



SNOWMOBILE

OPERATORS MANUAL AND SPARE PARTS LIST



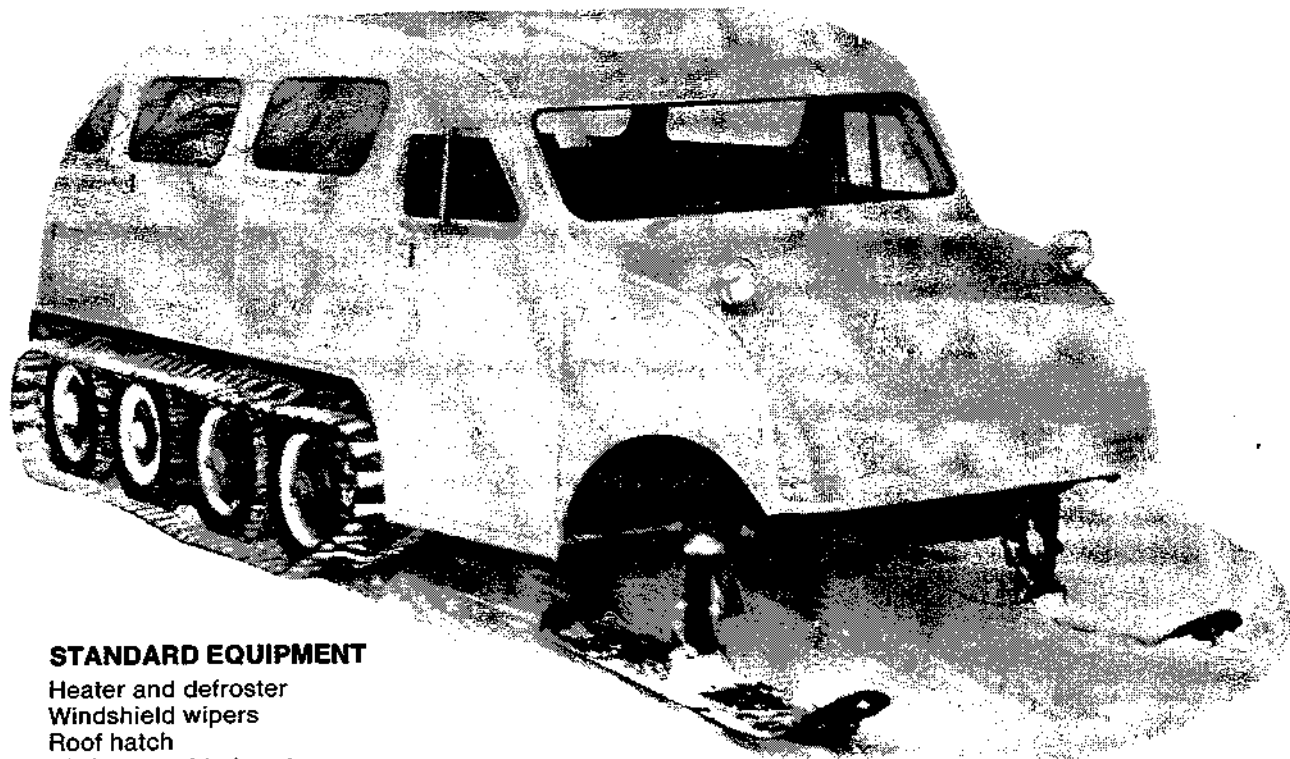
MANUEL DE L'OPÉRATEUR ET LISTE DE PIÈCES DE RECHANGE

BOMBARDIER LTD/LTEE
VALCOURT, QUEBEC, CANADA



BOMBARDIER

SNOWMOBILE



STANDARD EQUIPMENT

Heater and defroster
Windshield wipers
Roof hatch
Air foam padded seats
Insulated Cab
Ski and wheel kits
Horn, head-lights, tail-lights,
door-locks

SPECIAL FEATURES

Large window area for driver and
passenger visibility.
Comfortable bucket seats for driver
and front passenger plus 14½ feet
continuous bench seating.
Heated to provide passenger comfort.
Excellent cruising speed with a top
speed of 50 m.p.h.

OPERATOR'S MANUAL AND SPARE PARTS LIST

VALCOURT QUEBEC CANADA

INTRODUCTION

A man with a vision, and the help of determination and boundless energy, is the father of snow vehicles as we know them today. The late J. Armand Bombardier, founder, president and general manager of the company that carries his name, was the man who put the first Bombardier snowmobile together. With a few modifications the basic vehicle still exists, and ranks high in the estimation of the people of the world who have used, and find a need for just such a vehicle.

The importance of maintaining this or any vehicle cannot be overemphasized. A regular preventive maintenance program should be a "must", especially in isolated areas.

In the majority of cases, the basic maintenance procedure is turned over to a hired hand or itinerant worker who has no sense of responsibility, in addition to a lack of technical background. Here again it must be pointed out that the choice of trained maintenance personnel is of the utmost importance.

NOTE: *This manual covers all parts used on the Bombardier Snowmobile starting at and after serial number A-A-7-5915.*

SNOWMOBILE GENERAL SPECIFICATIONS

DIMENSIONS:

Overall length	212"
Overall width	74"
Overall height	79"
Frame height	47"
Loading area	(155 sq.ft.) 11 passengers or
Ground clearance	13" 2,500 lbs.
Width center to center - between tracks	58"
Continuous bench seating	14½'

WEIGHT:

Dry weight	4,780 lbs.
Load capacity	2,500 lbs.
Gross vehicle weight	7,280 lbs.

PERFORMANCE:

Top speed	50 m.p.h.
Cruising speed	25-30 m.p.h.
Ground pressure at 0 penetration	1½ p.s.i.

BRAKES:

Type	Band type - retainer supported
Location	Transmission flange
Diameter & width	7" x 2"
Operation	Operating lever left

BODY:

All steel, 2 front doors, 1 rear door on right hand side and 1 escape hatch in roof, fiberglass insulation under roof upholstery inside, vinyl upholstery on benches.

FRAME:

Toboggan type entirely enclosed.

SUSPENSION:

Front: Coil springs and shock absorbers, adaptable for skis or wheels.

Rear: 8 independent wheels mounted on spring loaded trailing arms.

Tires: 4.50 x 16 - 4 ply or 4.50 x 16 - 6 ply (optional)

Type of Belt: Endless, 5½" wide rubber and fabric reinforced with steel cable.

Track: 17½" wide

Ski dimensions: 60" x 12" with metal rudder rod.

Drive train: 2 rubber sprockets reinforced with fabric

STEERING:

Wheel with steering column mounted.

ENGINE:

Make	Chrysler
Model	318 LA-1
Type	V-8 OHV
Bore	3.910 in.
Stroke	3.310 in.
Displacement	318 cu. in.
Compression ratio	8.25 to 1
Number of cylinders	8
Horse power	180 H.P. @ 4,000 r.p.m.
Weight	582 lbs.
Block heaters	2

COOLING SYSTEM:

Capacity	4 Imp. Gals.
Coolant	Anti-freeze
Thermostat (temp.)	165° F.
Radiator pressure cap	7 p.s.i.

INTERIOR HEATER AND DEFROSTER

FUEL SYSTEM:

Tank capacity	14½ gal. (2 nd tank optional)
Fuel grade	Regular
Fuel pump pressure	5-7 lbs.
Choke type	Automatic
Governor	None
Air cleaner type	Paper element

TRANSMISSION:

Model	New Process 745
Gearing	Helical synchromesh in 2 nd & 3 rd
Nominal torque rating	275 ft. lbs.
Weight (trans. only)	70 lbs.
Oil capacity	6 U.S. pints
Speeds	3 forward, 1 reverse
Gear ratio	
1st	3.02
2nd	1.76
3rd	1.00
Rev.	3.95

DIFFERENTIALS:

Type	Truck type (heavy duty)
Ratio	Hypoid ratio 4.1 to 1

CLUTCH:

Type	Single disc - dry
Disc Diameter	11"

ELECTRICAL SYSTEM:

Energizer (Battery)	
Voltage	12 volts - 70 amp.
Ground Terminal	Negative

DISTRIBUTOR:

	Vacuum Advance Distributor
Firing order	1-8-4-3-6-5-7-2
Breaker point gap	.014" to .019"
Dwell angle	28° to 33°
Breaker arm spring tension	17 to 21.5 oz.
Ignition timing	12.5° B.T.D.C.
Condenser capacity	.25 to .285 M.F.D
Rotation	Clockwise

SPARK PLUGS:

Type	Champion* N-11-Y or Standard F 10 Champion*
Size	14 mm.
Gap	.035"

ALTERNATOR:

Model	GR-16-201
Output	12 V - 35 Amp.

STARTING MOTOR:

Model	GR-18-91V Chrysler Built, Solenoid Shift 12" Pitch
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FAN:

Type (# of blades)	6
Diameter	19"
Belts	2

OIL FILTER:

Type	Replaceable cartridge Full flow
Make	Chrysler
Oil pressure	70 p.s.i. max.

FUEL PUMP:

Type	Diaphragm
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RADIATOR:

Rear mounted

GENERAL INFORMATION

DATA PLATE:

The "Data Plate" of the vehicle is located in the rear motor chamber, on the fire-wall just above the battery. It may sometimes become necessary to avail yourself of these numbers on the "Data Plate" for warranty purposes.

Identified are the "model", chasis (body) and motor serial numbers.

NOTE: *It is imperative that these numbers be specified when ordering parts, and for all correspondance concerning the vehicle.*

PRE-DELIVERY SERVICE:

Before delivery, your new Snowmobile was subjected to a series of checks and tests as prescribed by the manufacturers. These checks are added to a rigorous inspection which the vehicle went through before leaving the factory. You therefore have the assurance that the vehicle you took possession of at your local authorized dealer is in good working order.

OWNER RESPONSIBILITY:

Normal maintenance services and replacement of service items are the responsibility of the owner and as such are not considered defects in material and workmanship under provisions of the warranty.

Weather and atmospheric conditions, individual driving habits, and vehicle usage greatly contribute to the need for maintenance services such as: lubrication, engine tune-up, electrical checks, belt adjustments, and replacement items such as brake linings, spark plugs and ignition points, filters, etc...

SAFETY TIPS:

- 1- Drive at a speed slow enough to insure safety and complete control, especially over rough terrain.
- 2- Keep a fire extinguisher and first aid kit handy at all times.
- 3- Never operate the vehicle in a closed garage or shed.
- 4- Machinery should only be operated by those who are responsible and delegated to do so.
- 5- Do not attempt to oil, grease or adjust the vehicle while it is in motion.
- 6- Never attempt to fill fuel tanks;
 - a- When engine is running
 - b- While using a lantern
 - c- When smoking
- 7- Before moving in reverse, be certain that all is clear in the rear.
- 8- Keep the windshield clean and clear of ice and snow.
- 9- Slow down when turning.
- 10- Reduce speed at night.

FUEL STORAGE (SUPPLY)

The manner with which fuel is stored can be of major importance to the performance of the engine. Storage tanks, drums or portable service tanks must be free from rust, scale, sediment or any foreign matter which will contaminate the fuel. Contaminated fuel will clog the fuel filters, resulting in unnecessary problems.

Fuel should be stored away from buildings and in the shade, if possible.

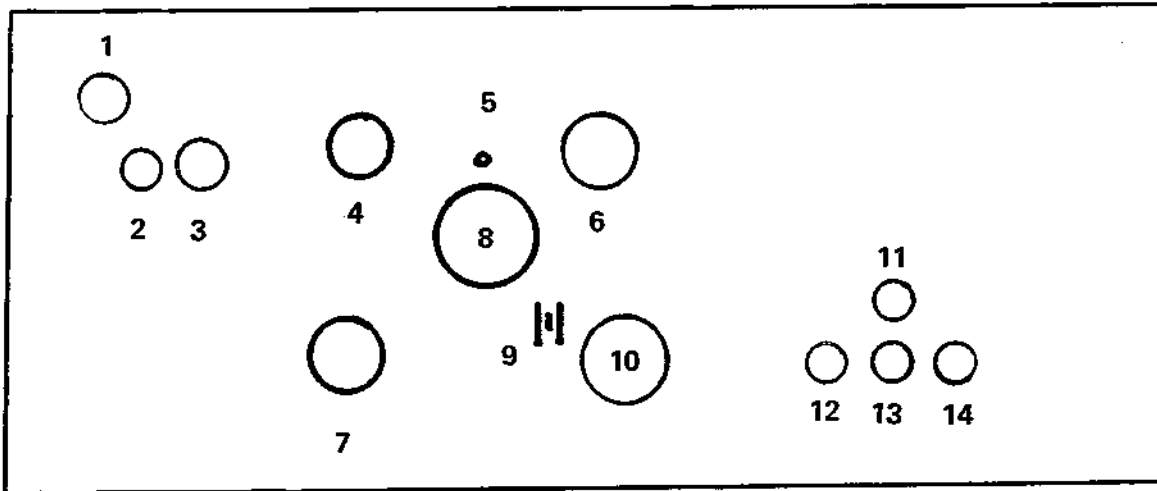
The fuel storage tank should be installed so that one end of the tank is slightly lower, and equipped with a drain valve at the lower end for draining off the sediment and water.

The tank should be provided with a hose, equipped with a self closing nozzle to prevent the entrance of dirt.

Whenever drums are used for fuel storage, they should be covered or placed under shelter so that the fuel will not become contaminated by water, which will enter through the filler plugs when it rains, even though the plugs are tight.

TECHNICAL VEHICLE INFORMATION

INSTRUMENT PANEL



- 1- Headlamp switch
- 2- Ignition switch
- 3- Starter button
- 4- Ammeter
- 5- Pilot light
- 6- Oil pressure gauge
- 7- Temperature gauge
- 8- Speedometer
- 9- L and R switch for fuel gauge
(optional for extra gas tank)
- 10- Fuel gauge
- 11- Domelight switch
- 12- L. H. wiper switch
- 13- Fan switch (heater)
- 14- R. H. wiper switch

CONTROLS:

HEADLAMP SWITCH: is located on the upper left hand side of the instrument panel. Pull the button to open the lights, and push the button to close the lights. All lights will open; instrument panel light, front lights, and rear lights.

IGNITION SWITCH: The ignition switch is a key-operated "OFF" and "ON" switch. The "ON" position closes the electrical circuit and lets the current flow through the ignition system.

STARTER: The starter button is located next to the ignition switch. Push the button to engage the starter mechanism.

CAUTION: release the button as soon as the engine has started.

AMMETER: Contrary to popular belief, the ammeter does not register alternator output. It simply registers flow into the battery or out of the battery.

PILOT LIGHT: When on upper beam, a small red light above the speedometer glows to warn that your headlamps may bother on-coming drivers. The dimmer switch on the floor directly below the clutch pedal makes the changes.

OIL PRESSURE GAUGE: This gauge indicates the oil pressure (not the oil level) in the engine.

CAUTION: If the oil pressure is low at operating speed, the machine should not be operated until the cause of the low pressure has been determined.

TEMPERATURE GAUGE: Normally the gauge pointer will move gradually from the extreme left to a center position. If the indicator reaches "H" or 220^o F. or if the coolant boils, indicated by a buzzing sound from the radiator cap, stop the engine immediately and correct the cause of overheating.

SPEEDOMETER: Indicates your speed in miles per hour (M.P.H.)

FUEL GAUGE SWITCH: This optional switch is designed to verify the level in the left or right rear gasoline reservoir. By switching to the left, a reading for the left reservoir is given and by switching to the right, the level of the right reservoir is indicated.

FUEL GAUGE: The fuel gauge registers only when the ignition key is turned to the right. The pointer indicates the amount of fuel remaining in the tank.

DOMELIGHT SWITCH: This switch is located on the right of the panel above the 3 button cluster. Pull, to switch on the lights, and push to close the lights.

WIPER SWITCH: The wiper switch left and the wiper switch right are the two outside buttons of the row of three. Pull to operate the wiper and push to stop it.

FAN OR HEATER: This is the center button in the row of three. It has two positions. Fully extended gives the low blower speed of the "Fan"; and half-way out is the high blower speed.

OPERATING LEVERS:

POSITION AND FUNCTION

STEERING: The steering mechanism of the Snowmobile, located directly in front of the operators seat, functions in a manner similar to that of an automobile. Rotation of this wheel will determine your direction.

CLUTCH: The clutch is located on the floor, extreme left, of the three pedals. It is provided for engaging or disengaging the power of the engine from the transmission, and is used when shifting gears.

BRAKE: The (foot operated) brake is located to the right of the clutch. Press on the brake pedal to tighten the brake linings on the transmission brake assembly and slow down the machine. It is possible to control the stopping action with more or less foot pressure on the pedal.

ACCELERATOR: The throttle is at the extreme right of the floor panel, next to the brake pedal. It is used to increase the speed (R.P.M.) of the engine, by controlling the foot pressure action on the pedal.

GEARSHIFT LEVER: This lever is located directly under the steering wheel, and attached to the steering column. It is used to shift the transmission to the selected gears.

MANUALLY ADJUSTED SEAT: The front seat can be moved forward or rearward by moving the control lever on the drivers side of the seat forward and exerting slight body pressure in the direction desired. The seat is automatically locked in position when the lever is released. There is also a choice of three positions on the base of the front legs of the drivers seat.

SLIDING WINDOWS: May be opened by squeezing the handle and pulling back.

NOTE: *When closing the door from the inside, use the handle provided, not the rubber lock strap.*

ELECTRICAL SYSTEM

ENERGIZER (BATTERY): The heart of any motor vehicle; whose care, though very simple, is extremely important. The Bombardier Snowmobile uses a 12V - 70 Amp. rating energizer. The level of the fluid should be checked often, and add odorless, colorless drinking water as required to bring the level of water over the separators. Flush the container occasionally with clean water and a solution of baking soda solution to keep the energizer clean. Apply petroleum jelly to the terminals.

CAUTION: Do not allow any solution to enter the cells.

Should the performance of your energizer become questionable, your Bombardier dealer will be at your service to test it. Loose hold-downs, will allow the battery to bounce around, and may crack or wear the container badly, causing the sealing compound to open and leak acid. Hold-downs, if too tight, can distort or crack the container allowing loss of acid from the cells. A good common sense approach, and judgement will have to be exercised. Keep energizer at 3/4 charge or more, to avoid damage from freezing.

ALTERNATOR: The alternator replaces the generator in the electrical charging system and requires no lubrication. The alternator and regulator are designed for use on only one polarity system. The alternating current flowing through the starter windings of an alternator is changed to direct current by the process of electrical rectification. The external

charging circuit is through the ammeter to the positive battery terminal. Both the ignition switch and the other switches are located on the alternator side of the ammeter. This means that the entire electrical load is ahead of the ammeter in the charging circuit.

When the alternator output is exactly equal to the total load, the alternator will supply the demand and the ammeter will register "0" or "no charge". The ammeter will register "charge" only when the alternator output exceeds the total load and the current flows through the ammeter and into the battery.

The ammeter will register "discharge" when the alternator output is less than the demand because part of the load demand will be supplied by the battery. The ammeter will register only the "discharge" current supplied by the battery.

In other words, the ammeter does not register alternator output. It simply registers flow into the battery or out of the battery.

