused by the use of inferior grades of engine oil.

Piston pins are 55/64″ in diameter. A bronze bushing provides the bearing in the upper end of the connecting rod. At ordinary room temperature, the pin is fitted in the connecting rod with a thumb press fit. A thumb press fit of the pin is required in the piston at 130°. The piston must be heated in hot water to 160° Fahrenheit before inserting the piston pin.

Piston clearance is correct when a steady pull of from 4 to 6 pounds is required to withdraw a feeler gauge (.002″ thick and 1/2″ wide) from between the piston and cylinder bore at 70°. This is the equivalent of from .0005″ to .001″ wall clearance.

Place a long feeler gauge in the cylinder bore. After removing the piston pin, insert the piston skirt in the bore with the holes for the piston pin lengthwise of the cylinder block. The check must be made with the feeler gauge against the thrust face of the piston. This is the face at right angles to the piston pin and opposite the side having the slot below the lower ring groove.

A low-reading spring scale of the type pictured below (Fig. 5) is a convenient means of obtaining accurate

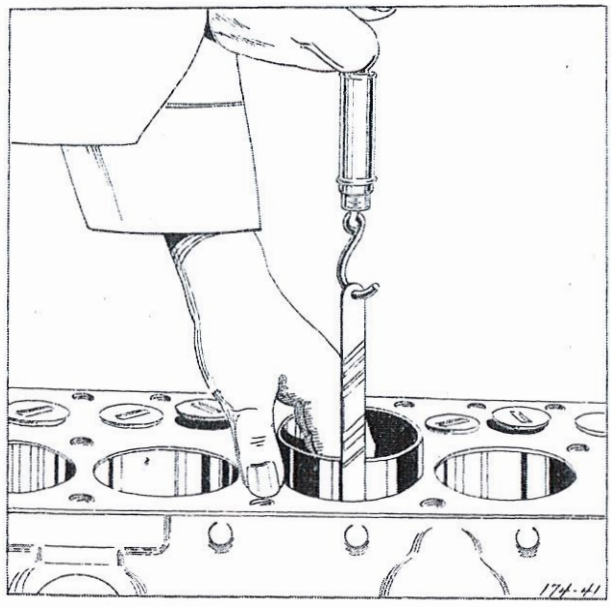


Fig. 5—Fitting Piston with Scale (Tool C-394)

piston fits. To determine the piston diameter, measure it with a micrometer at right angles to the piston pin and about one inch from the lower edge of the piston. All measurements are made with the piston pin removed.

CAMSHAFT, CHAIN AND SPROCKETS

The camshaft, with cams and one distributor and oil pump gear integral, is supported on four bearings. The bearings carry moderate loads at one-half crankshaft speed and seldom require replacement. This camshaft turns in three babbitt-lined bearings of the steel back type and are replaceable, while the fourth bearing, at the flywheel end, runs in the engine block.

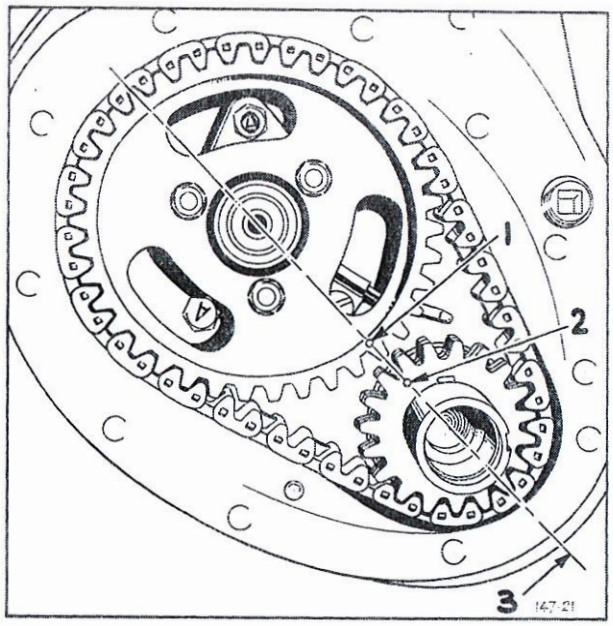


Fig. 6—Marks on Timing Sprockets
1—Mark on camshaft sprocket 3—Center line
2—Mark on crankshaft sprocket

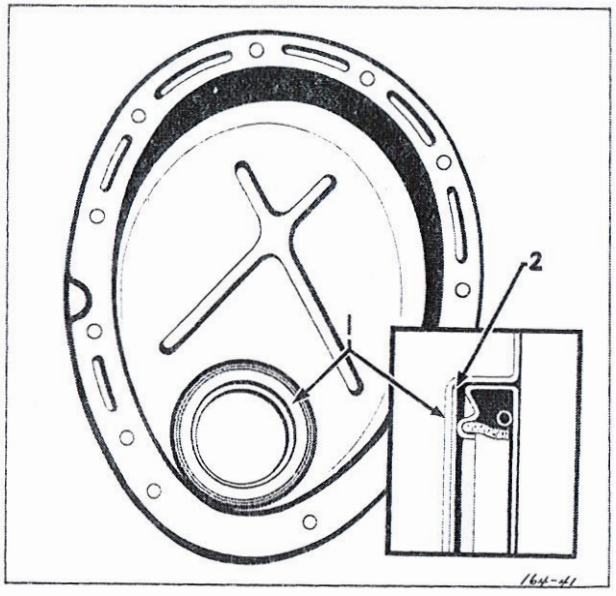


Fig. 7—Chain Case Cover Oil Seal
1—Chain case cover and oil seal 2—Oil seal gasket

The camshaft is driven from the crankshaft by a wide, silent chain and two sprockets. The chain is as short as the diameter of the two sprockets will allow. It is endless and requires no adjustment.

It may be removed only by taking the camshaft sprocket from the sprocket hub. The three screw holes are not universal so that sprocket will fit only in one position. The relation of the crankshaft and camshaft for correct valve timing is secured by installing the chain and camshaft sprockets with the two 0 marks together. See (1) and (2), Fig. 6

The chain and sprockets are continuously lubricated by a jet of oil directed into the inside face of the chain as it rolls onto the crankshaft sprocket. This assembly is covered and sealed oil tight under a stamped steel case (1), (Figure 7) which is provided with a gasket for the flange and circular oil seal (2), (Figure 7) spring retained raw hide, against the hub of the pulley on the front end of the crankshaft. This oil seal assembly is furnished separately.

End thrust of the camshaft is taken by a thrust plate located between the front face of No. 1 camshaft bearing and the rear face camshaft sprocket hub. This plate is allowed from .002″ to .006″ clearance and is bolted to the front face of the cylinder block.

CRANKSHAFT AND CONNECTING RODS

The crankshaft is carried on four bearings and is fully counter-weighted. Crankshaft bearings are of steel, lined with babbitt and copper-plated on the outside to prevent oxidizing. Each bearing shell is removable. Very close manufacturing limits makes it possible to replace bearing shells without scraping or fitting. The normal crankshaft bearing clearance is .001″ to .002″. Crankshaft end thrust is taken at the rear bearing and may range from .003″ to .008″. Connecting rod bearings are of the same removable type as those used for the crankshaft. No scraping or fitting is required when they are replaced. Bearing clearance is from .001″ to .003″ and side thrust is from .005″ to .0115″. A lip on the bearing shell registers with a machined slot in the rod to prevent any tendency of the bearing to revolve. The small hole in the upper bearing shell must coincide with the metered oil hole in the connecting rod. Install the rod so that the oil hole is on the camshaft side of the engine.

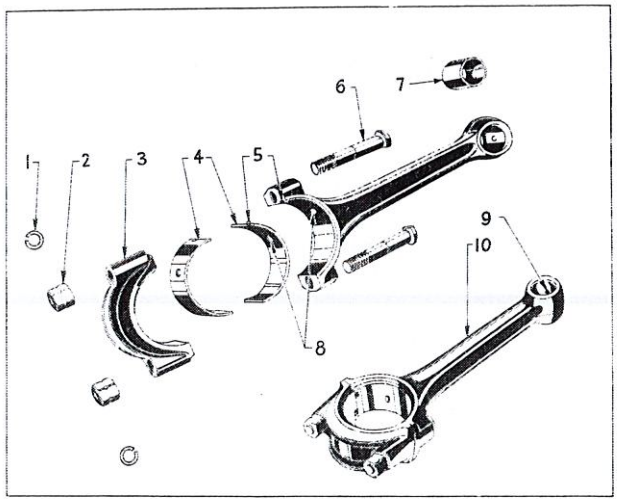


Fig. 8—Connecting Rod

1—Cap bolt nut lockwasher
2—Cap bolt nut
3—Cap
4—Rod bearings
5—Tongue and groove
6—Cap bolt
7—Rod bushing
8—Oil holes
9—Oil hole
10—Rod assembly

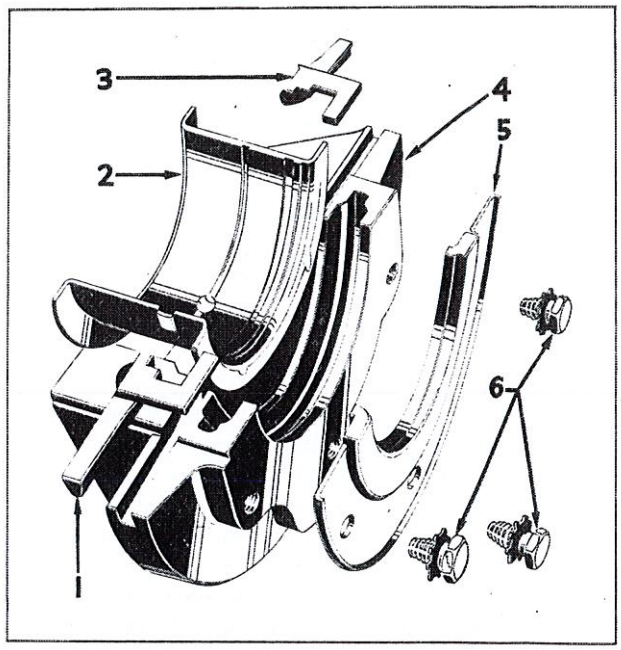


Fig. 9—Crankshaft Rear Bearing Cap Oil Seals

1—Cap gasket—left
2—Bearing
3—Cap gasket—right
4—Cap
5—Oil seal
6—Oil seal screws

Do not file crankshaft or connecting rod bearing caps in order to reduce clearance. Always install new bearing shells. Filed caps produce out-of-round bearings, increase the escape of oil with a resultant decrease in oil pressure, and may cause serious damage to the crankshaft.

The rear crankshaft bearing cap is designed to include an oil seal the details of which are shown in the illustration (Fig. 9). The L shaped gaskets (3) are of special gasket material and must be in the position shown. Molded oil seal (5) act as dams to prevent oil seepage. and are held by screws to the cap and the cylinder block to form a complete circular seal around the crankshaft.

VALVES AND TAPPETS

Valve stem guides are removable. New guides should be installed with upper end 7/8″ below top face of cylinder block. The lower end of the guide is countersunk. New guides must be reamed for the correct clearance in relation to the valve stem.

Inlet valve stem clearance.....001″ to .003″
Exhaust valve stem clearance.....003″ to .005″

Valve tappets operating in a complete spray bath of oil are a long lived assembly and seldom require

attention. In case it is necessary to replace them, they are available in several oversizes listed in the parts book.

The valve lifter or tappet clearance is adjustable and should be set by feeler gauge with the engine hot.

Inlet valve tappet clearance.....010"
Exhaust valve tappet clearance.....012"

The inlet valve seat is cut in the cylinder block and may be refaced in the usual manner.

The exhaust valve seat is a hardened insert that cannot be refaced or cut in the usual manner but, if occasion requires that this seat be trued up, it must be reground with a special grinding stone in a high speed tool. Oversize inserts are available from the parts list. Chrysler Corporation dealers are equipped to service these hard valve seat inserts.

Be sure to assemble intake and exhaust valves correctly. They are both marked. Exhaust valve seats only are provided with hardened inserts.

The valve springs are of the variable pitch type, having coils more closely spaced at the top than at the bottom. Make sure that the closely spaced coils are placed up and about the valve stem guide.

MAINTENANCE INFORMATION

FUEL SYSTEM

FUEL

THE FUEL SYSTEM CONSISTS OF THE FUEL TANK, FUEL LINES, FUEL FILTER, FUEL PUMP, CARBURETOR AND AIR CLEANER.

The most important attention necessary to the fuel system is to keep it clean and free from water. It should be inspected periodically for leaks, particularly around the filter connections and filter bowl.

Since carburetion is dependent in several ways upon both compression and ignition, it should always be checked last in an engine tune-up.

The carburetor delivers the proper air and fuel ratios for all engine speeds and will function properly if taken care of.

CARBURETOR

Up draft and down draft carburetors used on Chrysler engines, Zenith, Carter, Marvel or Stromberg are of the fixed jet type and are not adjustable.

Carburetors are tested and calibrated with each engine before shipping and should never be tampered with.

If adjustments become necessary, it is important that the distributor breaker points and spark plug gaps are properly spaced, the ignition timing correct and the valve tappets set to proper clearance.

What might be considered carburetor trouble could possibly be the failure of other units to function properly.

Adjustments and tune-up must follow in proper sequence for best results:

1. SPARK PLUGS
2. BATTERY & IGNITION CABLES
3. DISTRIBUTOR ASSY.
4. IGNITION TIMING
5. VALVE CLEARANCE
6. CARBURETOR

OPERATION OF FUEL PUMP

The rotation of the camshaft eccentric actuates the rocker arm which pulls the link and diaphragm and and pull rod assembly downward against the diaphragm spring pressure which creates a vacuum in the pump chamber.

On the suction stroke of the pump, fuel from the tank enters through the inlet into the sediment bowl and then passes through the screen and on through the inlet valve into the pump chamber.

On the return stroke, the diaphragm spring pressure pushes the diaphragm upward forcing the fuel from the pump chamber through the outlet valve and out through the outlet to the carburetor.

When the carburetor bowl is filled, the float in the carburetor will shut off the needle valve, thus creating a pressure in the pump chamber. This pressure will hold the diaphragm downward against the spring pressure where it will remain inoperative in the downward position until the carburetor requires further fuel and the needle valve opens. The rocker arm spring is merely for the purpose of keeping the rocker arm in constant contact with the eccentric.

NOTE:- For repairs necessitating removal of diaphragm or overhaul see nearest authorized service station.

CARE OF FUEL SYSTEM

Due to condensation in the fuel tank, water will accumulate in the bottom of the tank, if not drained off periodically may form ice crystals in the fuel lines causing stoppage of flow.

The accumulation of condensation can be kept at a minimum by keeping the fuel tank as full as possible at all times and by taking precautions to strain all fuel added to the tank.

Sediment bowls and strainers should be removed and cleaned at frequent intervals to remove any accumulation of water.

Some of the fuels that are marketed have a tendency to form gum deposits if permitted to remain inactive in the fuel system or carburetor for a period of about three weeks or longer. This is especially true of the so-called highly cracked fuels which have not been subsequently treated to remove these gum forming constituents.

To avoid troubles with gum formation in the fuel systems of stand by engines is to make sure that the gasoline tanks are kept well filled and that the gasoline itself is changed periodically; we would suggest every six weeks or two months.

Standby units may be used very infrequently and may be situated in warm rooms so that the conditions are ideal for promoting gum formation, and any gasoline containing cracked components may give trouble sooner or later.

The use of clean fuel systems, the periodic changing of gasoline in tanks, and the maintenance of a high level of fuel in tanks will be a safeguard against gum deposits. Where the inactive period is known to be longer than three weeks, complete removal of gasoline from the tank, fuel lines, sediment bowls and carburetor is suggested.

LUBRICATION

COLD OIL CHECK: Before a cold engine is started, the oil level should not be less than midway between half and FULL. If the level is less than the midway mark, about one (1) quart is needed.

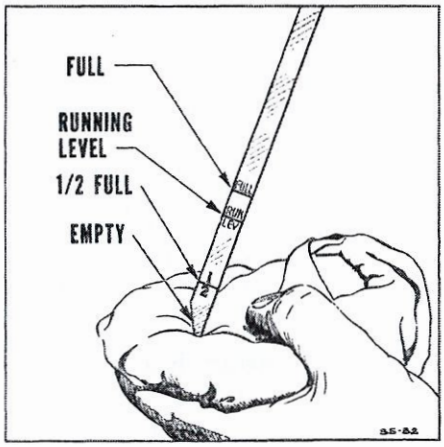


Fig. 10—Engine Oil Level Indicator

HOT OIL CHECK: If the oil level in a hot engine is about midway between half and full, DO NOT ADD MORE OIL. The RUNNING LEVEL WITH a hot engine is at that mark. Excess oil in the engine serves no useful purpose and is generally wasted.

AFTER COMPLETE DRAINAGE: Four (4) quarts only are required to fill the oil pan.

IT IS IMPORTANT to use proper viscosity oil. For summer use No. 30. For Winter temperatures ranging from 45° to 10° use No. 20W. For Winter temperatures ranging from 32° above zero to 10° below zero use No. 10W. For more severe Winter conditions, dilute No. 10W with one-half (1/2) pint of kerosene in four (4) quarts of lubricant.

The need for changing engine oil depends to a large degree upon local conditions. A comparison of the oil in the engine with fresh oil will generally serve as a guide. Lack of body and the presence of abrasives is an indication that fresh oil is needed. Oil should be drained when the engine is hot. While the engine is at normal operating temperatures the oil will drain out more completely and will, therefore, carry more of the foreign material and dirt with it. After removing the drain plug in the oil pan, allow the oil to drain thoroughly. Refill with four (4) quarts of good oil.

The use of a heavy oil when temperatures are low may cause the congealed oil to obstruct the inlet strainer, thus shutting off the oil supply. Sludge gradually collects in the oil pan and may clog the screen. Removal of the oil pan for cleaning of the screen and scraping out of accumulated sediment, which will not drain out when the oil is changed, is a desirable operation once or twice a season. Always use new gaskets when replacing the oil pan after cleaning.

The oil filter gradually accumulates sufficient foreign matter to finally stop the oil flow through it. The filter should be changed before the oil flow ceases or if there seems to be abrasives in the engine oil. A color filter having a removable filtering element is available as special equipment. It removes abrasives and other foreign matter and tends to restore the original color of the oil. The element will require replacement when black specks appear in the oil on the level gauge.

WINTER OPERATION: During Winter, if the engine is operated for short periods of time, water will condense in the crankcase and form a sludge which may freeze and clog the oil inlet screen. This is especially true if Winter temperatures are extremely low for an extended period of time. Under conditions of this kind, the engine does not become sufficiently warm to expel the water through the crankcase ventilation system, and the oil should, therefore, be checked frequently and changed as necessary to eliminate sludge.

DUSTY TERRITORY AND DUST STORMS: Operation in dusty territories or during dust storms introduces abrasive material into the engine. Air cleaners which are kept in good condition decreases the amount of dust that may enter the crankcase. However, if the oil becomes contaminated with dust or dirt, it should be drained promptly to prevent harmful engine wear. The frequency of draining depends upon the severity of the dust conditions and no definite draining periods can be given.

The oil pressure is from 35 to 40 pounds at normal operating speeds. This is automatically maintained and will continue providing there is no unusual escape of oil from some point in the oiling system. As bearings wear and the increased clearance allows more than the normal amount of oil to escape, there will be a drop at the pressure gauge particularly at idling speeds. Any fluctuations in the oil pressure should be investigated immediately. A pressure relief valve on the side of the engine below the ignition distributor allows the escape of oil to the oil pan if the pressure in the system rises beyond the normal point. Adjustment of the spring tension to correct a pressure drop at the gauge should not be attempted. The cause should always be determined and the correction made.

EXTREME TEMPERATURES

When Power Units are operated under extreme weather conditions such as Arctic or desert climate, normal recommendations cannot be adhered to. For that reason the following should be used according to the conditions to which they apply.

Tropical Temperatures

When engines are operated under heavy load conditions, in territories where extremely high temperatures are normally encountered, there will be a thinning of oil and grease.

Under these conditions it is recommended that the various components of the engine be checked and if excessive oil consumption is being experienced, use the next heavier grade of oil to that shown for normal use.

Sub-Zero Temperatures

When engines are operated in areas where Arctic or extremely low temperatures are experienced (temperatures from -10°F. to -40°F.) special precautions have to be taken to ensure that the engine can be started and that the unit can be operated satisfactorily. This is particularly true where it is impossible to keep the unit in a warm shelter and where warm shops are not available when it is necessary to lubricate the engine.

Under conditions outlined above, it is recommended that the various parts of the engine be serviced as indicated below:

Engine Crankcase

For operation in territories where the temperature is consistently below zero, it is necessary to dilute the crankcase oil to reduce its viscosity and to facilitate starting. The amount of dilution necessary will be encountered; the lower the temperature, the greater the dilution which is required.

The most satisfactory method of diluting the engine oil is to add gasoline at the end of the day's operation. When the engine is operated the gasoline will be boiled off being dependent on the length of time it is operated. The procedure outlined below should be followed carefully in diluting the oil and in determining the amount of dilution required:-

At the end of the day's operation—

(a) Stop the engine. Be sure it is reasonably level and allow two minutes for the oil to settle in the crankcase.

(b) Check the oil level.

(c) If the oil level is low, bring it up to the full level mark by adding fresh undiluted oil.

(d) After bringing the oil to the full level mark, add gasoline in accordance with the lowest anticipated night's temperature as indicated on Page 17.

(e) After adding the required quantity of gasoline, start the engine and run just above the idle speed for approximately five minutes. This is important in order to mix the gasoline and oil thoroughly.

(f) If the engine has been operated a short time only during the day, and if the oil level is above the "Full" mark, it may or may not be necessary to dilute further.

NOTE: The person in charge of operations will have to use considerable judgment in determining if further dilution is necessary, or if only a portion of the dilution indicated in the chart should be used. His guide in determining this will be his knowledge of the engine's operation during the day, plus the oil level as indicated on the oil stick, i.e., the higher the oil level, the greater the percentage of dilution remaining in the crankcase.

As an additional guide as to whether or not dilution is necessary, it should be noted that approximately half the gasoline is boiled off in the first hour of operation under normal conditions and after three or four hours of operation it may be considered that all of the dilution has been boiled off.

Amount of Dilution Required at Various Temperatures

Lowest Anticipated Temperature	Percentage Dilution	Amount (pints)
-10	5%	1/2
-20	10%	1
-30	15%	1-1/2
-40	20%	2

Changing Engine Oil

If the engine is operated in a type of service where it is started frequently during the day and is only operated for short periods of time, considerable condensation will be deposited in the crankcase. Under these conditions the oil will never be heated up sufficiently to boil off the water which will then accumulate in the bottom of the crankcase. This accumulation of water will either freeze or it will form an emulsion with the crankcase oil, i.e., sludge. In either case, stoppage of the oil flow will result. Under such operating conditions the oil must be changed more frequently than is normally necessary.

Air Cleaner

The air cleaner should be serviced with S.A.E. 10 or 10W oil diluted with 10 to 15% kerosene.

Under certain conditions, condensation may deposit

on the air cleaner screen and freeze. When the engine is started, the flow of air may be so restricted that the air cleaner will collapse. The only safeguard against this possibility is frequent inspection of the cleaner.

Pressure Fittings

At temperatures below zero it is not possible to use most greases through the grease gun.

Where it is necessary to lubricate at temperatures below zero, Gear Oil 80 (S.A.E. 80 Hypoid) should be supplied.

It is recommended that before an engine is put into operation under cold weather conditions, any heavy grease in the pressure fittings should be forced out.

GENERAL LUBRICATION

Name of Unit	Capacity	How Lubricated	Type of Lubricant	When Required
Engine	4 Quarts	In crankcase	Summer grade-S.A.E. 30 Winter grade-S.A.E. 20	Every 50 hrs. Replace oil if engine idle over 30 days.
Water Pump	As Required	2 lubricant fittings	Rear Fitting (for seal) Water pump grease front fitting (for bearing) short fibre grease	Every 50 hours.
Distributor	2 or 3 drops	Remove cap and rotor apply 2 or 3 drops to oil cup wick beneath rotor and a smear of mineral jelly to cam. CAUTION: See that no oil or grease is on or near breaker points	Engine oil Mineral jelly	Every 50 hrs.
Generator	5 drops each cup	1 cup at front Oil hole with sliding cover at rear	**Light** engine oil	240 hrs.
Starting Motor	5 drops	In 1 oil cup	Engine oil	240 hrs.
Carburetor, Air Cleaner and Fire Arrester		Wash element in Kerosene, allow to dry, saturate with engine oil	Engine oil	Every 200 hours or oftener in dusty sections.
Oil filler pipe Cap air cleaner		Wash element in kerosene, allow to dry, saturate with engine oil	Engine oil	Every 200 hrs. or oftener in dusty sections.
Governor	6 drops	Oil cup	Engine oil	Daily
Transmission	Refill 5-speed, 9 pts. 4-speed, 5 pts.	Filler plug at side of case	S.A.E. 140 E.P.	Check every 50 hrs. Change every 800 hrs. or 6 mos.
Fluid Coupling	5 quarts, to level of filler hole at approximately 70 degrees.	Through filler hole inside clutch housing	**Chrysler** fluid coupling oil only	Check every 200 hrs. If repaired, change oil
Universal Joints	2 pumps	2 fittings	Short fibre grease	50 hrs.

CHRYSLER INDUSTRIAL ENGINES

SERVICE STANDARDS

Engine	MODELS T 112	T 118	T 120
Type	L Head	L Head	L Head
No. of Cylinders	6	6	6
Bore	3-3/8″	3-7/16″	3-7/16″
Stroke	4-1/16″	4-1/4″	4-1/2″
Piston Displacement (cu. in.)	218.6	236.6	250.6
Compression Ratio	6.8	6.8	6.8
Maximum Torque (Ft.-Lbs.)	166 @ 1200 R.P.M.	183 @ 1200 R.P.M.	192 @ 1400 R.P.M.
Bearing Clearance	.002″ to .004″	.002″ to .004″	.002″ to .004″
End Play	.002″ to .006″	.002″ to .006″	.002″ to .006″
Bearing sizes:			
No. 1 (front)	2″x1-3/32″	2″x1-3/32″	2″x1-3/32″
No. 2	1-31/32x1-1/16″	1-31/32″x1-1/16″	1-31/32″x1-1/16″
No. 3	1-15/16x1-1/16″	1-15/16″x1-1/16″	1-15/16″x1-1/16″
No. 4	1-1/4″x1-1/4″	1-1/4″x1-1/4″	1-1/4″x1-1/4″
Connecting Rods			
Bearing Clearance	.001″ to .003″	.001″ to .003″	.001″ to .003″
End Play	.005″ to .011″	.005″ to .011″	.005″ to .011″
Bearing Size	2-1/8″x1-3/32″	2-1/8″x1-3/32″	2-1/8″x1-3/32″
Crankshaft			
Bearing Clearance	.001″ to .003″	.001″ to .003″	.001″ to .003″
End Play	.003″ to .008″	.003″ to .008″	.003″ to .008″
Bearing Sizes:			
No. 1	2-1/2″x1.155″	2-1/2″x1.155″	2-1/2″x1-15/16″
No. 2	2-1/2″x1.155″	2-1/2″x1.155″	2-1/2″x1-15/16″
No. 3	2-1/2″x1.155″	2-1/2″x1.155″	2-1/2″x1-15/16″
No. 4	2-1/2″x1.589″	2-1/2″x1.589″	2-1/2″x1-7/8″
Thrust Taken By	Rear Main Bearing	Rear Main Bearing	Rear Main Bearing
Cylinders			
Maximum allowable taper	.0015″	.0015″	.0015″
Maximum allowable out of round	.002″	.002″	.002″
Reconditioning working limits	.0005″	.0005″	.0005″
Distributor			
Breaker point opening	.020″	.020″	.020″
Breaker point spring tension	.18 to 20 oz.	.18 to 20 oz.	.18 to 20 oz.
Ignition Timing	T.D.C.	T.D.C.	2° or .002″ A.T.D.C.
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Oil Pressure			
At 1500 R.P.M.	30 to 40 lbs.	30 to 40 lbs.	30 to 40 lbs.
Capacity of engine	4 imp. qts.	4 imp. qts.	4 imp. qts.
Pistons			
Material	Alum-Alloy	Alum-Alloy	Alum-Alloy
Fitting Clearance	Use .002″ feeler 1/2″ wide. Pounds Pull on Scale 4 to 6 lbs.	Use .002″ feeler 1/2″ wide. Pounds Pull on Scale 4 to 6 lbs.	Use .002″ feeler 1/2″ wide. Pounds Pull on Scale 4 to 6 lbs.
Piston Pins			
Bearing Length	1-1/8″	1-1/8″	1-1/8″
Clearance in Piston @ 130° room temperature	Thumb push fit	Thumb push fit	Thumb push fit
In Connecting Rod Bushing	Thumb push fit	Thumb push fit	Thumb push fit

SERVICE STANDARDS (Continued)

	MODELS		
Spark Plugs	T 112	T 118	T 120
Piston Rings			
Gap Clearance	.007" to .015"	.007" to .015"	.007" to .015"
Compression Rings (top)			
Number per piston	2	2	2
Width	3/32"	3/32"	3/32"
Side Clearance in Groove	.002" to .004"	.002" to .004"	.002" to .004"
Oil Control Rings (lower)			
No. per piston	2	2	2
Width	5/32"	5/32"	5/32"
Side Clearance in Groove	.001 to .0025	.001 to .0025	.001 to .0035
Make	Auto-Lite A-7-A	Auto-Lite A-7-A	Auto-Lite A-7-A
Size	14 MM.	14 MM.	14 MM.
Gap	.025"	.025"	.025"
Torque Wrench Pull	26 to 32 Ft. Lbs.	26 to 32 Ft. Lbs.	26 to 32 Ft. Lbs.
Valves			
Stem Diameter Exhaust	3.385" to 3.405"	3.385" to 3.405"	3.385" to 3.405"
Stem Diameter Intake	3.40" to 3.415"	3.40" to 3.415"	3.40" to 3.415"
Guide diameter to ream after installing:			
Inlet	3.425" to 3.435"	3.425" to 3.435"	3.425" to 3.435"
Exhaust	3.425" to 3.435"	3.425" to 3.435"	3.425" to 3.435"
Distance from top of valve guide to top face of cylinder block	7/8"	7/8"	7/8"
Valve Seats			
Angle	45°	45°	45°
Width	.090"	.090"	.090"
Valve Springs			
Valve spring pressure in pounds:			
Compressed to 1-3/8"	107 to 115 lbs.	107 to 115 lbs.	107 to 115 lbs.
Compressed to 1-3/4"	40 to 45 lbs.	40 to 45 lbs.	40 to 45 lbs.
Valve Tappets			
Valve Tappet Clearance to check engine cold:			
Inlet	.014"	.014"	.014"
Exhaust	.014"	.014"	.014"
Valve Clearance (engine hot):			
Inlet	.010"	.010"	.010"
Exhaust	.012"	.012"	.012"
Valve Timing			
Inlet Opens	12° B.T.D.C.	12° B.T.D.C.	12° B.T.D.C.
Exhaust Closes	6° A.T.D.C.	6° A.T.D.C.	6° A.T.D.C.