SPARK PLUGS: The spark plugs should be removed every 150 hrs. or 4,500 miles of operation, cleaned, filed and the points regapped. If spark plug gap is set too wide, it will induce the engine to miss under load. If set too close, the engine will not idle properly. Adjust the point gap by bending the outside electrode. Never bend the center electrode. Set spark plug gap at .035".

Spark plugs should be replaced approximately every 300 hrs. or 9,000 miles for best performance and economy. Always use the spark plug specified by the manufacturer for your particular machine. N 11 Y Champion* is used on this snowmobile.

CAUTION: Failure to service spark plugs as recommended causes increased fuel consumption and lack of power. Always use a spark plug wrench when removing plugs to prevent cracking the insulator.

When replacing plugs, make certain gaskets are in good condition and the plugs are tightened to 25 ft. lbs. Incorrect tightening will cause rapid gap erosion.

FUEL SYSTEM: The type of fuel best suited for the Snowmobile should be a good grade of regular gasoline. The continued use of a mediocre gasoline could provoke over-heating and knocking.

If persistent knocking is encountered, it may be necessary to change to a higher grade of gasoline, and if knocking continues, consult your engine manufacturer's representative. Continuous or excessive knocking may result in engine damage and constitutes misuse of the engine.

CAUTION: Gasoline is flammable and explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.

FUEL FILTER: The sediment bowl should be inspected daily for traces of condensed water. Every 200 hrs. or 6,000 miles, clean the filter. To do so, remove the glass bowl and clean with clean fuel. To clean the brass screen, carefully remove the cork gasket and extract the screen from the filter body. If the cork gasket becomes damaged or broken, use a new gasket to prevent leakage of fuel.

AIR FILTER: In addition to its function of filtering air drawn into the engine through the carburetor, the air cleaner also acts as a flame arrestor in the event the engine backfires. Because backfiring may cause fire in the engine compartment, the air cleaner should be installed at all times unless temporary removal is necessary during repair or maintenance of the vehicle.

PAPER ELEMENT type, air cleaners as used in the snowmobile, should be cleaned every 50 hrs. or 1,500 miles, or every month in normal use. In areas of extreme dust or dirt, cleaning

should be performed more frequently, as often as once a day if necessary.

To clean the paper element, the following procedure should be used. Remove cleaner assembly, remove paper element, blow out dirt gently with an air hose. Direct air from inside out, and keep nozzle two (2) inches away from element to avoid damaging. Do not tap or immerse element in liquid. Wash the cleaner cover and body with cleaning solvent, such as kerosene, and wipe dry. Replace paper element; center, and secure firmly. Replace cleaner assembly on engine. Replace paper element every 500 hrs. or 15,000 miles.

COOLING SYSTEM

It is the owners responsibility to keep the freeze protection at least commensurate (corresponding) with the temperatures which may occur in the area in which the vehicle will be operated.

Regardless of whether freezing temperatures are or are not expected, cooling system protection should be maintained at least 0°F. to provide adequate corrosion protection. When coolant additions are required because of coolant loss or to provide additional protection against freezing at temperatures lower than -32°F., a sufficient amount of an ethylene glycol base coolant should be used.

NOTE: *Alcohol or methanol base coolants or plain water without rust inhibitor are not recommended at any time.*

The basic function of the cooling system is to maintain the operating temperature of various engine parts such as the cylinder walls, pistons, valves, bearings, etc....within safe limits. Since the "Water pump's" capacity to circulate water varies as the engine speed varies, some means must be employed to limit this flow so that constant temperatures will be

maintained in the engine. This is done by means of the "Thermostat caps", which allows only enough water to flow from the water jacket to radiator to maintain proper engine temperature. The thermostat reroutes excess water through the by-pass to recirculate through the water jacket, uncooled.

The cooling system is "Pressurized at 7 p.s.i.". This reduces cooling solution loss by evaporation and raises the boiling point of solution slightly.

If the engine warms up slowly, the thermostat may be stuck in an open position. If the engine overheats, the thermostat may be inoperative.

CAUTION: DO NOT OPERATE WITHOUT A THERMOSTAT

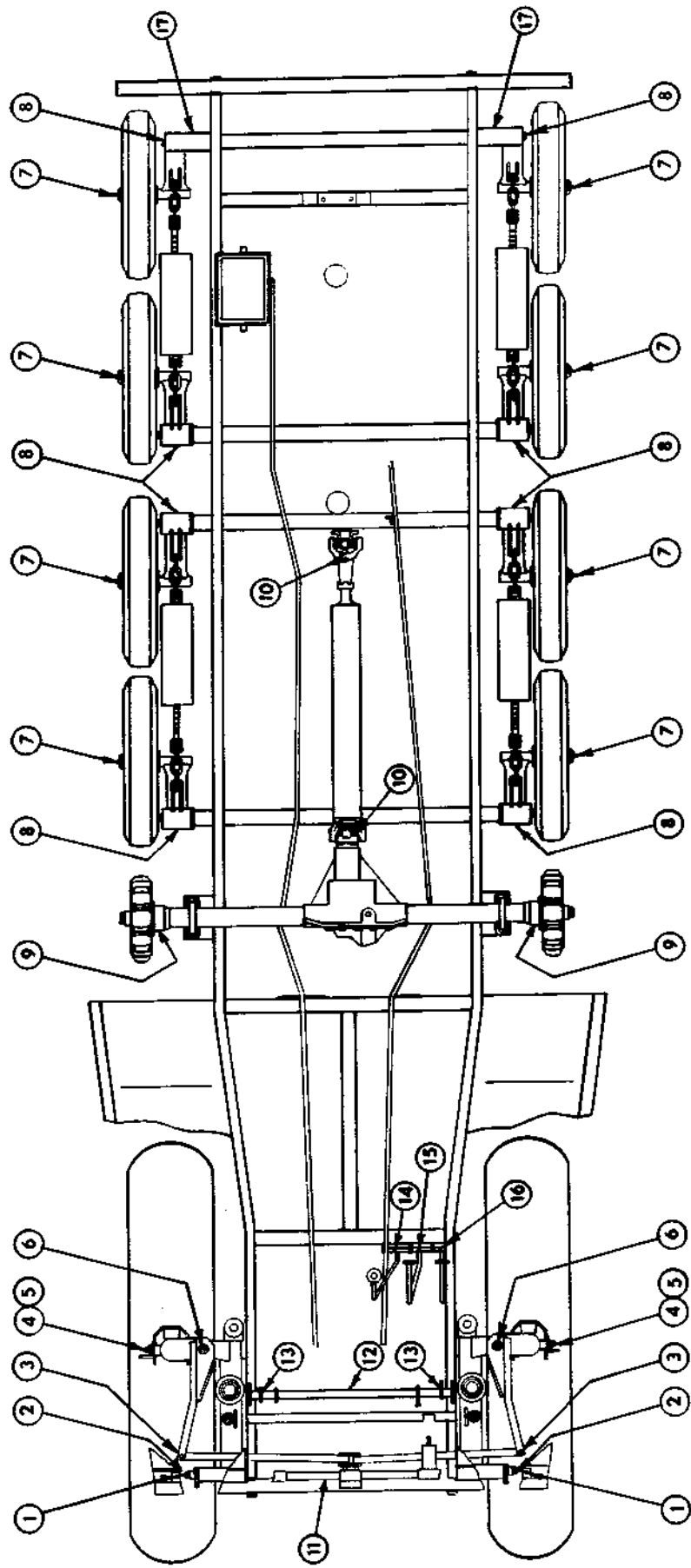
The FAN BELT adjustment must be checked periodically and the proper adjustment maintained at all times. Too loose; it will slip, too tight, and it will reduce the life of the fan bearings and fan belt. Adjust fan belt to give $\frac{1}{4}$ " deflection midway between crankshaft pulleys.

NOTE: *After the engine is warm it should register from 160° to 185° F.*

LUBRICANT CHART

ITEM	QT'Y	RECOMMENDED LUBRICANT	SPECIFICATIONS	
			OPERATING TEMP.	LUBRICANT
CRANKCASE (with filter)	4 qts.	Multi-viscosity motor oil	Above 32°F. 10° to 32°F. -10° to 10°F. Below -10°F.	S.A.E. 20W-40 S.A.E. 10W-30 S.A.E. 10W-20 S.A.E. 5W-20
DIFFERENTIAL TRANSMISSION	4 qts. 3 qts.	E.P. gear oil meeting specification MIL-L-2105-B	Above 40°F. Below 32°F.	S.A.E. 90 weight S.A.E. 80 weight
		MIL-L-2105-B Low temperature	Below -20°F.	S.A.E. 75/80
GREASE FITTINGS		Good quality multi-purpose grease	Above 0°F. Below 0°F.	Water resistant grease Superior sheer stability grease
DISTRIBUTOR ALTERNATOR		Multi-purpose grease E.P.	Summer Winter	Multi-purpose grease E.P. low temp.
ROTOR & WICK UNDER ROTOR		MIL-L-2104-B	Above 80° Above 32° Below 32° Below -20°	S.A.E. 30 S.A.E. 20 S.A.E. 10 S.A.E. 10
SPRING SEATS (oil)		MIL-L-2105-B	Above 50° Above 32° Below 32° Below -20°	S.A.E. 140 S.A.E. 140 S.A.E. 90 S.A.E. 90

LUBRICATION CHART GRAPHIQUE DE LUBRIFICATION



LUBRICATION CHART

REF. NO:

1	Steering rack housing	Note A
2	Knuckle arm axle	Note A
3	Tie rod end	Note A
4	Front wheel	Note A
5	Ski support bracket axle	Note A
6	King pin	Note A
7	Rear wheel	Note A
8	Bogie spindle	Note A
9	Verify seal and bearing	
10	Universal joint	Note B
11	Steering rack	Note D
12	Gearshift cross shaft	Note C
13	Gearshift cross shaft bracket	Note D
14	Accelerator pedal	Note D
15	Brake pedal	Note D
16	Clutch pedal	Note D
17	Rear reinforcement shaft	Note C

NOTE A	Lubricate weekly with grease gun
NOTE B	Lubricate monthly with grease gun
NOTE C	Lubricate yearly with grease gun
NOTE D	Lubricate yearly with oil

LUBRICATION SYSTEM

The lubrication system of an engine must constantly provide a film or cushion of oil between the various metallic parts which move or turn one against the other, sometimes at high speed and great pressure. This cushion of oil reduces the friction and heat that friction will generate. These points of contact, bearings, pistons etc... are designed to provide clearance or space for this film of oil. It is easy to see that this oil cushion must be present, and must be of good quality, proper body, and clean.

OIL FILTER: A percentage of the oil pumped, is forced through a lubricating oil filter which removes dirt and foreign matter that may have found its way into the oil bath.

CHANGING ENGINE OIL: Engine oil should be changed every 50 hrs. or 1,500 miles of operation. If the engine remains idle for a period of 30 days or longer, replace the engine oil before placing the unit in operation. To change oil, remove drain plug through plug hole directly below motor oil pan; and drain.

OIL PRESSURE: With the engine turning at approximately 1,400 R.P.M. and water temperature at approximately 160^oF., the oil pressure should be normal, providing there is no unusual escape of oil from some point in the system. As bearings wear and the increased clearance allows more than the normal amount of oil to escape, there will be a drop in pressure shown on the gauge, particularly at idling speed.

DIFFERENTIAL, TRANSMISSION: Use a multi-purpose, non corrosive gear oil like E.P. gear oil or any equivalent meeting specification MIL-L-2105-B.

OIL CHANGE: The oil in the differential, and transmission should be changed each 1200 hrs. or 36,000 miles. Always check for contaminated oil.

The differential on the Snowmobile may be checked by sliding the vent, located on the floor behind the operators seat. Through one of the center openings, the plug may be removed with a plug wrench and the level checked. To drain the differential, remove the drain plug under the differential by means of a hole in the frame directly below the differential.

The transmission oil level may be verified by first removing the seat of the rear bench, and removing the plug on the side of the transmission. To drain; remove drain plug underneath the transmission through a hole provided in the frame.

SUSPENSION: For lubrication of both plain and anti-friction bearings, use a high quality multi-purpose grease.

The wheel spindle is greased through the grease fitting on the hub cap.

The suspension axle cross shaft is installed permanently greased, and only the cross shaft bearing must be greased monthly.

The knuckle arm axle is hollow on the end, and grease is forced into this end, which comes out further down the axle shaft, thus lubricating the housing & axle.

The Bogie spindles, king pins, front wheels, tie rod ends, and ski support bracket axles, must be lubricated weekly, through the grease fittings provided.

UNDERCARRIAGE

REAR SUSPENSION: Eight independent wheels make up the rear suspension. These wheels are attached in pairs by means of Bogie cylinders, bringing the axles together. The bogie cylinders are attached to the bogie spindle by means of a chain, secured with a bolt and pin. One end of the cylinder attachment is stationary, the other flexible. This movement is attributed to a plate and large spring attached to a rod inside the cylinder to which the chain in question is attached on the outside.

TRACK: Rubber belts with steel cross links $17\frac{1}{2}$ " wide, make up the track. The belts are $5\frac{1}{2}$ " wide, made up of rubber and fabric reinforced with steel cable.

FRONT SUSPENSION: Coil springs and shock absorbers which adapt to skis and wheels, make up the front suspension.

SKIS: The skis, constructed of heavy metal, measure 60" x 12", and weigh approx. 55 lbs. Under the metal ski, is a support runner made of wood, to which a shoe runner is attached. The shoe runner is a metal rod running almost the length of the ski assembly, and attached through the assembly at one end by a nut, and at the trailing end by another nut, which passes through a spacer tube.

NOTE: *When inspecting skis, verify all bolts along the top of the skis.*

TRACK ADJSUTER: This unit is located in the rear of the track assembly, attached to the Bogie spindle. The adjustment is accomplished by the Adjusting screw on the nut and tube.

DRIVE TRAIN: Starting with the engine located in the rear of the vehicle, power is transmitted to the transmission, on to the propeller shaft which is then coupled with the differential by means of a universal joint. Then, on through the axle drive gear to the drive sprockets, which rotate turning the track assembly.

OPTIONAL EQUIPMENT: Some of the available equipment on the Snowmobile includes such items as:

6 ply nylon tires
spare wheel (including tube and tire)
NoSPIN Differential with a 4,88 ratio
additional gas tank
hour meter
tachometer
additional escape hatch
rear center seat

OPERATING INSTRUCTIONS

PRE-START CHECK: Like all pilots, whose life depends on the condition of the aircraft, have, by prudence and obligation, developed a habit of thoroughly verifying various parts of the machine systematically before take-off. They know there are not many service depots at 4,000 ft.

The same may be applied to the snowmobile; no service station at every other pine tree. The good habit of daily pre-checking could abort a long and unwelcomed snow-shoe hike.

BEFORE STARTING THE ENGINE:

- 1- Check engine oil level on dipstick
- 2- Check radiator coolant level
- 3- Check electrolyte level in battery cells

- 4- Check the tension of the tracks
- 5- Inspect the engine in general for evidence of fuel, oil or water leakage
- 6- Visual inspection of skis or wheels and front suspension

NOTE: *Always have tractor on level ground when checking levels.*

WHEN ENGINE IS RUNNING:

- 1- Check ammeter (be sure the reading is not negative)
- 2- Check oil pressure gauge (if no pressure, stop immediately)
- 3- Check fuel gauge (left and right tank if so equipped, by a flick of the switch)
- 4- Check if all lights function properly
- 5- Verify wipers
- 6- Verify fan switch
- 7- Be sure there is brake pressure

STARTING PROCEDURE:

- 1- Shift the transmission into neutral
- 2- Depress the accelerator pedal partly down
- 3- Turn the ignition key to "ON"
- 4- Press the starter button until the engine starts

FLOODED ENGINE: Hold accelerator pedal all the way down, and crank until engine starts (not over 30 seconds at a time).

DRIVING THE SNOWMOBILE

Allow the engine to warm up so that oil is being circulated to all moving parts before running under load. Depress the clutch pedal and shift into first gear. Release the clutch slowly as you press on the accelerator. Shift progressively through second, and third gears as the speed of the vehicle increases.

CAUTION: Depress clutch pedal while shifting transmission.

The clutch should never be slipped, and loads must be started at reduced engine speed. Slipping the clutch causes heat in the clutch assembly and may cause premature failure.

For maximum efficiency, never overload your engine. Shift gears according to speed of vehicle and weight of load.

Driving a snowmobile is somewhat different from driving an automobile. On soft surfaces, it does not present any difficulties. However, on hard surfaces, such as ice and cement, turning is more difficult. To make a turn on such surfaces, approach the turn at a moderate speed, turn the skis in the required direction, release the accelerator pedal suddenly. By doing so, the compression of the engine will act as a brake, bringing more weight to bear on the skis. The runner shoes will bear more heavily against the asperities of the surface and will help to make the desired turn.

When crossing difficult terrain, gear down so as to have power in reserve as steady movement without the momentary halt necessary for gear changing. This reduces the risk of spinning the tracks. Should they spin, release the accelerator somewhat, and this may enable the snowmobile to advance. If spinning continues, do not wait till they start digging in, but back up and start over.

RECOMMENDED DAILY CHECK-UP EVERY 10 HOURS

RUNNER SHOE: Check the condition of the runner shoe.

TRACKS: Check the adjustment of the tracks.
Check bolts and cross links.

WHEELS AND SUSPENSION: Check tire pressure (35 to 40 lbs.)
Remove ice or obstacles which may be on
the rear suspension causing friction.

CONTROL SYSTEM: Check all levers; i.e. brake clutch and
accelerator pedals, transmission and steering.

ENGINE: Check the oil level and pressure gauge, the temperature
gauge, the fuel gauge and the ammeter.
Check for leaks in fuel and oil lines, also verify the
condition of the air filter.

ELECTRICAL SYSTEM: Check the condition of the battery and the
level of the electrolyte.

COOLING SYSTEM: Check radiator for level and leaks; also fan
belt adjustment.
Check the opening of rear panel for the intake
of air.

RECOMMENDED WEEKLY CHECK-UP EVERY 50 HOURS OR 1,500 MILES

MECHANISM OF THE FRONT SUSPENSION: Check the ski assembly bolts
and the adjustment of the bearings of the front suspension joints.
Check the condition of the
shock absorbers and springs.

STEERING: Tighten the steering rack housing bolts if necessary.

TRACKS: Check the condition of the belts and look for worn cross links.

Tighten the cross link bolts if necessary.

SPROCKET: Check the condition of the rubber on the sprocket wheels and tighten the bolts if necessary.

WHEELS AND REAR SUSPENSION: Check the adjustment of the wheel bearings and the alignment of the wheels.

Check the condition of the links and bolts of the bogie spring.

Check the nuts, stop washers and bearings of the bogie spindles.

Tighten the differential U-bolts if necessary.

CONTROL SYSTEM: Check the adjustment of the transmission control rods, the clutch, the brake and the accelerator rods.

ENGINE: Add 3 drops of engine oil to the oiler on the outside of the distributor base. Make a visual inspection for leaks etc.

AIR FILTER: Clean

ELECTRICAL SYSTEM: Check electrolyte level in battery and add distilled water only if necessary.