NOTE: Location of engine number—Plate below Rear Tappet Cover, Manifold side of engine.

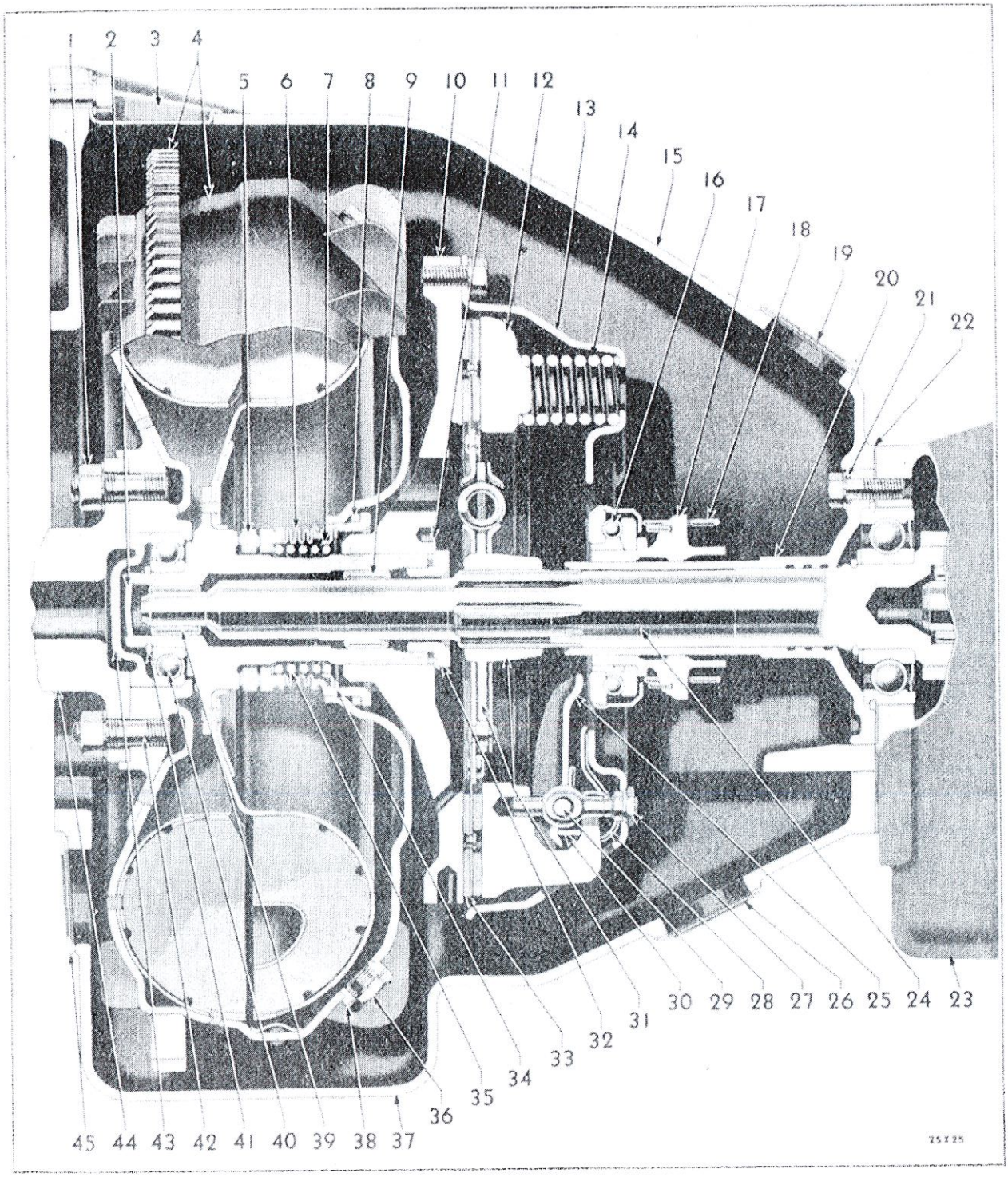


Fig. 11—Fluid Drive and Clutch

1—Driver flange stud nut and lockwasher
2—Runner hub plug
3—Clutch housing bolt hole cover
4—Fluid drive assembly
5—Floating seal ring
6—Seal assembly
7—Seal spring retainer
8—Seal retainer gasket
9—Runner hub inner bearing—rear
10—Clutch driving plate
11—Clutch driving plate nut locking washer
12—Clutch pressure plate
13—Clutch cover
14—Clutch pressure spring
15—Clutch housing
16—Clutch release bearing
17—Clutch release bearing sleeve
18—Clutch release bearing pull-back spring
19—Clutch housing ventilator hole screen
20—Transmission drive pinion bearing retainer
21—Transmission drive pinion bearing retainer screw grommet
22—Transmission case to clutch housing gasket
23—Transmission assembly
24—Transmission drive pinion
25—Clutch release lever
26—Clutch housing pan ventilator hole screen
27—Clutch release lever eye bolt and nut
28—Clutch release lever spring
29—Clutch release lever pin
30—Clutch release lever strut
31—Clutch driving disc assembly
32—Clutch driving plate nut
33—Clutch driving disc facing
34—Seal spring retainer snap ring
35—Seal spring
36—Filler plug
37—Clutch housing pan
38—Filler plug gasket
39—Runner hub inner bearing—front
40—Runner hub bearing—outer
41—Runner hub bearing snap ring
42—Driver flange stud
43—Driver flange plug
44—Engine crankshaft
45—Housing pan ventilator hole screen

FLUID COUPLING

The Chrysler (GYROL) Fluid Coupling is shown in (Fig. 11). This unit consists of two moving parts, the driving member and the driven member.

The driven member is enclosed within the driving member with the exception of the hub at the rear side. There is no mechanical connection between the two members. The driving member is bolted to the crankshaft flange exactly as the conventional flywheel, while the driven member is joined to the standard clutch (and transmission if used).

The driving member, which rotates with the engine, sets the fluid drive oil in motion thus transmitting power to the driven member which in turn transmits power through the clutch to the driven mechanisms.

The operation of the fluid drive is fully automatic and under normal conditions requires no attention other than a periodic inspection of the oil level.

However, should some difficulty develop do not attempt to repair coupling but consult the nearest authorized dealer in your locality.

Special handling of parts and special tools are required, and only those thoroughly familiar with this assembly should make repairs.

Important

THE CAPACITY OF THE FLUID DRIVE ASSEMBLY IS 7.5 IMPERIAL QUARTS OF SPECIAL OIL. DO NOT USE SUBSTITUTE OILS AS THEY WILL CARBONIZE UNDER HEAT, CAUSE DIFFICULTY IN THE BEARINGS AND EFFECT THE OPERATION AND PERFORMANCE OF THE ENGINE AND UNIT.

Loss of oil or insufficient oil in the fluid drive assembly is readily noticeable by the increased speed of the engine. It should be replenished immediately; otherwise excessive heat will develop in the assembly and cause serious damage. Make sure the throttle is set so engine will idle at 400 R.P.M. A high throttle setting will give the unit a tendency to creep also generating excessive heat.

ILLUSTRATED PARTS SECTION

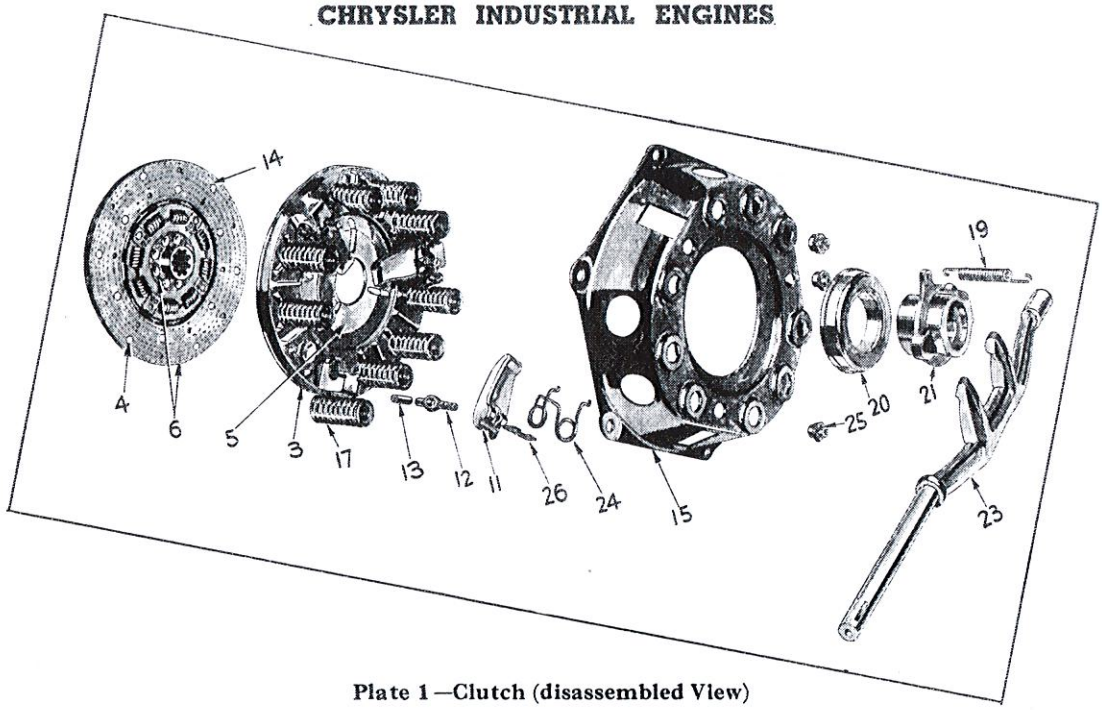


Plate 1—Clutch (disassembled View)

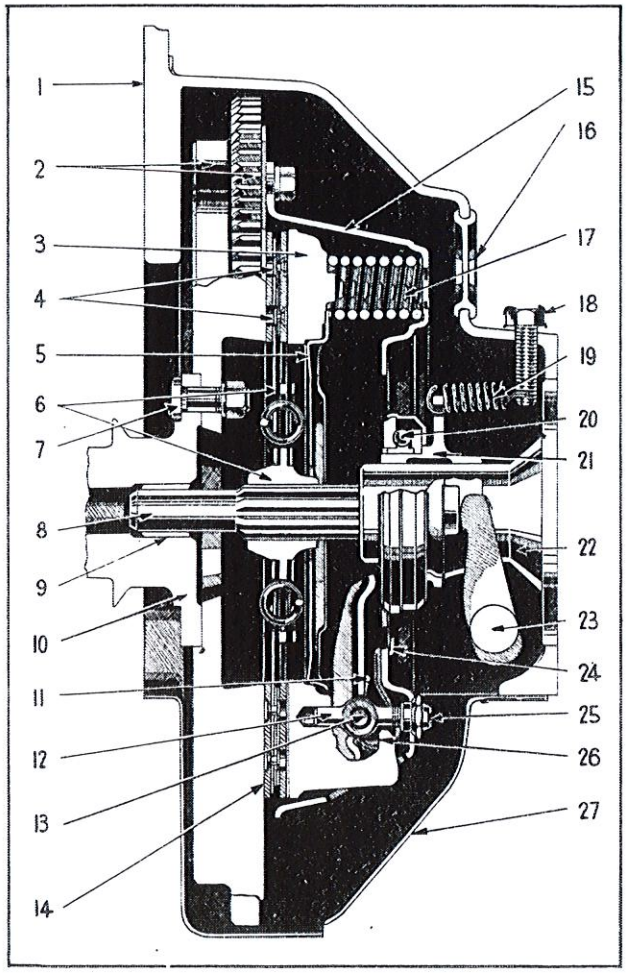


Plate 1 and 2—Clutch

1—Housing
2—Engine flywheel and ring gear
3—Pressure plate
4—Disc facing rivets
5—Pressure plate baffle
6—Disc assembly
7—Engine flywheel bolt
8—Transmission drive pinion
9—Engine crankshaft bushing (transmission drive pinion pilot bushing)
10—Engine crankshaft
11—Release lever
12—Release lever eye bolt
13—Release lever pin
14—Disc facing
15—Cover
16—Housing hole plug
17—Pressure spring
18—Release bearing pull-back spring screw
19—Release bearing pull-back spring
20—Release bearing
21—Release bearing sleeve
22—Transmission drive pinion bearing retainer
23—Release fork
24—Release lever spring
25—Release lever eye bolt nut
26—Release lever strut
27—Housing pan

Plate 2—Clutch (Assembled View at Left)

CLUTCH

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Clutch Housing, Pan, and Attaching Parts					
Housing assy. (with bushing)-standard	579840	1	1	1	
Screw (small-upper) (to cyl. block)	120918	1	1	1	
Screw (small-lower) (to cyl. block)	122145	4	4	4	
Screw (large) (to cyl. block)	122279	1	1	1	
Lockwasher (small)	131099	5	5	5	
Lockwasher (large)	120383	1	1	1	
Plug (hole)	660324	1	1	1	
Pan	580126	1	1	1	
Screw	120228	6	6	6	
Lockwasher	120214	6	6	6	
Dust seal and plate assy.	561083	1	1	1	
Dust seal-lower	561082	1	1	1	
Dust seal-upper	600817	1	1	1	
Rivet	136612	10	10	10	
Screw-large	122104	2	2	2	
Lockwasher-large	120382	2	2	2	
Screw-small	120228	2	2	2	
Lockwasher-small	120214	2	2	2	
Housing assy. (narrow leg No. 4) (19″)	952074	1	1	1	
Screw (small-upper) (to cyl. block)	120918	1	1	1	
Screw (small-lower) (to cyl. block)	122145	4	4	4	
Screw (large) (to cyl. block)	122279	1	1	1	
Lockwasher (small)	131099	5	5	5	
Lockwasher (large)	120383	1	1	1	
Housing assy. (with fluid drive)	868749	1	1	1	
Screw (large) (to cyl. block)	122267	2	2	2	
Screw (small) (to cyl. block)	122145	4	4	4	
Lockwasher (small)	131099	4	4	4	
Lockwasher (large)	120383	2	2	2	
Plug (filler hole)	854403	2	2	2	
Plug (hole)	868748	2	2	2	
Screen (vent hole)-upper (4-1/8″ long)	698606	1	1	1	
Drive pin	697574	2	2	2	
Screen (vent hole)-side (3-7/16″ long)	854400	1	1	1	
Dust cover assy.	657054	1	1	1	
Screw (small)	121867	2	2	2	
Screw (large)	121986	4	4	4	
Lockwasher (small)	120380	2	2	2	
Lockwasher (large)	120214	4	4	4	
Pan	868715	1	1	1	
Screw (short)	120229	6	6	6	
Screw (long)	122045	2	2	2	
Lockwasher	120214	8	8	8	
Bracket-right	667515	1	1	1	
Bracket-left	667516	1	1	1	
Screw (pan to bracket)	120233	4	4	4	
Lockwasher	120382	4	4	4	
Screw (pan to cyl. block)	122145	4	4	4	
Lockwasher	120382	4	4	4	

CLUTCH (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Dust seal	600817	1	1	1	
Rivet	104441	6	6	6	
Screen (vent hole) (4-15/16" long)	955621	1	1	1	
Cover (vent hole)	870062	2	2	2	
Drive Pin	697574	8	8	8	
Clutch Disc					
Assembly (11" Dia.)	564784	1	1	1	
Assembly (with fluid drive)	864054	1	1	1	
Facing	623886	2	2	2	
Facing (with fluid drive)	859882	2	2	2	
Rivets	121573	24	24	24	
Rivets (with fluid drive)	121573	32	32	32	
Clutch Cover and Pressure Plate					
Assembly (for 11" clutch)	586856	1	1	1	
Assembly (with fluid drive)	864053	1	1	1	
Cover	685334	1	1	1	
Cover (with fluid drive)	855518	1	1	1	
Screw (to flywheel)	314926	8	8	8	
Screw (with fluid drive)	307555	6	6	6	
Lockwasher (for 314926)	131099	8	8	8	
Lockwasher (for 307555)	120214	6	6	6	
Pressure plate	697464	1	1	1	
Pressure plate (with fluid drive)	866787	1	1	1	
Baffle	586857	1	1	1	
Release lever	683963	4	4	4	
Release lever (with fluid drive)	864396	3	3	3	
Clevis pin	619463	4	4	4	
Clevis pin (with fluid drive)	619463	3	3	3	
Spring	316767	4	4	4	
Spring (with fluid drive)	622915	3	3	3	
Strut	619466	4	4	4	
Strut (with fluid drive)	619466	3	3	3	
Eye bolt and nut assy.	623764	4	4	4	
Eye bolt and nut assy. (with fluid drive)	855524	3	3	3	
Nut	314293	4	4	4	
Nut (with fluid drive)	855523	3	3	3	
Spring (pressure plate)	634753	12	12	12	
Spring (pressure plate) (with fluid drive)	864397	9	9	9	
Clutch Release Bearing					
Assembly	581499	1	1	1	
Assembly (with fluid drive)	658948	1	1	1	
Sleeve	915059	1	1	1	
Sleeve and spring assy. (with fluid drive)	867735	1	1	1	
Pull back spring	573318	1	1	1	
Pull back spring (with fluid drive)	671915	2	2	2	
Screw (std. clutch)	579719	1	1	1	

CLUTCH (Cont'd)

PART NAME	PART No.	MODELS			NOTES
		T112	T118	T120	
Clutch Release Fork (with std. clutch)					
Fork	561537	1	1	1	
Bushing	50519	1	1	1	
Screw	122104	1	1	1	
Lockwasher	120382	1	1	1	
Flange assembly	56812	1	1	1	
Bushing	306770	1	1	1	
Screw	122017	2	2	2	
Lockwasher	120214	2	2	2	
Felt	306769	1	1	1	
Clutch Release Fork (and socket)—(with Fluid Drive Clutch)					
Assembly	863916	1	1	1	
Seal	655466	1	1	1	
Rivet	113194	1	1	1	
Pivot	633238	1	1	1	
Spring	863905	1	1	1	
Rivet	118140	2	2	2	
Screw	178823	1	1	1	
Lockwasher	138617	1	1	1	

COOLING

WATER PUMP

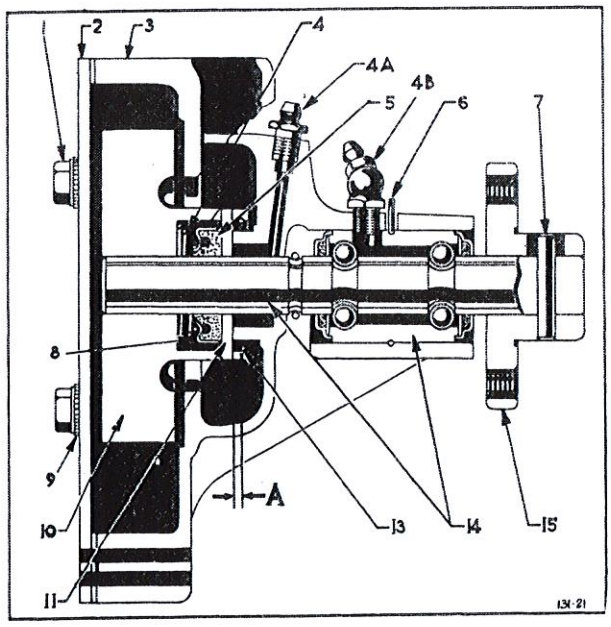


Plate 3

Ref. No.	Part Name
1	Body cover plate screw
2	Body cover plate
3	Body
4	Seal thrust spring
4A	Seal lubricant nipple
4B	Bearing lubricant nipple
5	Seal
6	Shaft bearing lock ring
7	Fan pulley hub pin
8	Seal retainer
9	Body cover plate screw lockwasher
10	Impeller
11	Seal retainer washer
12	Body cover plate gasket
13	Seal retainer washer lock ring
14	Shaft and bearing
15	Fan pulley hub
A	Minimum dimension (3/32")

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
FAN, PULLEYS, BELTS					
Fan blade-standard					
Assembly (standard)	687669	1	..	..	
Assembly (standard)	920113	..	1	1	
Assembly (pusher type-6 blade 60°)	671155	1	1	1	
Assembly (pusher type-4 blade 90°)	612930	1	1	1	
Screw	120228	4	4	4	
Lockwasher	120214	4	4	4	
Fan belt					
Belt	608766	1	1	1	
Fan pulley-at fan					
Pulley	670500	1	1	1	
Hub	676240	1	1	1	
Pin	127812	1	1	1	
Fan drive pulley-at crankshaft					
Pulley (with governor)	676222	1	1	1	
Pulley	954116	1	1	1	
Key	52570	1	1	1	
RADIATOR CORE					
Radiator core package	993015	1	1	1	
Consists of:					
Radiator core assembly	920200	1	1	1	
Radiator inlet hose	530444	1	1	1	

COOLING (Cont'd)

PART NAME	PART No.	MODELS			NOTES
		T112	T118	T120	
Radiator inlet hose clamp	870469	2	2	2	
Radiator outlet hose-upper	319942	1	1	1	
Radiator outlet hose-lower	694249	1	1	1	
Radiator outlet hose clamp	870469	4	4	4	
Radiator outlet tube (metal)	694244	1	1	1	
Radiator filler cap	776379	1	1	1	
Drain cock	907782	1	1	1	
Water pump					
Assembly	1073144	1	1	1	
Body	868927	1	1	1	
Screw-short	122145	1	1	1	
Screw-long	122181	2	2	2	
Lockwasher	120382	3	3	3	
Grease nipple	110347	1	1	1	
Cover plate	637438	1	1	1	
Screw	121900	4	4	4	
Lockwasher	121753	3	3	3	
By-pass elbow	855452	1	1	1	
Gasket	622772	1	1	1	
Screw	122017	2	2	2	
Lockwasher	120214	2	2	2	
Hose (1-3/4" of 680445)	685186	*	*	*	
Clamp	870469	2	2	2	
Elbow plug-(square head)	103867	1	1	1	
Elbow plug (countersunk headless)	103873	1	1	1	
Water pump seal package	939795	1	1	1	
Consists of:-					
Water pump seal and spring assy.	1073146	1	1	1	
Water pump seal retainer washer	867409	1	1	1	
Water pump seal lock ring	600811	1	1	1	
Water pump repair kit	947533	1	1	1	
Consists of:-					
Water pump shaft and bearing assy.	869037	1	1	1	
Impeller	676234	1	1	1	
Water thrower	676564	1	1	1	
Seal and spring assembly	1073146	1	1	1	
Seal washer	867409	1	1	1	
Seal lock ring	600811	1	1	1	
Shaft bearing lock ring	678630	1	1	1	
Cover plate gasket	637439	1	1	1	
Body gasket	637440	1	1	1	
Hub pin	136301	1	1	1	
Grease nipple	110308	1	1	1	
Washer (copper)	51019	1	1	1	
Thermostat					
Assembly	936687	1	1	1	
Assembly (with high boiling point anti-freeze)	868432	1	1	1	
Gasket	863220	1	1	1	

COOLING (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Temperature gauge					
Assembly (includes oil gauge)	923708	1	1	1	
Gauge (only)	591988	1	1	1	
Terminal nut	120614	2	2	2	
Lockwasher	120217	2	2	2	
Housing assy.	591982	1	1	1	
Face plate	591983	1	1	1	
Gasket	591984	1	1	1	
Bezel (chrome)	591981	1	1	1	
Bezel (black enamel)	923707	1	1	1	
Gasket	592489	1	1	1	
Glass dial (temperature and oil gauge)	591985	1	1	1	
Gasket	592490	1	1	1	
Screw (mounting)	122159	2	2	2	
Nut	120622	2	2	2	
Lockwasher	121841	2	2	2	
Radiator hose (3 ft. length)					
2-1/8" I.D.x2-1/2" O.D. used to make: 530444-9-1/4" long	396326	*	*	*	
1-1/2" I.D.x1-7/8" O.D. used to make: 319942-3-3/4" long 694249-6-3/4" long 3 ft. length	396328	*	*	*	

ELECTRICAL

GENERATOR

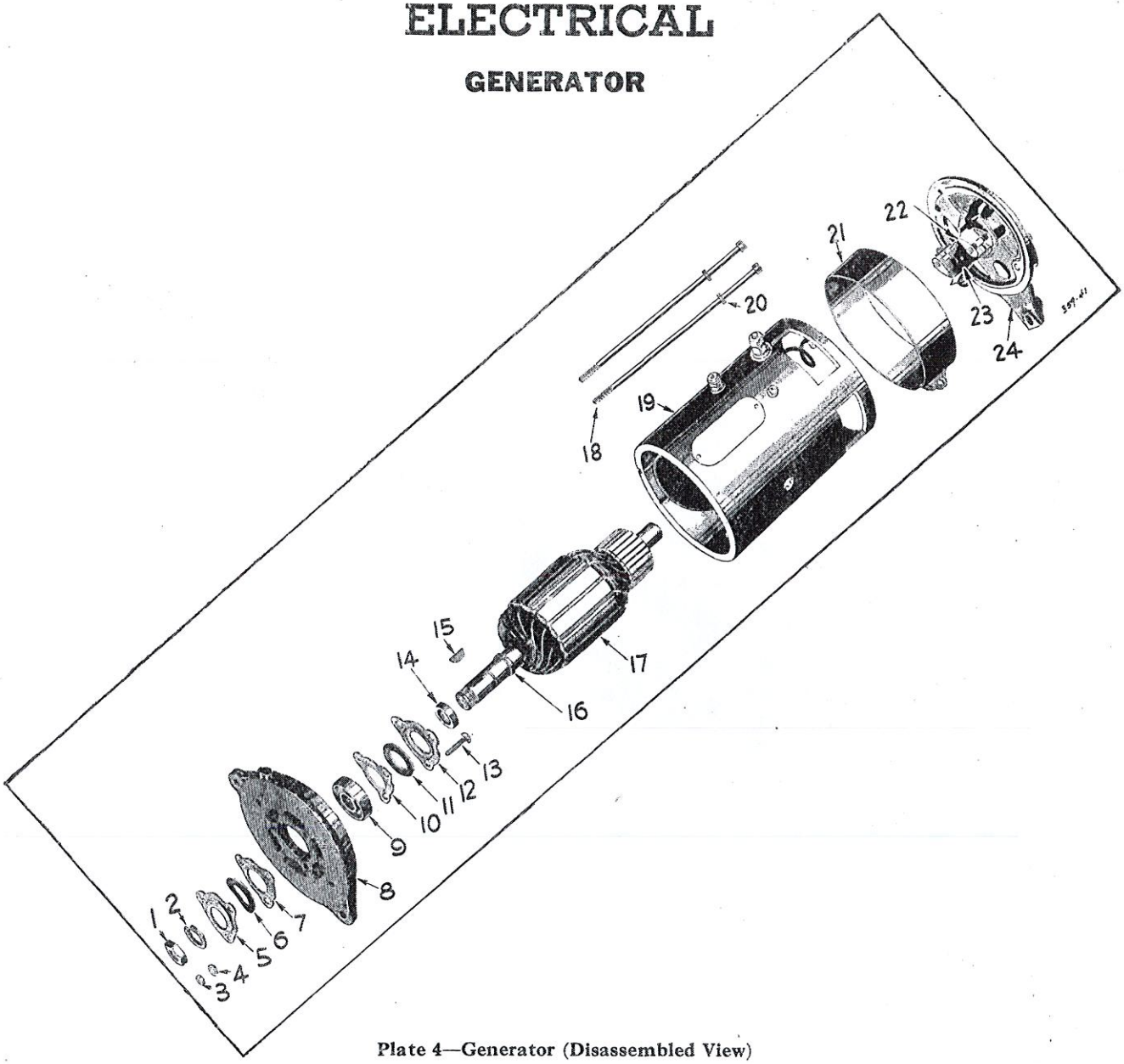


Plate 4—Generator (Disassembled View)

1—Armature shaft nut washer
2—Armature shaft nut lockwasher
3—Bearing retainer screw nut
4—Bearing retainer screw nut lockwasher
5—Bearing retainer
6—Felt washer
7—Felt guard
8—Drive end head
9—Front bearing
10—Felt guard
11—Felt washer
12—Bearing retainer
13—Bearing retainer screw
14—Felt washer retainer
15—Pulley key
16—Snap ring
17—Armature assembly
18—Frame screw
19—Frame and field assembly
20—Frame screw lockwasher
21—Head or inspection band
22—Main brush set
23—Main brush set
24—Commutator end plate assembly

ELECTRICAL (Cont'd)