Check all gauges.

DIFFERENTIAL & TRANSMISSION: Check oil level and add flush to filling hole (if necessary)

EVERY 100 HOURS OR 3,000 MILES

ELECTRICAL SYSTEM: Clean battery connections

CLUTCH: Check adjustment and readjust if necessary

EVERY 300 HOURS OR 9,000 MILES

IGNITION: Check breaker points condition and gap
Change spark plugs
Check engine timing

DISTRIBUTOR: Lubricate distributor cam and wick

WIRING: Inspect wire insulation and connections

FILTERS: Replace fuel filter cartridge
Install new air cleaner paper element

EVERY 1200 HOURS OR 36,000 MILES

DIFFERENTIAL AND TRANSMISSION: Drain and refill with new oil

MAINTENANCE AND REPAIRS

SKI AND FRONT SUSPENSION: To replace the runner shoe, part no: 605 0001, jack up the front of the snowmobile, remove the nuts which hold the runner shoe and remove the worn runner shoe front end first. Install the new runner shoe rear end first and by tightening the nut, the front end will come in position.

Install the nut on the front end and tighten it. When a runner shoe is replaced, it is time to check the condition of the ski assembly bolts. Tighten or replace if necessary.

To remove the front spring, the lower bumper should be taken off so that the knuckle arm can reach a lower point. The spring is then pressed up with a steel bar and driven off the seat. To reinstall, reverse the procedure.

SHOCK ABSORBERS: To ensure top stability for "heavy going" and rough terrain, the shock absorbers should be checked occasionally for leaks or wear. Shocks usually provide a level cushioned ride, eliminates side sway and "bottoming" and stabilizes the front end on curves for ride control.

The type used on the snowmobile is the cross-pin type. To change or remove the shock absorber, the front end must be jacked up. Remove bolt in shock housing by taking nut off of tapered bolt. Then, remove lower bolt on beam suspension. When changing shock absorbers, always change in pairs.

INSTALLATION AND ADJUSTMENT OF THE TRACKS: To install, loosen the adjusting screw nut and tube, located in the rear of the snowmobile, leaving only about four threads on the adjusting screw. Install the track on the sprocket gear first. Jack up the rear part of the snowmobile until all the wheels are off the ground. Place the track on top of all the wheels and slide it over the rear wheel into position. To remove the track, release the adjusting screw and pull the track off the rear wheel.

Each track is adjustable independently by means of a screw which operates the adjuster unit of the rear wheel. To obtain the correct tension of the track, loosen the adjusting screw lock nut by first removing the lock wire.

Proceed to tighten or loosen with a wrench to obtain the proper tension, which is considered correct when the track can be raised by hand, over the first wheel with a clearance of about $1\frac{1}{2}$ " between the cross link and the tire. If the track is too tight, it may cause premature wear of the sprocket. If the track is not tight enough, it may fall off when making a sharp turn. After the tracks have been adjusted, lock the adjusting screw nut with a wire.

WHEEL BEARINGS: To adjust the wheel bearings; rotate the wheel while tightening the axle nut until it becomes hard to turn. Then back off the axle nut $\frac{1}{4}$ of a turn and install the cotter pin. When the vehicle is jacked up, the bearings of the first three wheels can be easily adjusted.

To adjust the bearings of the rear wheel, the track must be removed in order to make a perfect adjustment.

TIRES: For tire repairs or replacement, it is possible to remove the three front wheels of the rear suspension when the vehicle is jacked up. To remove the rear wheel, it is necessary to remove the track.

STEERING MECHANISM: To adjust the alignment of the skis, place the skis in a parallel position with the snowmobile. The front end of the skis should be $\frac{1}{4}$ " closer to each other than the rear end. An alignment bar would help in measuring the distance. The adjustment is made by the tie rod ends.

When wheels are installed instead of skis, the front part of the tires should be $1/8$ " closer together than the rear part. With the alignment bar, measure the distance from inside the tire rim.

ENGINE AND EXHAUST SYSTEM: The details regarding the maintenance of the engine are given in the manual supplied by the manufacturer.

The mufflers and exhaust outlets of the snowmobile are on each side. It is of major importance that a frequent check of these parts be made.

CLUTCH AND BRAKE: The clutch rod assembly is inside the vehicle under the floor board. Adjust the bolts and nuts near the engine from time to time to assure a free play of 3/4" to 1" on the clutch pedal.

The brake adjustment may be made by turning the nut on the brake band. The brake assembly is on the end of the transmission housing. It is entirely inside the vehicle and is therefore protected from snow and ice.

TRANSMISSION AND PROPELLER SHAFT: The transmission is operated by means of rods from the controls at the front of the vehicle which are adjustable by means of clevises and adjusting nuts.

Gearshifting is done by means of a control rod and a selector rod. If shifting is difficult, the adjustment of the rods can be checked at the following points:

- 1- At the selector rod at the bottom of the mast jacket
- 2- At the selector rod by means of adjusting nuts on the cross shaft of the gearshift system (front)
- 3- At both ends of the control rods by means of clevises

When the transmission is in second speed, the selector rod should have a free play of 1/16". If necessary, tighten or loosen the nuts on the selector rod at the lower end of the mast jacket or the nuts on the cross shaft of the gearshift system.

The adjustment of the control rod is correct when the transmission is in reverse and a free play of 1/16" exists between the mast jacket and the tube and socket of the gear-shift lever.

DIFFERENTIAL: In a snowmobile the differential is sheltered from the usual coolants such as water, snow and fresh air, which ordinarily cools the differential of a standard motor vehicle. For this reason, more attention should be given to the differential when the vehicle is used for extremely heavy duty work.

To drain the differential, remove the bottom bolt of the housing cover. It will then drain through the hole in the frame provided for this.

STORAGE HINTS

When a Snowmobile is to be temporarily removed from operation, certain precautions must be taken to protect the machine from rust, corrosion and stress on certain parts of the machine.

A section on "Preparing engine units for storage" may be found in the "Engine Operator's Manual".

- 1- Release track tension.
- 2- Completely lubricate all points mentioned in the maintenance schedule.
- 3- Take out the battery and charge every 30 days or trickle charge.
- 4- Flush radiator and refill with proper anti-freeze.
- 5- Carefully check and clean all of the machine. Replace any defective parts.
- 6- Drain the gas tank(s).
- 7- Engine, transmission & differential; drain and refill to proper level with fresh oil.
- 8- Lubricate all "Pivot Points" with driplless oil. i.e. latches, hinges, pedal connections, brake, clutch, steering, brake cables etc...In winter a superior stability grease may be used.

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SNOWMOBILE

SNOWMOBILE: WITH CHRYSLER
318 C.I.D. GASOLINE
ENGINE, 3 FORWARD SPEED
MANUAL TRANSMISSION,

SPARE PARTS MANUAL
MANUEL DE PIECES

INDUSTRIAL DIVISION
DIVISION INDUSTRIELLE

VALCOURT

QUEBEC

CANADA

SNOWMOBILE

GENERAL INFORMATION

PARTS MANUAL

ILLUSTRATIONS

The illustrations figuring in this parts manual show the typical construction of the different assemblies and, in all cases, may not reproduce the full detail or exact shape of the parts shown, however, they represent parts which have the same or a similar function.

ILLUSTRATIONS

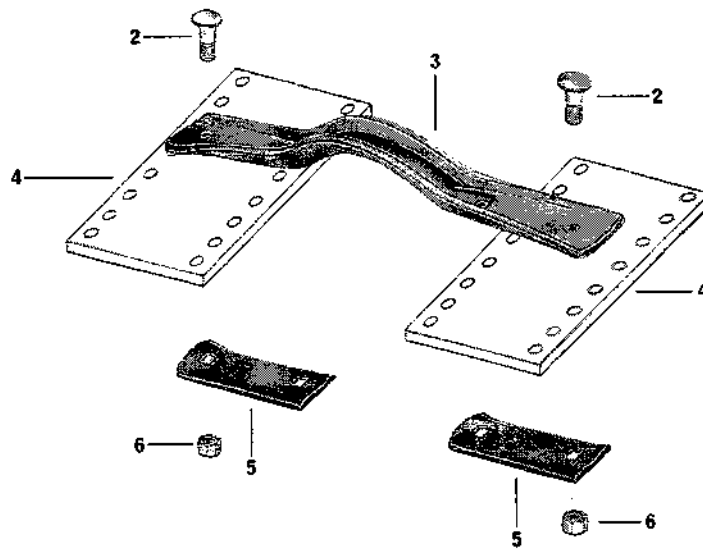
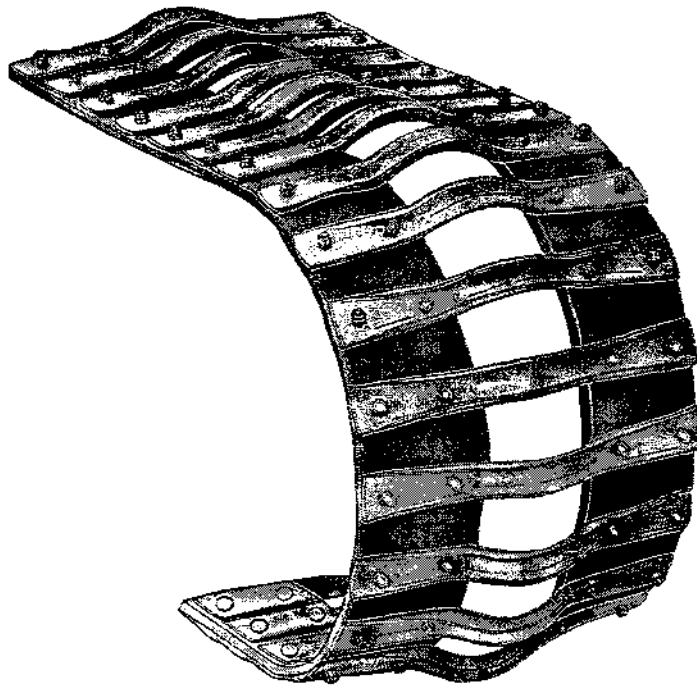
Les illustrations figurant dans ce catalogue de pièces ne montrent que la construction typique des différents assemblages et, dans tous les cas peuvent ne pas reproduire de façon exacte les détails ou la forme des pièces montrées. Toutefois, elles ont pour but de représenter les pièces qui ont des fonctions similaires ou identiques.

INFORMATION GENERALE

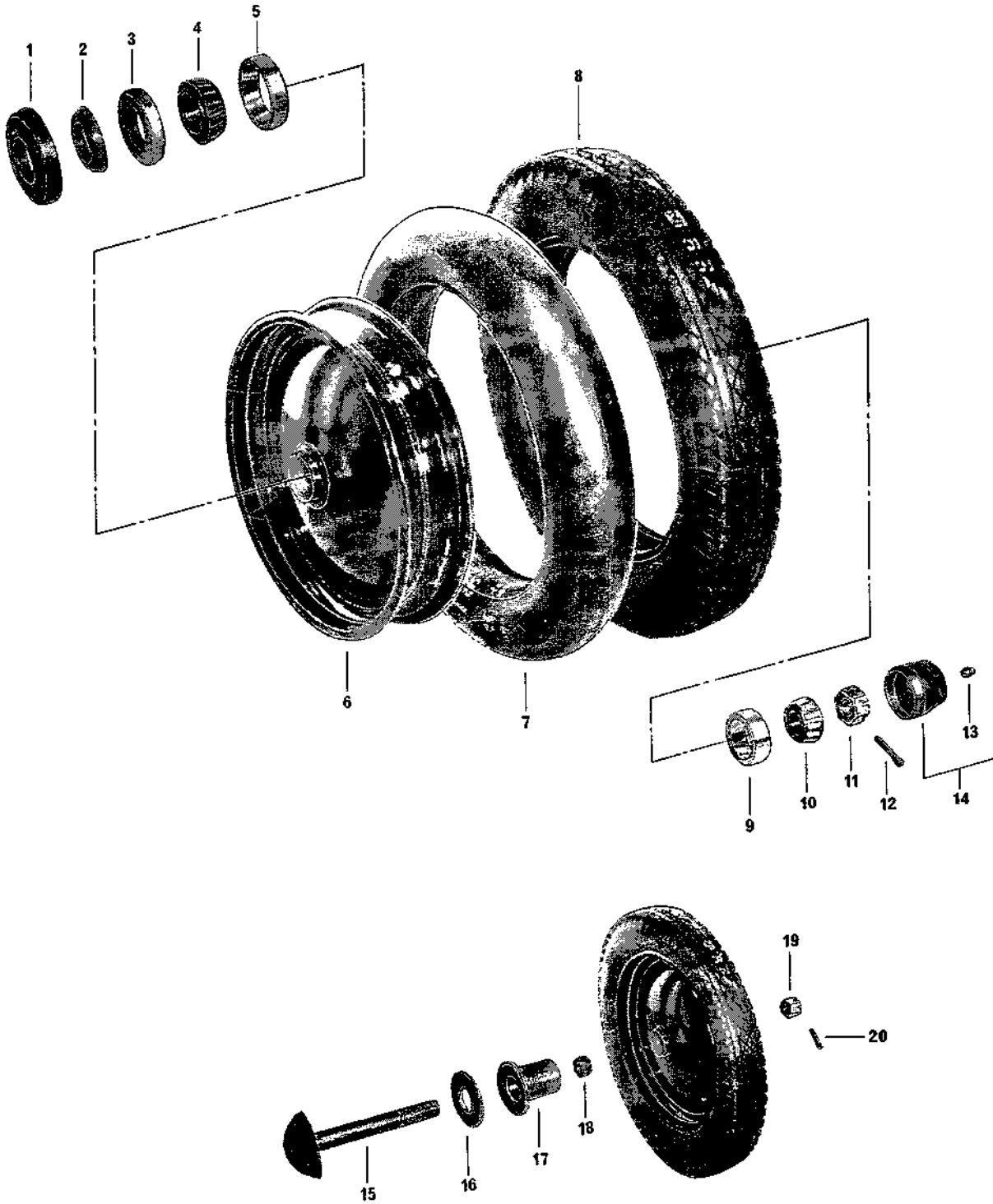
MANUEL/PIECES

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01	Drive/commande.
02	Wheel/roue.
03	Suspension/suspension.
04	Transmission/transmission.
05	Ski/ski.
06	Steering/conduite.
07	Brake/frein.
08	Differential/différentiel.
09	Clutch/embrayage.
10	Throttle/accélérateur.
11	Propeller shaft/arbre de commande.
12	Engine/moteur.
13	Fuel/carburant.
14	Exhaust/échappement.
15	Electrical/système électrique.
16	Cooling/refroidissement.
17	Body/carrosserie.
18	Frame/châssis.



REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	680 0052	Ass'y - track.....	2
2	360 8003	Bolt (cross link).....	576
3	600 0006	Link - cross.....	144
4	670 0005	Belt - side track.....	4
5	600 0019	Cleat.....	288
6	386 6024	Nut (cross link).....	576



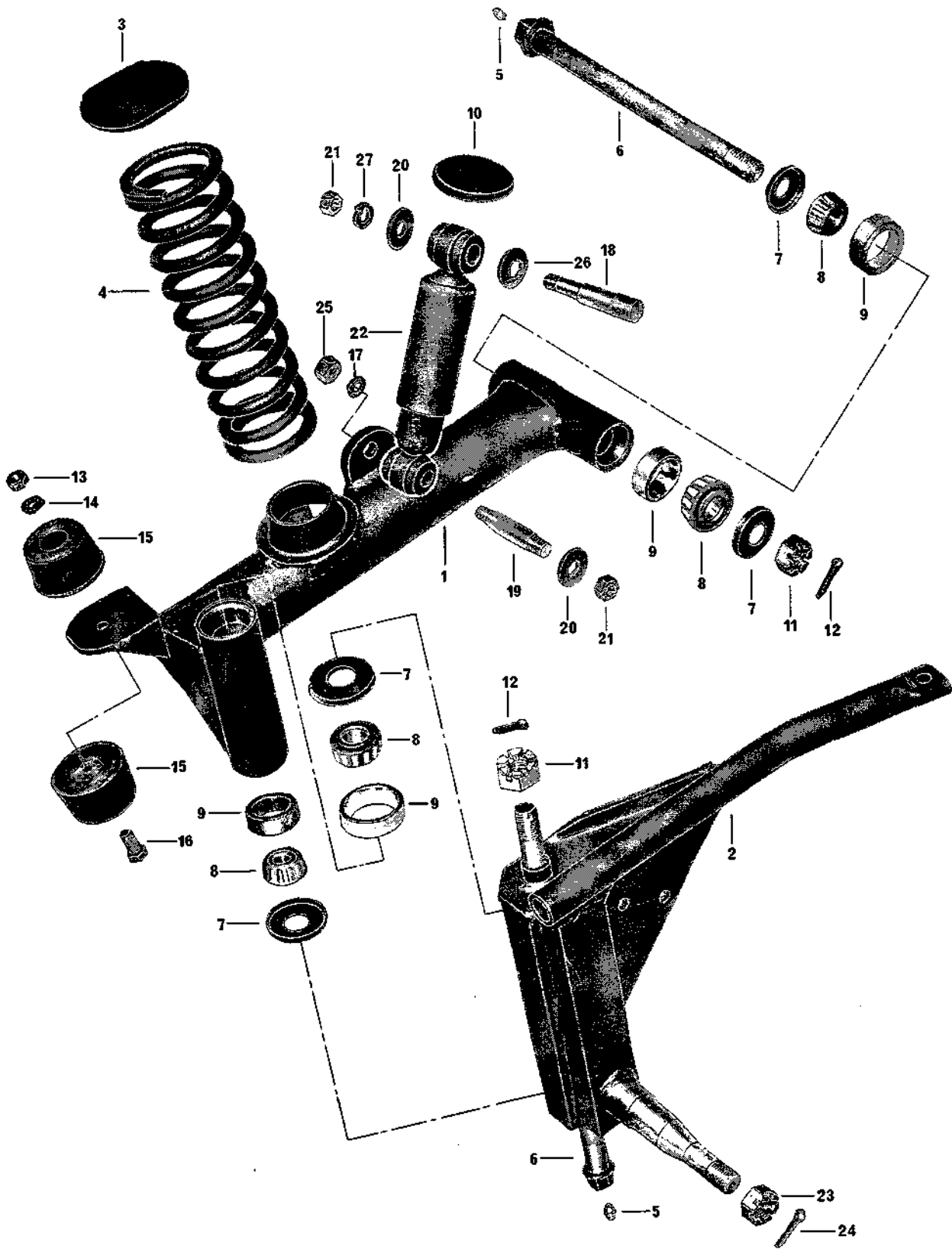
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	602 0006	Excluder - mud.....	10
2	670 0201	Rubber - mud excluder.....	10
3	670 0101	Seal -wheel.....	10
4	105 0008	Cone - bearing (inner).....	10
5	105 0002	Cup - bearing (inner).....	10
6	602 0014	Wheel (with cup).....	10
7	107 0004	Tube -wheel.....	10
8	107 0006	Tire - wheel (4 ply).....	10
8	107 0002	Tire - wheel (6 ply) optional.....	10
9	105 0009	Cup - bearing (outer).....	10
10	105 0011	Cone - bearing (outer).....	10
11	389 8005	Nut.....	10
12	371 0062	Pin - cotter.....	10
13	408 2001	Fitting - grease.....	10
14	680 0195	Cap - hub (with grease fitting).....	10
15	617 0605	Pin - anchor (use with spare wheel) optional.....	1
16	670 1710	Spacer - rubber (use with spare wheel) optional.....	1
17	617 0606	Housing - anchor (use with spare wheel) optional.....	1
18	380 6032	Nut (use with spare wheel) optional..	1
19	382 4032	Nut - slotted (use with spare wheel) optional.....	1
20	371 0032	Pin - cotter (use with spare wheel) optional.....	1