STARTING MOTOR

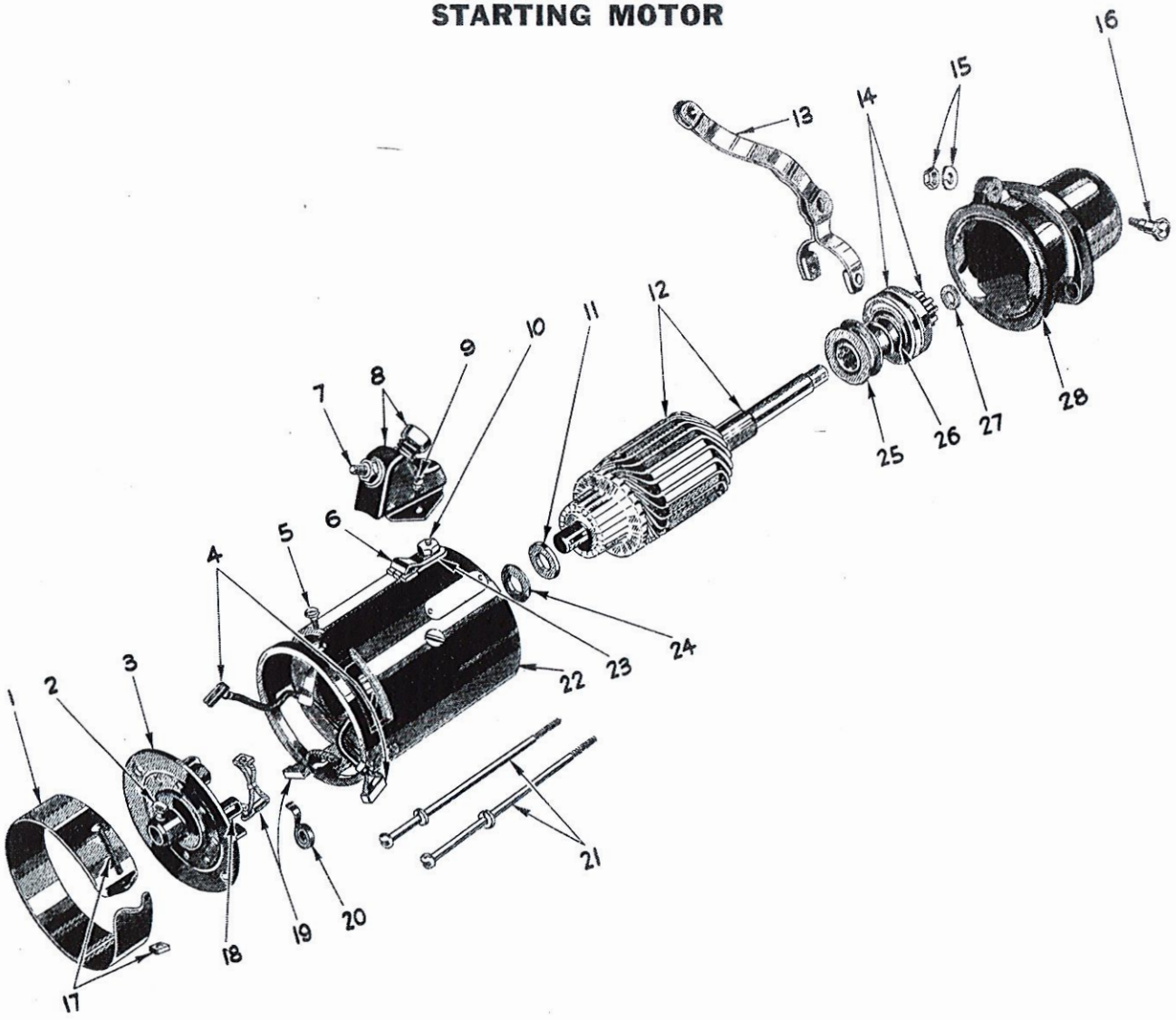


Plate 5—Starting Motor (Disassembled View)

1—Head or inspection cover band
2—Oil cup
3—Commentator end plate assembly
4—Main brushes
5—Ground brush fastening screw
6—Starter switch contact—lower
7—Starter switch cable terminal post
8—Starter switch assembly
9—Starter switch fastening screw
10—Terminal post
11—Thrust washer—front
12—Armature and shaft assembly
13—Shift yoke assembly
14—Starter clutch assembly
15—Shift yoke pivot screw nut and lockwasher
16—Shift yoke pivot screw
17—Cover band clamp screw and nut
18—Brush holder
19—Ground brushes
20—Brush spring
21—Frame screws
22—Frame and field assembly
23—Starter switch insulating block
24—End play thrust washers
25—Shift collar
26—Shift spring
27—Thrust washer—rear
28—Pinion housing assembly

ELECTRICAL (Cont'd)

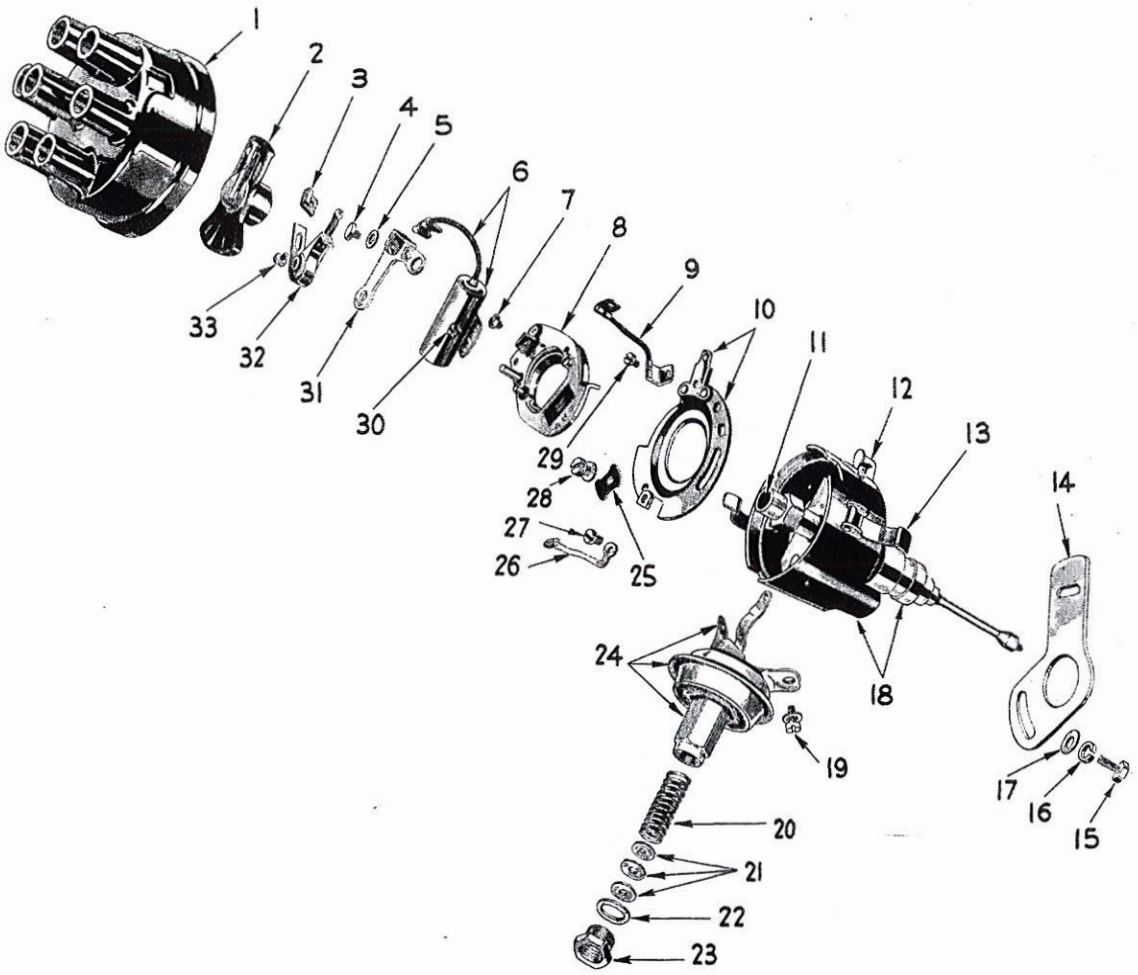


Plate 6—Distributor (Disassembled View)

1—Cap assembly
2—Rotor
3—Breaker arm spring clip
4—Adjustable breaker point lock screw
5—Adjustable breaker point lock screw washer
6—Condenser
7—Terminal screw
8—Breaker sub-plate and bearing assembly
9—Primary lead and terminals
10—Breaker plate assembly
11—Cam sleeve felt wisk
12—Oiler—press-in elbow
13—Cap spring
14—Advance control arm
15—Advance control arm lock screw
16—Advance control arm lock screw lockwasher
17—Advance control arm lock screw washer
18—Base assembly
19—Vacuum chamber fastening screw and lockwasher
20—Vacuum chamber spring
21—Vacuum chamber washers
22—Vacuum chamber plug gasket
23—Vacuum chamber plug
24—Vacuum chamber assembly
25—Bearing clamp
26—Ground lead and terminals
27—Terminal screw
28—Bearing clamp screw and lockwasher
29—Terminal screw
30—Condenser fastening screw
31—Breaker point
32—Breaker arm assembly
33—Breaker arm spring clip terminal screw

ELECTRICAL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Ammeter gauge					
Assembly (includes gas gauge)	923709	1	1	1	
Gauge (only)	596900	1	1	1	
Terminal nut	120614	2	2	2	
Lockwasher	120217	2	2	2	
Housing assy.	591982	1	1	1	
Face plate	591983	1	1	1	
Gasket	591984	1	1	1	
Bezel (chrome)	591981	1	1	1	
Bezel (black enamel)	923707	1	1	1	
Gasket	592489	1	1	1	
Glass dial (ammeter and fuel gauge)	596902	1	1	1	
Gasket	592490	1	1	1	
Screw (mounting)	122159	2	2	2	
Nut	120622	2	2	2	
Lockwasher	121841	2	2	2	
Generator					
Assembly	853770	1	1	1	
Generator mounting					
Bracket	667751	1	1	1	
Screw	122253	2	2	2	
Lockwasher	120383	2	2	2	
Bolt (mounting)	123774	2	2	2	
Nut	120368	2	2	2	
Lockwasher	120638	2	2	2	
Adjusting strap	622783	1	1	1	
Screw	120229	1	1	1	
Plainwasher	120393	1	1	1	
Lockwasher	120638	1	1	1	
Generator pulley					
Pulley	585854	1	1	1	
Key	103905	1	1	1	
Generator relay (or regulator)					
Assembly	853775	1	1	1	
Mounting screw	120583	3	3	3	
Mounting screw (slotted head)	144744	3	3	3	
Terminal screw	121540	3	3	3	
Clamp (terminal)	677204	3	3	3	
Resistor (7 ohm.)	685817	1	1	1	
Resistor (40 ohm.)	853748	1	1	1	
Generator frame					
Thru-bolt (screw)	671487	2	2	2	
Dowel pin	636789	2	2	2	

ELECTRICAL (Cont'd)

PART NAME	PART No.	MODELS			NOTES
		T112	T118	T120	
Generator field					
Coil assembly-complete	858269	1	1	1	
Coil assembly-left	858270	1	1	1	
Coil assembly-right	858271	1	1	1	
Pole piece	859896	2	2	2	
Connection insulator	636779	1	1	1	
Screw (pole piece)	859901	2	2	2	
Insulating bushing (field)	683357	1	1	1	
Insulating bushing (arm)	683358	1	1	1	
Lead assembly	859898	1	1	1	
Terminal post insulator (bottom)	859899	1	1	1	
Terminal post insulator (arm)	671477	1	1	1	
Terminal post insulator (field)	671481	1	1	1	
Terminal post (field)	677153	1	1	1	
Terminal post (arm)	859897	1	1	1	
Generator armature					
Assembly	859900	1	1	1	
Ball bearing	602454	1	1	1	
Snap ring	648392	1	1	1	
Felt washer retainer	636810	1	1	1	
Nut (shaft)	40654	1	1	1	
Generator commutator end					
Plate assembly (partial)	860491	1	1	1	
Plate bearing	636804	1	1	1	
Oil wick	636796	1	1	1	
Oil wick cover	636800	1	1	1	
Plate cover	859902	1	1	1	
Gasket	695627	1	1	1	
Oil guard	695628	1	1	1	
Head band	673031	1	1	1	
Oil retaining gasket	695629	1	1	1	
Generator brushes					
Set	673032	1	1	1	
Brush spring	671490	2	2	2	
Arm	673014	2	2	2	
Generator drive end					
Head assembly	860492	1	1	1	
Head	860493	1	1	1	
Bearing retainer	636813	2	2	2	
Felt Washer	636815	2	2	2	
Felt guard	636812	2	2	2	

ELECTRICAL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
STARTER MOTOR					
NOTE:-When ordering starter motors and component parts, check vendors number on starter motor serial plate; then check parts book, which shows corresponding Chrysler numbers.					
Assembly (vendors No. MAW-4029) ..	920344	1	1	1	
Assembly (vendors No. MAX-4031-B) ..	918153	..	..	1	
Assembly (with narrow leg housing No. 4) (vendors No. MAX-4020-A)	682273	1	1	1	
Assembly (with fluid drive) (vendors No. MAX-4050)	868857	1	1	1	
Assembly (vendors No. MAX-4048) ..	670662	1	1	1	
Assembly (vendors No. MAX-4045-A) ..	952440	1	1	1	
Assembly (vendors No. MAX-4058) ..	1067335	1	1	1	
Assembly (vendors No. MAX-4032) ..	1070939	1	1	1	
Screw mounting	122267	2	2	2	
Lockwasher	120383	2	2	2	

	Quantity	920344	918153	682273	868857	670662	952440	1067335	1070939
Starter Motor Pinion and Clutch									
Assembly	1	871754	871754	857387	871755		871755		871754
Collar	1	853751	853751	853751	853751		853751		853751
Spring	1	853752	853752	853752	853752		853752		853752
Lockring	1	853753	853753	853753	853753		853753		853753
Shift yoke assembly	1	919949	673029	659794	864887		864887		1112380
Screw (pivot)	1	959467	641449	652149			866767		652149
Nut	1	51104	51104	51104			51104		51104
Spring	1			652123			866768		1112379
Retainer	1			652124			866769		652124
Pin	1				866767				
Sleeve	1				871757				
Return spring	1				957465				
Link pin	1			661633	661633		661633		
Starter Motor Bendix Drive									
Assembly	1					927082		927082	
Assembly-partial	1					927089		927089	
Pinion assembly	1					927090		927090	
Drive spring	1					927091		927091	
Anti-drift spring	1					927083		927083	
Meshing spring	1					927084		927084	
Retaining ring	1					927085		927085	
Locating pin	1					927086		927086	
Anchor plate	2					927087		927087	
Lock ring	1					927088		927088	
Starter Motor Pinion Housing									
Assembly	1	919950	643833	659795	958179	927095	864882	1075947	1112381
Bearing	1	636845	636845	636845	636845	652115	636845	652115	636845

ELECTRICAL (Cont'd)

PART NAME	Quantity	920344	918153	682273	868857	670662	952440	1067335	1070939
Starter Motor Field									
Coil assembly-right	1	655741							930277
Coil assembly-left	1	655742							643827
Coil assembly-lower right	1		652100	643830	643830	643830	643830	643830	
Coil assembly-lower left	1		652101	643831	643831	643831	643831	643831	
Coil-upper right	1		636835	688023	688023	688023	688023	688023	
Coil-upper left	1		636833	688024	688024	688024	688024	688024	
Equalizer	1	655714	652099	652099	652099	652099	652099	652099	655714
Connection (field coil)	2		683363	683363	683363	683363	683363	683363	
Insulator (connector)	1	636818	636819	636819	636819	636819	636819	636819	636818
Pole piece	4	636821	636821	636821	636821	636821	636821	636821	636821
Screw	4	859901	636788	636788	859901	859901	636788	859901	859901
Terminal post	1	636822	643829	688025	688025	927078	688025	927078	636822
Insulating bushing	1	636825	636825	636825	636825	E58262M	636825	E58262M	636825
Insulating washer	1			636817	636817	E58261M	636817	E58261M	
Insulating washer	1	636816	636816	636816	636816	687364	636816	687364	636816
Insulator (terminal post)	1	643823							643823
Plainwasher (steel)	1			636854	636854		636854		
Starter Motor Frame									
Dowel pin	2	636789	636789	636789	636789	636789	636789	636789	636789
Frame screw	2	641454	641454	641454	641454	641454	641454	641454	641454
Starter Motor Commutator End									
Plate assembly	1	641453	636839	652117	636839	652117	652117	636839	641453
Felt pad	1	636840	636840	636840	636840	636840	636840	636840	636840
Head band	1	641457	641457	641457	641457	927094	641457	927094	641457
Oiler	1	643972	643972	643972	643972	643972	643972	643972	643972
Starter Motor Brushes									
Brush	2	636838	636838	636838	636838	636838	636838	636838	636838
Brush assembly (ground)	2	636820	636820	636820	636820	636820	636820	636820	636820
Spring	4	636841	636841	636841	636841	636841	636841	636841	636841
Brush set	1	927909	927909	927909	927909	927909	927909	927909	927909
Starter armature									
Assembly	1	641443	641443	641443	641443	927079	641443	927079	641443
Shaft spacer	1	636842	636842	636842	636842		636842		636842
Thrust washer-fibre (.015)	*	669412	669412	669412	669412		669412		669412
Thrust washer-fibre (.031)	*	641446	641446	641446	641446	641446	641446	641446	641446
Thrust washer-fibre (.047)	*	672641	672641	672641	672641		672641		672641
Thrust washer-steel	1	641444	641444	641444	641444	648387	641444	648387	641444
Thrust washer-leather	1	641445	641445	641445	641445		641445		641445
Bearing assy.-intermediate	1					927092		927092	
Bearing-only (intermediate)	1					927093		927093	
Starter Motor Switch (manual type)									
Assembly	1	641462	641455						641462
Lower contact	1	643838	643837						643838
Insulator block	1	636828	636828						636828
Starter Motor Switch (solenoid type)									
Assembly	1			687359	957467	927081	687359	648336	
Connector	1			659793	958178	927080	659793	1075948	
Starter Switch (on dash)									
Switch assembly	1			996138	996138	996138	996138	996138	
Mounting nut	1			898497	898497	898497	898497	898497	

ELECTRICAL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
DISTRIBUTOR					
Assembly (vendors No. IGS-4202-1)	955566	1	..	..	
Assembly (vendors No. IGS-4202-A-1)	957463	..	1	..	
Assembly (vendors No. IGS-4202-B-1)	957470	..	..	1	
Assembly (vendors No. IGZ-4008-1) special (dust proof type)	959461	1	1	1	

	Quantity	955566	957463	957470	959461
Distributor					
Base	1	955580	955580	955580	960558
Bronze bearing-upper	1	871752	871752	871752	
Bronze bearing-lower	1	643906	643906	643906	
Bronze bearing	2				643906
Vacuum chamber assembly	1	955579	959315	959324	
Plug	1	691706	691706	691706	
Gasket (plug)	1	691707	691707	691707	
Washer (.010)	1	691708	691708	691708	
Washer (.032)	1	691709	691709	691709	
Washer (.065)	1	691710	691710	691710	
Spring (vacuum chamber)	*	691716	691715	691712	
Oil retainer	1	640715	640715	640715	
Terminal clamp	1	677204	677204	677204	
Screw	1	121540	121540	121540	
Terminal slot plug	1	648029	648029	648029	
Distributor cap					
Assembly	1	643822	643822	643822	960552
Spring	2	643907	643907	643907	960559
Rubber plug	1	648246	648246	648246	648246
Contact plunger	1	643896	643896	643896	643896
Contact plunger spring	1	643897	643897	643897	643897
Distributor drive shaft					
Assembly (with governor)	1	953716	959309	959312	960564
Assembly	1	953715	953715	953715	960554
Rotor	1	868095	868095	868095	960134
Cam assembly	1	859907	859904	859907	960563
Cam sleeve wick	1	643899	643899	643899	643899
Collar	1	643903	643903	643903	643903
Thrust washer	1	643892	643892	643892	643892
Lock spring	1	643893	643893	643893	643893
Thrust washer	1	859903	859903	859903	859903
Thrust washer-upper	1	860939	860939	860939	860939
Rivet	1	636899	636899	636899	636899
Weight assembly	2	643917	643917	643917	643917
Weight spring set	1	674959	959310	959313	959310

ELECTRICAL (Cont'd)

	Quantity	955566	957463	957470	959461
Distributor breaker plate					
Assembly-complete	1	699303	959311	959318	960556
Assembly-partial	1	688018	959314	959320	960557
Assembly-sub plate	1	852000	852000	852000	
Clamp (breaker plate)	2	643902	643902	643902	
Breaker point set	1	699291	699291	699291	674236
Arm spring	1	643912	643912	643912	643912
Arm spring clip	1	643908	643908	643908	643908
Condenser assy.	1	674955	674955	674955	674960
Lead assy. (terminal)	1	677193	677193	677193	
Lead assy. (ground)	1	699309	699309	699309	
Oiler	1	953717	953717	953717	
Felt wick	1	953714	953714	953714	
Distributor lock plate					
Lock plate	1	866069	866069	866069	866069
Indicator	1	866449	866449	866449	
Screw (hold down)	1	120854	120854	120854	120854
Lockwasher	1	120380	120380	120380	120380
Plainwasher	1	120392	120392	120392	120392
Clamp screw	1	121900	121900	121900	121900
Plainwasher	1	120392	120392	120392	120392
Lockwasher	1	120380	120380	120380	120380
Plainwasher (lock plate)	1				628922

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
IGNITION, SPARK PLUGS, CABLES					
Spark plug					
Assembly	691674	6	6	6	
Gasket	321918	6	6	6	
Terminal nut	667031	6	6	6	
Ignition cable tube flat type					
Assembly (with bracket)	600829	1	1	1	
Assembly (with bracket) round type	926038	1	1	1	
Screw (mounting)	123382	1	1	1	
Lockwasher	138489	1	1	1	
Plainwasher	120394	1	1	1	
Ignition cables					
Set	830816	1	1	1	
Cable (spark plug and secondary)(100 foot roll)	830809	*	*	*	
Cable (primary)(100 foot roll)	830810	*	*	*	

NOTE:-The lengths of spark plug cable, secondary cable, and primary cable are listed on next page.

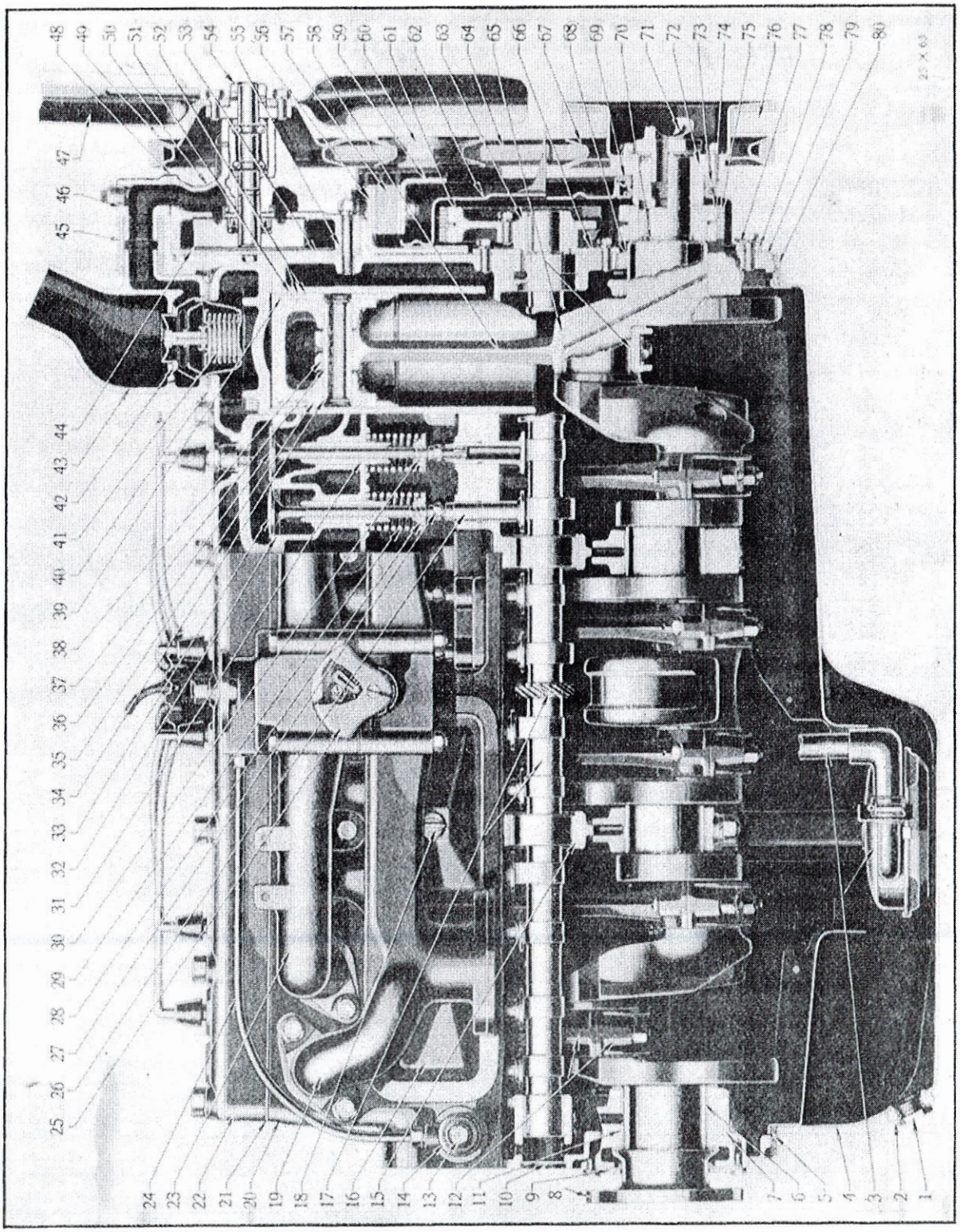
ELECTRICAL (Cont'd)

PART NAME	PART No.	MODELS			NOTES
		T112	T118	T120	
Spark plug cable No. 1 (22″)					
No. 2 (21″)					
No. 3 (17″)					
No. 4 (19″)					
No. 5 (22″)					
No. 6 (22″)					
Secondary cable (30″)					
Primary cable (27″)					
Ignition cable terminals and nipples					
Nipple (distributor cap)	676895	7	7	7	
Terminal (distributor cap end)	676872	7	7	7	
Terminal (primary cable)	611828	2	2	2	
Terminal (spark plug end)	663227	6	6	6	
Ignition lock					
Switch and cable	853739	1	1	1	
Cylinder and keys	854745	1	1	1	
Key (uncut)	830045	1	1	1	
Key (when number is given)	689869	1	1	1	
Switch and key (optional)	517603	1	1	1	
Ignition coil					
Coil assembly	643680	1	1	1	
Bracket assembly	613221	1	1	1	

NOTES:

ENGINE

SIDE SECTIONAL VIEW OF ENGINE



ENGINE (Cont'd)

Ref. No.	Part Name
1	Ignition cable tube and bracket
2	Piston
3	Intake valve
4	Valve seat or insert (exhaust valve)
5	Exhaust valve
6	Cylinder head screw
7	Valve stem guide
8	Valve stem guide
9	Cylinder head
10	Cylinder head gasket
11	Intake and exhaust manifold assembly
12	Manifold drain hole plug
13	Intake to exhaust manifold gasket
14	Exhaust manifold stud
15	Manifold assembly
16	Intake to exhaust manifold screw nut
17	Cylinder block assembly
18	Valve spring
19	Valve spring retainer
20	Valve spring cover
21	Manifold assembly (exhaust manifold)
22	Valve plate cover screw
23	Valve spring retainer lock
24	Valve tappet adjusting screw
25	Crankcase ventilator outlet pipe
26	Flywheel and ring gear assembly
27	Valve tappet adjusting screw
28	Camshaft rear bearing plug
29	Camshaft
30	Valve tappet
31	Flywheel bolt nut
32	Flywheel bolt
33	Crankshaft bearing No. 4—upper
34	Connecting rod bolt nut
35	Crankshaft
36	Crankshaft bushing (transmission drive pinion bushing)
37	Crankshaft rear bearing oil seal
38	Crankshaft rear bearing oil seal retainer
39	Crankshaft bearing No. 4—lower
40	Crankshaft rear bearing oil seal retainer screw
41	Crankshaft Bearing Cap No. 3
42	Oil pan gasket—rear
43	Connecting rod cap bolt
44	Oil pan assembly
45	Oil strainer
46	Oil pan drain plug
47	Cylinder head outlet elbow
48	Water pump by-pass hose
49	Cylinder head outlet elbow gasket
50	Thermostat assembly
51	Water pump body
52	Fan pulley
53	Water pump impeller
54	Piston ring-upper and intermediate
55	Water pump shaft and bearing
56	Piston ring-lower
57	Piston ring-lower
58	Piston pin bushing (connecting rod bushing)
59	Piston pin lock ring
60	Piston pin
61	Fan blade assembly
62	Generator to adjusting strap screw
63	Generator assembly
64	Chain case cover plate
65	Generator pulley
66	Camshaft sprocket
67	Camshaft thrust plate screw
68	Connecting rod assembly
69	Camshaft thrust plate
70	Camshaft bearing-front No. 1
71	Camshaft sprocket hub
72	Connecting rod bearing
73	Fan and generator belt
74	Chain case cover
75	Crankshaft bearing No. 1-upper
76	Fan pulley-lower
77	Crankshaft sprocket
78	Crankshaft sprocket key
79	Fan pulley key
80	Connecting rod bearing
81	Crankshaft starting jaw
82	Crankshaft starting jaw lockwasher
83	Crankshaft
84	Crankshaft sprocket shim
85	Chain case cover oil seal
86	Timing chain
87	Crankshaft bearing No. 1-lower
88	Crankshaft bearing cap No. 1
89	Chain case cover gasket
90	Chain case cover plate gasket
91	Oil pan front end oil seal plate

NOTES:

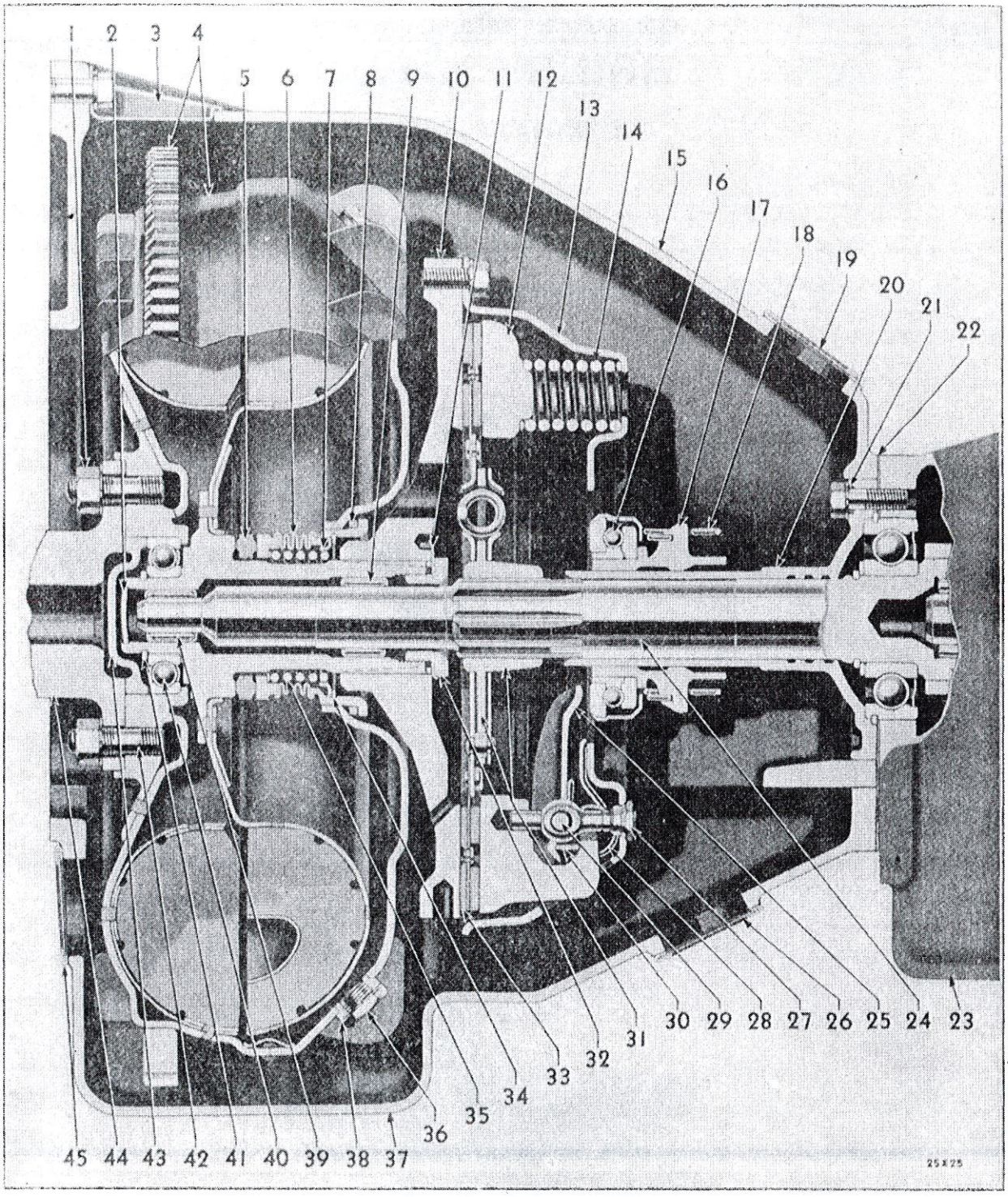


Plate 7—Fluid Drive and Clutch

1—Driver flange stud nut and lockwasher
2—Runner hub plug
3—Clutch housing bolt hole cover
4—Fluid drive assembly
5—Floating seal ring
6—Seal assembly
7—Seal spring retainer
8—Seal retainer gasket
9—Runner hub inner bearing—rear
10—Clutch driving plate
11—Clutch driving plate nut locking washer
12—Clutch pressure plate
13—Clutch cover
14—Clutch pressure spring
15—Clutch housing
16—Clutch release bearing
17—Clutch release bearing sleeve
18—Clutch release bearing pull-back spring
19—Clutch housing ventilator hole screen
20—Transmission drive pinion bearing retainer
21—Transmission drive pinion bearing retainer screw grommet
22—Transmission case to clutch housing gasket
23—Transmission assembly
24—Transmission drive pinion
25—Clutch release lever
26—Clutch housing pan ventilator hole screen
27—Clutch release lever eye bolt and nut
28—Clutch release lever spring
29—Clutch release lever pin
30—Clutch release lever strut
31—Clutch driving disc assembly
32—Clutch driving plate nut
33—Clutch driving disc facing
34—Seal spring retainer snap ring
35—Seal spring
36—Filler plug
37—Clutch housing pan
38—Filler plug gasket
39—Runner hub inner bearing—front
40—Runner hub bearing—outer
41—Runner hub bearing snap ring
42—Driver flange stud
43—Driver flange plug
44—Engine crankshaft
45—Housing pan ventilator hole screen

ENGINE (Cont'd)

CONNECTING ROD

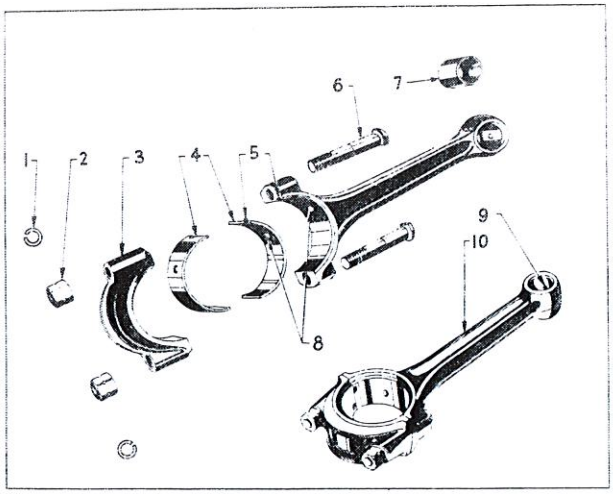


Plate 8

REAR BEARING OIL SEAL

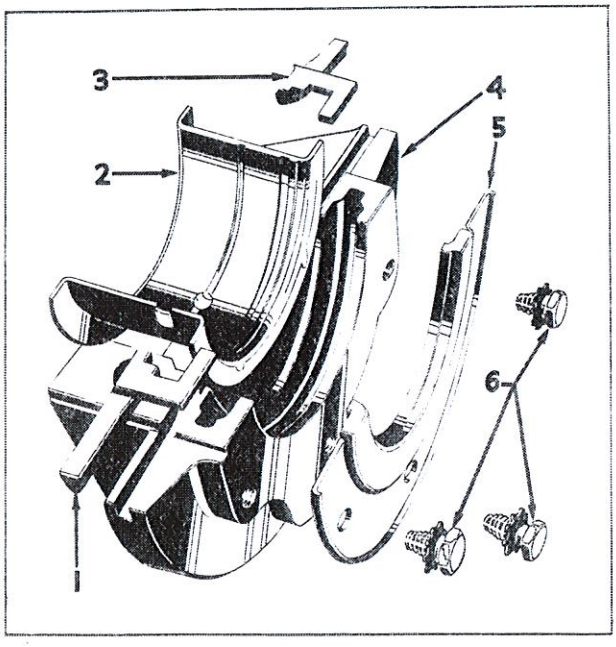


Plate 9—Crankshaft Rear Bearing Cap Oil Seals

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Engine assembly-less accessories					
NOTE:-An engine assembly-less accessories consists of cylinder block assembly with pistons and rings, all valve parts, crankshaft, camshaft, sprockets, chain case cover plate, flywheel, gear case cover, water pump, cylinder head, oil pan and oiling parts, and valve cover but does not include the manifold assembly. This unit is factory tested.					
Assembly	920006	1	..	..	
Assembly	918955	..	1	..	
Assembly	919297	..	..	1	
Cylinder block					
NOTE:-A cylinder block assembly with pistons includes the pistons, pins and rings fitted. All cylinder blocks include main bearing caps and valve guides, but do not include main bearings.					
Assembly-with pistons	952037	1	..	..	
Assembly-with pistons	870734	..	1	1	
Assembly-less pistons	952028	1	..	..	
Assembly-less pistons	870728	..	1	1	
Cylinder block plugs and dowels					
Core hole plug	117924	7	7	7	
Rear face plug	117923	1	1	1	
Oil hole plug	103883	3	3	4	
Clutch housing dowel	51078	2	2	2	
Camshaft bearing plug	117923	1	1	1	
Oil distributor plug	113185	2	2	2	
Ignition distributor oil retainer	640715	1	1	1	
Water distributor tube					
Tube	954281	1	1	1	
Water jacket drain					
Drain cock (1/4 thd. dia.)	907782	1	1	1	
Drain cock (3/8 thd. dia.)	191739	1	1	1	
Reducer (for 907782)	144036	1	1	1	
Cylinder head					
Head	675164	1	1	..	
Head	954152	..	..	1	
Gasket	869992	1	1	1	
Screw	666014	17	16	16	
Screw (tapped head)	692857	4	5	5	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Cylinder head plugs					
Timing hole plug	127950	1	1	1	
Core hole plug	106517	1	1	1	
Heater hole plug	103867	1	1	1	
Cylinder head water outlet elbow					
Elbow	917146	1	1	1	
Gasket	50082	1	1	1	
Screw	122174	2	2	2	
Lockwasher	120382	2	2	2	
Manifold (intake and exhaust)					
Assembly (standard)	870106	1	..	..	
Assembly (standard)	871856	..	1	1	
Fuel centralizer	644861	2	2	2	
Assembly-stack type (down-draft carburetor)	956966	1	1	1	
Assembly-stack type (up-draft carburetor)	678660	1	1	1	
Manifold gaskets					
Intake to exhaust	666352	1	1	1	
Gasket set	780462	1	1	1	
Consists of:					
End gasket	666354	4	4	4	
Center gasket	666353	1	1	1	
Manifold attaching bolts, nuts, studs, plugs, etc.					
Bolt (intake to exhaust)	127784	4	..	..	
Bolt (intake to exhaust)	126167	..	4	4	
Nut	120369	4	4	4	
Bolt (intake to exhaust) for 956966 manifold	1110432	4	4	4	
Nut - for 1110432 bolt	150849	4	4	4	
Locknut - for 1110432 bolt	107322	4	4	4	
Stud (exhaust)	623369	4	4	4	
Nut	623370	4	4	4	
Washer	623368	4	4	4	
Stud - long	669922	2	2	2	
Stud - short	51561	7	7	7	
Stud - for 678660 manifold	51561	9	9	9	
Nut	114547	9	9	9	
Clamp washer	43699	4	4	4	
Plug (wiper hole)	103883	1	1	1	
Reducer (wiper hole)	119923	1	1	..	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Manifold heat control valve for 870106 Manifold					
Thermostat	671923	1	..	..	
Spacer	644876	1	..	..	
Thermostat shield assembly	853624	1	..	..	
Clamp bolt	862830	1	..	..	
Nut	120614	1	..	..	
Lockwasher	138479	1	..	..	
Clamp lock	604509	1	..	..	
Shaft	666351	1	..	..	
Bushing	651251	1	..	..	
Plate	666350	1	..	..	
Stop	683057	1	..	..	
Stud	852271	1	..	..	
Manifold heat control valve for 956966 Manifold					
Shaft	965721	1	1	1	
Bushing-short	651251	1	1	1	
Bushing-long	1071660	1	1	1	
Plate	1071661	1	1	1	
Thermostat	956672	1	1	1	
Stop	683057	1	1	1	
Stud	852271	1	1	1	
Counterweight	631055	1	1	1	
Lock	604509	1	1	1	
Bolt	862830	1	1	1	
Nut	120614	1	1	1	
Lockwasher	138479	1	1	1	
Manifold (stack type) exhaust pipe flange					
Flange (down-draft carburetor manifold)	380302	1	1	1	
Gasket (flange)	623361	1	1	1	
Bolt	100043	2	2	2	
Nut	120370	4	4	4	
Flange (up-draft carburetor manifold)	650672	1	1	1	
Gasket (flange)	679023	1	1	1	
Bolt	124133	2	2	2	
Nut	120370	4	4	4	
Crankshaft					
Assembly	952145	1	..	..	
Assembly	955196	..	1	..	
Assembly	870745	..	..	1	
Bushing (transmission main drive pinion pilot)	53298	1	1	1	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Crankshaft sprocket					
Sprocket	601760	1	1	1	
Shim	54610	*	*	*	
Key	124551	1	1	1	
Crankshaft starting jaw					
Jaw	583801	1	1	1	
Lockwasher	655116	1	1	1	
Crankshaft bearings					
NOTE:-Crankshaft bearings should always be replaced in pairs. Never use an old bearing half with a new bearing half.					
Nos. 1-2-3 (standard)	957644	6	6	6	
No. 4 (standard)	957649	2	2	2	
Nos. 1-2-3 (.001)	957645	6	6	6	
No. 4 (.001)	957650	2	2	2	
Nos. 1-2-3 (.002)	957646	6	6	6	
No. 4 (.002)	957651	2	2	2	
Nos. 1-2-3 (.010)	957647	6	6	6	
No. 4 (.010)	957652	2	2	2	
Nos. 1-2-3 (.012)	957648	6	6	6	
No. 4 (.012)	957653	2	2	2	
Crankshaft bearing cap					
NOTE:-Crankshaft bearing caps are line reamed to each individual engine at the factory, therefore are not interchangeable. Replacement caps are supplied with stud holes reamed 1/64" larger and the overall length 1/16" shorter, and must be fitted by shim or by removing metal from the face of the cap as required, when line reaming equipment is not available.					
No. 1	664390	1	1	1	
Nos. 2-3	664065	2	2	2	
No. 4	891401	1	1	1	
Cap screw	864118	8	8	8	
Lockwasher	120384	8	8	8	
Oil seal retainer screw	695787	6	6	6	
Lockwasher	121753	6	6	6	
Oil seal retainer package	891458	2	2	2	
Consists of:					
Oil seal retainer	863214	2	2	2	
Gasket-right	863012	1	1	1	
Gasket-left	863013	1	1	1	
Flywheel					
Assembly (with ring gear)	871686	1	..	..	
Assembly (with ring gear)	866389	..	1	1	
Ring gear	393077	1	1	1	
Bolt	871685	4	4	4	
Nut	675594	4	4	4	
Lockwasher	120383	4	4	4	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Flexible coupling package					
Package assembly	1087976	1	1	1	
Consists of:					
Flexible coupling	1109829	1	1	1	
Coupling flange	381168	1	1	1	
Coupling stud	314926	6	6	6	
Coupling stud nut	120369	6	6	6	
Coupling stud nut lockwasher	120382	12	12	12	
Fluid drive coupling					
Assembly (includes driving plate)	956422	1	1	1	
Ring gear	864136	1	1	1	
Clutch driving plate	863976	1	1	1	
Nut	864003	1	1	1	
Lockwasher	864004	1	1	1	
Plug (driver flange)	865458	1	1	1	
Stud (driver flange)	859759	8	8	8	
Nut (driver flange)	675594	8	8	8	
Lockwasher	136857	8	8	8	
Filler plug	863986	2	2	2	
Gasket (filler plug)	863987	2	2	2	
Runner hub inner bearing-front	868381	1	1	1	
Runner hub inner bearing-rear	868382	1	1	1	
Runner hub bearing-outer	863971	1	1	1	
Shield (runner hub bearing)	954613	1	1	1	
Plug (expansion) (runner hub)	863963	1	1	1	
Rivet (runner hub)	118061	6	6	6	
Snap ring (runner hub) (.069″)	863980	*	*	*	
Snap ring (runner hub) (.074″)	863981	*	*	*	
Snap ring (runner hub) (.079″)	863982	*	*	*	
Fluid drive seal					
Assembly	857616	1	1	1	
Spring	854362	1	1	1	
Retainer	862175	1	1	1	
Snap ring	854401	1	1	1	
Gasket (seal)	854011	1	1	1	
Floating seal ring	863974	1	1	1	
Fluid drive fluid					
Quart can (Imperial)	830350	*	*	*	
Gallon can (Imperial)	830351	*	*	*	
NOTE:-*-Indicates amount used as required.					
Connecting rod					
Assembly	860800	6	..	..	
Assembly	860796	..	6	..	
Assembly	860797	..	..	6	
Bolt	860343	12	12	12	
Nut	860671	12	12	12	
Lockwasher	668555	12	12	12	
Bushing (piston pin)	318893	6	6	6	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Connecting rod bearings					
NOTE:-Connecting rod bearing should always be replaced in pairs. Never use an old bearing half with a new bearing half.					
Standard	956284	12	12	12	
(.001)	956285	12	12	12	
(.002)	956286	12	12	12	
(.010)	956287	12	12	12	
(.012)	956288	12	12	12	

PISTONS AND RINGS

IMPORTANT:-Always check rings for proper gap at top and bottom end of ring travel and file fit when necessary.

MODEL CODES:- T112

3-3/8" BORE

The Pistons listed below include Piston Pins which are factory fitted.

PISTONS AND PINS		PISTON RINGS		PISTON RING SETS		
Size	Assembly 6 Used	Upper 12 Used	Lower 12 Used	"200-70-85" Set No.	Triple Action Set No.	S.O.S. Set No.
Std.	974084	866369	868418	974096	974108	974103
.003"	974085	866369	868418	.....	.....	.....
.005"	974086	866370	868419	.....	.....	.....
.010"	974087	866370	868419	974097	974109	974104
.015"	974088	866371	868420	.....	.....	.....
.020"	974089	866371	868420	974098	974110	974105
.023"	974090	866371	868420	.....	.....	.....
.025"	974091	866372	868421	.....	.....	.....
.030"	974092	866372	868421	974099	974111	974106
.040"	974093	866373	868422	974100	974112	974107
.050"	974094	866374	868423	974101	.....	.....
.060"	974095	866375	868424	974102	.....	.....

MODEL CODES:- T118-T120

3-7/16" BORE

The Pistons listed below include Piston Pins which are factory fitted.

PISTONS AND PINS		PISTON RINGS		PISTON RING SETS		
Size	Assembly 6 Used	Upper 12 Used	Lower 12 Used	"200---85" Set No.	Triple Action Set No.	S.O.S. Set No.
Std.	974072	870701	667499	974113	974125	974120
.003"	974073	870701	667499	.....	.....	.....
.005"	974074	870702	667501	.....	.....	.....
.010"	974075	870702	667501	974114	974126	974121
.015"	974076	870703	667503	.....	.....	.....
.020"	974077	870703	667503	974115	974127	974122
.023"	974078	870703	607503	.....	.....	.....
.025"	974079	870704	667505	.....	.....	.....
.030"	974080	870704	667505	974116	974128	974123
.040"	974081	870705	667506	974117	974129	974124
.050"	974082	870706	667507	974118	.....	.....
.060"	974083	870707	667508	974119	.....	.....

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Piston expander set					
Piston expander	954171	..	6	6	
Set	830539	1	..	..	
Consists of:					
Piston expander	853981	6	..	..	
Piston pin					
Pin (standard)	436658	6	6	6	
Pin (.003")	203741	6	6	6	
Pin (.008")	302560	6	6	6	
Lockwire	200434	12	12	12	
Bushing	954157	6	6	6	
Camshaft					
Camshaft	855471	1	1	1	
Camshaft bearing					
No. 1	632465	1	1	1	
No. 2	665786	1	1	1	
No. 3	665787	1	1	1	
Camshaft sprocket					
Sprocket	601757	1	1	1	
Key	114813	1	1	1	
Screw	601766	3	3	3	
Lockwasher	120214	3	3	3	
Sprocket	601758	1	1	1	
Thrust plate	600786	1	1	1	
Screw	122017	2	2	2	
Lockwasher	120214	2	2	2	
Oil tube	600787	1	1	1	
Clip	51563	1	1	1	
Screw	132255	1	1	1	
Lockwasher	120380	1	1	1	
TIMING CHAIN, CHAIN CASE COVER AND PLATE					
Timing chain					
Chain	601765	1	1	1	
Chain case cover					

NOTE:- Note 1: Parts were used up to engine numbers:
T-112-7957C
T-118-14769C
T-120-8343C

Note 2: Parts were used after engine numbers:
T-112-7957C
T-118-14769C
T-120-8343C

ENGINE (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Assembly (with timing indicator) (see note 1)	691941	1	1	1	
Assembly (with timing indicator) (see note 2)	1090742	1	1	1	
Reinforcement	690939	1	1	1	
Gasket	600752	1	1	1	
Screw	122017	5	5	5	
Screw	122022	1	1	1	
Lockwasher	121367	6	6	6	
Bolt	120741	3	3	3	
Nut	120368	3	3	3	
Lockwasher	121367	3	3	3	
Stud	103173	2	2	2	
Nut	120368	2	2	2	
Lockwasher	121367	2	2	2	
Oil seal package (see note 1)	891448	1	1	1	
Consists of:					
Oil seal	644856	1	1	1	
Gasket	857646	1	1	1	
Oil seal assembly (see note 2)	1088602	1	1	1	
Gasket (oil seal) (see note 2)	1088603	1	1	1	
Chain case cover plate					
Plate (front support)	688195	1	1	1	
Gasket	695441	1	1	1	
Screw	122017	3	3	3	
Screw	133827	1	1	1	
Lockwasher	121367	4	4	4	
Lockwasher	134512	2	2	2	
Dowel	606345	2	2	2	
Stud	103173	1	1	1	
Nut	120368	1	1	1	
VALVES AND TAPPETS					
Valves					
Intake	870048	6	6	6	
Exhaust	667612	6	6	6	
Exhaust valve seat (standard)	666012	6	6	6	
Exhaust valve seat (.010)	666013	6	6	6	
Stem guide	600746	12	12	12	
Valve spring					
Spring	869449	12	12	12	
Retainer	395930	12	12	12	
Lock	395931	24	24	24	
Valve spring cover					
Cover	665689	2	2	2	
Screw	693960	4	4	4	
Gasket set	980584	1	1	1	
Consists of:					
Gasket	871935	2	2	2	
Gasket	693959	4	4	4	

ENGINE (Cont'd)

PART NAME	PART No.	MODELS			NOTES
		T112	T118	T120	
Valve tappets					
Assembly (standard)	670508	12	12	12	
Assembly (.001)	670510	12	12	12	
Assembly (.008)	670511	12	12	12	
Assembly (.030)	670512	12	12	12	
Adjust screw	681544	12	12	12	
CRANKCASE VENTILATOR					
Crankcase ventilator outlet pipe					
Assembly (pipe)	685268	1	1	1	
Gasket	301034	1	1	1	
Screw	100130	1	1	1	
Lockwasher	120214	1	1	1	
Air cleaner assembly	627488	1	1	1	
Crankcase ventilator (Donaldson)					
Ventilator assembly	697976	1	1	1	
Gasket	301034	1	1	1	
Screw	100129	1	1	1	
Lockwasher	120214	1	1	1	
Tube (ventilator to manifold for 870106-871856 standard down-draft manifold)	861824	1	1	1	
Tube (ventilator to manifold for 956966 down-draft manifold with stack exhaust)	861828	1	1	1	
Tube (ventilator to manifold for 678660 up-draft manifold with stack exhaust)	861828	1	1	1	
Reducer (for 870106-871856 manifold)	119923	1	1	1	
Nipple (for 870106-871856 manifold—	137406	1	1	1	
Elbow (for 956966-678660 manifold)	137422	1	1	1	

ENGINE OILING

ENGINE OILING SYSTEM

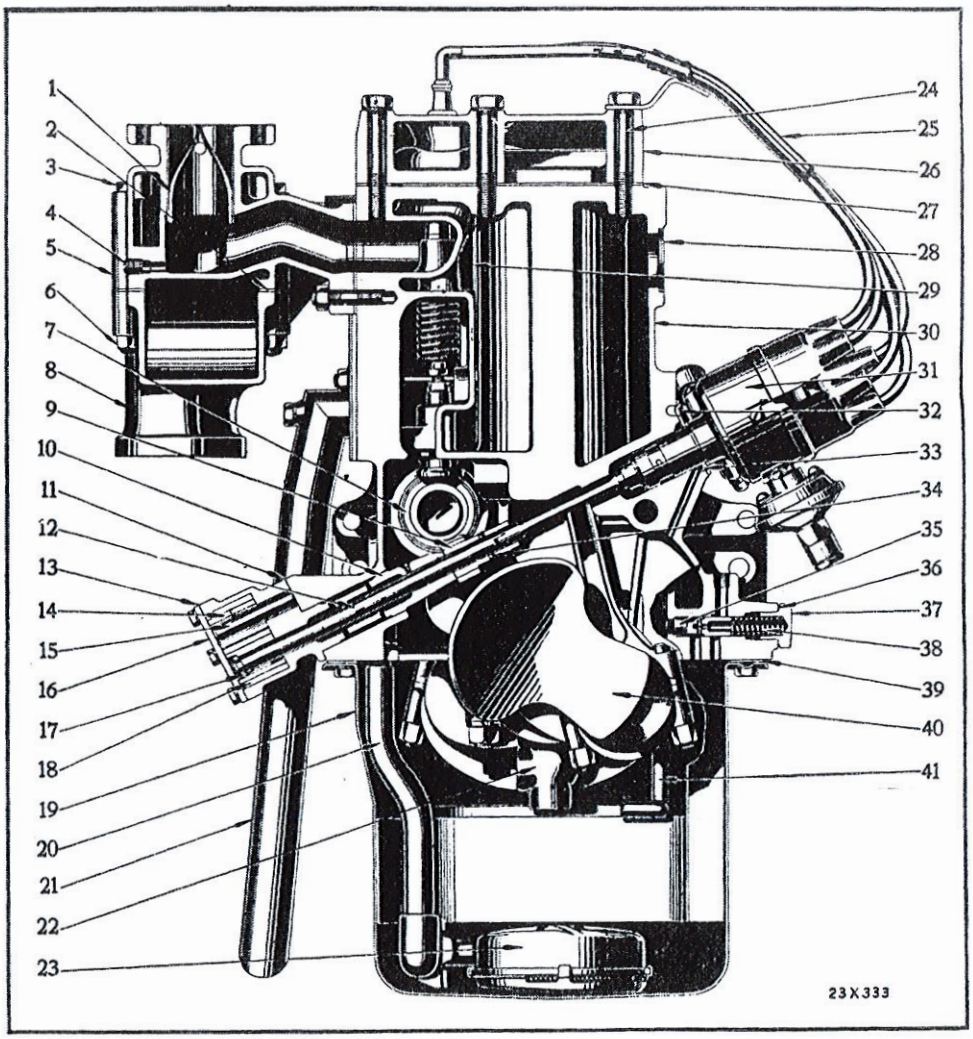


Plate 10

Ref. No.	Part Name
1	Manifold fuel centralizer
2	Intake to exhaust manifold gasket
3	Intake to exhaust manifold screw
4	Manifold drain plug
5	Intake manifold
6	Intake to exhaust manifold screw nut
7	Camshaft
8	Exhaust manifold
9	Oil pump and distributor drive gear
10	Oil pump body
11	Oil pump body gasket
12	Oil pump drive shaft
13	Oil pump cover gasket
14	Oil pump idler gear and bushing
15	Oil pump idler gear shaft
16	Oil pump cover
17	Oil pump drive gear retainer
18	Oil pump drive gear
19	Oil pan
20	Oil pump suction pipe
21	Crankcase ventilator outlet pipe
22	Crankshaft bearing cap-No. 3
23	Oil pump strainer
24	Cylinder head screw
25	Ignition cable tube
26	Cylinder head
27	Cylinder head gasket
28	Cylinder block core hole plug
29	Cylinder block water distributor tube
30	Cylinder block
31	Distributor assembly
32	Distributor lock plate
33	Distributor oil retainer
34	Oil pump and distributor drive gear pin
35	Oil pressure relief valve plunger
36	Oil pressure relief valve cap gasket
37	Oil pressure relief valve cap
38	Oil pressure relief valve spring
39	Oil pan gasket
40	Crankshaft
41	Oil pump outlet pipe

ENGINE OILING (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Oil filler breather pipe (oil filler)					
Pipe	871863	1	1	1	
Screen	871851	1	1	1	
Breather pipe air cleaner assembly					
Assembly	871861	1	1	1	
OIL GAUGE					
Oil gauge					
Assembly (includes temperature gauge)	923708	1	1	1	
Gauge (only)	591989	1	1	1	
Terminal nut	120614	2	2	2	
Lockwasher	120217	2	2	2	
Housing assy.	591982	1	1	1	
Face plate	591983	1	1	1	
Gasket	591984	1	1	1	
Bezel (chrome)	591981	1	1	1	
Bezel (black enamel)	923707	1	1	1	
Gasket	592489	1	1	1	
Glass dial (oil gauge and temperature gauge)	591985	1	1	1	
Gasket	592490	1	1	1	
Screw (mounting)	122159	2	2	2	
Nut	120622	2	2	2	
Lockwasher	121841	2	2	2	
OIL FILTER AND TUBES					
Oil filter (mopar)					
Assembly (does not include bracket or clamp)	861028	1	1	1	
Assembly (includes filter steady bracket and screw plug)	861029	1	1	1	
Assembly (kit) (includes filter and all necessary parts for installation on all models) (heavy duty)	860821	1	1	1	
Element (used with 861029)	861032	1	1	1	
Element (used with 860821)	861027	1	1	1	
NOTE:-Oil filter kits 861029 and 860821 can be used as replacement units on engines equipped with sealed type filters.					
Engine to oil filter tube					
Tube	861543	1	1	1	
Nut	137396	2	2	2	
Elbow	137420	2	2	2	