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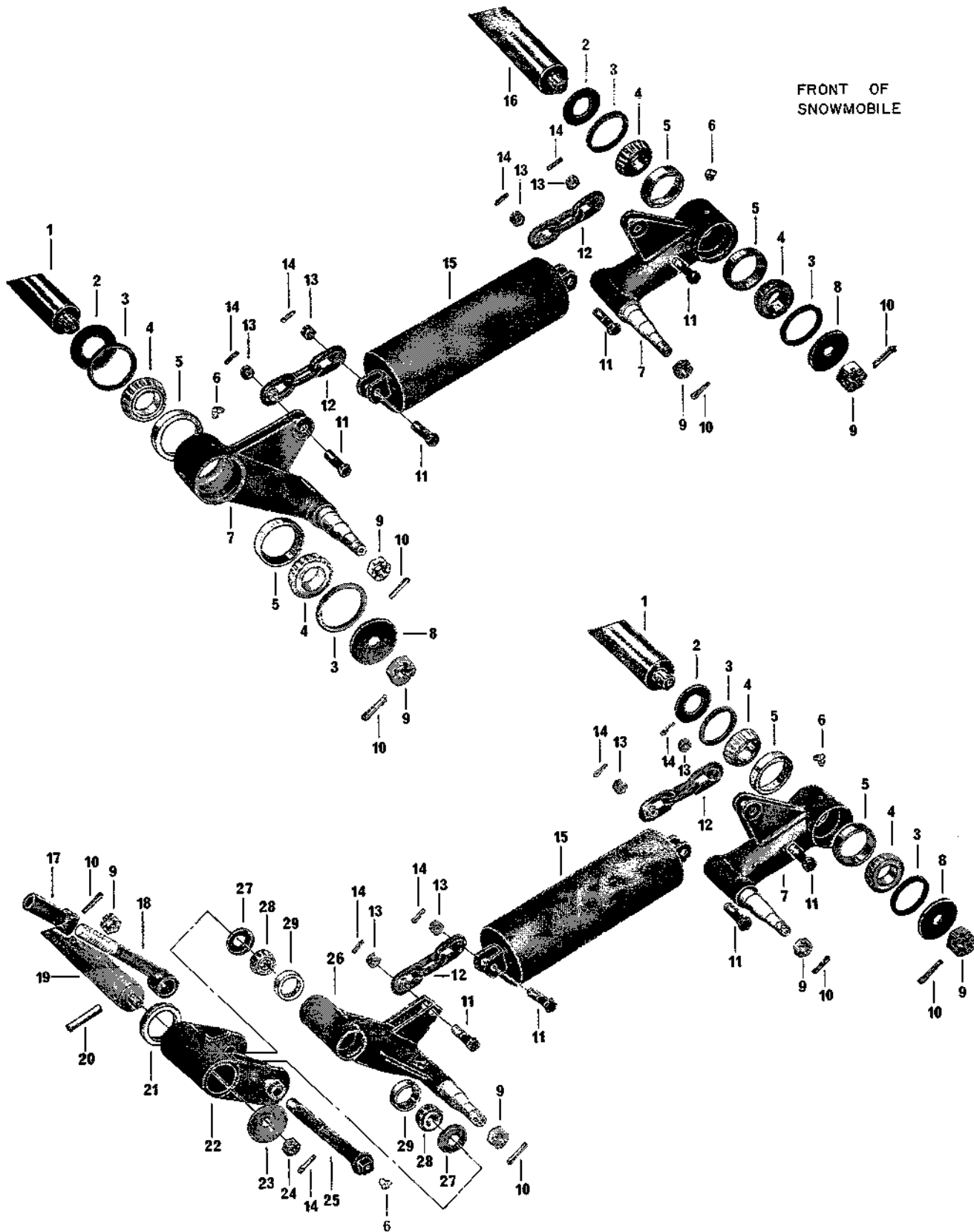
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	603 0142	R.H. knuckle arm & spring seat (with cups).....	1
1	603 0147	L.H. knuckle arm & spring seat (with cups).....	1
2	603 0214	R.H. Spindle & steering arm.....	1
2	603 0215	L.H. spindle & steering arm.....	1
3	603 0212	Spacer.....	2
4	114 0003	Spring - front axle.....	2
5	408 2001	Fitting grease.....	4
6	603 0170	Axle - knuckle arm.....	4
7	603 0049	Mud - excluder - flexible joint.....	8
8	105 0011	Cone - bearing.....	8
9	105 0009	Cup - bearing.....	8
10	603 0221	Cap - upper tube.....	2
11	381 2035	Nut.....	4
12	371 0062	Pin - cotter.....	4
13	380 6024	Nut.....	2
14	392 0024	Lockwasher.....	2
15	670 0301	Rubber bumper - knuckle arm.....	4
16	300 0083	Bolt.....	2
17	392 0026	Lockwasher.....	2
18	603 0222	Bolt (shock lower).....	2
19	603 0176	Stud (shock upper).....	2
20	603 0287	Flatwasher - upper & lower.....	4
21	380 6028	Nut - upper & lower.....	4
22	101 0001	Package - shock absorber.....	2
23	389 8005	Nut.....	2
24	371 0062	Pin - cotter.....	2
25	380 6026	Nut.....	2
26	603 0223	Washer (shock upper).....	2
27	392 0028	Lockwasher - upper.....	2

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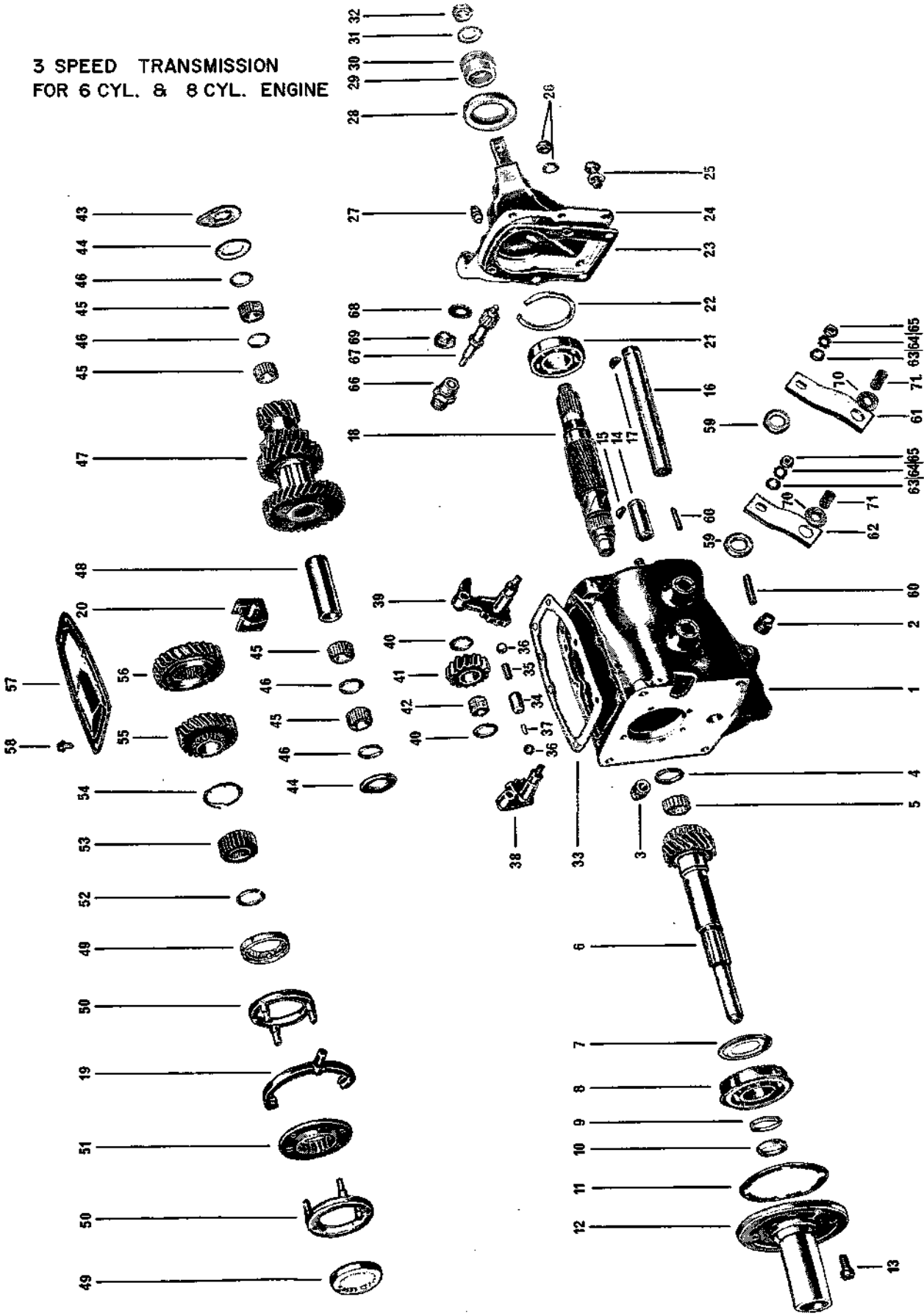
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REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	603 0236	Shaft - cross.....	2
2	603 0104	Washer - inner stop seal.....	6
3	670 0302	Seal.....	12
4	105 0003	Cone - bearing.....	12
5	105 0004	Cup - bearing.....	12
6	108 2003	Grease - fitting.....	8
7	603 0245	Spindle - R.H. bogie (with cups).....	3
7	603 0249	Spindle - L.H. bogie (with cups).....	3
8	603 0100	Washer - outer stop seal.....	6
9	389 8005	Nut - axle & cross shaft.....	16
10	371 0062	Pin - cotter.....	16
11	309 8009	Bolt.....	16
12	603 0268	Chain - link.....	8
13	382 4028	Nut.....	16
14	371 0031	Pin - cotter.....	18
15	603 0065	Spring - bogie.....	4
16	603 0237	Shaft - cross.....	1
17	603 0235	Nut & tube.....	2
18	603 0234	Screw - adjusting.....	2
19	603 0238	Shaft - reinforcement.....	1
20	603 0283	Pin - lock.....	1
21	603 0232	Spacer.....	2
22	603 0229	Adjuster unit - R.H.....	1
22	603 0230	Adjuster unit - L.H.....	1
23	603 0231	Washer - stop.....	2
24	381 2028	Nut.....	2
25	603 0233	Axle.....	2
26	603 0240	Bogie spindle - R.H. (with cups).....	1
26	603 0242	Bogie spindle - L.H.....	1
27	603 0049	Mud excluder - flexible joint.....	4
28	105 0011	Cone - bearing.....	4
29	105 0009	Cup - bearing.....	4

3 SPEED TRANSMISSION
FOR 6 CYL. & 8 CYL. ENGINE



REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 8 CYL.
1	102 2312	Case.....	1
2	102 2364	Plug (drain).....	1
3	108 7004	Plug (filler).....	1
4	102 2104	Ring - snap.....	1
5	102 2108	Bearing - roller.....	15
6	102 2233	Gear.....	1
7	102 2318	Oil slinger - bearing.....	1
8	105 4020	Bearing.....	1
9	102 2314	Ring - snap (thin).....	As req'd
9	102 2315	Ring - snap (medium).....	"
9	102 2316	Ring - snap (thick).....	"
9	102 2317	Ring - snap (extra thick).....	"
10	102 2232	Seal - oil.....	1
11	102 2247	Gasket.....	As req'd
12	102 2257	Retainer - bearing.....	1
13	102 2129	Screw with washer.....	4
14	102 2210	Shaft - reverse idler.....	1
15	102 2211	Key.....	1
16	102 2236	Shaft - counter.....	1
17	102 2211	Key.....	1
18	102 2267	Main shaft - main.....	1
19	102 2237	Fork - 2nd. & direct.....	1
20	102 2238	Fork - low & reverse.....	1
21	105 4009	Bearing.....	1
22	102 2248	Ring - snap (thin).....	As req'd
22	102 2250	Ring - snap (medium).....	"
22	102 2251	Ring - snap (thick).....	"
22	102 2252	Ring - snap (extra thick).....	"
23	102 2254	Gasket.....	1
24	102 2261	Retainer - rear bearing.....	1
25	102 2410	Screw with washer.....	6
26	380 9024	Nut.....	2
26	392 0024	Washer.....	2
27	102 2136	Breather.....	1
28	102 2039	Seal- oil.....	1
29	102 2268	Spacer.....	1
30	102 2265	Speedo gear - speedo.....	1
31	102 2352	Washer.....	1
32	102 2181	Nut.....	1
33	102 2240	Gasket.....	1
34	102 2230	Sleeve (interlock).....	1
35	102 2263	Spring.....	1
36	102 2003	Ball.....	2
37	102 2231	Pin.....	1
38	102 2245	Lever - second & high (inner).....	1
39	102 2255	Lever - low & reverse (inner).....	1
40	102 2353	Washer.....	2
41	102 2260	Gear with bushing.....	1
42	102 2152	Bearing - roller.....	22
43	102 2244	Plate - thrust.....	1

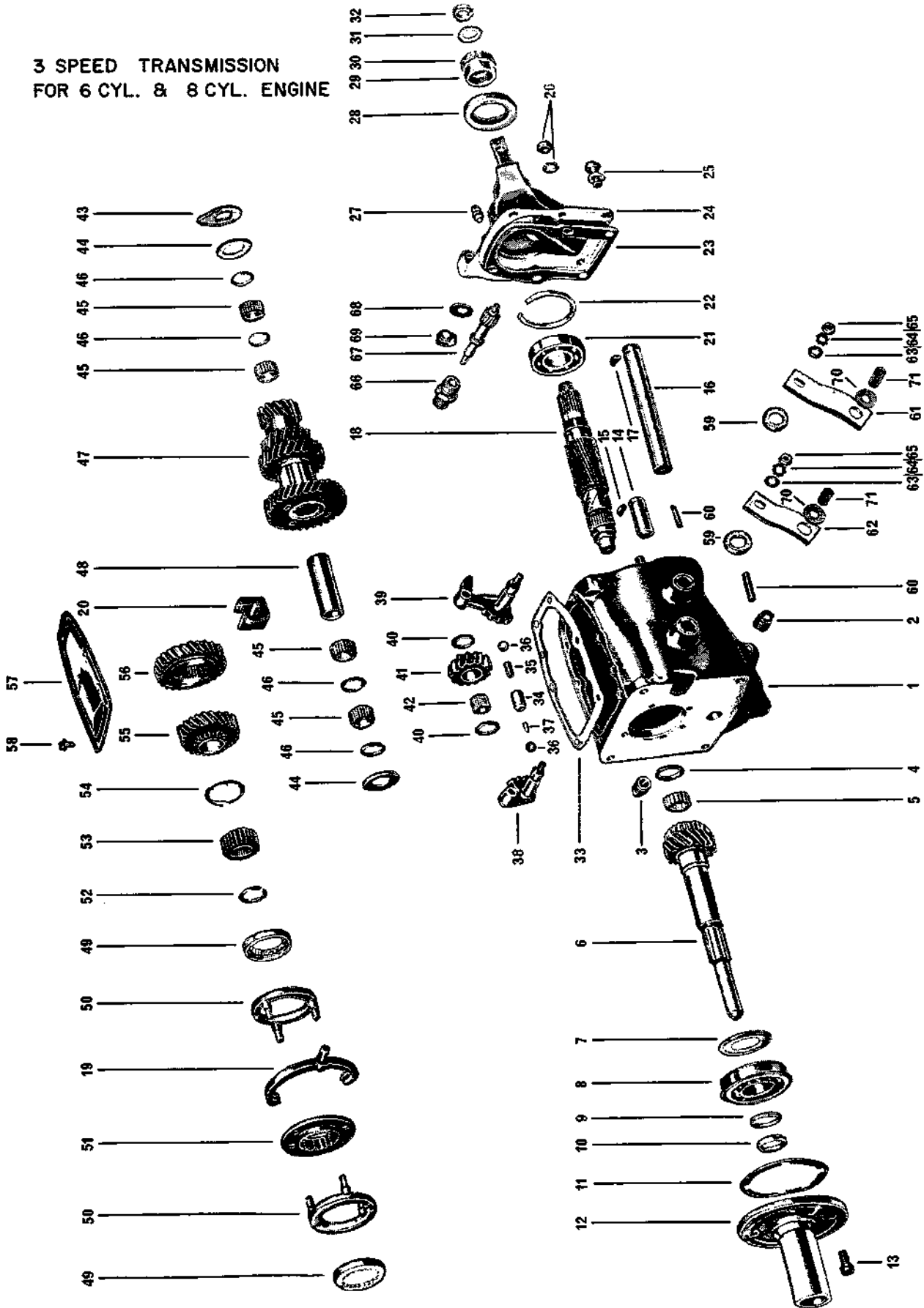
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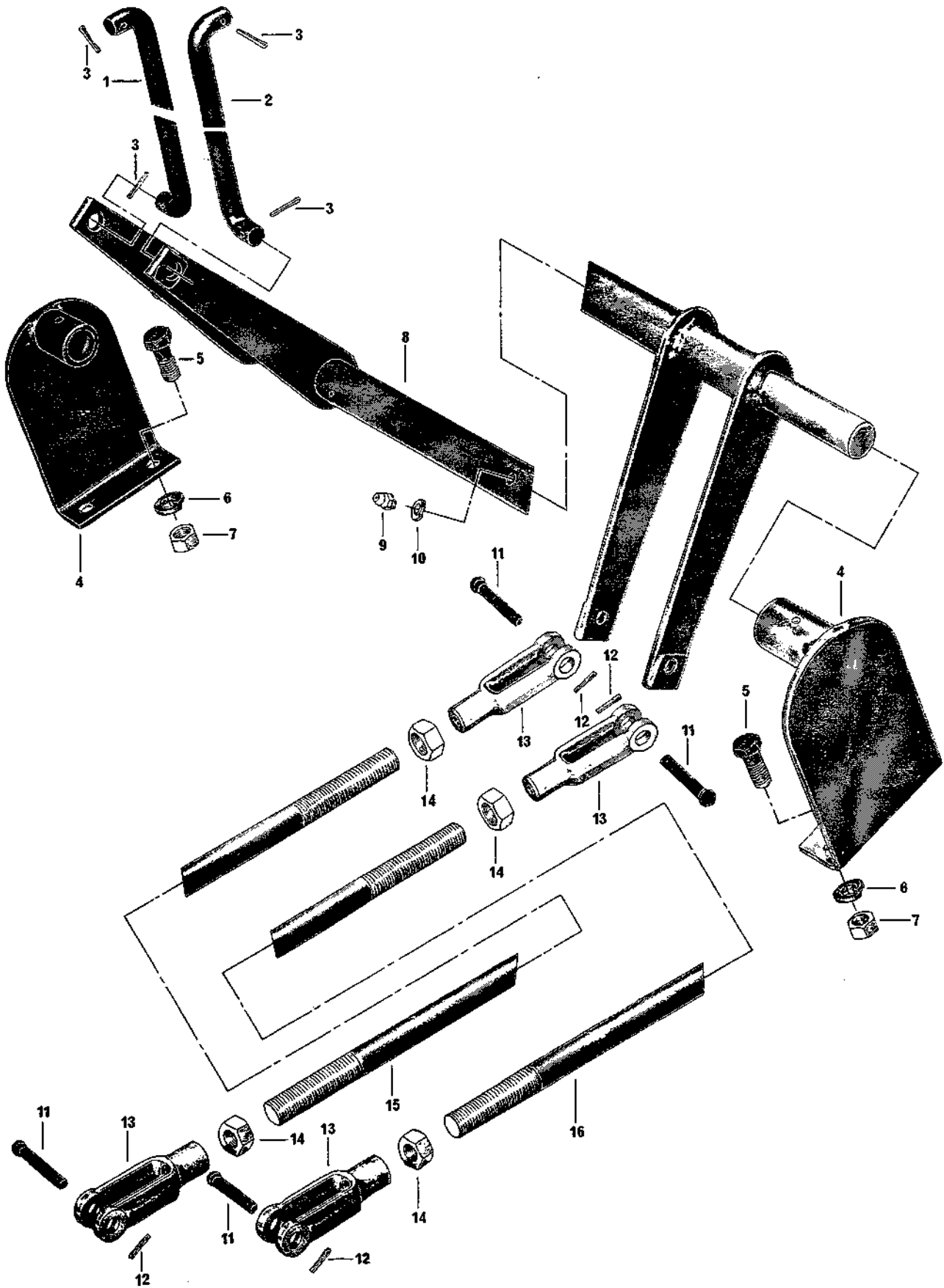
SECTION 04/2 - 1st PRINT
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3 SPEED TRANSMISSION
FOR 6 CYL. & 8 CYL. ENGINE



REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 8 CYL.
44	102 2153	Washer - thrust thin .057 - .059...	4
44	102 2397	Washer - thrust thick .062 - .064..	4
45	102 2320	Bearing - roller.....	88
46	102 2188	Washer.....	2
47	102 2234	Gear - countershaft.....	1
48	102 2243	Spacer.....	1
49	102 2242	Ring - stop inner.....	2
50	102 2241	Ring - stop outer.....	2
51	102 2235	Sleeve.....	1
52	102 2264	Ring - snap.....	1
52	102 2060	Ring - snap (thin).....	1
52	102 2061	Ring - snap (medium).....	1
52	102 2062	Ring - snap (thick).....	1
52	102 2066	Ring - snap (extra thick).....	1
53	102 2090	Gear - clutch.....	1
54	102 2387	Spring.....	3
55	102 2258	Gear - 2nd. speed.....	1
56	102 2259	Gear - low & reverse sliding.....	1
57	102 2239	Cover.....	1
58	102 2351	Screw with washer.....	6
59	102 2229	Seal.....	2
60	102 2313	Pin.....	2
61	102 2226	Lever - low & reverse (outer).....	1
62	102 2227	Lever - 2nd. & high (outer).....	1
63	391 0024	Washer.....	2
64	399 8001	Lockwasher.....	2
65	380 7022	Nut.....	2
66	101 2019	Sleeve - speedometer drive.....	1
67	101 2020	Pinion - speedometer drive.....	1
68	119 1073	Gasket - without speedometer.....	1
69	102 2409	Plug - without speedometer.....	1
70	102 2228	Grommet.....	2
71	102 9241	Bushing.....	2
-	101 2009	Ass'y - transmission 3 speed.....	1
-	309 9001	Bolt (trans. to engine).....	1
-	300 4194	Bolt (trans. to engine).....	3
-	392 0030	Lockwasher (trans. to engine).....	4
-	102 0032	Gasket pkge. consist of:	
	ref. no.	part no.	quantity
	10	102 2232	1
	28	102 2039	1
	33	102 2240	1
	11	102 2247	1
	23	102 2254	1



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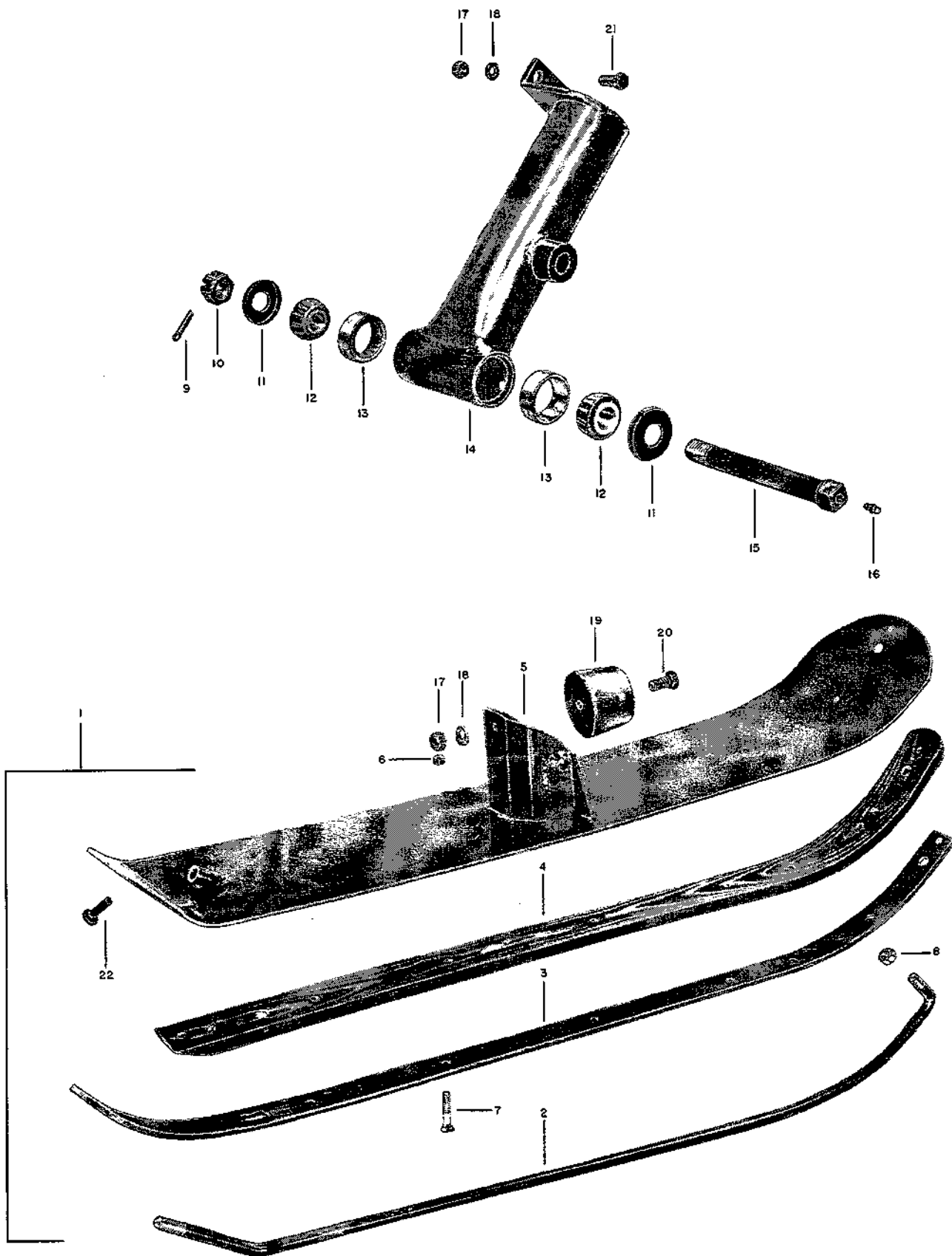
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1st MODEL (ISSUE 1)

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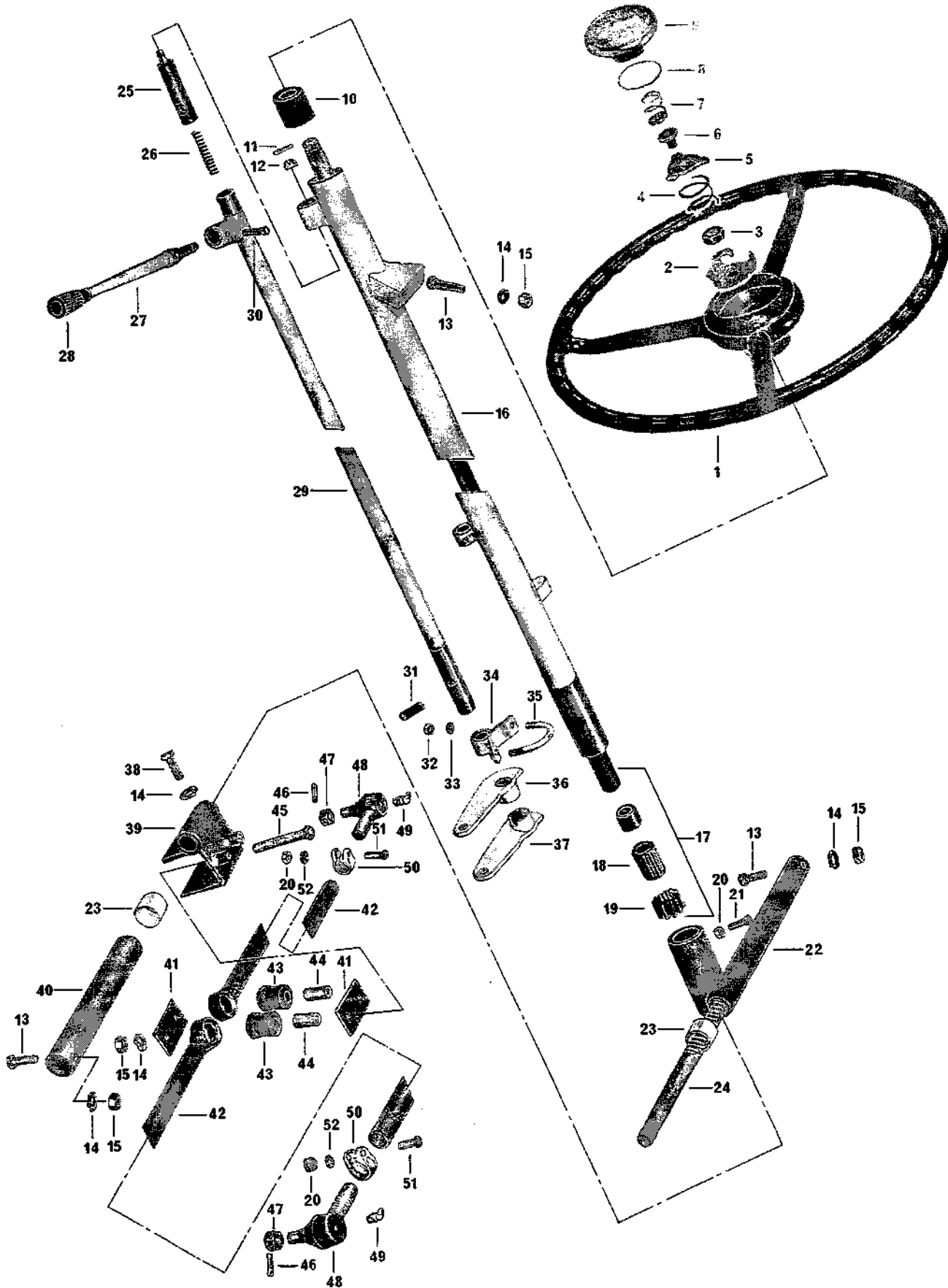
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REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	604 0148	Rod - gearshift (sec. & high).....	1
2	604 0107	Rod - gearshift (low & rev.).....	1
3	471 0011	Pin - cotter.....	4
4	604 0111	Bracket - cross shaft & gearshift....	2
5	300 0043	Bolt.....	4
6	392 0022	Lockwasher.....	4
7	380 7022	Nut.....	4
8	604 0106	Shaft & lever - gearshift.....	1
9	408 2001	Fitting - grease.....	1
10	392 0019	Lockwasher.....	1
11	114 0061	Pin - clevis.....	4
12	371 0011	Pin - cotter.....	4
13	114 0006	Yoke - clevis.....	4
14	380 6026	Nut.....	4
15	604 0063	Rod - gearshift (low & rev.) (see note A).....	1
16	604 0064	Rod - gearshift (sec. & high) (see note A).....	1
-	604 0112	Rod - gearshift (low & rev.) (see note B).....	1
-	604 0113	Rod - gearshift (sec. & high) (see note B).....	1
<p>Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V</p> <p>Note B: Used on snowmobile before serial number AA 70 - 6010 V</p>			

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REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	680 0193	Ass'y - ski.....	2
1	680 0040	Ass'y - ski.....	2
2	605 0001	Shoe - runner.....	2
3	605 0002	Runner - cap.....	2
4	605 0003	Support - runner.....	2
5	605 0009	Ski & bracket.....	2
6	385 1024	Nut.....	14
7	370 0000	Bolt.....	14
8	380 6032	Nut.....	4
9	371 0062	Pin - cotter.....	2
10	381 2035	Nut - flexible joint.....	2
11	603 0049	Excluder - mud.....	4
12	105 0011	Cone - bearing.....	4
13	105 0009	Cup - bearing.....	4
14	603 0224	Support - bracket ski.....	2
15	603 0134	Bolt - flexible joint.....	2
16	408 2001	Fitting - grease.....	2
17	392 0024	Lockwasher.....	6
18	380 6024	Nut.....	6
19	670 0301	Bumper - rubber.....	2
20	300 0081	Bolt.....	2
21	300 0083	Bolt.....	4
22	390 0104	Rivet.....	2



BOMBARDIER LTD/LTEE

SECTION 06/1 - 1st PRINT
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

APRIL 1970.

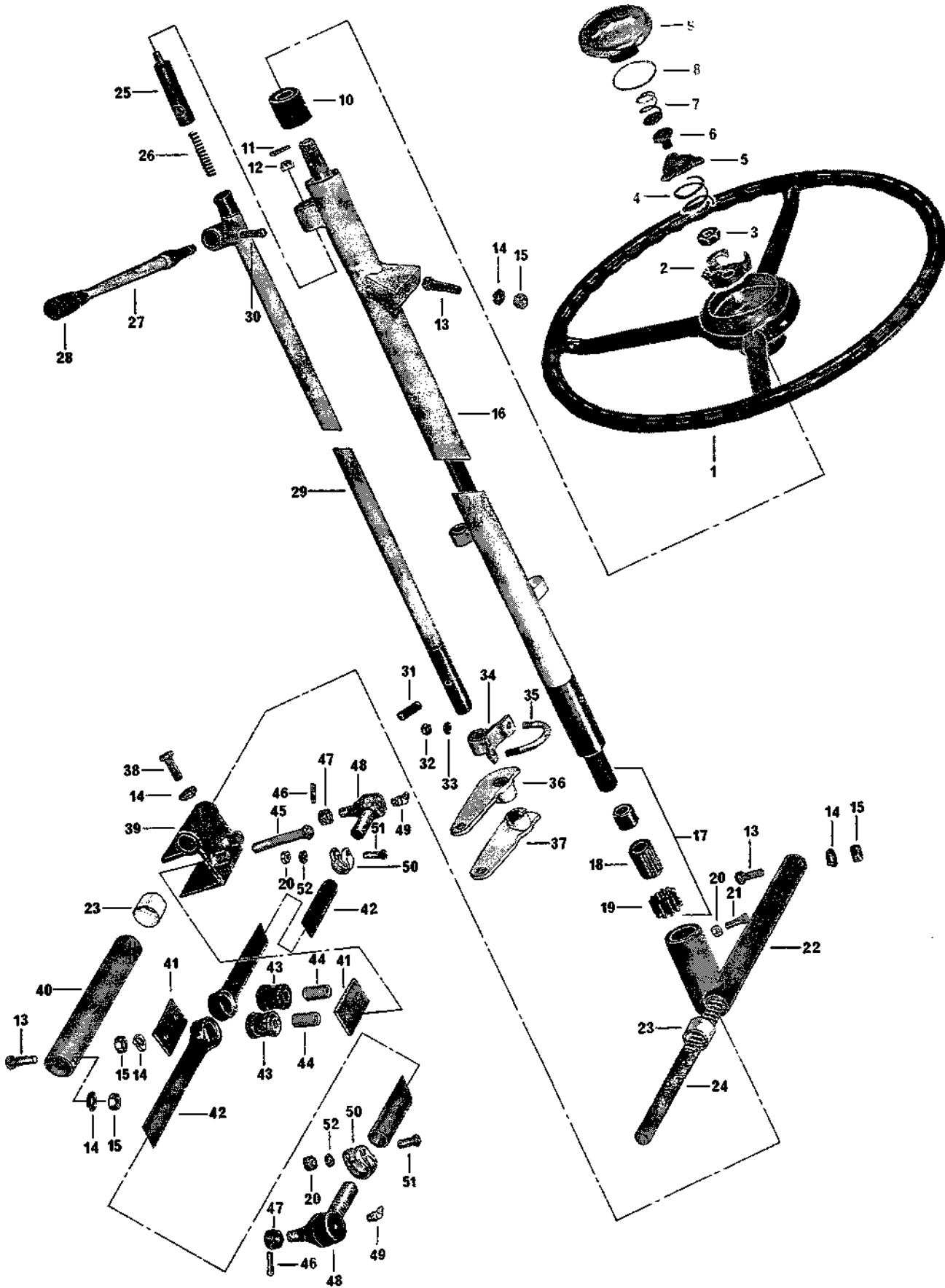
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	680 0197	Ass'y - steering & gearshift.....	1
1	101 5001	Wheel - steering.....	1
2	101 8002	Retainer - plate lower.....	1
3	660 6003	Nut.....	1
4	101 8007	Spring.....	1
5	101 8004	Retainer - plate upper.....	1
6	102 8019	Insulator - horn button.....	1
7	101 8006	Base - spring.....	1
8	101 8003	Lockwire.....	1
9	101 8008	Cover - horn button.....	1
10	670 0601	Bushing - upper.....	1
11	371 0002	Pin - cotter.....	1
12	382 4019	Nut.....	1
13	660 6001	Bolt.....	4
14	392 0024	Lockwasher.....	7
15	380 6024	Nut.....	6
16	606 0082	Jacket - mast.....	1
17	606 0081	Shaft - steering.....	1
18	105 2002	Bearing - steering shaft.....	1
19	606 0046	Pinion.....	1
20	380 7022	Nut.....	3
21	300 0043	Bolt.....	1
22	606 0067	Steering pinion & rack housing (with bushing).....	1
23	606 0066	Bushing.....	2
24	606 0074	Rack - steering.....	1
25	606 0061	Pin - fulcrum.....	1
26	604 0096	Spring.....	1
27	606 0056	Lever - gearshift.....	1
28	114 0063	Knob - gearshift lever.....	1
29	604 0030	Tube & socket.....	1
30	390 0047	Rivet.....	1
31	372 0151	Pin.....	1
32	380 6019	Nut.....	2
33	392 0019	Lockwasher.....	2
34	606 0069	Collet - plate & bushing.....	1
35	606 0070	Collet - "U" bolt.....	1
36	606 0045	Lever - shifter (low & reverse).....	1
37	606 0044	Lever - shifter (sec. & high).....	1
38	660 6002	Bolt.....	1
29	606 0075	Bracket - steering rack.....	1
40	606 0064	Rack - steering (with bushing).....	1
41	606 0079	Retainer - plate.....	2
42	606 0078	Rod - tie.....	2
43	670 0602	Bushing.....	2
44	606 0068	Bushing.....	2
45	300 0091	Bolt.....	2
46	371 0033	Pin - cotter.....	2
47	381 2028	Nut.....	2
48	114 0078	End - tie rod.....	2
49	408 2001	Fitting - grease.....	2
50	108 8005	Clamp - steering tie rod.....	2