ENGINE OILING (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Oil filter to engine tube					
Tube	861537	1	1	1	
Nut	137396	2	2	2	
Nipple	670463	1	1	1	
Elbow	137420	1	1	1	
Oil filter attaching parts					
Clamp strap	71165	2	2	2	
Bolt	133043	1	1	1	
Nut	131395	1	1	1	
Lockwasher	121637	1	1	1	
Clamp bracket assembly	660676	1	1	1	
Stud (attaching)	103171	2	2	2	
Nut	120368	2	2	2	
Lockwasher	120214	2	2	2	
OIL PUMPS AND PIPES					
Oil pumps					
Assembly (gear type)	601269	1	1	1	
Screw (attaching)	122138	2	2	2	
Lockwasher	120382	2	2	2	
Assembly (rotor type)	863725	1	1	1	
Screw (attaching)	864149	2	2	2	
Lockwasher	120382	2	2	2	
Body assembly (gear type)	600771	1	1	1	
Body assembly (rotor type)	863726	1	1	1	
Gasket	695442	1	1	1	
Cover (gear type)	50743	1	1	1	
Gasket	50744	1	1	1	
Screw	120854	6	6	6	
Lockwasher	121753	6	6	6	
Cover (rotor type)	863723	1	1	1	
Gasket	863724	1	1	1	
Screw and washer	121900	6	6	6	
Oil pump drive shaft (includes gear and retainer					
Assembly (gear type)	40881	1	1	1	
Assembly (rotor type)	863727	1	1	1	
Oil pump drive shaft (only)					
Shaft (gear type)	40882	1	1	1	
Shaft (rotor type)	863728	1	1	1	
Oil pump drive gear					
Gear	40296	1	1	1	
Key	103905	1	1	1	
Retainer	40297	1	1	1	
Oil pump idler gear					
Assembly (includes bushing)	625501	1	1	1	
Shaft	74496	1	1	1	
Bushing	625498	1	1	1	

ENGINE OILING (Cont'd)

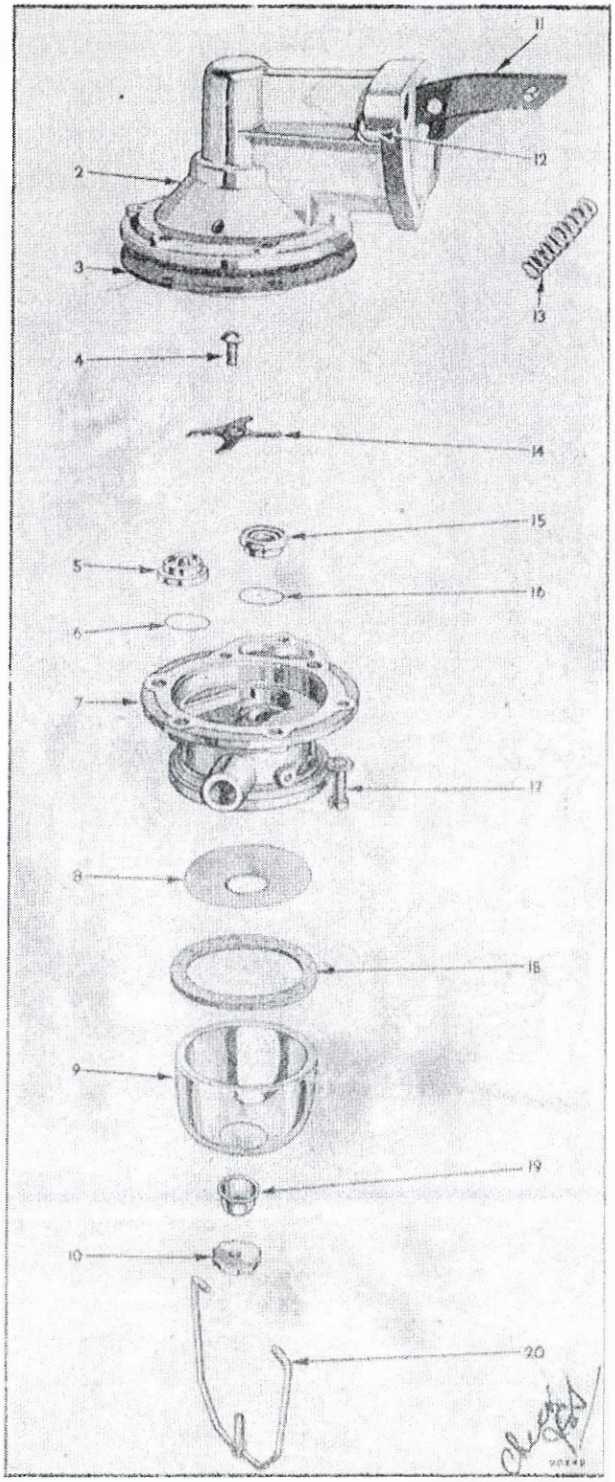
PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Oil pump rotor					
Inner	694890	1	1	1	
Outer	694891	1	1	1	
Pin	867386	1	1	1	
Oil pump and distributor drive gear					
Gear	601268	1	1	1	
Pin	112032	1	1	1	
Oil pump suction pipe					
Assembly	862832	1	1	1	
Oil pump outlet pipe					
Assembly	665806	1	1	1	
Nipple	671152	2	2	2	
Nut	137400	2	2	2	
Oil strainer					
Assembly	862831	1	1	1	
Cotter	137190	1	1	1	
Oil pressure relief valve					
Plunger	618759	1	1	1	
Cap	618621	1	1	1	
Gasket	618622	1	1	1	
Spring-standard	617672	1	1	1	
Spring-light	617673	1	1	1	
Spring-heavy	619057	1	1	1	
OIL PAN AND OIL LEVEL INDICATOR					
Oil pan					
NOTE:- Note 1: Parts were used up to engine numbers: T112-14007C T118-17587C T120-10800C					
Note 2: Parts were used after engine numbers: T112-14007C T118-17587C T120-10800C					
Assembly	692884	1	1	1	
Screw	122017	20	20	20	
Lockwasher	121367	20	20	20	
Drain plug	50722	1	1	1	
Gasket	105456	1	1	1	

ENGINE OILING (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Front end oil seal plate (see note 1)	688309	1	1	1	
Gasket (see note 1)	600764	2	2	2	
Front end oil seal plate package (see note 2)	1115100	1	1	1	
Plate seal (see note 2)	1066873	2	2	2	
Screw	132268	2	2	2	
Lockwasher	120380	2	2	2	
Screw	132325	1	1	1	
Lockwasher	138538	1	1	1	
Gasket set (oil pan)	933439	1	1	1	
Consists of:-					
Gasket-right	665802	1	1	1	
Gasket-left	665803	1	1	1	
Gasket-end	866680	2	2	2	
Oil level indicator					
NOTE:-Make certain correct indicator is ordered to fit tube installed in cylinder block as specified in parts list, otherwise oil reading will be incorrect.					
Assembly (16-1/16" from point to flat type stop)	673375	1	1	1	
Tube (6-1/2" long with flared end)	673372	1	1	1	
Assembly (17-1/16" from point to top of thimble type stop)	1089399	1	1	1	
Tube (7-1/2" long with straight end)	1088010	1	1	1	

FUEL

FUEL PUMP



Ref. No.	Part Name
2	Body, diaphragm and rocker arm assembly
3	Diaphragm
4	Valve retainer screw
5	Valve
6	Valve gasket
7	Bottom cover
8	Strainer screen
9	Strainer bowl
10	Strainer bowl retainer nut
11	Rocker arm
12	Rocker arm pivot pin and washer
13	Rocker arm spring
14	Valve retainer
15	Valve
16	Valve gasket
17	Cover to body screw and lockwasher
18	Strainer bowl gasket
19	Strainer bowl seat
20	Strainer bowl bail or retainer arm

Plate 11

FUEL (Cont'd)

CARBURETOR - ZENITH

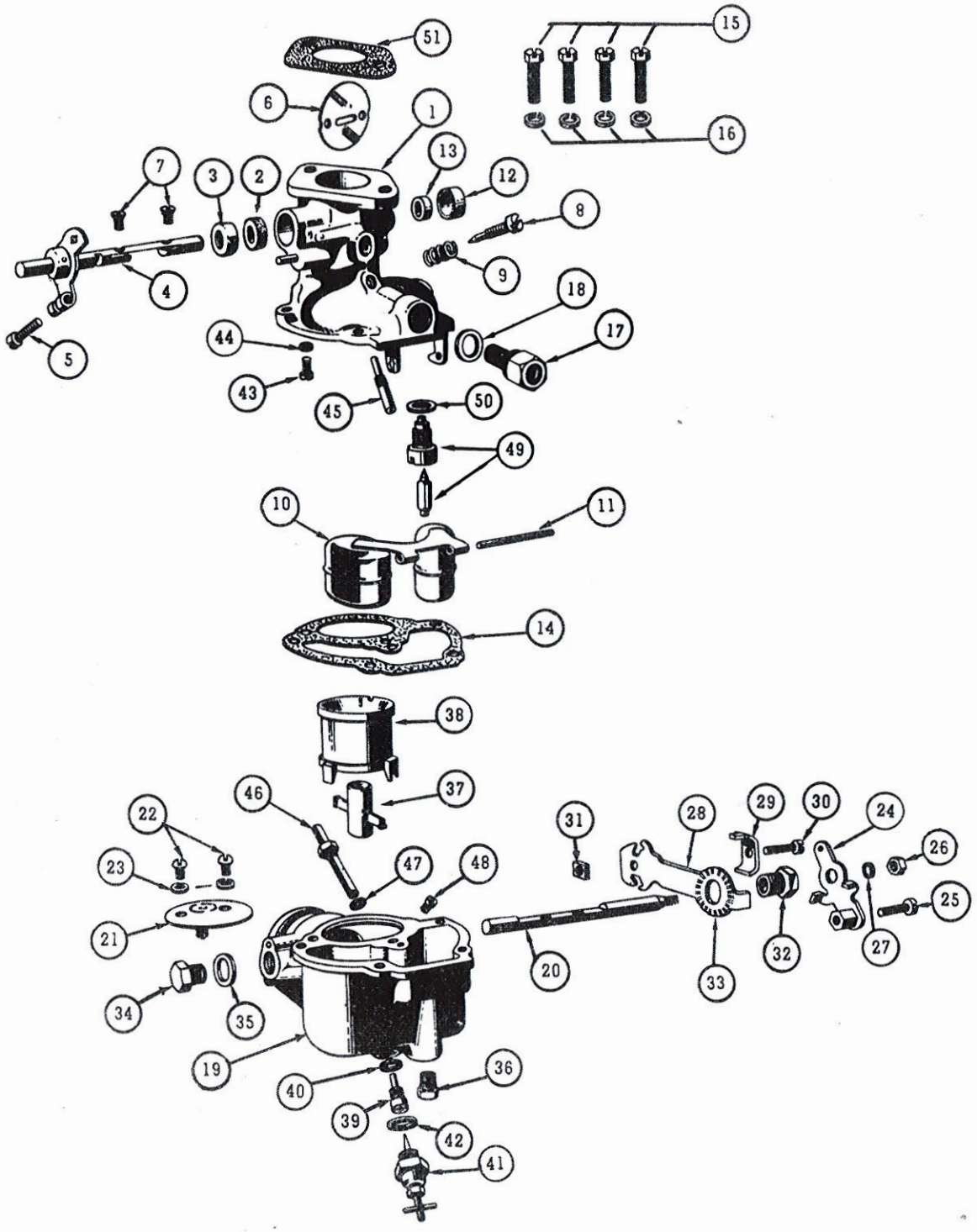


Plate 12

FUEL (Cont'd)

ZENITH CARBURETOR

Ref. No.	Part Name
1	Throttle body assy.
2	Throttle shaft packing washer
3	Throttle shaft packing washer retainer
4	Throttle shaft and lever assy.
5	Throttle shaft lever stop screw
6	Throttle plate
7	Throttle plate screw
8	Idle adjusting screw
9	Idle adjusting screw spring
10	Float assy.
11	Float axle
12	Throttle shaft hole plug (L.H.)
13	Throttle shaft thrust washer
14	Throttle body to fuel bowl gasket
15	Throttle body to fuel bowl screw
16	Throttle body to fuel bowl screw lockwasher
17	Throttle body fuel filter screen and plug
18	Throttle body fuel filter screen and plug gasket
19	Fuel bowl assy.
20	Air shutter shaft
21	Air shutter plate
22	Air shutter plate screw
23	Air shutter plate screw lockwasher
24	Air shutter shaft lever
25	Air shutter shaft lever swivel screw
26	Air shutter shaft nut
27	Air shutter shaft nut lockwasher
28	Air shutter shaft bracket
29	Air shutter shaft bracket tube clamp
30	Air shutter shaft bracket tube clamp screw
31	Air shutter shaft bracket tube clamp screw nut
32	Air shutter shaft bracket screw
33	Air shutter shaft lever return spring
34	Air shutter shaft hole plug
35	Air shutter shaft hole plug gasket
36	Fuel bowl drain plug
37	Venturi-secondary
38	Venturi
39	Main jet
40	Main jet gasket
41	Main jet passage plug
42	Main jet passage plug gasket
43	Economizer jet
44	Economizer jet gasket
45	Idling jet
46	Discharge jet
47	Discharge jet gasket
48	Well vent jet
49	Fuel valve and seat assy. (matched set)
50	Fuel valve and seat gasket

FUEL (Cont'd)

CARBURETOR - MARVEL

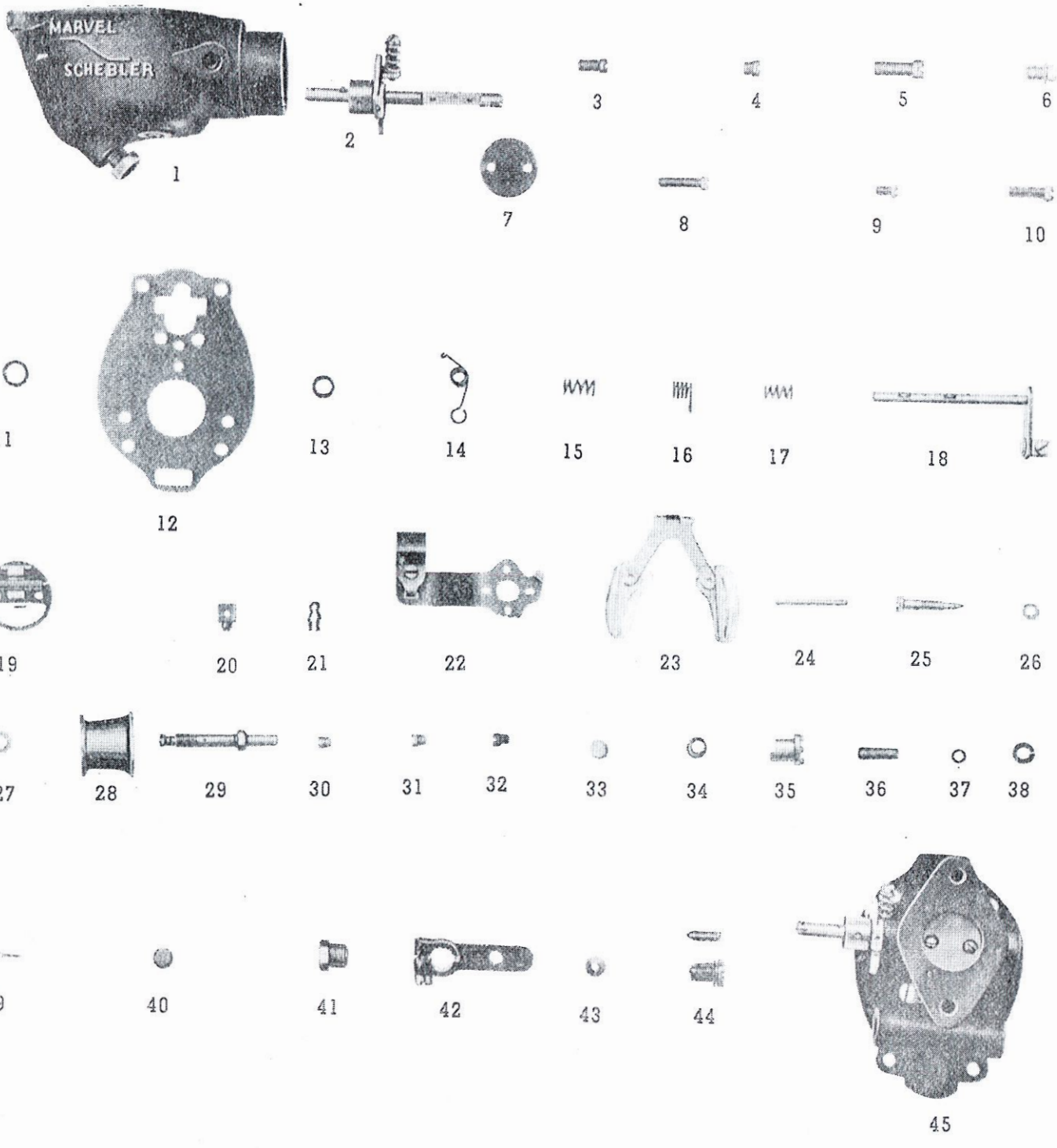


Plate 13

FUEL (Cont'd)

MARVEL CARBURETOR

Ref. No.	Part Name
1	Carburetor fuel bowl assy.
2	Throttle shaft, stop and collar assy.
3	Choke bracket screw
4	Headless plug screw
5	Throttle body to fuel bowl screw
6	Air shutter plate and throttle plate screw
7	Throttle plate
8	Throttle lever stop screw
9	Air shutter lever swivel screw
10	Governor lever screw
11	Fuel valve and seat gasket
12	Throttle body to fuel bowl gasket
13	Discharge jet gasket
14	Air shutter lever return spring
15	Throttle stop screw spring
16	Governor lever tension spring
17	Idle adjusting screw spring
18	Air shutter shaft and lever assy.
19	Air shutter plate
20	Air shutter shaft lever swivel
21	Air shutter shaft lever swivel spring or hair pin
22	Air shutter bracket and clip assy.
23	Float assy.
24	Float shaft
25	Idle adjusting screw
26	Throttle shaft packing washer
27	Air shutter shaft packing washer
28	Venturi
29	Discharge jet
30	Main jet
31	Idling jet
32	Economizer jet
33	Throttle shaft plug
34	Throttle shaft packing retainer
35	Governor lever tension spring retainer
36	Throttle shaft lever stop pin
37	Air shutter bracket screw lockwasher
38	Throttle body to fuel bowl screw lockwasher
39	Governor lever tension spring retaining cotter
40	Welsh plug strainer
41	Fuel bowl drain plug
42	Governor lever assy.
43	Bowl drain welsh plug
44	Fuel valve and seat assy. (matched set)
45	Throttle body and bowl cover assy.

FUEL (Cont'd)

CARBURETOR

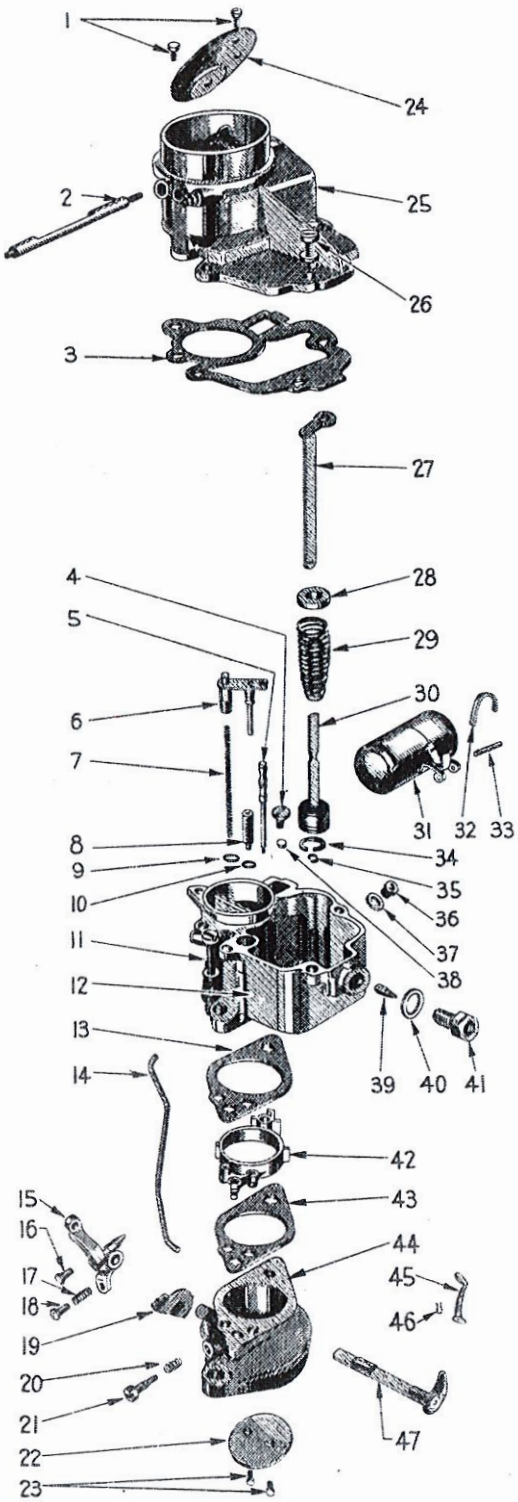


Plate 14—Carburetor (Disassembled View)

Plate 14

Ref. No.	Part Name
1	Valve attaching screws
2	Choke control lever and shaft
3	Body gasket
4	Pump check plug
5	Idle orifice tube and plug
6	Step-up piston; plate and rod
7	Step-up piston spring
8	Step-up jet
9	Step-up piston gasket
10	Step-up jet gasket
11	Flange attaching screw
12	Body (serviced in carburetor assembly)
13	Flange gasket
14	Choke connector rod
15	Throttle shaft lever
16	Throttle lever clamp screw
17	Throttle lever adjusting screw spring
18	Throttle lever adjusting screw
19	Throttle shaft dog
20	Idle adjustment screw spring
21	Idle adjustment screw
22	Throttle valve
23	Valve attaching screw
24	Choke valve
25	Air horn
26	Air horn attaching screw
27	Pump operating link
28	Pump spring retainer
29	Pump spring
30	Plunger and rod
31	Float and lever
32	Float lever pin retainer
33	Float lever pin
34	Pump retainer ring
35	Pump cylinder ball
36	Main metering jet
37	Main metering jet gasket
38	Pump check ball
39	Float needle (serviced in needle and seat assembly)
40	Float needle seat gasket
41	Float needle seat (serviced in needle and seat assembly)
42	Insulator
43	Flange gasket
44	Body flange
45	Pump connector link
46	Pin lock spring
47	Throttle valve shaft and arm

FUEL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
CARBURETOR - Standard Down-Draft					
Assembly (standard)(down-draft)	919785	1	..	..	
Assembly (standard)(down-draft)	919487	..	1	1	
Stud-long	620444	1	1	..	
Stud-short	103195	1	1	..	
Stud-long	564695	..	..	1	
Stud-short	103203	..	..	1	
Nut	120369	2	2	2	
Lockwasher	138489	2	2	2	
Body flange assembly	921765	1	..	..	
Body flange assembly	922078	..	1	1	
Insulator	697713	1	..	..	
Insulator	662803	..	1	1	

PART NAME	PER ENGINE	PART NUMBER	
Carburetor and component parts			
Carburetor assembly	**1**	**919785**	**919487**
Carburetor gaskets (used as follows):			
Flange to manifold	1	695767	637191
Flange to manifold	1	.....	562221
Body flange	1	697711	654508
Body	1	697712	697712
Step-up jet	1	651184	651184
Step-up piston	1	651185	651185
Needle seat	1	645613	645613
Main metering jet	1	651183	651183
Carburetor jets (used as follows):			
Main metering (5% lean)	1	658685	859887
Main metering (10% lean)	1	697159	857963
Pump	1	957801	697707
Step-up	1	667379	667379
Main metering jet and gasket assembly	1	650194	862321
Carburetor springs (used as follows):			
Idle adjust screw	1	645642	645642
Pump (conical)	1	675665	675740
Pump leather retainer spring	1	691315	691315
Choke pull back	1	651192	651192
Step-up piston	1	689498	689498
Pump operating link pin	1	645669	645669
Carburetor screws, nuts, plugs, etc.			
Idle adjust screw	1	645639	645639
Choke bracket attach screw and washer	1	917089	917089
Choke tube clamp nut	1	665404	665404
Choke clamp screw	1	665403	665403
Throttle adjust screw	1	957802	957802
Choke wire clamp screw	1	131958	131958

FUEL (Cont'd)

PART NAME	PER ENGINE	919785	919487
Air horn attach screw and washer	4	952584	952584
Valve attach screw	4	645578	645578
Carburetor attach screw	2	952583	952583
Throttle lever clamp screw	1	957803	957803
Pump check plug	1	689485	689485
Step-up passage plug	1	688102	688102
Idle passage plug	1	699811	699811
Pump discharge plug	1	699811	699811
Metering passage plug	1	688105	688105
Rivet passage plug	1	688106	688106
Pump jet passage plug	1	697704	697704
Carburetor throttle			
Valve	1	697697	662783
Shaft assembly	1	957797	922090
Lever assembly	1	957798	957798
Lever spring washer	1	856508	856508
Valve assembly	1	689484	689496
Tube bracket assembly	1	651194	651194
Lever and shaft assembly	1	957800	957800
Carburetor float			
Float assembly (with lever)	1	645636	645636
Pin (lever)	1	651186	651186
Pin retainer	1	651197	651197
Needle and seat assembly	1	861134	861134
Carburetor step-up			
Piston plate and rod assembly	1	689493	689493
Carburetor ball			
Intake check ball	1	651205	651205
Discharge check ball	1	689488	689488
Carburetor tubes			
Idle orifice tube and plug assembly	1	862322	689491
Main vent	1	675666	675741
Carburetor air horn			
Assembly	1	957799	957799
Carburetor pump			
Plunger and rod assembly	1	697709	697709
Connector link	1	697710	697710
Operating link	1	689489	689499
Retainer ring	1	678606	678606
Spring retainer	1	699839	699839

FUEL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
CARBURETOR - Standard Up-Draft					
Assembly - Zenith	995200	1	1	1	
Stud (carb. to manifold)	622462	2	2	2	
Stud (carb. to manifold) - with Pierce Governor throttle box	103200	2	2	2	
Nut (3/8-24)	120369	2	2	2	
Lockwasher	138489	2	2	2	
Gasket (carb. to manifold)	931682	1	1	1	
Assembly - Marvel	1087611	1	1	1	
Stud (carb. to manifold)	103203	2	2	2	
Stud (carb. to manifold) - with Pierce Governor throttle box	103207	2	2	2	
Nut (3/8-24)	120369	2	2	2	
Nut (3/8-16)	120377	2	2	2	
Lockwasher	138489	4	4	4	
Gasket (carb. to manifold)	931682	1	1	1	

Part Name	Per Engine	Carburetor 995200	In Pkg.	Carburetor 1087611	In Pkg.
Carburetor component parts					
Throttle body assy.	1	971164		1087896	
Shaft and lever assy.	1	1087971	*		
Shaft - only	1			1087863	*
Washer - packing	1	971159	*	1087880	*
Retainer - packing washer	1	971160	*	1087888	*
Screw - lever stop	1	971180		153148	
Spring - stop screw	1			1087870	*
Plug - Shaft hole (L.H.)	1	971157	*	1087887	*
Washer - shaft thrust	1	971193	*		
Pin - shaft lever stop	1			1087889	
Governor lever assy. (shaft)	1			1087894	
Screw (12-24x5/8)	1			153555	
Spring - tension (gov. lever)	1			1150924	*
Retainer - tension spring	1			1150925	
Cotter - tension spring ret.	1			1087891	
Plate - throttle	1	971156		1087864	
Screw - throttle plate	2	931535	*	152994	
Screw - idle adjusting	1	1087974		1087879	*
Spring - idle adjusting screw	1	1087975		1087871	
Screen and plug - fuel filter	1	971190	*		
Washer (fibre) - plug	1	971192	x*		
Jet - economizer	1	931528		1087885	*
Washer (fibre) - economizer jet	1	931547	x*		
Jet - idling	1	971196		1087884	*
Valve and seat - fuel	1	931529	*	1087897	*
Washer (fibre) - valve and seat	1	931548	x*	1087867	x*
Venturi	1	971194		1087882	
Venturi - secondary	1	971169			
Gasket - fuel bowl to throttle body	1	931541	x*	1087869	x*
Screw - fuel bowl to throttle body	4	931542	*	153561	
Lockwasher	4	931543	*	121744	
Screw (headless plug 5/16x24)	1			1087865	

FUEL (Cont'd)

Part Name	Per Engine	Carburetor 995200	In Pkg.	Carburetor 1087611	In Pkg.
Fuel bowl assy.	1	971166		1087862	
Shaft - air shutter	1	971173		1087873	
Nut - shaft	1	971184	*		
Lockwasher	1	971185	*		
Washer - packing	1			1087881	*
Plug - shaft hole	1	971188			
Washer (fibre) - shaft hole plug	1	931548	x*		
Plate - air shutter	1	971171		1087874	
Screw - plate	2	971172	*	152965	*
Lockwasher	2	971186	*	138473	
Lever - air shutter	1	971174			
Swivel - lever	1			1087875	
Pin (spring or hair) - swivel	1			1087890	
Screw - lever swivel	1	971177		153114	
Spring (return) - lever	1	971182		1087872	*
Bracket - air shutter	1	971178		1087876	
Screw - attaching	2	971183		153123	
Lockwasher	2			121841	
Clamp - bracket tube	1	971179			
Screw - clamp	1	971180			
Nut	1	971181			
Jet - main	1	971195		1087886	*
Washer (fibre) - main jet	1	931545	x*		
Plug - main jet passage	1	971167			
Washer (fibre) - plug	1	931548	x*		
Jet - discharge	1	971197		1087883	
Washer (fibre) - discharge jet	1	931546	x*	1087868	x*
Jet - well vent	1	971198			
Float assy.	1	931539		1087877	
Axle - float	1	931540	*	1087878	*
Drive screw - float axle bracket	2			1087866	
Plug - bowl drain	1	971168		1087893	
Welsh plug - bowl drain	1			1087895	
Strainer - welsh plug	1			1087892	
Carburetor gasket package- consists of parts marked *		1087972		1150900	
Carburetor repair package- consists of parts marked x		1087973		1150901	