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LITHO'D IN CANADA

SECTION 06/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



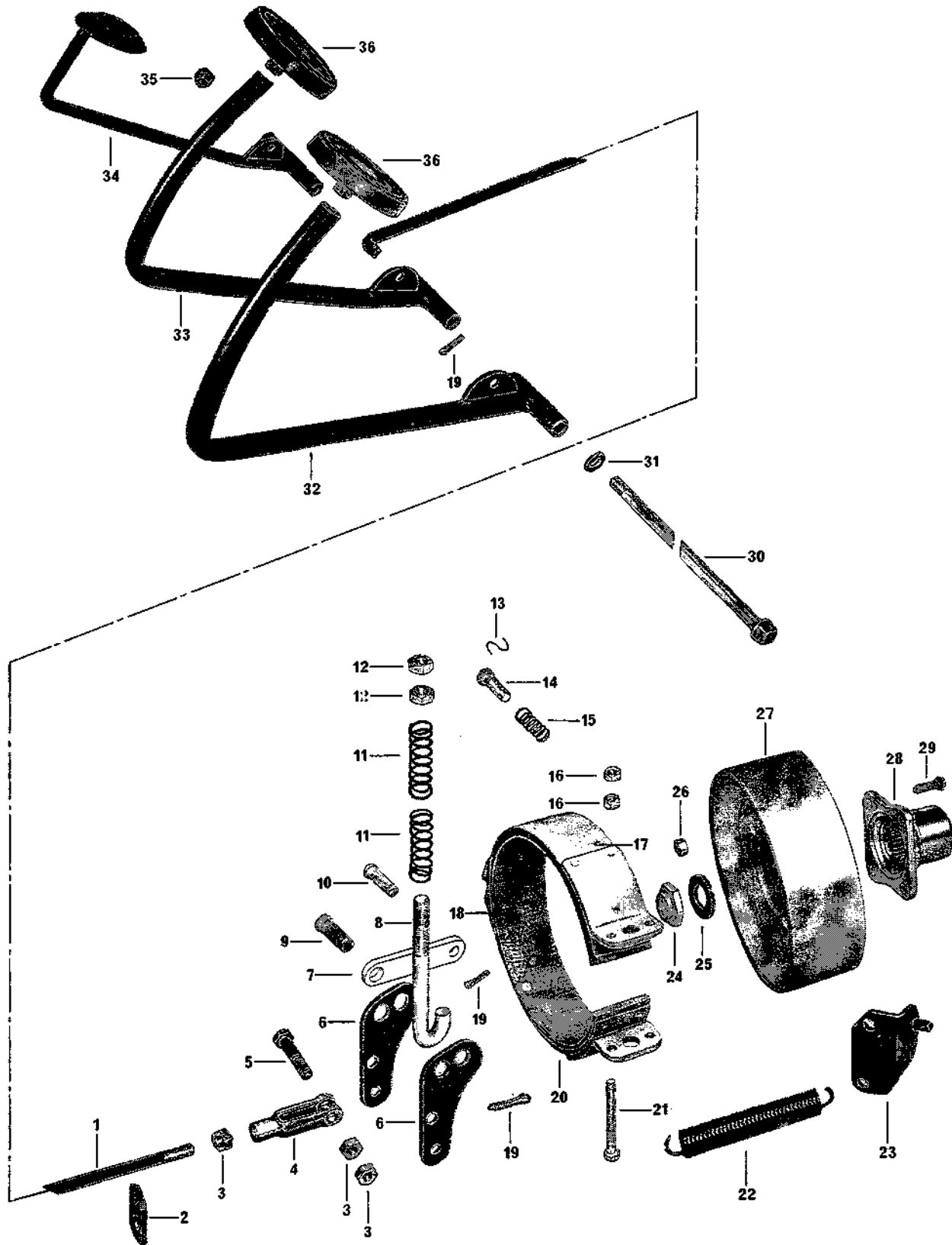
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SECTION 06/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
51	300 0044	Bolt.....	2
52	392 0022	Lockwasher.....	2



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LITHO'D IN CANADA

SECTION 07/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

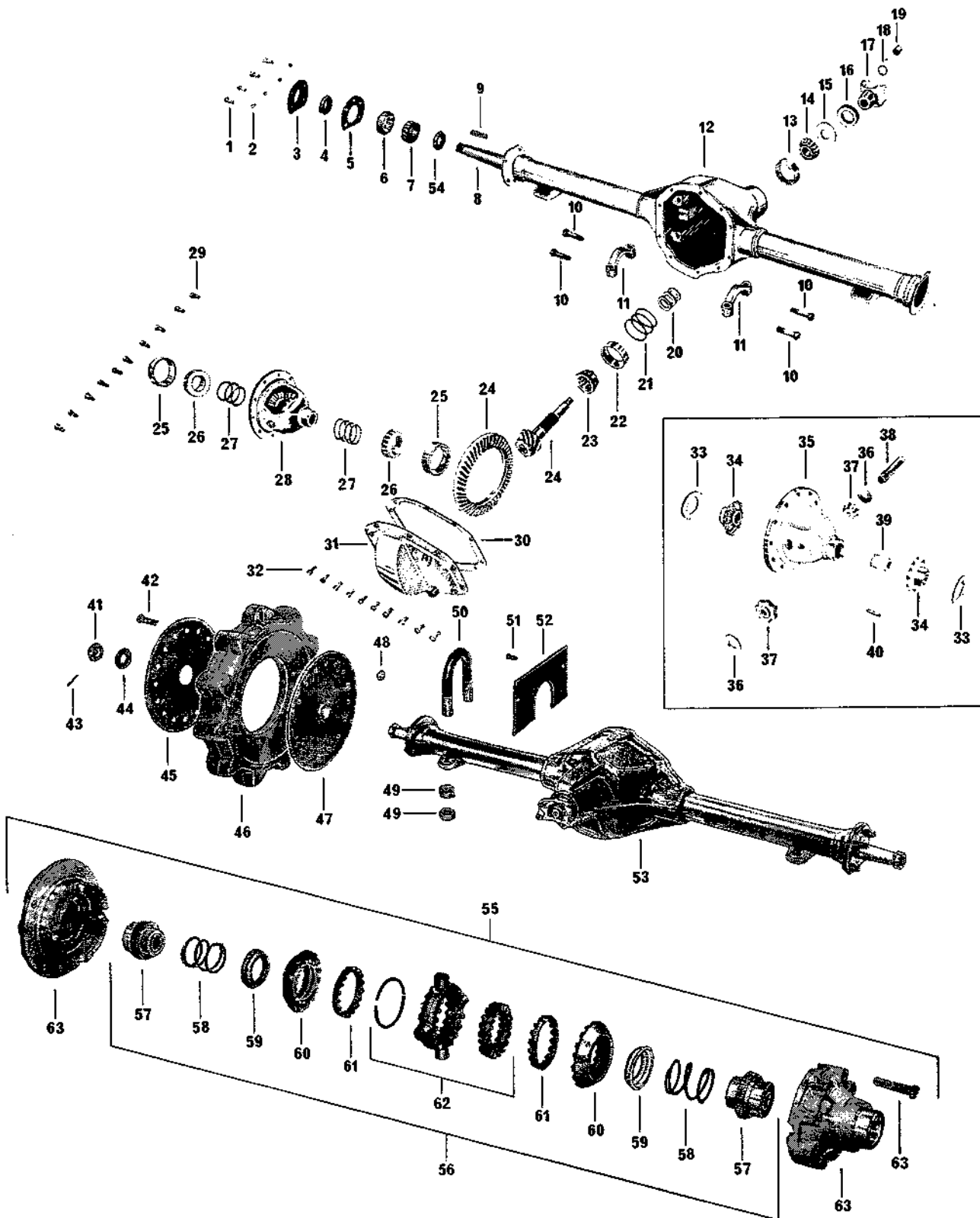
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	607 0101	Rod - brake (see note A).....	1
2	607 0020	Bracket - brake return spring.....	1
3	380 7022	Nut.....	3
4	114 0062	Clevis - brake rod.....	1
5	300 0046	Bolt.....	1
6	604 0037	Lever - brake cam.....	2
7	102 4034	Link - brake.....	1
8	102 4043	Bolt - brake adjusting.....	1
9	102 4017	Pin - clevis.....	1
10	102 4035	Pin - clevis.....	1
11	102 4008	Spring - adjusting bolt.....	2
12	119 1111	Nut - adjusting.....	2
13		Lockwire.....	1
14	102 4042	Screw - anchor clip.....	1
15	102 4005	Spring - anchor clip.....	1
16	380 9019	Nut - brake adjusting screw.....	2
17	119 1168	Rivet.....	16
18	101 4001	Lining - (sold by inch).....	As req'd
19	371 0011	Pin - cotter.....	3
20	102 4033	Ass'y - brake band & lining.....	1
21	102 4045	Screw - brake bracket adjusting.....	1
22	607 0015	Spring - return.....	1
23	604 0108	Bracket - brake.....	1
24	102 2181	Nut - mainshaft.....	1
25	102 2352	Washer - mainshaft.....	1
26	102 4057	Nut - drum bolt.....	4
27	102 4032	Drum - brake.....	1
28	102 2266	Flange - mainshaft.....	1
29	102 4044	Bolt - brake drum.....	4
30	609 0037	Bolt - pedal.....	1
31	392 0024	Lockwasher.....	1
32	609 0030	Pedal - clutch.....	1
33	607 0011	Pedal - brake.....	1
34	610 0056	Pedal - accelerator.....	1
35	380 6024	Nut.....	1
36	670 0901	Pad - pedal.....	2
-	607 0019	Rod - brake (see note B).....	1
		Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V	
		Note B: Used on snowmobile before serial number AA 70-6010 V	

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LITHO'D IN CANADA

SECTION 07/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



BOMBARDIER LTD/LTEE

SECTION 01&08/1 - 1st PRINT
1st MODEL (ISSUE 1)

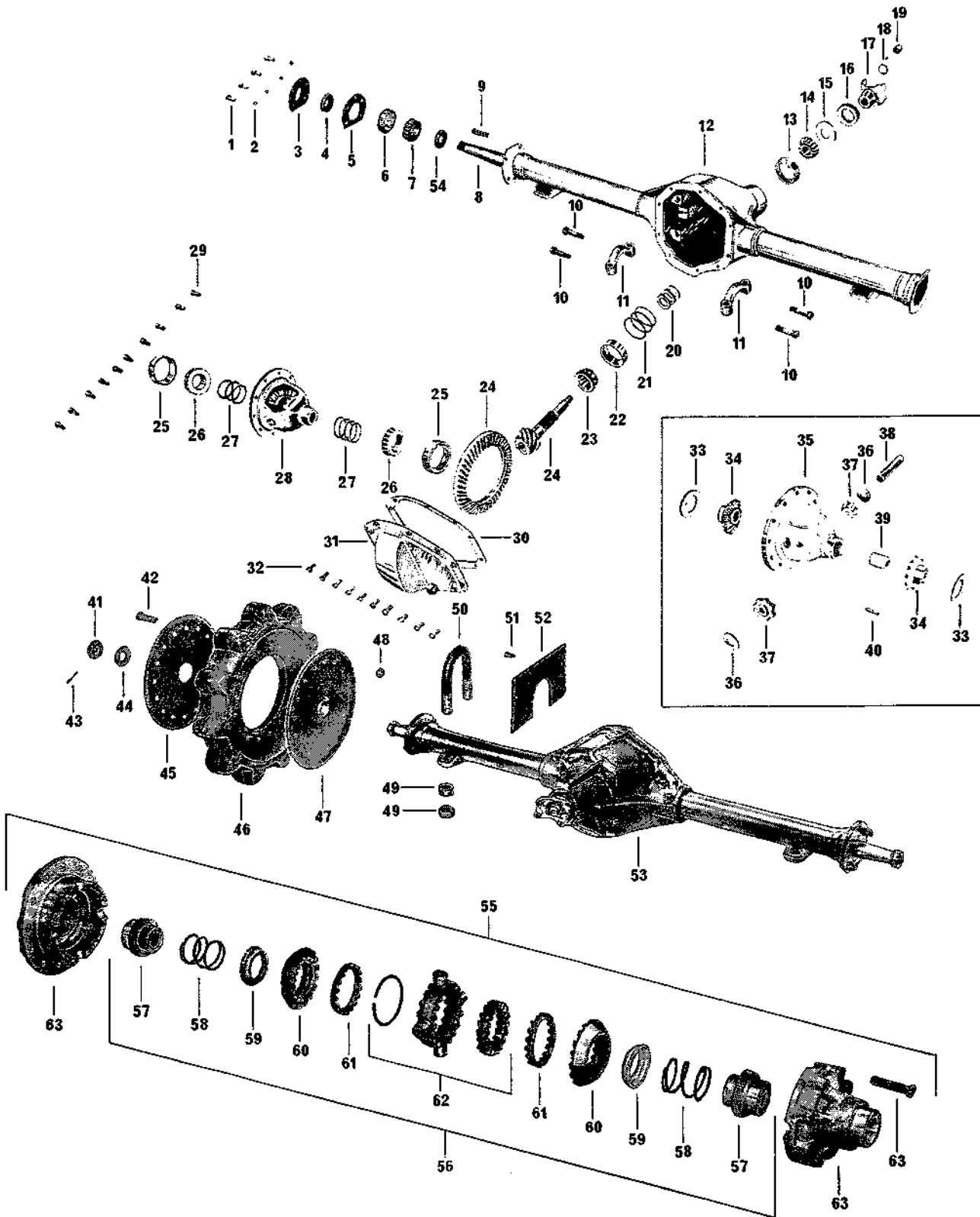
LITHO'D IN CANADA

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			A	B
1	103 1049	Bolt.....	8	8
2	103 1047	Nut.....	8	8
3	660 8005	Retainer - axle shaft.....	2	2
4	106 3004	Seal - bearing.....	2	2
5	103 1043	Shim .005".....	As req'd	As req'd
5	103 1044	Shim .010".....	"	"
5	103 1045	Shim .030".....	"	"
6	105 0054	Cup - bearing.....	2	2
7	105 0056	Cone - bearing.....	2	2
8	103 1102	Shaft - drive axle.....	2	-
8	608 0089	Shaft - drive axle.....	-	2
9	103 1092	Key - axle shaft.....	1	1
10	103 1105	Bolt.....	4	4
11	103 1104	Cap - differential bearing.....	2	2
12	103 1023	Ass'y - housing.....	1	1
13	105 0060	Cup - bearing.....	1	1
14	105 0058	Cone - bearing.....	1	1
15	103 1021	Slinger - oil.....	1	1
16	103 1116	Seal - oil.....	1	-
16	103 1018	Seal - oil.....	-	1
17	103 1117	Yoke - end.....	1	-
17	103 0032	Yoke - end.....	-	1
18	103 1016	Washer.....	2	2
19	103 1014	Nut - drive pinion.....	1	1
20	103 1026	Shim .003".....	As req'd	As req'd
20	103 1027	Shim .005".....	"	"
20	103 1028	Shim .010".....	"	"
20	103 1029	Shim .030".....	"	"
21	103 1034	Shim .003".....	"	"
21	103 1035	Shim .005".....	"	"
21	103 1036	Shim .010".....	"	"
22	105 0062	Cup - bearing.....	1	1
23	105 0064	Cone - bearing.....	1	1
24	103 1113	Ass'y - drive gear & pinion.....	1	-
24	103 1040	Ass'y - drive gear & pinion.....	-	1
25	105 0065	Cup - bearing.....	2	2
26	105 0066	Cone - bearing.....	2	2
27	103 1051	Shim .003".....	As req'd	As req'd
27	103 1052	Shim .005".....	"	"
27	103 1053	Shim .010".....	"	"
27	103 1054	Shim .030".....	"	"
28	103 1112	Ass'y - case differential.....	1	-
28	103 1059	Ass'y - case differential.....	-	1
29	103 1063	Bolt.....	12	12
30	103 1120	Gasket.....	1	-
30	103 1065	Gasket.....	-	1
31	103 1064	Cover with plug.....	1	-
31	103 1067	Cover with plug.....	-	1
32	103 1122	Bolt.....	10	-