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Carburetor air cleaner (down-draft)					
Assembly	919800	1	..	..	
Assembly	919801	..	1	1	
Assembly (oil bath)	915083	1	1	1	
Gasket	952062	1	1	1	
Carburetor air cleaner (up-draft)					
Assembly	995199	1	1	1	
Adaptor ring	971143	1	1	1	

FUEL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Carburetor to distributor vacuum control tube (for down-draft carburetor only)					
Tube assy.	861558	1	1	1	
Elbow	137420	2	2	2	
Clip	639161	1	1	1	
Plainwasher	120395	1	1	1	
Governor (velocity type)					
Assembly	920543	..	..	1	
Stud (manifold to carb.)-long	564695	..	..	1	
Stud (manifold to carb.)-short	103203	..	..	1	
Nut	120369	..	..	2	
Lockwasher	138489	..	..	2	
Gasket (gov. to manifold)	562221	..	..	1	
Gasket (gov. to carb.)	562221	..	..	1	
Governor assembly (Pierce flyball type)					
Pierce flyball governor package with *down-draft* carburetor-2800 R.P.M.	971109	1	1	1	
Pierce flyball governor package with *down-draft* carburetor-1700 R.P.M.	995284	1	1	1	
Pierce flyball governor package with *down-draft* carburetor-2100 R.P.M.	995283	1	1	1	
Pierce flyball governor package with *up-draft* carburetor-2800 R.P.M.	891124	1	1	1	
Pierce flyball governor package with *up-draft* carburetor-1700 R.P.M.	971110	1	1	1	
Pierce flyball governor package with *up-draft* carburetor-2100 R.P.M.	971111	1	1	1	
NOTE:-For illustration of governor and service part numbers see governor manual WM-4115					
FUEL GAUGE					
Fuel gauge (dash unit)					
Assembly (includes ammeter gauge)	923709	1	1	1	
Gauge (only)	591990	1	1	1	
Terminal nut	120614	2	2	2	
Lockwasher	120217	2	2	2	
Housing assy.	591982	1	1	1	
Face plate	591983	1	1	1	
Gasket	591984	1	1	1	
Bezel (chrome)	591981	1	1	1	
Bezel (black enamel)	923707	1	1	1	
Gasket	592489	1	1	1	
Glass dial (fuel gauge and ammeter)	596902	1	1	1	
Gasket	592490	1	1	1	
Screw (mounting)	122159	2	2	2	
Nut	120622	2	2	2	
Lockwasher	121841	2	2	2	

FUEL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Fuel gauge (tank unit)					
Assembly	591146	1	1	1	
Gasket	882903	1	1	1	
Terminal nut	120614	2	2	2	
Lockwasher	120617	2	2	2	
Screw (mounting)	599677	5	5	5	
Lockwasher	321941	5	5	5	
FUEL TANK					
Fuel tank					
Assembly (15 gal.)	571677	1	1	1	
FUEL PUMP					
Assembly	683056	1	1	1	
Gasket (to block)	688482	1	1	1	
Screw	122022	2	2	2	
Lockwasher	120214	2	2	2	
Fuel pump body					
Assembly (includes oil seal)	699816	1	1	1	
Oil seal assy.	699795	1	1	1	
Gasket	699793	1	1	1	
Fuel pump diaphragm					
Assembly	689510	1	1	1	
Spring	689508	1	1	1	
Retainer	699808	1	1	1	
Fuel pump rocker arm					
Arm	689507	1	1	1	
Pin	639130	1	1	1	
Washer	639133	1	1	1	
Spring	689520	1	1	1	
Link	699814	1	1	1	
Fuel pump valve					
Assembly (includes cage)	689505	2	2	2	
Plate (or retainer)	699815	1	1	1	
Gasket	689501	2	2	2	
Fuel pump strainer					
Bowl	689503	1	1	1	
Gasket	689504	1	1	1	
Bail and screw assy.	689506	1	1	1	
Thumb nut (bail and screw)	639109	1	1	1	
Seat	689500	1	1	1	
Screen	689509	1	1	1	

FUEL (Cont'd)

PART NAME	PART No.	MODELS T112	MODELS T118	MODELS T120	NOTES
Fuel pump bottom cover					
Cover	699813	1	1	1	
Screw	639093	6	6	6	
Lockwasher	120217	6	6	6	
Fuel Tube - Pump to Carburetor					
Tube (down-draft carb.)-standard	861828	1	1	..	
Tube (down-draft carb. with velocity type governor)	861831	1	1	1	
Tube (down-draft carb. with pierce governor and throttle box)	861831	1	1	1	
Tube (down-draft carb. with Pierce governor and slip joint linkage)	861834	1	1	1	
Tube (down-draft carb. and stack manifold with Pierce governor and throttle box)	1150146	1	1	1	
Tube (up-draft carb.)	948298	1	1	1	
Nut	137398	2	2	2	
Elbow	137422	1	1	1	
Connection (at carburetor) for down-draft carburetor	956701	1	1	1	
Nipple (at carburetor) for up-draft carburetor	137406	1	1	1	

TRANSMISSION - 3 SPEED

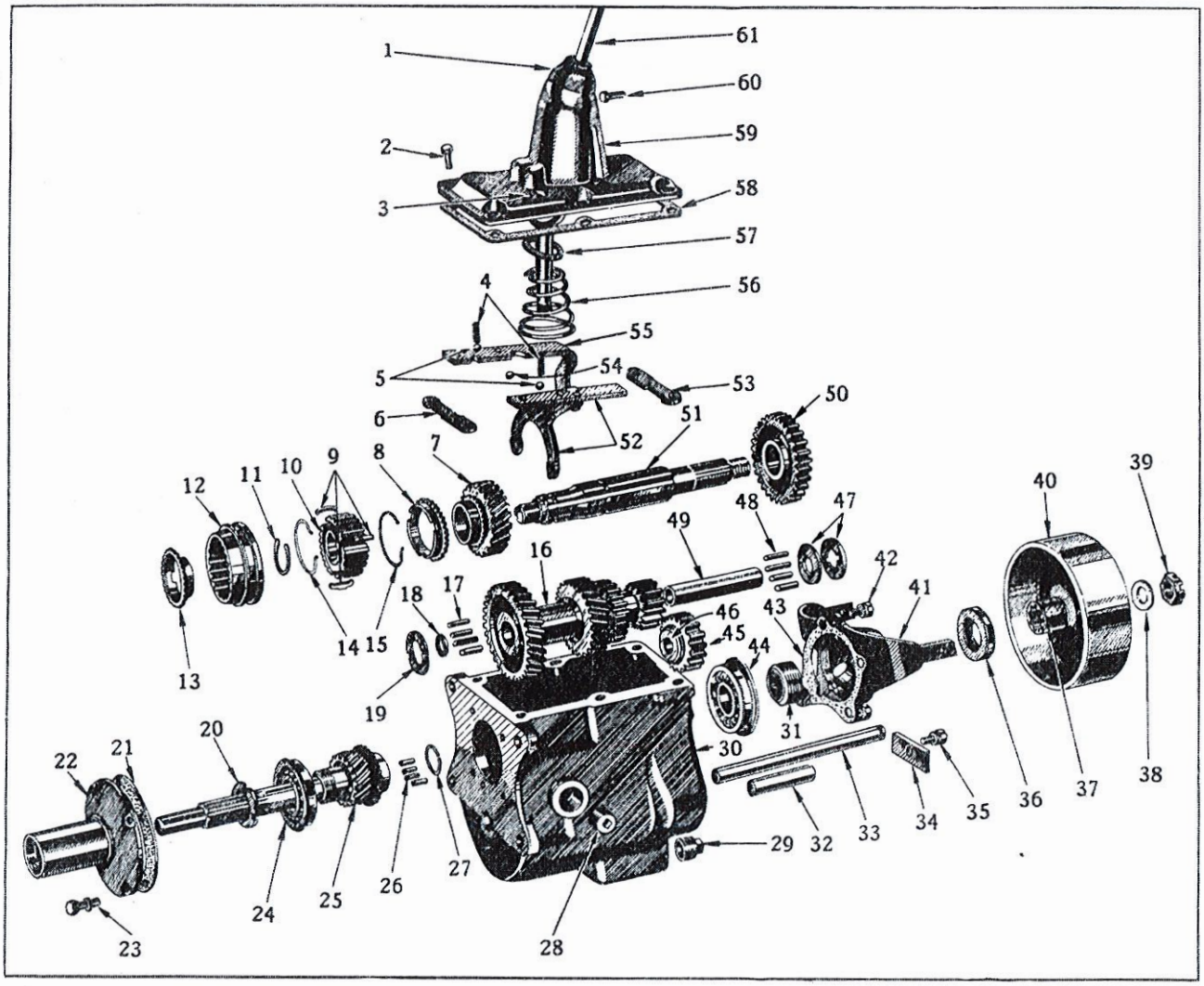


Plate 15

Ref. No.	Part Name
1	Gearshift lever ball cap
2	Gearshift housing screw
3	Gearshift rail retainer rivet
4	Gearshift rail spring
5	Gearshift rail selector ball
6	Gearshift rail retainer
7	Second speed gear
8	Synchronizer stop ring
9	Synchronizer shift plate
10	Clutch gear
11	Clutch gear snap ring
12	Clutch gear sleeve
13	Synchronizer stop ring
14	Synchronizer spring
15	Synchronizer spring
16	Countershaft gear
17	Countershaft bearing
18	Countershaft bearing end spacer
19	Countershaft thrust washer
20	Drive pinion bearing lock nut
21	Drive pinion retainer gasket
22	Drive pinion bearing retainer
23	Pinion bearing retainer screw and washer
24	Drive pinion bearing
25	Drive pinion
26	Mainshaft pilot rollers
27	Mainshaft pilot bearing snap ring
28	Case filler plug
29	Case drain plug
30	Transmission case
31	Speedometer drive gear
32	Idler gear shaft
33	Countershaft
34	Countershaft and Idler shaft lock plate
35	Lock plate screw and lockwasher
36	Mainshaft bearing oil seal
37	Mainshaft flange
38	Mainshaft flange nut washer
39	Mainshaft flange nut
40	Hand brake drum
41	Bearing retainer or brake support
42	Brake support screw and lockwasher
43	Brake support gasket
44	Mainshaft bearing
45	Reverse idler gear
46	Reverse idler gear bushing
47	Countershaft end washers
48	Countershaft bearings
49	Countershaft bearing spacer
50	First and reverse gear
51	Mainshaft
52	Second and direct shift fork
53	Gearshift rail retainer
54	Gearshift rail interlock ball
55	First and reverse shift fork
56	Gearshift lever spring
57	Gearshift lever spring seat
58	Gearshift housing gasket
59	Gearshift housing
60	Gearshift lever guide pin
61	Gearshift lever

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
GROUP - TRANSMISSION (3 SPEED)		
Transmission (3 speed)		
Assembly	599750	1
Transmission small parts package		
Package	939735	1
Consists of:		
2 - 579230 end washer		
2 - 579198 thrust washer		
44 - 580203 roller bearing		
14 - 602007 pilot bearing		
1 - 601108 snap ring		
1 - 579229 thrust washer		
1 - 579228 washer lock		
1 - 579190 gasket		
1 - 579305 gasket		
1 - 579217 gasket		
1 - 631823 snap ring		
1 - 631824 snap ring		
1 - 579234 gasket		
GROUP - TRANSMISSION CASE		
Transmission case		
Case	599291	1
Drain plug	666853	1
Filler plug	103875	1
GROUP - TRANSMISSION MAINSHAFT - COUNTERSHAFT - REVERSE IDLER SHAFT		
Transmission mainshaft		
Mainshaft	599734	1
Bearing	579211	1
Oil seal assembly	600420	1
Bearing retainer (hand brake support)	579202	1
Gasket	579234	1
Screw	122126	4
Lockwasher	120382	4
Synchronizer spring	856471	2
Synchronizer shift plate	856470	3
Synchronizer stop ring	853867	2
Synchronizer snap ring - thin	631823	*
Synchronizer snap ring - medium	631824	*
Synchronizer snap ring - thick	631825	*
Synchronizer snap ring - extra thick	640332	*
Transmission countershaft		
Countershaft	579200	1
Thrust washer	584310	*
Thrust washer	579198	*
End washer	579230	2
Countershaft needle bearing	580203	44
Spacer	579231	1
End spacer	579193	1

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
Transmission reverse idler shaft		
Shaft	579203	1
Lock plate (reverse idler and countershaft)	579194	1
Screw	122017	1
Lockwasher	120214	1
GROUP - TRANSMISSION MAIN DRIVE PINION		
Main drive pinion		
Pinion	599620	1
Pilot bushing	53298	1
Pilot bearing roller	602007	14
Snap ring	601108	1
Pinion bearing	619167	1
Lock nut	579199	1
Retainer	579304	1
Gasket	579305	1
Screw	122017	4
Lockwasher	120214	4
GROUP - TRANSMISSION GEARS		
Transmission gears		
Second speed gear	599736	1
Clutch gear	853863	1
Clutch gear and sleeve assembly	856467	1
Sleeve	856464	1
Reverse idler gear assembly	579196	1
Bushing	579197	1
Sliding gear 1st and reverse	599735	1
Countershaft gears	599741	1
GROUP - TRANSMISSION GEARSHIFT HOUSING (CASE COVER)		
Gearshift housing		
Housing	599737	1
Gasket	579217	1
Screw	122017	6
Lockwasher	120214	6
Gearshift lever		
Lever	599740	1
Guide pin	571390	1
Spring	584309	1
Ball washer	571391	1
Ball cap	317448	1
Knob	580416	1
Gearshift fork and rail		
Assembly - second and direct	599738	1
Rivet	104168	2
Assembly - low and reverse	579221	1
Rail retainer - front	579235	1
Rail retainer - rear	599739	1
Rivet	108682	4
Interlock ball	119282	1
Selector ball	104919	2
Selector ball spring	579195	2

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
GROUP - TRANSMISSION (4 SPEED)		
Transmission (4 speed)		
Assembly	920051	1
Transmission case		
Case	567064	1
Filler plug	103875	1
Drain plug	666853	1
Power take-off cover		
Cover	592037	1
Gasket	567500	1
Screw	122119	6
Lockwasher	120382	6
Transmission small parts package		
Package	939736	1
Consists of:		
1-556833 snap ring		
1-556873 bearing spacer		
1-556832 bearing washer		
1-556834 gasket		
1-556947 gasket		
1-598231 snap ring		
1-598232 snap ring		
1-556871 gasket		
1-567500 gasket		
GROUP - TRANSMISSION MAINSHAFT - COUNTERSHAFT - REVERSE IDLER SHAFT		
Mainshaft		
Mainshaft	556830	1
Pilot bearing assembly	141852	1
Spacer	556873	1
Drive gear snap ring	556833	1
Bearing retainer snap ring - front	598231	1
Bearing retainer snap ring - rear	598232	1
Oil retainer washer - front	556885	1
Oil retainer washer - rear	556892	1
Rear bearing assembly	564742	1
Rear bearing retainer assembly (hand brake support)	567316	1
Gasket	556871	1
Screw - short	122017	4
Screw - long	122065	1
Lockwasher	120214	5
Rear bearing washer	556832	1
Oil seal assembly	593596	1
Countershaft		
Countershaft	556881	1
Countershaft bearing	556911	2
Spacer	556895	1

TRANSMISSION (Cont'd)

Ref. No.	Part Name
1	Gearshift rail interlock plunger
2	Gearshift rail interlock pin
3	Gearshift fork—third and direct
4	Gearshift fork—low and second
5	Gearshift reverse rail end
6	Gearshift rail—third and direct
7	Gearshift rail—low and second
8	Gearshift lever
9	Gearshift lever dust cover
10	Gearshift lever spring seat
11	Gearshift fork and end lock screw
12	Gearshift fork and end lock screw lockwire
13	Transmission case cover
14	Transmission case cover reverse plunger plug
15	Gearshift lever reverse plunger
16	Gearshift reverse plunger spring
17	Gearshift lever pivot pin
18	Gearshift lever reverse plunger retainer
19	Gearshift lever reverse plunger retainer lock nut
20	Gearshift lever reverse plunger lock
21	Gearshift rail—reverse
22	Gearshift rail poppet spring
23	Gearshift rail poppet
24	Transmission main drive pinion bearing
25	Transmission main drive pinion snap ring
26	Transmission main drive pinion bearing snap ring
27	Transmission drive pinion bearing oil retainer washer
28	Transmission main shaft pilot bearing
29	Transmission main drive pinion bearing retainer
30	Transmission main shaft pilot bearing spacer
31	Transmission main drive pinion bearing retainer gasket
32	Transmission main drive pinion
33	Transmission main shaft third and direct gear
34	Transmission countershaft
35	Transmission case cover gasket
36	Transmission case cover expansion plug
37	Transmission countershaft bearing
38	Transmission main shaft low and second gear
39	Power take-off cover
40	Transmission countershaft gears (integral)
41	Transmission case
42	Transmission countershaft bearing spacer
43	Transmission countershaft bearing
44	Transmission main shaft
45	Transmission case drain plug
46	Transmission main shaft rear bearing snap ring
47	Transmission main shaft rear bearing washer
48	Transmission main shaft rear bearing oil retainer washer
49	Transmission main shaft rear bearing
50	Transmission main shaft rear bearing retainer gasket
51	Speedometer drive gear spacer
52	Transmission main shaft rear bearing retainer and hand brake support
53	Speedometer drive gear
54	Transmission main shaft rear bearing retainer oil seal
55	Transmission main shaft yoke (flange) (see hand brake)
56	Transmission main shaft yoke nut (see hand brake)
57	Gearshift reverse fork rail cotter (see hand brake)
58	Transmission reverse idler shaft
59	Gearshift reverse fork rail
60	Gearshift fork—reverse
61	Transmission case
62	Transmission reverse idler gear
63	Transmission reverse idler gear bushing
64	Transmission countershaft and reverse idler shaft lock plate
65	Case cover screw and lockwasher
66	Gearshift lever spring
67	Main drive pinion bearing retainer screw and lockwasher
68	Power take-off cover gasket
69	Shaft lock plate screw and lockwasher
70	Main shaft yoke nut washer (see hand brake)

TRANSMISSION - 4 SPEED

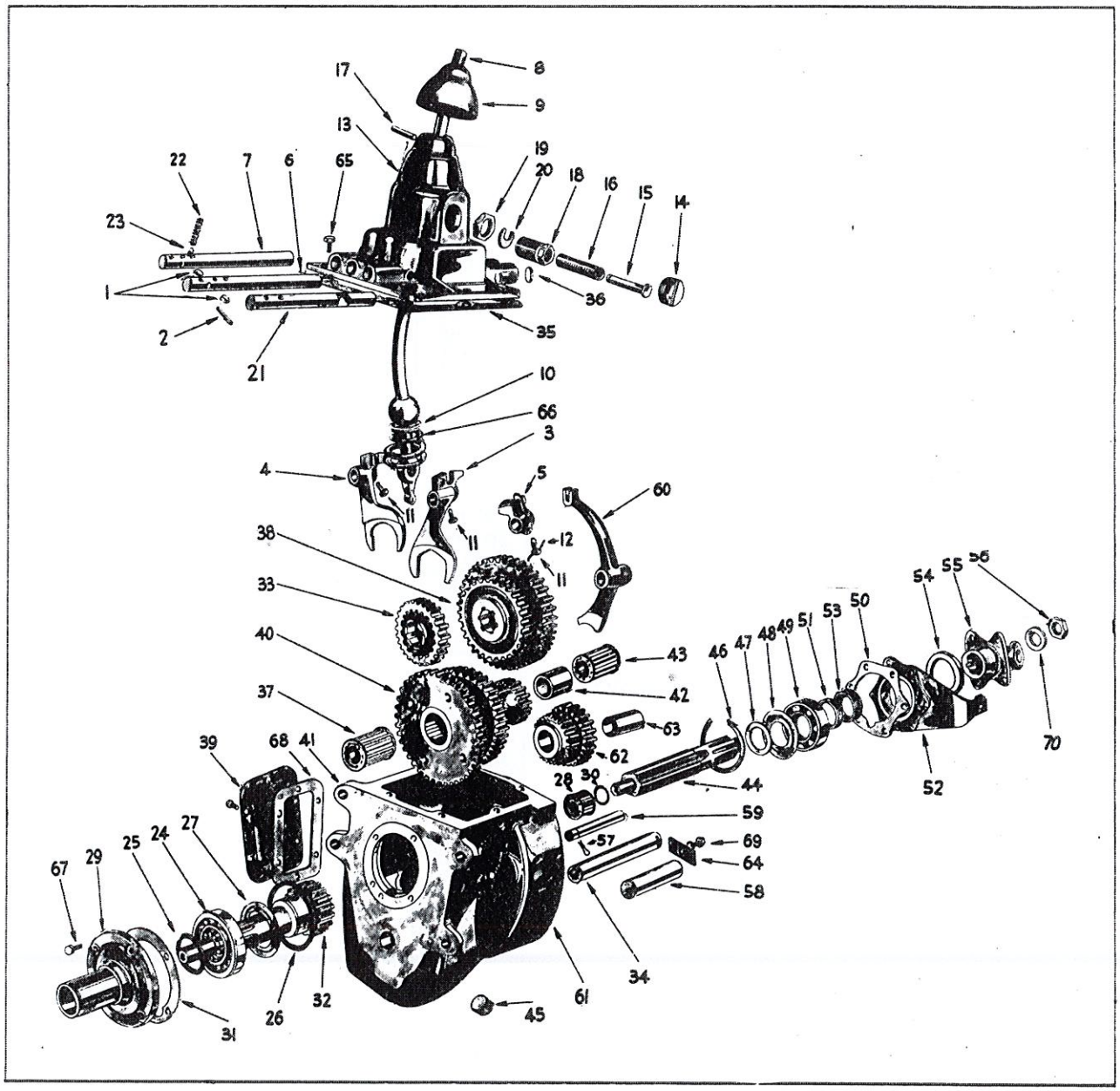


Plate 16

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
Reverse idler shaft		
Shaft	556883	1
Lock plate (idler and countershaft)	556888	1
Screw	122119	1
Lockwasher	120382	1
GROUP - MAIN DRIVE PINION (GEAR)		
Main drive pinion (gear)		
Gear	597205	1
Bearing	620520	1
Bearing retainer	556778	1
Gasket	556834	1
Screw	122017	2
Screw	556904	2
Lockwasher	138486	2
Lockwasher	120214	2
GROUP - TRANSMISSION GEARS		
Transmission gears		
Sliding gear (low and second)	597207	1
Sliding gear (third and direct)	597208	1
Countershaft gears (integral)	597209	1
Reverse idler gear assembly	912072	1
Bushing	556848	1
GROUP - GEARSHIFT HOUSING (CASE COVER)		
Case cover		
Cover	580317	1
Gasket	556947	1
Screw	120918	1
Screw	122145	1
Screw	122207	1
Screw	122126	3
Lockwasher	120382	6
Plug (expansion)	117612	3
Gearshift rail		
Rail (reverse fork)	556903	1
Rail (reverse)	556841	1
Rail (low and second)	556839	1
Rail (third and direct)	556840	1
End (reverse shift rail)	556902	1
Ball	104920	3
Spring	517373	3
Interlock plunger	556882	2
Interlock pin	556890	1
Interlock plug	928178	1
Stop	517364	1
Plug (reverse stop)	313503	1

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
Gearshift fork		
Fork (reverse)	556844	1
Fork (first and second)	556842	1
Fork (third and direct)	556843	1
Screw	517362	3
Lockwire	556944	3
Gearshift lever		
Lever	587859	1
Spring	584309	1
Friction plate	571391	1
Guide pin	571390	1
Retainer (plunger spring)	313515	1
Check nut	313516	1
Reverse stop	571392	1
Plunger spring	572035	1
Plunger washer	313514	1
Ball cap (rubber)	317448	1
Knob	377971	1

*—**Indicates amount used as required.**

TRANSMISSION - 5 SPEED

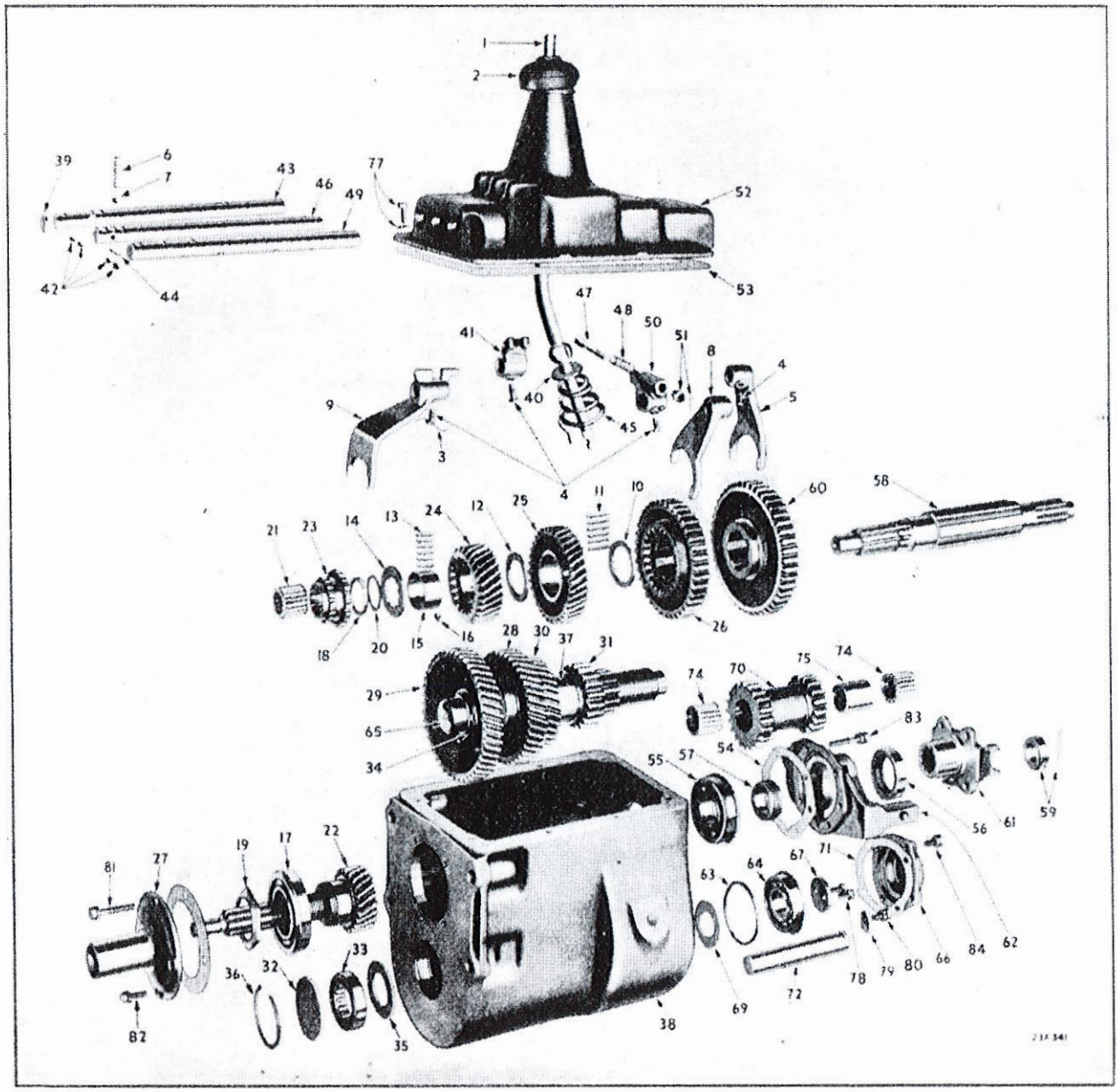


Plate 17

TRANSMISSION (Cont'd)

Ref. No.	Part Name
1	Trans. Gearshift lever
2	Trans. gearshift lever dust cover
3	Trans. gearshift fork and lug to rail screw lock-wire
4	Trans. gearshift fork and lug to rail screws
5	Trans. gearshift fork—low and reverse
6	Trans. gearshift rail poppet spring
7	Trans. gearshift rail poppet
8	Trans. gearshift fork—2nd and 3rd
9	Trans. gearshift fork—4th and high
10	Trans. main shaft 3rd speed gear locating washer
11	Trans. main shaft 3rd speed gear roller
12	Trans. main shaft 4th speed gear locating washer
13	Trans. main shaft 4th speed gear roller
14	Trans. main shaft 4th speed gear bearing retain. washer
15	Trans. main shaft 4th speed gear roller bushing
16	Trans. main shaft 4th speed gear bush. retainer pin
17	Trans. main drive gear bearing
18	Trans. main shaft 4th speed gear retainer ring
19	Trans. main drive gear bearing retainer nut
20	Trans. main shaft 4th speed gear shims
21	Trans. main shaft spigot bearing
22	Trans. main drive gear
23	Trans. 4th and high speed sliding gear
24	Trans. main shaft 4th speed gear
25	Trans. main shaft 3rd speed gear
26	Trans. 2nd and 3rd speed sliding gear
27	Trans. main drive gear bearing retainer
28	Trans. countershaft 4th speed gear
29	Trans. countershaft drive gear
30	Trans. countershaft 3rd speed gear
31	Trans. countershaft 2nd and reverse gear
32	Trans. countershaft front bearing retainer plug
33	Trans. countershaft front bearing
34	Trans. countershaft drive gear retainer ring
35	Trans. countershaft front bearing washer
36	Trans. countershaft front bearing retainer ring
37	Trans. countershaft 2nd and 3rd speed gear spacer
38	Trans. case
39	Trans. gearshift rail hole plug
40	Trans. gearshift lever spring seat
41	Trans. gearshift rail lug—2nd and 3rd
42	Trans. gearshift rail interlock balls
43	Trans. 2nd and 3rd shift rail
44	Trans. gearshift rail interlock pin
45	Trans. gearshift lever spring
46	Trans. 4th and 5th shift rail
47	Trans. gearshift low and reverse latch plunger
48	Trans. gearshift low and reverse latch plunger spring
49	Trans. low and reverse shift rail
50	Trans. gearshift rail lug—low and reverse
51	Trans. gearshift low and reverse latch plunger nut
52	Trans. case cover
53	Trans. case cover gasket
54	Trans. main shaft rear bearing retainer gasket
55	Trans. main shaft rear bearing
56	Trans. main shaft rear bearing oil seal
57	Speedometer drive gear
58	Trans. main shaft
59	Trans. main shaft companion yoke nut and cotter pin (see hand brake)
60	Trans. low and reverse sliding gear
61	Trans. main shaft companion yoke (see hand brake)
62	Trans. main shaft rear bearing retainer
63	Trans. countershaft rear bearing spacer
64	Trans. countershaft rear bearing
65	Trans. countershaft
66	Trans. countershaft rear bearing retainer
67	Trans. countershaft rear bearing retainer washer
68	Trans. countershaft gear key
69	Trans. countershaft rear bearing washer
70	Trans. reverse idler gear
71	Trans. countershaft rear bearing retainer gasket
72	Trans. reverse idler gear shaft
73	Trans. power take-off cover
74	Trans. reverse idler gear shaft bearing
75	Trans. reverse idler gear shaft bearing spacer
76	Trans. case drain plug
77	Case cover screw and lockwasher
78	Countershaft rear bearing retainer washer and lock
79	Reverse idler gear shaft lock
80	Reverse idler gear shaft lock screw and lockwasher
81	Main drive bearing retainer screw and lockwasher—upper
82	Main drive gear bearing retainer screw and lockwasher—lower
83	Main shaft rear bearing retainer screw and lockwasher
84	Countershaft rear bearing retainer screw and lockwasher

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
GROUP - TRANSMISSION (5 SPEED)		
Transmission		
Assembly	584633	1
Transmission case		
Case	582961	1
Filler plug	103870	1
Drain plug	666853	1
Brake lever hole plug	122104	2
Power take-off cover		
Cover	510710	1
Gasket	567500	1
Screw	122104	6
Lockwasher	120382	6
GROUP - TRANSMISSION MAINSHAFT - COUNTERSHAFT - REVERSE IDLER SHAFT		
Mainshaft		
Mainshaft	567399	1
Pilot bearing	567656	1
Rear bearing	566493	1
Rear bearing retainer assembly (handbrake support)	567384	1
Gasket	567402	1
Screw - short	120233	4
Screw - long	122188	1
Lockwasher	120382	5
Washer	574780	1
Oil seal assembly	567878	1
Countershaft		
Countershaft assembly	567618	1
Countershaft	567418	1
Bearing - front	121856	1
Retainer ring	565317	1
Retainer plug	565318	1
Washer	567416	1
Bearing - rear	575551	1
Spacer	567492	1
Washer	568347	1
Retainer washer	567415	1
Screw (retainer washer)	120741	2
Lockwasher	138538	2
Cap	567413	1
Gasket (cap)	567414	1
Screw (cap)	120233	4
Lockwasher	120382	4
Reverse idler gear shaft		
Shaft	567421	1
Bearing	567656	2
Spacer	567494	1
Lock	553798	1
Screw	122104	1

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
GROUP - MAIN DRIVE PINION (GEAR)		
Main drive pinion (gear)		
Gear	567417	1
Bearing	567707	1
Bearing retainer	567713	1
Gasket	565303	1
Nut	567488	1
Screw - upper	120229	2
Screw - lower	565919	2
Lockwasher	138538	4
GROUP - TRANSMISSION GEARS		
Transmission gears		
Fourth speed gear	567405	1
Roller	565291	36
Bushing	567400	1
Retainer ring	567491	1
Shim (.003)	570859	*
Shim (.005)	570860	*
Bearing retainer washer	567401	1
Locating washer	567406	1
Bushing retainer pin	567489	1
Third speed gear	567403	1
Roller	567490	34
Locating washer	567404	1
Sliding gear (second and third)	567424	1
Sliding gear (fourth and high)	567429	1
Sliding gear (low and reverse)	567426	1
Countershaft drive gear	567419	1
Retainer ring	567502	1
Countershaft fourth speed gear	567422	1
Countershaft third speed gear	567423	1
Countershaft second reverse gear	567420	1
Spacer	567493	1
Key	117991	4
Reverse idler gear	567428	1
GROUP - GEARSHIFT HOUSING (CASE COVER)		
Gearshift housing (case cover)		
Cover	580041	1
Pin	567487	1
Gasket	567486	1
Screw	120233	8
Lockwasher	120382	8
Low and reverse latch plunger	567407	1
Spring	567499	1
Nut	128177	1
Cotter	103361	1

*—Indicates amount used as required.

TRANSMISSION (Cont'd)

Part Name	Part No.	Quantity
Gearshift rail or shaft		
Rail (low and reverse)	567410	1
Rail (second and third)	567408	1
Rail (fourth and fifth)	567412	1
Lug (low and reverse)	567411	1
Lug (second and third)	567409	1
Hole plug	103893	3
Interlock ball	104921	4
Interlock pin	567498	1
Interlock hole plug	103891	1
Ball	104921	3
Spring	567501	3
Gearshift fork		
Fork (reverse, low, second and third)	567427	2
Fork (fourth and high)	567425	1
Screw	517362	5
Lockwire	522295	5
Gearshift lever		
Lever	587853	1
Spring	569991	1
Seat	567497	1
Ball cap	567496	1
Knob	377971	1

HAND BRAKE

Model 3 Speed Transmission

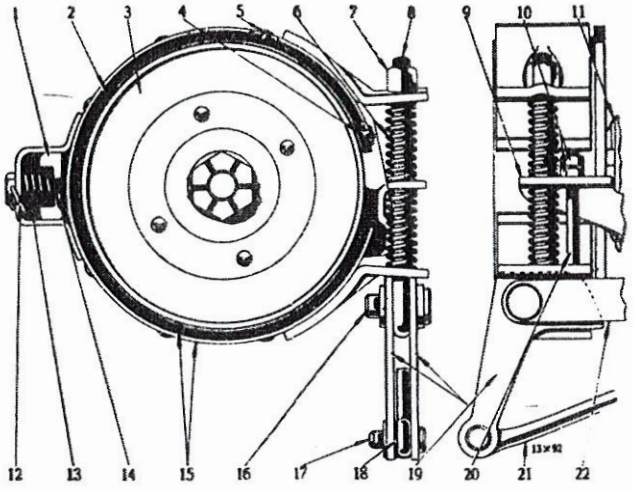


Plate 18

Ref. No.	Part Name
1	Hand brake support
2	Hand brake band lining
3	Hand brake drum
4	Hand brake band lining rivet (tubular)
5	Hand brake band lining rivet (split)
6	Hand brake band adjusting bolt spring
7	Hand brake band adjusting bolt nut
8	Hand brake band adjusting bolt
9	Hand brake band guide bolt bracket
10	Hand brake band guide bolt nut
11	Hand brake support
12	Hand brake anchor screw lock wire
13	Hand brake band anchor spring
14	Hand brake band anchor screw
15	Hand brake band and lining assembly
16	Hand brake band adjusting bolt clevis pin
17	Hand brake rod clevis pin—front
18	Hand brake rod anti-rattle washer
19	Hand brake operating levers
20	Hand brake band guide bolt
21	Hand brake rod
22	Hand brake operating lever link

Model 4 and 5 Speed Transmission

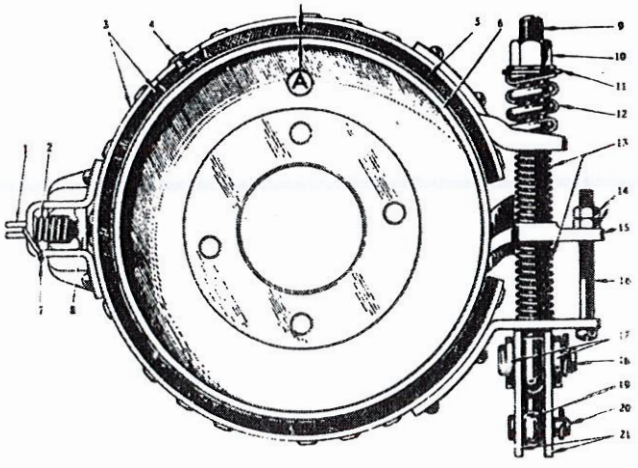


Plate 19

Ref. No.	Part Name
1	Hand brake anchor adjusting screw
2	Hand brake anchor adiusting screw spring
3	Hand brake band and lining
4	Hand brake band lining rivet
5	Hand brake band lining
6	Hand brake drum
7	Hand brake anchor adjusting screw lockwire
8	Transmission mainshaft rear bearing retainer
9	Hand brake adjusting bolt
10	Hand brake adjusting bolt nut
11	Hand brake adjusting bolt nut washer
12	Hand brake operating spring
13	Hand brake adjusting bolt spring
14	Hand brake bracket adjusting screw nuts
15	Transmission mainshaft rear bearing retainer
16	Hand brake bracket adjusting screw
17	Hand brake spacer links
18	Hand brake adjusting bolt clevis pin
19	Hand brake rod
20	Hand brake rod clevis pin
21	Hand brake operating cam levers

HAND BRAKE (Cont'd)

Part Name	Part No.	Three speed Transmission	Four speed Transmission	Five speed Transmission
GROUP - BRAKE DRUM				
NOTE:-For hand brake support—see transmission mainshaft rear bearing retainer				
Brake drum				
Brake drum	665452	1		
Brake drum and flange	582507		1	
Brake drum	582547		1	1
Brake drum and flange	596818			1
Bolt	582512		4	4
Nut	120370		4	4
Lockwasher	136857		4	4
Brake drum flange				
Flange (or yoke)	600365	1		
Flange (or yoke)	582504		1	
Flange (or yoke)	596763			1
Nut	600366	1		
Nut	562536		1	
Nut	564214			1
Washer	308466	1		
Washer	556940		1	
Cotter	103386	1	1	
Cotter	103387			1
GROUP - BRAKE BAND				
Brake band				
Assembly-complete	665455	1		
Assembly-complete	586888		1	
Assembly-complete	584634			1
Lining (order 17 1/16" of 396389)		1		
Lining	566987		1	1
Rivet (tubular)	110400	4		
Rivet (bracket and anchor)	104152	12	12	12
Rivet (lining)	121889	12		
Rivet (lining)	114518		18	
Rivet (lining)	121573			18
Brake band - support (see transmission main shaft rear bearing retainer				
Anchor spring	661312	1		
Anchor spring	517384		1	1
Anchor clip	517284		1	1
Screw	665454	1		
Screw	596694		1	1
Lockwire	14155	1		
Lockwire	556944		1	
Lockwire	522295			1
Guide bolt	377416	1		
Nut	120375	2		
Lockwasher	120380	1		

HAND BRAKE (Cont'd)

Part Name	Part No.	Three speed Transmission	Four speed Transmission	Five speed Transmission
GROUP - HAND BRAKE ADJUST PARTS				
Brake adjust parts				
Adjust bolt	634661	1		
Adjust bolt	580048		1	1
Nut	391182	1		
Nut	124834		2	2
Plainwasher	120389		1	
Plainwasher	120396			1
Lockwasher	120383			1
Clevis pin	138086			1
Cotter	137190			1
Adjust bolt spring	388302	2		
Adjust bolt spring	566729		2	2
Adjust screw (bracket)	566990		1	
Adjust screw (bracket)	567322			1
Nut	120375		2	2
Lockwasher	120380		1	
GROUP - HAND BRAKE LEVER				
Hand brake lever				
Assembly-complete	590393	1	1	1
Pawl rod assembly	579693	1	1	1
Button (chrome)	536802	1	1	1
Button (black enamel)	923901	1	1	1
Pin	320878	1	1	1
Spring	536800	1	1	1
Pawl	564298	1	1	1
Spring cup	536801	1	1	1
GROUP - HAND BRAKE LEVER SECTOR				
Brake lever sector				
Sector	579383	1	1	1
Bolt	913829	1	1	1
Nut	124925	1	1	1
Locknut	107823	1	1	1
Screw (to transmission)	122126	2	2	2
Lockwasher	120382	2	2	2
GROUP - HAND BRAKE LEVER ROD				
Brake lever rod				
Assembly	590038	1		
Assembly	579755		1	
Assembly	580043			1
Yoke	580734	1	1	
Yoke	584277			1
Locknut	120370	1	1	
Locknut	124573			1
Pin (rear)	628067	1		
Pin (rear)	556906		1	
Pin (rear)	138084			1
Pin (front)	578648	1	1	1
Cotter	103373	2	2	2

HAND BRAKE (Cont'd)

Part Name	Part No.	Three speed Transmission	Four speed Transmission	Five speed Transmission
GROUP - HAND BRAKE OPERATING LEVER				
Operating lever				
Lever	652862	2		
Cam lever	556908		2	
Cam lever	580045			2
Link (inner)	665464	1		
Link (outer)	665465	1		
Spacer link	566595		1	
Spacer link (right)	580702			1
Spacer link (left)	580047			1
Stud	599292	1		
Stud	566596		1	
Stud	580046			1
Link pin lock	654232	1		
Clevis pin	56788	1		
Cotter	103406	1		
Cam lever pin	657929		1	
Cotter	103396		1	
Cotter (stud)	103373		1	
Cotter (stud)	103385			1
Operating spring	580050		1	1

NOTES:

E N G I N E - (Continued)

REF. NO.	PART NAME
1	Oil pan drain plug
2	Oil pan drain plug gasket
3	Oil strainer assembly
4	Oil pan
5	Oil pan gasket - rear
6	Crankshaft bearing - lower - No.4
7	Crankshaft bearing cap - No.4
8	Crankshaft
9	Crankshaft rear bearing oil seal
10	Camshaft rear bearing plug
11	Crankshaft bearing - upper - No.4
12	Connecting rod and cap
13	Crankcase ventilator screw
14	Crankcase ventilator assembly
15	Camshaft bearing - No.3
16	Valve spring cover
17	Camshaft
18	Valve spring cover screw
19	Exhaust manifold
20	Cylinder block
21	Cylinder head gasket
22	Cylinder head
23	Inlet manifold
24	Tube-c/c ventilator to inlet manifold
25	Manifold heat cont. thermostat shield
26	Valve tappet
27	Valve tappet adjusting screw
28	Valve spring retainer
29	Valve spring
30	Valve spring retainer lock
31	Valve stem guide
32	Exhaust valve seat
33	Exhaust valve
34	Piston pin lock wire
35	Piston
36	Inlet valve
37	Piston pin
38	Conn. rod bushing (Piston pin bushing)
39	Piston ring - upper
40	Cylinder water outlet elbow gasket
41	Thermostat
42	Thermostat gasket
43	Cylinder water outlet elbow
44	Water pump cover plate
45	Water pump by-pass hose
46	Water pump by-pass elbow
47	Fan
48	Water pump by-pass elbow gasket
49	Fan pulley
50	Water pump assembly (body)
51	Piston ring - intermediate
52	Piston rings - lower
53	Water pump to cylinder block gasket
54	Fan pulley hub
55	Water pump cover plate gasket
56	Chain case cover plate
57	Engine front support insulator
58	Connecting rod
59	Engine front support plate
60	Generator pulley
61	Camshaft sprocket
62	Chain case cover
63	Camshaft sprocket hub
64	Fan and generator belt
65	Connecting rod bearing
66	Camshaft sprocket hub thrust plate
67	Fan drive pulley
68	Crankshaft bearing - upper - No.1
69	Chain case cover oil seal gasket
70	Crankshaft sprocket shim
71	Crankshaft starting jaw
*72	Crankshaft impulse neutralizer hub
73	Chain case cover oil seal
74	Crankshaft sprocket
75	Timing chain
*76	Crankshaft impulse neutralizer
77	Chain case cover gasket
78	Chain case cover plate gasket
79	Oil pan front end oil seal plate
80	Oil pan gasket - front

* Not available for Industrial use

NOTE: THIS PAGE SUPERSEDES #38 IN WM 4183

SUPPLEMENT

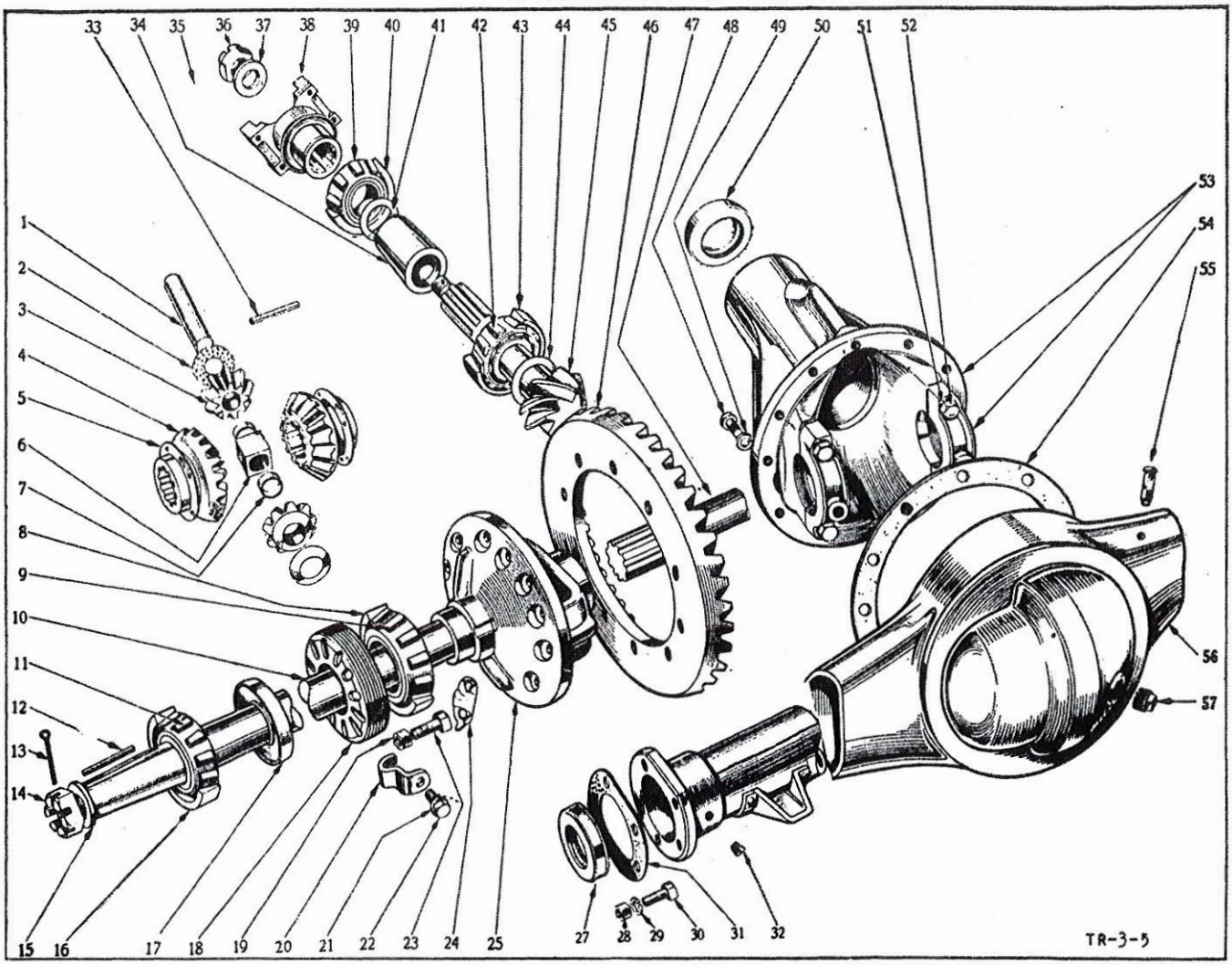
Chrysler Service Parts

for

BOMBARDIER SNOWMOBILE

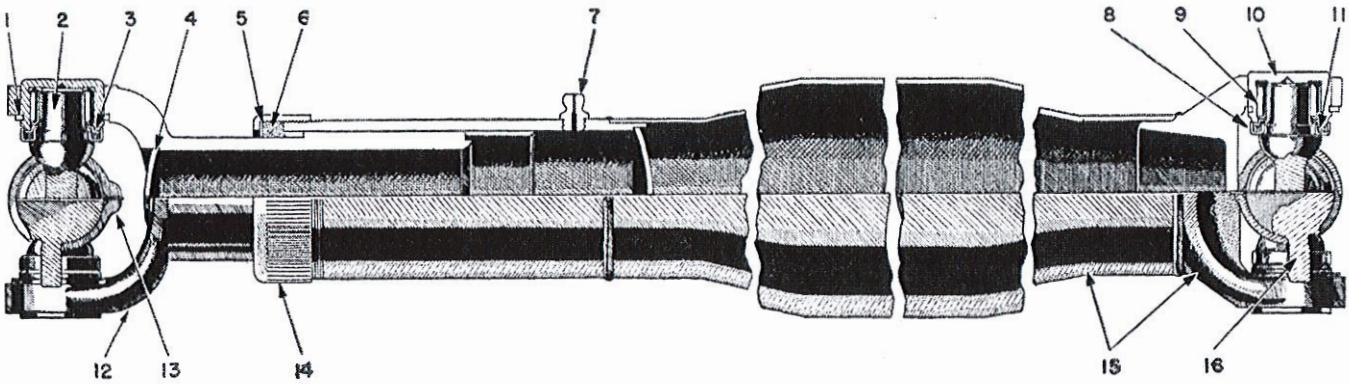
No 1 — A. N. B.

REAR AXLE



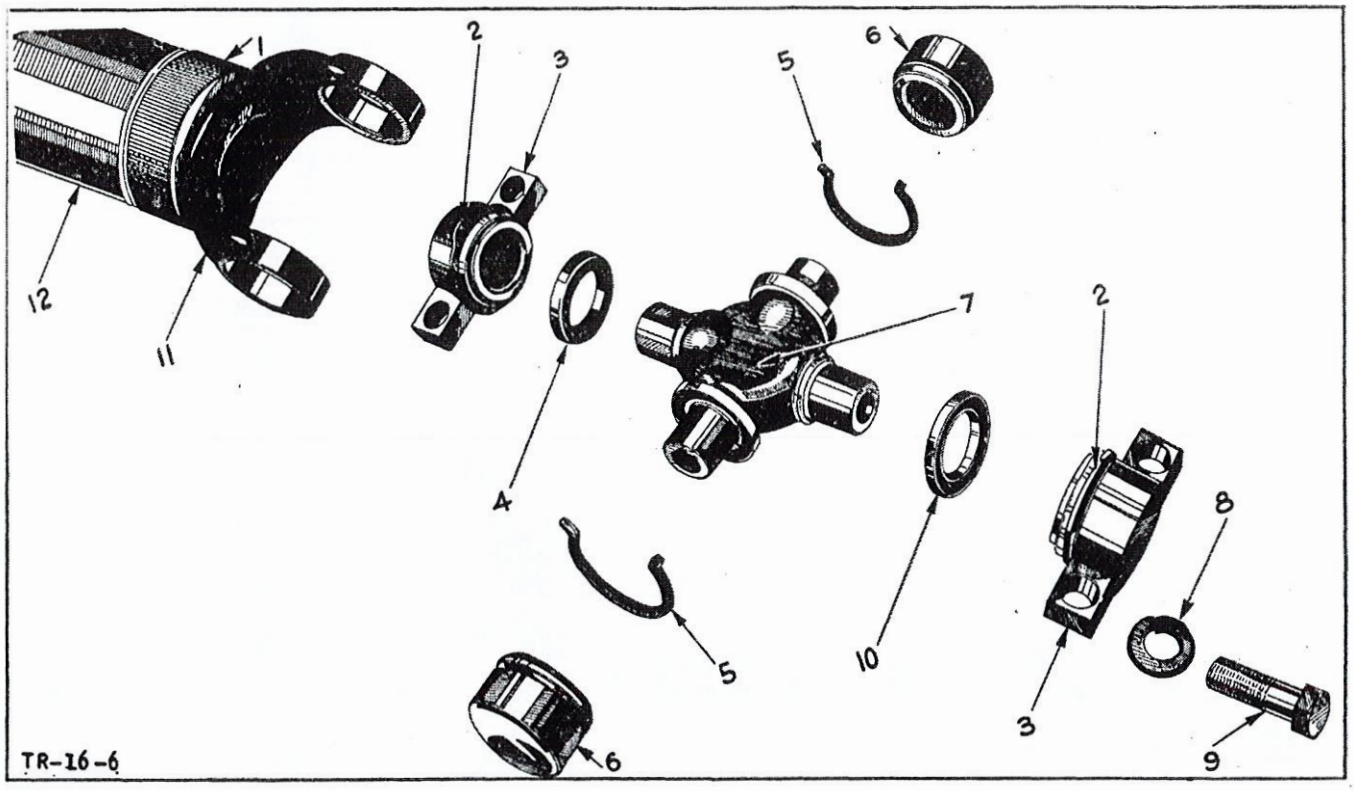
Ref. No.	PART NAME
1	Differential pinion shaft.
2	Differential pinion thrust washer.
3	Differential pinion.
4	Differential side gear.
5	Differential side gear thrust washer.
6	Axle driveshaft thrust block.
7	Axle driveshaft thrust block spacer.
8	Differential bearing cup.
9	Differential bearing cone and rollers.
10	Axle driveshaft.
11	Axle driveshaft bearing cone and rollers.
12	Axle driveshaft key.
13	Axle driveshaft nut cotter pin.
14	Axle driveshaft nut.
15	Axle driveshaft nut washer.
16	Axle driveshaft bearing cup.
17	Axle driveshaft oil seal assembly — inside.
18	Differential bearing adjuster.
19	Axle drive gear bolt nut.
20	Differential bearing adjuster lock.
21	Differential bearing adjuster lock screw lockwasher (serviced in screw assembly).
22	Differential bearing adjuster lockscrew assembly.
23	Axle drive gear bolt.
24	Axle drive gear bolt nut lock.
25	Differential case.
26	Axle driveshaft bearing oil seal (outside).
27	Rear wheel brake support to axle housing bolt nut.
28	Rear wheel brake support to axle housing bolt nut lockwasher.

Ref. No.	PART NAME
29	Rear wheel brake support to axle housing bolt.
30	Axle driveshaft bearing oil seal retainer gasket.
31	Axle driveshaft bearing shim.
32	Axle drive bearing oil hole plug.
33	Differential pinion shaft lock pin or screw.
34	Axle drive pinion bearing spacer.
35	Axle drive pinion flange nut cotter pin.
36	Axle drive pinion flange nut.
37	Axle drive pinion flange nut washer.
38	Axle drive pinion flange.
39	Axle drive pinion front bearing cone and rollers.
40	Axle drive pinion front bearing cup.
41	Axle drive pinion front bearing adjusting shims.
42	Axle drive pinion rear bearing cone and rollers.
43	Axle drive pinion rear bearing cup.
44	Axle drive pinion rear bearing washer or shims.
45	Axle drive pinion.
46	Axle drive gear.
47	Axle driveshaft.
48	Axle drive pinion carrier screw.
49	Axle drive pinion carrier screw lockwasher.
50	Axle drive pinion bearing oil seal.
51	Differential bearing cap screw lockwasher.
52	Differential bearing cap screw.
53	Axle drive pinion carrier and cup assembly.
54	Axle drive pinion carrier gasket.
55	Housing vent nipple.
56	Housing.
57	Housing cover plug.



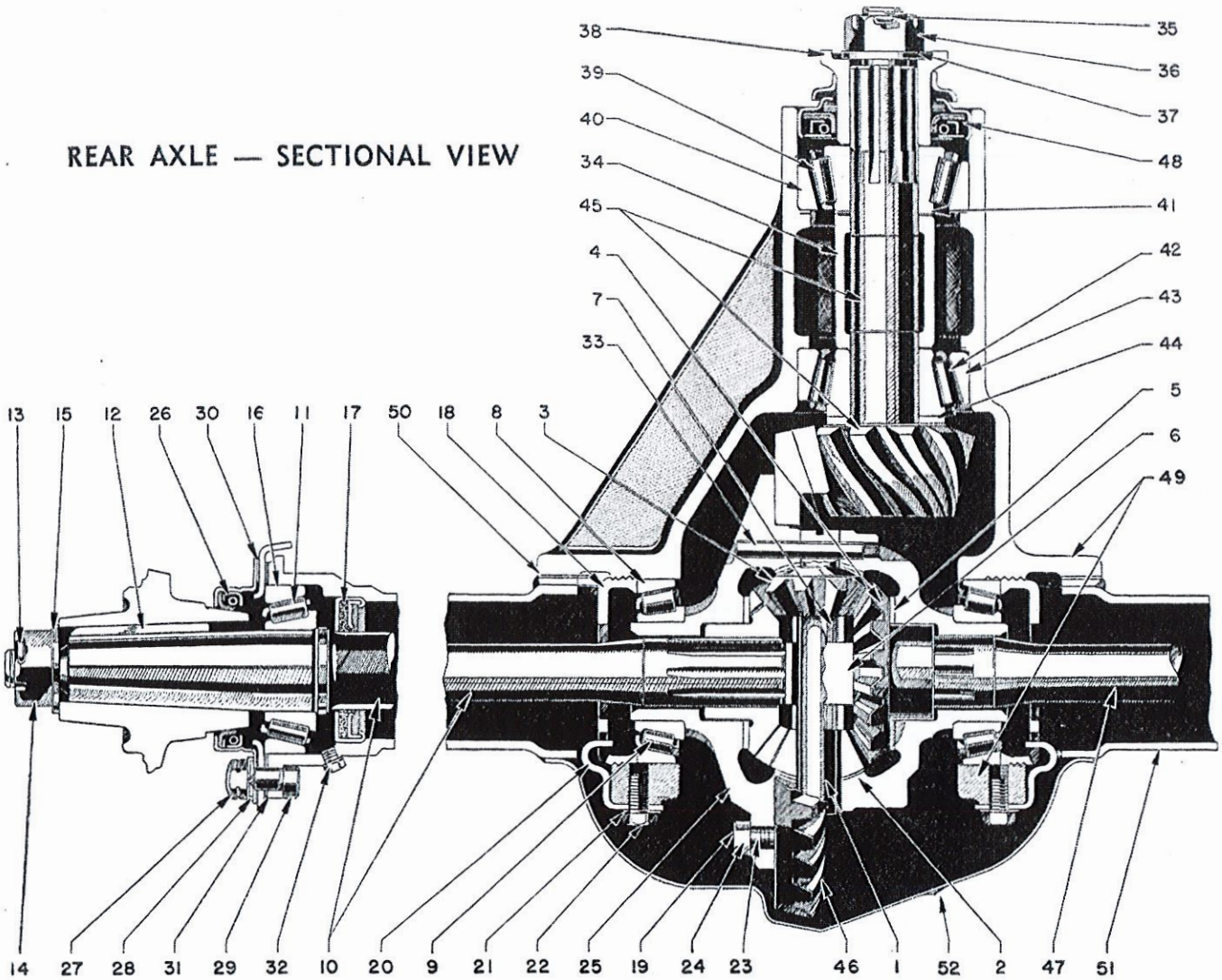
PROPELLER SHAFT AND UNIVERSAL JOINT ASSEMBLY

Ref. No.	PART NAME
1	Universal joint cross roller bushing retainer.
2	Universal joint cross assembly.
3	Universal joint cross roller retainer. (serviced in roller and bushing assembly).
4	Universal joint spine yoke plug (serviced in yoke assembly).
5	Universal joint spline yoke oil seal washer.
6	Universal joint spline yoke oil seal.
7	Universal joint spline yoke lubricant nipple.
8	Universal joint cross roller dust seal retainer.
9	Universal joint cross rollers (serviced in roller and bushing assembly).
10	Universal joint cross roller and bushing assembly..
11	Universal joint cross roller dust seal.
12	Universal joint spline yoke and plug assembly.
13	Universal joint cross roller bearing block retainer.
14	Universal joint spline yoke oil seal cap.
15	Propeller shaft.
16	Universal joint cross roller and bearing block assembly.