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LITHO'D IN CANADA

SECTION 01&08/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

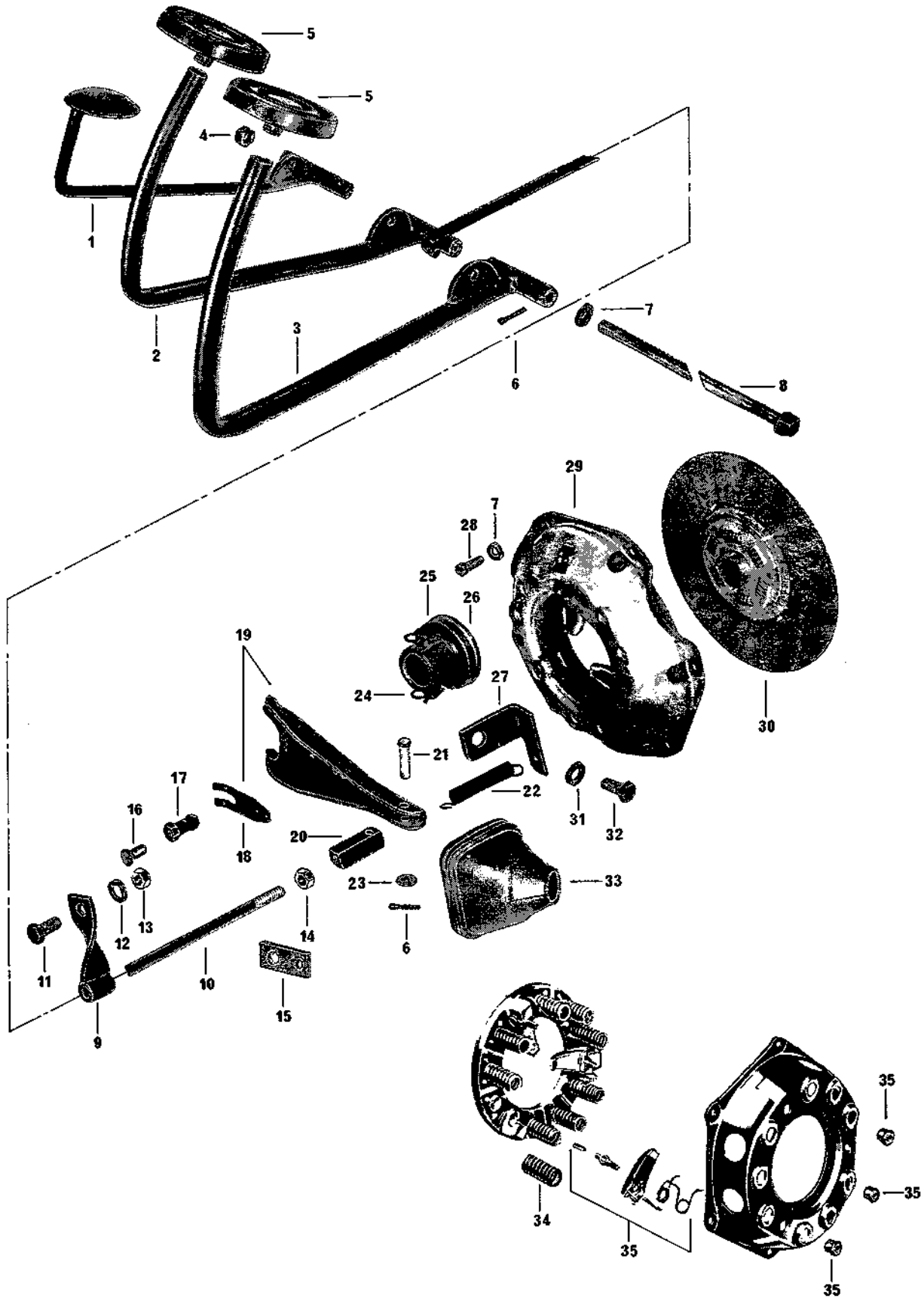
REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			A	B
32	103 1068	Screw & washer.....	-	10
33	103 1072	Washer - thrust.....	2	2
34	103 1109	Gear.....	4	-
34	103 1074	Gear.....	-	4
35	103 1060	Case.....	1	1
36	103 1078	Washer - thrust.....	2	2
37	103 1110	Pinion.....	2	-
37	103 1076	Pinion.....	-	2
38	103 1080	Shaft.....	1	1
39	103 1111	Spacer.....	1	-
39	103 1032	Spacer.....	-	1
40	103 1084	Lock.....	1	1
41	103 1121	Nut - for axle shaft.....	2	2
42	387 2024	Nut.....	32	32
43	371 0061	Pin - cotter.....	2	2
44	602 0025	Washer - spindle.....	2	2
45	601 0061	Flange - removable hub.....	2	2
46	670 0105	Sprocket.....	2	2
47	601 0060	Flange - hub.....	2	2
48	387 2024	Nut.....	32	32
49	380 6035	Nut.....	8	8
50	608 0068	"U" bolt.....	2	2
51	365 0002	Screw.....	4	4
52	608 0069	Plate.....	2	2
53	660 8013	Ass'y - differential.....	1	1
54	103 1119	Seal.....	4	4
55	103 1101	Ass'y - silent - type no spin differential and case.....	1	1
56	103 1123	Ass'y - silent - type no spin differential (less case).....	1	1
57	103 1130	Gear - side.....	2	2
58	103 1129	Spring.....	2	2
59	103 1128	Retainer - spring.....	2	2
60	103 1127	Clutch - driven.....	2	2
61	103 1126	Ring - hold out.....	2	2
62	103 1125	Ass'y - spider, snap ring & center cam.....	1	1
63	103 1124	Ass'y - differential case & bolt (both halves).....	1	1
		Note: A - Used with the differential consisting of 30 splines on the axle shaft.		
		Note: B - Used with the differential consisting of 16 splines on the axle shaft.		

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LITHO'D IN CANADA

SECTION 01&08/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



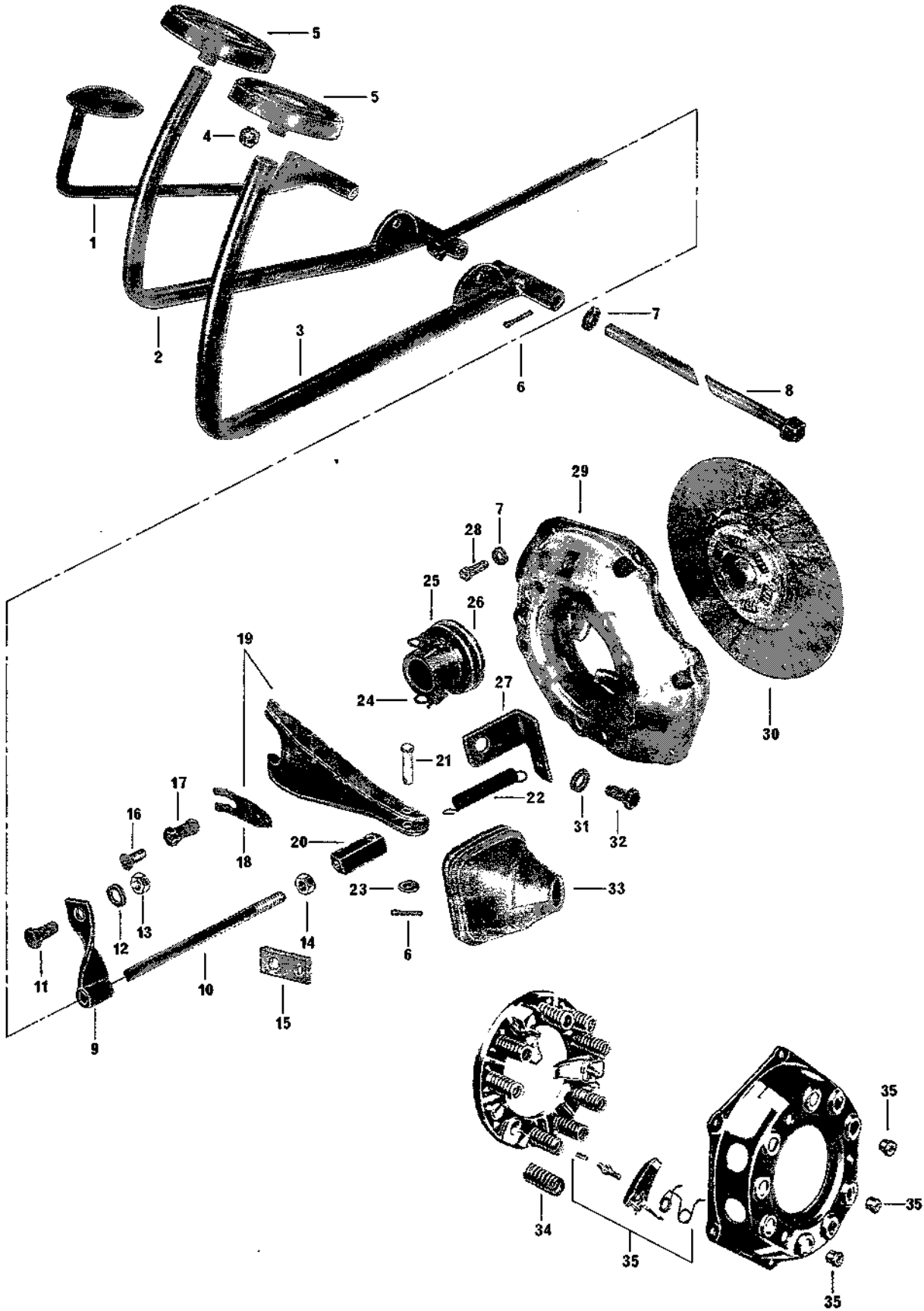
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	610 0056	Pedal - accelerator.....	1
2	607 0011	Pedal - brake.....	1
3	609 0030	Pedal - clutch.....	1
4	380 6024	Nut.....	1
5	670 0901	Pad - pedal.....	2
6	371 0011	Pin - cotter.....	2
7	392 0024	Lockwasher.....	7
8	609 0037	Bolt - pedal.....	1
9 a	609 0071	Guide.....	1
10 a	609 0072	Rod - clutch.....	1
11	300 0041	Bolt.....	1
12	392 0022	Lockwasher.....	1
13	380 6022	Nut.....	1
14	380 7022	Nut.....	1
15 a	607 0020	Adjuster - spring.....	1
16 a	102 6078	Screw & washer (clutch release fork pivot).....	1
17 a	102 6069	Pivot (clutch release fork).....	1
18 a	102 6068	Spring (clutch release fork pivot)...	1
19 a	102 6061	Ass'y - clutch release fork & spring.	1
20	609 0075	Adjuster - clutch rod.....	1
21	114 0051	Pin - clevis.....	1
22	607 0015	Spring return.....	1
23	391 0024	Flat washer.....	1
24 a	102 6066	Spring - clutch release brg. pull back.....	2
25 a	102 6067	Ass'y - clutch rel. brg & sleeve complete.....	1
26 a	102 6006	Bearing (without sleeve).....	1
27 a	102 6073	Bracket.....	1
28	102 6065	Screw - clutch cover to flywheel.....	6
29 a	102 6063	Ass'y - clutch cover & press palte...	1
30 a	102 6064	Disc. - clutch (12" dia.).....	1
31	392 0026	Lockwasher.....	1
32	300 4121	Bolt.....	1
33 a	102 6070	Seal - clutch release fork.....	1
34 a	102 6041	Spring - clutch pressure.....	9
35 a	102 6077	Package - lever.....	3
- b	609 0036	Guide.....	1
- b	609 0034	Rod - clutch.....	1
- b	609 0017	Lever - clutch release fork.....	1
- b	102 6046	Ass'y - clutch driving disc.....	1
- b	102 6049	Ass'y - cover & pressure plate.....	1
- b	102 6056	Screw - clutch cover to flywheel.....	6
- b	102 6029	Ass'y - clutch release brg. & sleeve.	1
- b	102 6007	Spring - clutch release brg. pull back	1
- b	102 6055	Screw - clutch release brg. pull back spring.....	1
- b	102 6059	Fork - clutch release.....	1
- b	102 6042	Flange - clutch release fork.....	1
- b	301 2042	Screw - clutch release fork flange...	1

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LITHO'D IN CANADA

SECTION 09/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



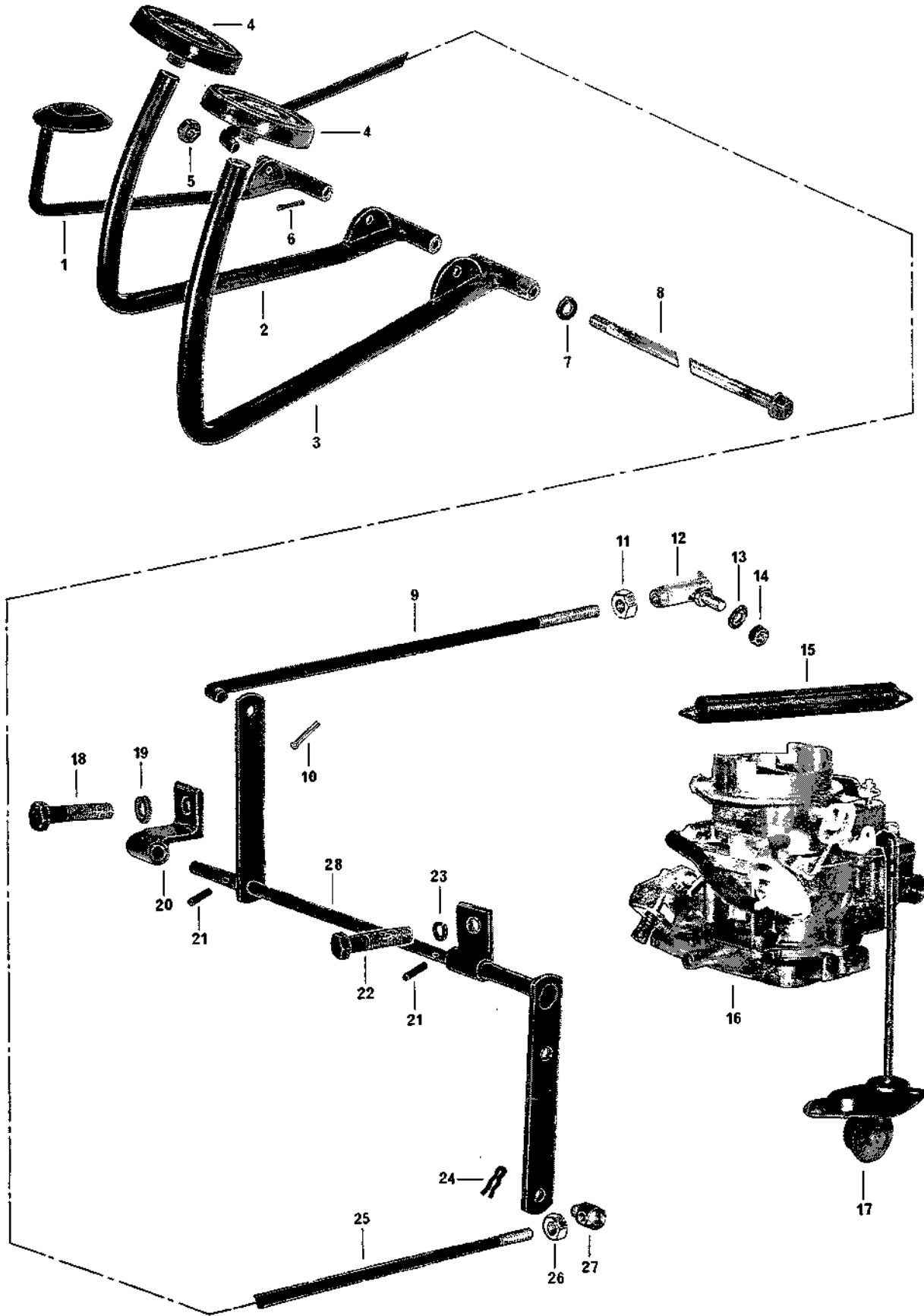
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
- b	392 0022	Lockwasher - release fork flange screw.....	1
- b	102 6001	Collar - clutch adjust.....	1
- b	102 6054	Set screw - clutch adjust collar.....	2
- b	380 9022	Nut - clutch adjust collar set screw.	2
- b	392 0024	Screw & lockwasher - clutch adjust collar.....	1
- b	102 6004	Key - clutch adjust collar.....	1
		Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V	
		Note B: Used on snowmobile before serial number AA 70 - 6010 V	

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 09/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



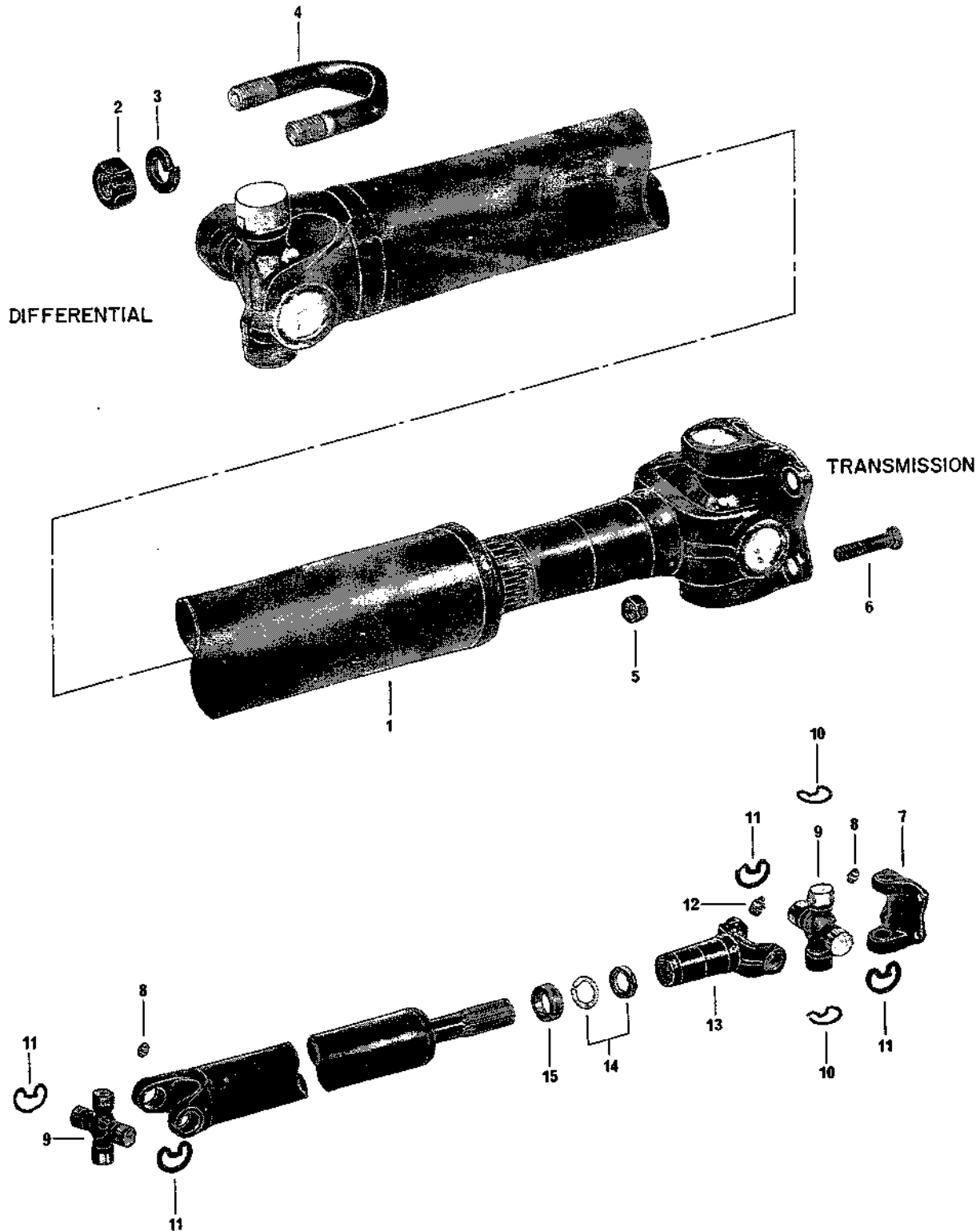
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	610 0056	Pedal - accelerator.....	1
2	607 0011	Pedal - brake.....	1
3	609 0030	Pedal - clutch.....	1
4	670 0901	Pad - pedal.....	2
5	380 6024	Nut (pedal).....	1
6	371 0011	Pin - cotter.....	1
7	392 0024	Lockwasher.....	1
8	609 0037	Bolt - pedal.....	1
9	610 0114	Rod - throttle.....	1
10	371 0002	Pin - cotter.....	1
11	380 6019	Nut (throttle ball joint).....	1
12	101 3001	Ball - joint throttle.....	1
13	392 0019	Lockwasher.....	1
14	380 6019	Nut.....	1
15	610 0010	Spring - throttle rod return.....	1
16	102 3129	Ass'y - carburator.....	1
17	102 3130	Ass'y - automatic choke control.....	1
18	300 4081	Bolt.....	1
19	392 0024	Lockwasher.....	1
20	610 0112	Bracket - right hand throttle cross shaft.....	1
21	372 1000	Pin - roll.....	2
22	300 4041	Bolt.....	1
23	392 0022	Lockwasher.....	1
24	101 8005	Clip - swivel.....	1
25	610 0117	Rod - accelerator(see note A).....	1
26	380 6019	Nut - swivel.....	1
27	610 0012	Swivel.....	1
28	610 0113	Cross shaft - throttle.....	1
-	610 0055	Rod - accelerator (see note B).....	1
-	610 0043	Bracket - throttle lever (see note B)	1
-	610 0044	Rod - lever (see note B).....	1
-	101 3001	Rod - governor throttle (see note B).	1
		Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V	
		Note B: Used on snowmobile before serial number AA 70 - 6010 V	