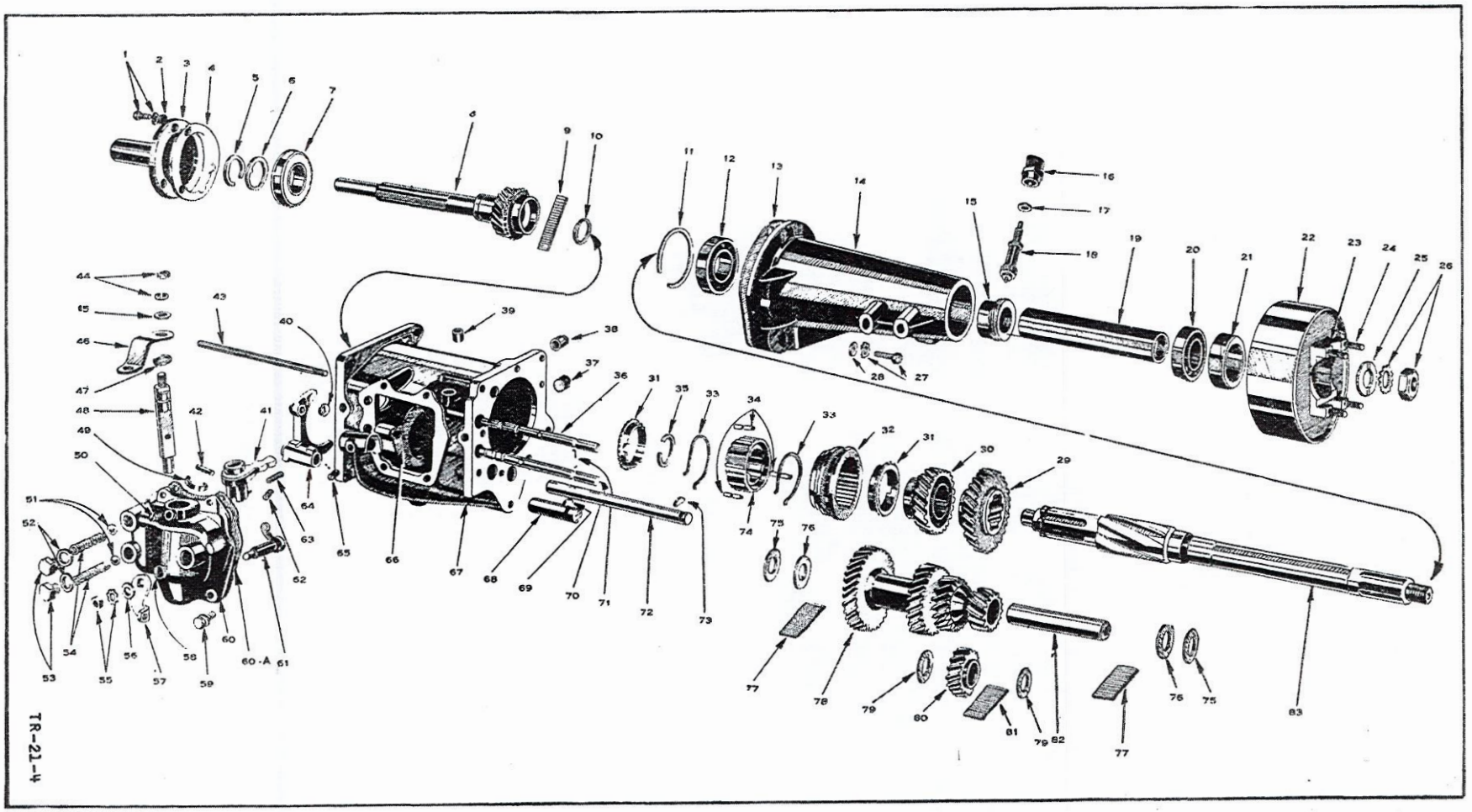
Ref. No.	PART NAME
1	Sliding yoke cap.
2	Roller and bearing block ret.
3	Roller and bearing block.
4	Cross dust seal.
5	Roller and bushing retainer.
6	Roller and bushing.
7	Cross assembly.
8	Flange bolt lockwasher.
9	Flange bolt.
10	Dust seal retainer.
11	Sliding yoke.
12	Propeller shaft.

REAR AXLE — SECTIONAL VIEW



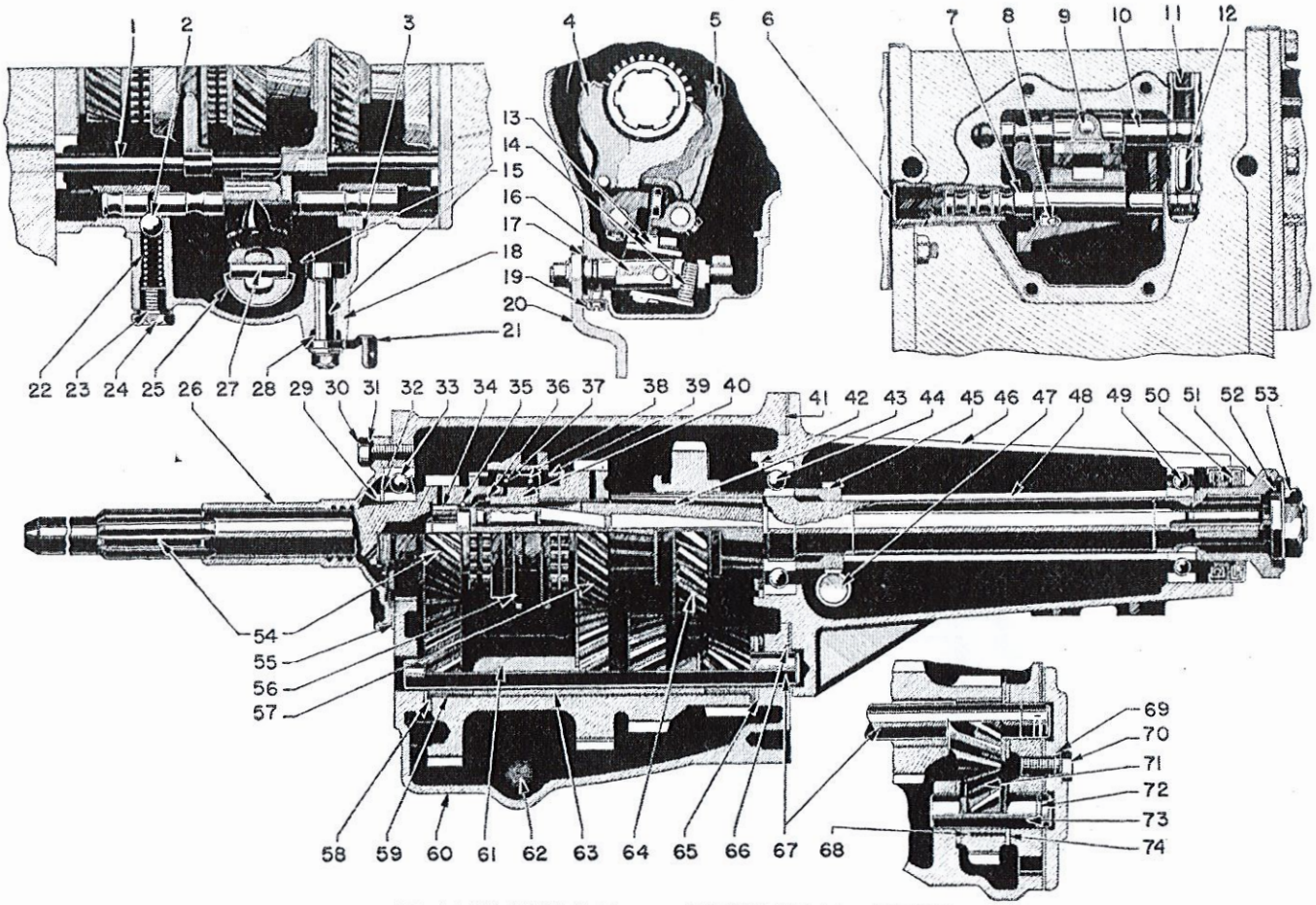
Ref. No.	PART NAME
1	Differential pinion shaft.
2	Differential pinion thrust washer.
3	Differential pinion.
4	Differential side gear.
5	Differential side gear thrust washer.
6	Axle driveshaft thrust block.
7	Axle driveshaft thrust block spacer.
8	Differential bearing cup.
9	Differential bearing cone and rollers.
10	Axle driveshaft.
11	Axle driveshaft bearing cone and rollers.
12	Axle driveshaft key.
13	Axle driveshaft nut cotter pin.
14	Axle driveshaft nut.
15	Axle driveshaft nut washer.
16	Axle driveshaft bearing cup.
17	Axle driveshaft oil seal assembly — inside.
18	Differential bearing adjuster.
19	Axle drive gear bolt nut.
20	Differential bearing adjuster lock.
21	Differential bearing adjuster lockscrew lockwasher.
22	Differential bearing adjuster lockscrew assembly.
23	Axle drive gear bolt.
24	Axle drive gear bolt nut lock.
25	Differential case.
26	Axle driveshaft bearing oil seal — outside.

Ref. No.	PART NAME
27	Rear wheel brake support to axle housing bolt nut.
28	Rear wheel brake support to axle housing bolt nut lockwasher.
29	Rear wheel brake support to axle housing bolt.
30	Axle driveshaft bearing oil seal retainer gasket.
31	Axle driveshaft bearing adjusting shim.
32	Axle drive bearing oil hole plug.
33	Differential pinion shaft lock pin or screw.
34	Axle drive pinion bearing spacer.
35	Axle drive pinion flange nut cotter pin.
36	Axle drive pinion flange nut.
37	Axle drive pinion flange nut washer.
38	Axle drive pinion flange.
39	Axle drive pinion front bearing cone and rollers.
40	Axle drive pinion front bearing cup.
41	Axle drive pinion front bearing adjusting shims.
42	Axle drive pinion rear bearing cone and rollers.
43	Axle drive pinion rear bearing cup.
44	Axle drive pinion rear bearing washer or shims.
45	Axle drive pinion.
46	Axle drive gear.
47	Axle driveshaft.
48	Axle drive pinion bearing oil seal.
49	Axle drive pinion carrier and cup assembly.
50	Axle drive pinion carrier gasket.
51	Housing.
52	Housing cover plug.



STANDARD TRANSMISSION (Continued)

Ref. No.	PART NAME
1	Pinion bearing retainer screw.
2	Retainer screw grommet.
3	Pinion bearing retainer.
4	Retainer gasket.
5	Pinion bearing snap ring.
6	Pinion bearing washer.
7	Drive pinion bearing.
8	Drive pinion.
9	Mainshaft pilot bearing rollers.
10	Mainshaft pilot bearing snap ring.
11	Mainshaft rear bearing snap ring.
12	Mainshaft rear bearing.
13	Case extension gasket.
14	Case extension.
15	Speedometer drive gear.
16	Speedometer pinion sleeve.
17	Speedometer pinion oil seal.
18	Speedometer drive pinion.
19	Mainshaft bearing spacer.
20	Case extension bearing.
21	Case extension oil seal.
22	Hand brake drum.
23	Mainshaft flange.
24	Propeller shaft bolt.
25	Mainshaft flange washer.
26	Mainshaft flange nut and lockwasher.
27	Case extension screw and lockwasher.
28	Case extension screw grommet.
29	Sliding gear — low and reverse.
30	Second speed gear.
31	Synchronizer stop ring.
32	Clutch gear sleeve.
33	Synchronizer spring (in package).
34	Synchronizer shifting plate (in package).
35	Clutch gear snap ring.
36	Gear shift rail — low and reverse.
37	Transmission filler plug.
38	Transmission drain plug.
39	Gearshift rail interlock plug.
40	Gearshift rail plug.
41	Gearshift lever — rail shifter.
42	Gearshift lever pin.
43	Gearshift fork guide rail.
44	Gearshift operating lever nut and lockwasher.
45	Gearshift operating lever nut plainwasher.
46	Gearshift operating lever.
47	Gearshift housing seal — Gearshift lever.
48	Gearshift lever shaft — rail shifter.
49	Gearshift lever pin lock spring.
50	Gearshift shaft lock screw.
51	Gearshift selector ball.
52	Gearshift selector ball spring screw washer.
53	Gearshift selector ball spring screw.
54	Gearshift selector ball spring.
55	Gearshift selector lever nut and lockwasher.
56	Selector lever nut plainwasher.
57	Gearshift selector lever.
58	Selector shaft seal — cam.
59	Gearshift housing stud.
60	Gearshift housing.
60A	Gearshift housing gasket.
61	Selector cam and shaft assembly.
62	Gearshift fork lock screw.
63	Gearshift lever return spring.
64	Gearshift fork — second and direct.
65	Gearshift fork lock screw.
66	Gearshift fork — low and reverse.
67	Transmission case.
68	Reverse idler gear shaft.
69	Idler gear shaft key.
70	Gearshift rail second and direct.
71	Gearshift rail interlock.
72	Countershaft.
73	Countershaft key.
74	Clutch gear — sliding.
75	Countershaft gear thrust washer — ollite.
76	Countershaft gear thrust washer plate — steel.
77	Countershaft bearing roller.
78	Countershaft gear.
79	Reverse idler gear washer.
80	Reverse idler gear.
81	Idler gear bearing roller.
82	Countershaft bearing spacer.
83	Transmission mainshaft.



TRANSMISSION — SECTIONAL VIEW

Ref. No.	PART NAME
1	Gearshift fork guide rail.
2	Gearshift selector ball.
3	Gearshift housing gasket.
4	Gearshift fork — first and reverse.
5	Gearshift fork — second and direct.
6	Gearshift rail plug.
7	Gearshift rail — second and direct.
8	Gearshift fork lock screw.
9	Gearshift fork lock screw.
10	Gearshift rail — first and reverse.
11	Gearshift rail interlock plug.
12	Gearshift rail interlock.
13	Gearshift lever.
14	Gearshift lever return spring.
15	Gearshift selector cam and shaft.
16	Gearshift lever shaft.
17	Gearshift housing seal.
18	Gearshift housing.
19	Gearshift lever shaft screw and lockwasher.
20	Gearshift operating lever.
21	Gearshift selector lever.
22	Gearshift selector ball spring.
23	Gearshift selector ball spring screw washer.
24	Gearshift selector ball spring screw.
25	Gearshift lever pin lock spring.
26	Drive pinion bearing retainer.
27	Gearshift lever pin.
28	Camshaft selector cam shaft seal.
29	Drive pinion bearing snap ring.
30	Drive pinion bearing retainer screw and lockwasher.
31	Drive pinion bearing retainer screw grommet.
32	Drive pinion bearing washer.
33	Drive pinion bearing.
34	Main shaft pilot bearing rollers.
35	Main shaft pilot bearing snap ring.
36	Clutch gear snap ring.
37	Synchronizer spring.

Ref. No.	PART NAME
38	Synchronizer shifting plate.
39	Synchronizer stop ring.
40	Clutch gear.
41	Extension gasket.
42	Main shaft rear bearing snap ring.
43	Main shaft.
44	Main shaft rear bearing.
45	Speedometer drive gear.
46	Extension.
47	Speedometer drive pinion.
48	Main shaft bearing spacer.
49	Extension bearing.
50	Main shaft rear bearing oil seal.
51	Main shaft flange.
52	Main shaft flange washer.
53	Main shaft flange nut and lockwasher.
54	Drive pinion.
55	Drive pinion bearing retainer gasket.
56	Clutch gear sleeve.
57	Second speed gear.
58	Countershaft thrust washer plate.
59	Countershaft bearing rollers.
60	Case.
61	Countershaft gears.
62	Drain plug.
63	Countershaft bearing spacer.
64	Sliding gear — first and reverse.
65	Countershaft thrust washer.
66	Countershaft key.
67	Countershaft.
68	Reverse idler gear bearing rollers.
69	Extension screw grommet.
70	Extension screw and lockwasher.
71	Reverse idler gear.
72	Reverse idler shaft key.
73	Reverse idler shaft.
74	Reverse idler gear washer.

PART NAME	Part No.	Quantity
Rear Axle Housing Assembly	865682	1
Rear Axle Housing Vent nipple Assy.	855394	1
Rear Axle Housing Vent Nipple Lockwasher	133857	1
Rear Axle Housing Cover Plug	666853	1
Differential and Carrier Assy.	663442	1
Rear Axle Drive Pinion Carrier and Cap Ass.	663472	1
Rear Axle Drive Pinion Carrier Gasket	952552	1
Rear Axle Drive Pinion Carrier Screw	50443	7
Rear Axle Drive Pinion Carrier Screw	676290	4
Rear Axle Drive Pinion Carrier Lockwasher	131099	*
Rear Axle Drive Pinion Carrier Screw (bearing cap)	314948	4
Rear Axle Drive Pinion Carrier Lockwasher	118975	4
Differential Case	663476	1
Differential Side Gear	663477	2
Differential Side Gear Thrust Washer	632587	2
Differential Pinion	663478	2
Differential Pinion Thrust Washer	663479	2
Differential Pinion Shaft	663480	1
Differential Pinion Shaft Lock Pin	141210	1
Differential Bearing Cup	698403	2
Differential Bearing Cone	698404	2
Differential Bearing Adjuster	601864	2
Differential Bearing Lock (adjuster)	308247	2
Differential Bearing Screw (lock)	122017	2
Differential Bearing Washer	120214	2
Drive Gear Pinion Matched Set	664392	1
Drive Gear	663445	1
Drive Gear Pinion	663446	1
Drive Gear Pinion Bolt	663481	10
Drive Gear Pinion Nut	120369	10
Drive Gear Pinion Lock	663482	5
Drive Pinion Flange Assy. (includes bearing oil seal guard)	853564	1
Drive Pinion Flange Nut	53553	1
Drive Pinion Flange Washer	308466	1
Drive Pinion Flange Cotter	118209	1
Drive Pinion Bearing Cup	698413	1
Drive Pinion Bearing Cone and Rollers	698414	1
Drive Pinion Bearing Adjusting Shims	688739	*
Drive Pinion Bearing Adjusting Shims	303856	*
Drive Pinion Bearing Adjusting Shims	303857	*
Drive Pinion Bearing Adjusting Shims	688741	*
Drive Pinion Bearing Cup	698413	1
Drive Pinion Bearing Cone and Rollers	698415	1
Drive Pinion Bearing Washer	665237	1
Drive Pinion Bearing Washer	670109	1
Drive Pinion Bearing Washer	670110	1
Drive Pinion Bearing Washer	670111	1
Drive Pinion Bearing Oil Seal Assy.	663602	1
Drive Pinion Bearing Washer	663604	1
Rear Axle Drive Shaft Key	41110	2
Rear Axle Drive Shaft Nut	53553	2
Rear Axle Drive Shaft Washer	50652	2
Rear Axle Drive Shaft Cotter	103399	2
Rear Axle Drive Shaft Bearing Cup	698399	2
Rear Axle Drive Shaft Bearing Cone & Roller	698400	2
Rear Axle Drive Shaft Oil Hole Plug	697323	2
Rear Axle Drive Shaft Adjusting Shims	681319	2
Rear Axle Drive Shaft Adjusting Shims	681320	2
Rear Axle Drive Shaft Adjusting Shims	681321	2
Rear Axle Drive Shaft Adjusting Shims	681322	2
Rear Axle Drive Shaft Oil Seal Assy.	651678	2
Rear Axle Drive Shaft Oil Seal Assy. Package (outside)	891437	2
Rear Axle Drive Shaft Gasket	952557	2
Rear Axle Drive Shaft Thrust Block	651402	1
Rear Axle Drive Shaft Spacer	663607	2
Hand Brake Drum (less flange)	853462	1

PART NAME	Part No.	Quantity
Clutch Housing	870131	1
Clutch Housing Screw	122138	2
Clutch Housing Screw	122273	2
Clutch Housing Screw	122145	2
Clutch Housing Lockwasher (Small)	131099	4
Clutch Housing Lockwasher (large)	120383	2
Clutch Housing Brackets — left	859763	1
Clutch Housing Brackets — right	859764	1
Clutch Housing Brackets Reinforcement Ltd.	859765	2
Clutch Housing Brackets Screw (to Clutch HSg)	122017	3
Clutch Housing Brackets Lockwasher	120214	3
Clutch Housing Brackets Screw (to Cyl. Blk)	122126	4
Clutch Housing Brackets Lockwasher	120382	4
Clutch Housing Ventilator and Hole Screen Assy.	864217	1
Clutch Housing Ventilator Hole Screen	695445	4
Clutch Housing Ventilator and Hole Screen Screw	120228	1
Clutch Housing Ventilator and Hole Screen Plainwasher	120393	1
Clutch Housing Ventilator and Hole Screen Lockwasher	120214	1
Clutch Housing Pan Assembly	859768	1
Clutch Housing Pan Screw	120228	6
Clutch Housing Pan Lockwasher	120638	*
Clutch Disc Assembly (Std.)	917166	1
Clutch Cover and Pressure Plate Assy.	857766	1
Clutch Pressure Plate Cover	855518	1
Clutch Pressure Plate Cover Screw	314926	6
Clutch Pressure Plate Cover Screw L/W	120382	6
Clutch Cover Pressure Plate	855519	1
Baffle	863888	1
Spring	855521	9
Driving Lug Grease Pad	864851	3
Clutch Release Lever	684387	3
Pin (std. and 10" Clutch)	619453	3
Spring (std. and 10" Clutch)	622915	3
Strut (std. and 10" Clutch)	619466	3
Eye Bolt and Nut Assembly (10" Clutch)	620894	3
Nut (10" Clutch)	314293	3
Clutch Release Bearing Assembly (bearing & Sleeve)	862859	1
Assembly (bearing)	658998	1
Pull back Spring	671915	2
Clutch Release Fork Assembly	863916	1
Pivot	633238	1
Screw	178823	1
Lockwasher	138617	1
Horn Control Assembly (P14S)	955148	1
Spring and base assembly	681402	1
Retainer	862975	1
Screw	132133	3
Lockwasher	121801	3
Contact Cup	854918	1
Horn Cable Contact (with button)	611897	1
Engine Rear Support Insulator Assy. (includes bolts) Upper	694164	2
Bolt	125683	2
Nut	120370	2
Washer	120383	2
Spacer Assy.	685540	2
Throttle Cont. B/C Lever Stud	602071	1
P/W	120387	1
L/W	103320	1
Spg. Washer	391888	1
Bell Crank	640407	1
B/C Rod	919981	1
Bracket Assy.	866720	1

* — Indicates amount used as required.

PART NAME	Part No.	Quantity
Propeller Shaft	864155	1
Nut	53563	1
Washer	308466	1
Cotter	108641	1
U. J. Cross Assembly (includes dust seal and Retainer	857997	2
Dust Seal ((Cross Roller)	857999	8
Retainer (Dust Seal)	858000	8
U. J .Bearing Block Assembly (includes brg. block retainer, rollers & Roller Retainer	858002	4
Retainer (bearing block)	858007	4
U. J. Roller & Bushing Assy. (incl. rollers and bushing)	858001	4
Retainer (roller bushing)	858006	4
U. J. Spline Yoke Assy. (incl. Plug)	857994	1
Oil Seal (Spline)	858010	1
Washer (oil seal)	858011	1
Cap (oil seal)	858012	1
Relief Valve (for cross & roller type)	106671	1
U. J. Repair Package (cross and roller type)	947550	1
Propeller Shaft Attaching Bolts	859821	4
Nut	143416	4
Lockwasher	120638	4
Bolt	853156	4
Nut	143416	4
Lockwasher	120638	4
Steering Wheel	871161	1
Transmission Assembly — partial (less hand brake, flange, oil seal & gearshift housing (or cover)	953408	1
Transmission Case Assembly	853853	1
Screw (to Clutch Housing	122267	4
Lockwasher	136857	4
Gasket (to Clutch Housing)	697824	1
Oil Trough	853852	1
Drain Plug	103867	1
Filler Plug	103868	1
Transmission Case Extension	853880	1
Gasket	853895	1
Screw	122126	5
Lockwasher	138489	5
Grommet	686626	2
Bearing	694770	1
Transmission Gears Matched Set	865173	1
Consists of: Drive pinion	853864	1
Second Speed Gear	852456	1
Countershaft Gear (Cluster)	697823	1
Sliding Gear — low and reverse	853886	1
Reverse Idler Gear	853887	1
Clutch Gear and Sleeve Assy.	856467	1
Synchronizer Stop Ring	853867	2
Transmission Sliding Gears — Low and Reverse	853886	1
Transmission Second Speed Gear	852456	1
Transmission Clutch Gear Assy.	856467	1
Gear (only)	853863	1
Sleeve (only)	856464	1
Synchronizer Spreader Spring	856471	2
Synchronizer Shifting Plate	856470	3
Snap Ring — thin	631823	*
Snap Ring — medium	631824	*
Snap Ring — thick	631825	*
Snap Ring — extra thick	640332	*
Transmission Synchronizer Stop Ring	853867	2
Transmission Countershaft Gears (Cluster)	697823	1
Thrust Washer — thin	608804	*
Thrust Washer — medium	601127	*
Thrust Washer — thick	601128	*
Plate	601129	2

PART NAME	Part No.	Quantity
Transmission Reverse Idler Gear	853887	1
Bearing Rollers	666927	22
Washer	666924	2
Pinion and bearing transmission main drive pinion	853864	1
Bearing	619167	1
Bearing (heavy duty)	856455	1
Retainer	670945	1
Screw Assembly	869018	3
Grommet	670946	3
Washer	631877	1
Pilot bushing (in end of Crankshaft)	53298	1
Transmission Main Drive Pinion Bearing Retainer Gasket (.010")	601130	*
Gasket (.015")	601131	*
Gasket (.020")	605809	*
Transmission Main Drive Pinion Snap Ring Snap Ring .086"	631823	*
Snap Ring .089"	631824	*
Snap Ring .092"	631825	*
Snap Ring .095"	640332	*
Transmission Mainshaft	853488	1
Bearing (roller) (Front)	602007	14
Snap Ring	601108	1
Bearing Assembly (rear)	619166	1
Mainshaft Rear Bearing Snap Ring — thin	640280	*
Snap Ring — medium	631809	*
Snap Ring — thick	631810	*
Snap Ring — extra thick	640331	*
Oil Seal Assy.	670752	1
Flange	853459	1
Nut	684749	1
Washer (or lock plate)	684748	1
Lockwasher	138506	1
Transmission Countershaft	852473	1
Bearing Roller	666927	44
Spacer	697812	1
Key	103905	1
Transmission Reverse Idler Gear Shaft	631869	1
Key	103905	1
Transmission Remote Control Type Gearshift Housing	853855	1
Gasket	854801	1
Seal	853872	1
Screw Assembly	869018	2
Screw — lower	853780	2
Lockwasher (lower)	138485	2
Lever Shaft	863393	1
Lever (rail shifter)	863387	1
Set Screw	853877	1
Lockwasher	121753	1
Pin	865905	1
Lock Spring	863390	1
Return Spring	863413	1
Operating Lever	860429	1
Operating Lever (with power gearshift)	953790	1
Nut	120369	1
Lockwasher	120381	1
Plainwasher	120394	1
Selector Cam and Shaft Assy. (operates rail shifter lever)	863389	1
Seal (cam)	852422	1
Ball (selector)	104921	2
Spring	852633	2
Screw	856468	2
Gasket or washer	627261	2
Lever (on end of shaft)	952273	1
Nut	120368	1

* — Indicates amount used as required.

PART NAME	Part No.	Quantity
Washer	120393	1
Lockwasher	138485	1
Rail and Forks		
Rail — low and reverse	853857	1
Rail — second and direct	852428	1
Plug	103892	1
Interlock (rail)	852431	1
Plug	865892	1
Fork — low and reverse	863388	1
Fork — second and direct	863392	1
Guide Rail	853858	1
Lockscrew	862392	2
Wheel Hub (only) (includes inner and outer bearing cups)		
Rear (Rt.)	688700	2
Bolt (wheel to hub) (right)	393984	10