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 10/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



DIFFERENTIAL

TRANSMISSION

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 11/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

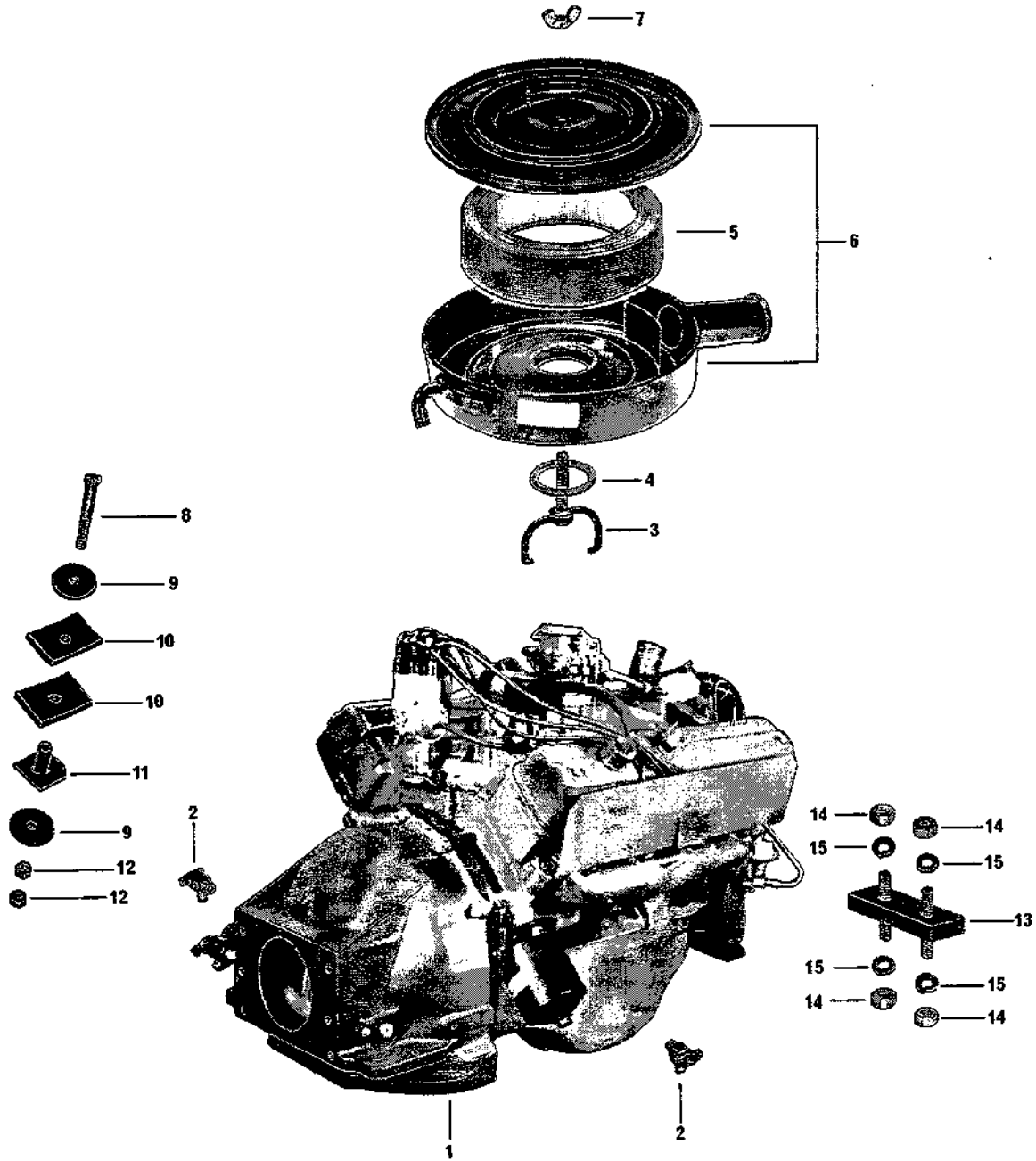
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	103 0018	Ass'y - propeller shaft.....	1
2	380 7022	Nut.....	4
3	392 0022	Lockwasher.....	4
4	103 0030	"U" bolt.....	2
5	102 4057	Nut (trans.).....	4
6	102 4044	Bolt (trans.).....	4
7	103 0008	Flange.....	1
8	108 2010	Fitting - grease.....	2
9	103 0050	Ass'y - journal joint.....	2
10	103 0047	Ring - snap.....	2
11	103 0054	Ring - snap.....	4
12	108 2005	Fitting - grease.....	1
13	103 0051	Sleeve.....	1
14	103 0053	Washer - cork.....	1
15	103 0052	Cap - dust.....	1

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LITHO'D IN CANADA

SECTION 11/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



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LITHO'D IN CANADA

SECTION 12/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

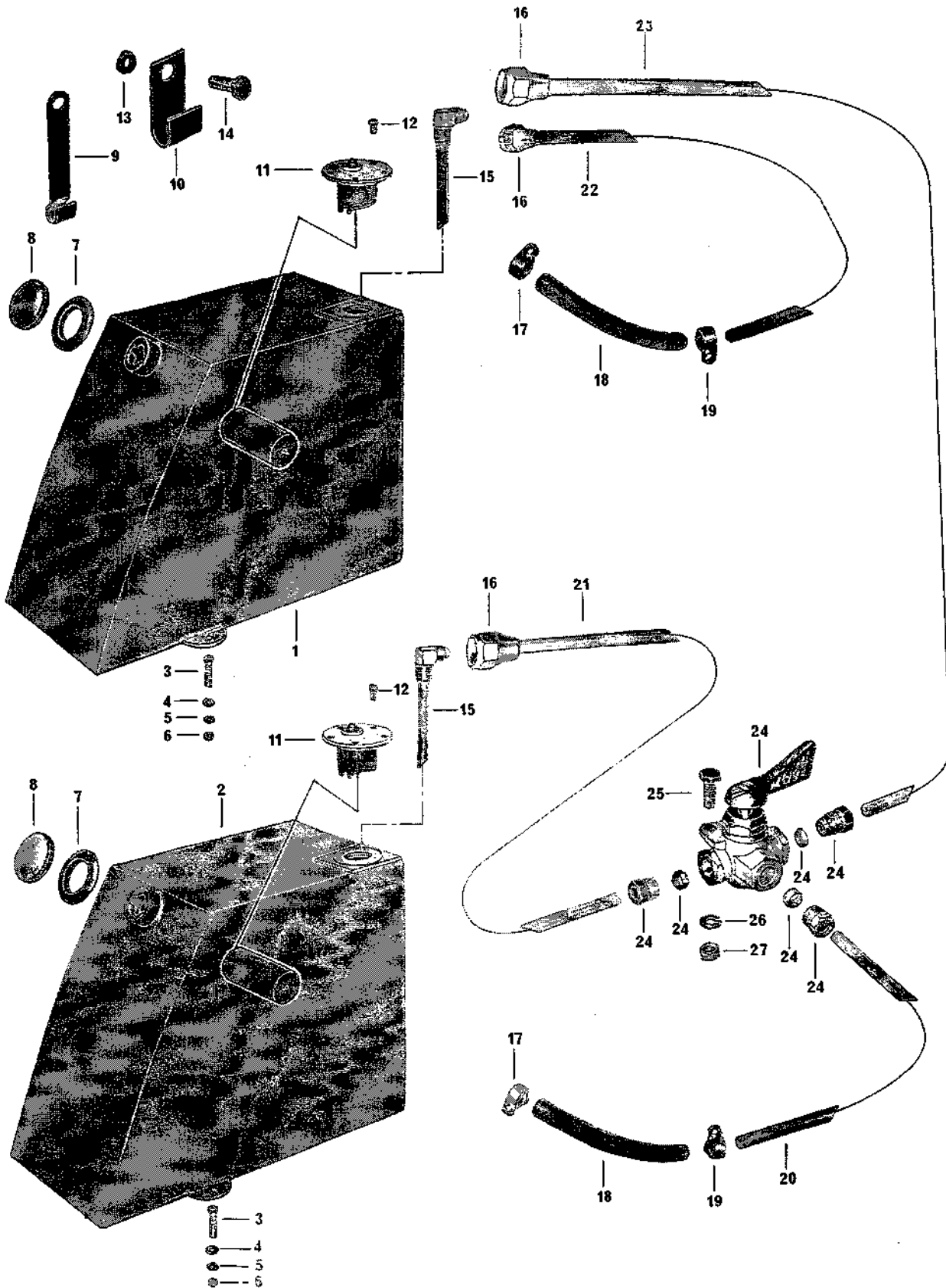
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	100 3006	Motor V-8.....	1
2	108 0019	Cock - drain.....	2
3	102 3125	Clamp.....	1
4 a	102 3120	Gasket (air cleaner to carburator)...	1
5 a	102 3122	Element -air cleaner.....	1
6 a	102 3119	Ass'y - air cleaner.....	1
7	386 4022	Nut - wing.....	1
8 a	300 0131	Bolt (rear motor support).....	2
9 a	612 0023	Washer - rear motor support.....	4
10 a	670 1207	Insulator rubber - rear motor support	4
11 a	661 2006	Spacer - rear motor support.....	2
12 a	380 6026	Nut - rear motor support.....	4
13	102 9270	Insulator with screw - front motor support.....	1
14	380 6024	Nut - front motor support.....	4
15	392 0024	Lockwasher - front motor support.....	4
- b	101 9006	Gasket (air cleaner to carburator)...	1
- b	102 3119	Ass'y - air cleaner.....	1
- b	300 0133	Bolt (rear motor).....	2
- b	670 1203	Spacer - rubber.....	2
- b	661 2005	Insulator.....	2
- b	604 0032	Sleeve - bell housing.....	2
- b	391 0027	Flatwasher.....	2
- b	100 3001	Motor V-8.....	1
- b	107 9007	Set - V belt.....	1
		Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V	
		Note B: Used on snowmobile before serial number AA 70 - 6010 V	

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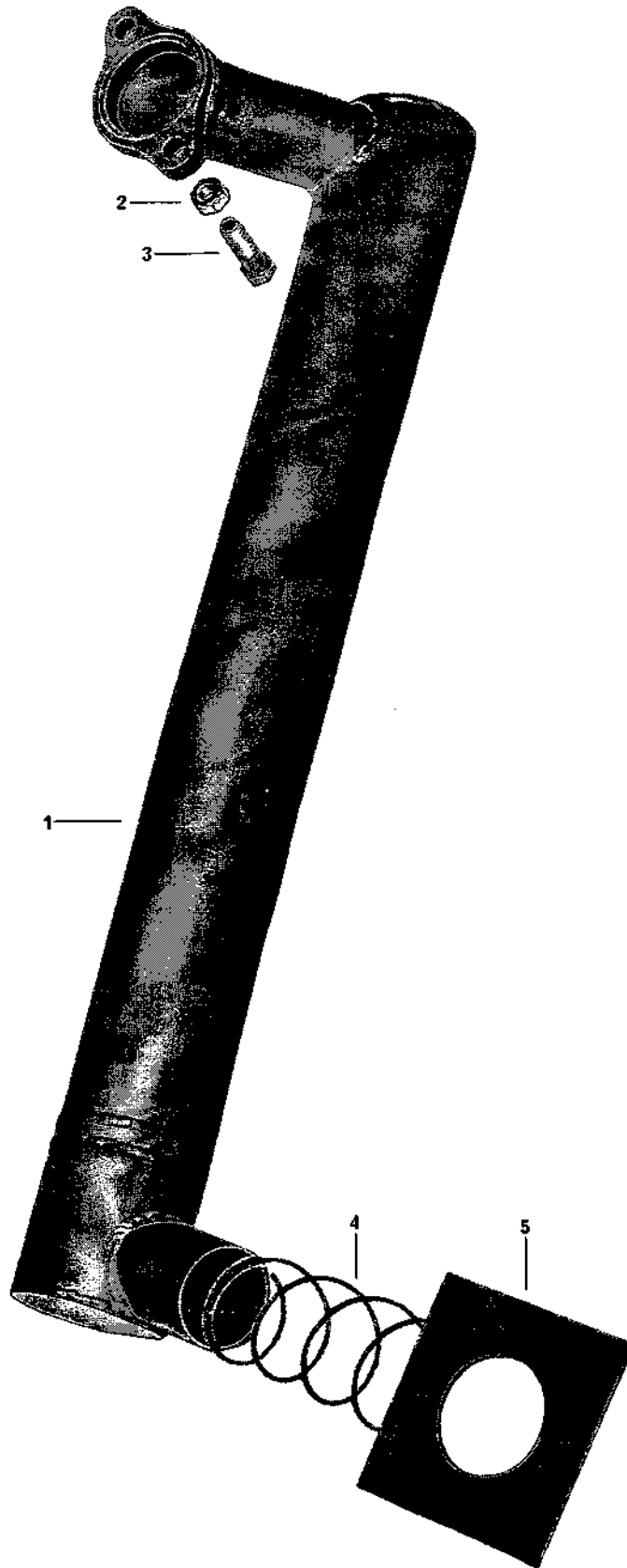
LITHO'D IN CANADA

SECTION 12/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			OPT.	STD.
1	613 0007	Tank - fuel.....	-	1
2	613 0010	Tank - fuel.....	1	-
3	300 0043	Bolt.....	2	2
4	391 0023	Flatwasher.....	2	2
5	392 0022	Lockwasher.....	2	2
6	380 7022	Nut.....	2	2
7	670 1301	Insulator - rubber.....	1	1
8	114 0010	Cap- fuel tank.....	1	1
9	615 0047	Clip.....	-	1
10	613 0027	Bracket - fuel line.....	1	1
11	110 0006	Gauge & gasket - fuel tank.....	1	1
12	321 6061	Bolt.....	5	5
13	392 0024	Lockwasher.....	1	1
14	300 4080	Bolt.....	1	1
15	613 0028	Pipe - suction.....	1	1
16	108 0020	Nut - flared.....	2	1
17	102 3002	Clamp - hose.....	1	1
18	102 3087	Hose - fuel pump inlet.....	1	1
19	108 8006	Clamp - hose.....	1	1
20	613 0039	Line - fuel (valve to pump).....	1	-
21	613 0038	Line - fuel (R.H. tank to valve)..	1	-
22	613 0036	Line - fuel (tank to pump).....	-	1
23	613 0037	Line - fuel (L.H. tank to valve)..	1	-
24	108 0007	Valve - 3 ways.....	1	-
25	321 6102	Bolt.....	2	-
26	392 0019	Lockwasher.....	2	-
27	380 9019	Nut.....	2	-



REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	614 0061	Muffler - left hand (see note A).....	1
1	614 0060	Muffler - right hand (see note A)....	1
2	389 8002	Nut.....	8
3	300 0126	Bolt.....	4
4	614 0025	Spring - muffler outlet pipe.....	2
5	614 0024	Plate - spring seat.....	2
-	614 0030	Muffler - left hand (see note B).....	1
-	614 0029	Muffler - right hand (see note B)....	1
-	102 1016	Gasket (see note B).....	2
		Note A: Used on snowmobile starting at and after serial number AA 70 - 6010 V	
		Note B: Used on snowmobile before serial number AA 70 - 6010 V	

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 14/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
110 1011	Switch - dimmer.....	1
392 0019	Lockwasher.....	2
321 7100	Bolt.....	2
110 7010	Motor - wiper.....	2
321 7061	Bolt.....	2
399 9001	Flatwasher.....	2
392 0014	Lockwasher.....	2
385 7013	Nut.....	2
110 7011	Arm - wiper.....	2
110 7004	Blade - wiper.....	2
110 9001	Breaker - circuit.....	1
321 7061	Bolt.....	1
392 0014	Lockwasher.....	1
385 7013	Nut.....	1
410 5005	Bulb - tail lamp.....	2
110 0016	Ammeter gauge dash.....	1
110 0019	Temperature gauge dash.....	1
110 0003	Fuel gauge dash.....	1
110 0011	Oil gauge dash.....	1
114 0055	Speedometer.....	1
110 1001	Ignition switch.....	1
101 8001	Starter switch.....	1
110 1002	Head light switch.....	4
110 1013	Heater switch.....	1
109 5013	Wire (circuit breaker to ammeter).....	1
109 5011	Wire (circuit breaker to headlamp sw.).....	1
109 5020	Wire (ignition sw. to heater sw.).....	1
109 5014	Wire (temp. gauge to fuel & oil gauge).....	1
661 5010	Wire sub-ass'y - (wiper sw. to wiper motor).....	2
110 7012	Fuse holder.....	2
110 7013	Fuse.....	2
114 0106	Housing (multiple 12").....	As req'd
615 0013	Wire sub-ass'y (wiper sw. L.H. to wiper sw. R.H.).....	1
109 4008	Wire (ignition sw. to wiper sw. L.H.).....	1
109 5012	Wire (circuit breaker to dome light switch).....	1
110 9019	Motor - heater.....	1
615 0013	Ass'y - wire (fan motor to ground).....	1
409 0007	Terminal.....	2
409 0001	Connector - snap.....	1
110 6023	Ass'y - tail lamp.....	2
321 7100	Bolt.....	4
385 8019	Nut.....	4
409 0002	Terminal - snap.....	2
409 0001	Terminal - snap.....	2
107 9005	Grommet - rubber.....	2
365 0002	Bolt.....	2
615 0020	Housing - headlight.....	2
360 4081	Bolt.....	2
615 0012	Seat - headlight.....	2
670 1501	Rubber - headlight support.....	2
391 0029	Flatwasher.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 15/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
385 1024	Nut.....	2
109 0007	Terminal - snap.....	6
110 9021	Clip - headlamp connector.....	6
109 1001	Connector-headlamp.....	2
110 6006	Beamp sealed (12 volts).....	2
615 0021	Ring - headlight.....	2
321 7063	Bolt.....	2
385 1013	Nut.....	2
109 5019	Ass'y - wire (dome lg. sw. to dome light)...	1
409 0001	Connector - snap.....	1
110 6008	Ass'y - dome lamp.....	1
392 0014	Lockwasher (dome lamp).....	4
385 4013	Nut (dome lamp).....	4
114 0151	Ass'y - cable speedometer with housing.....	1
109 4032	Ass'y - wiring harness.....	1
102 8111	Switch - solenoid (12 volts).....	1
321 6100	Bolt.....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
392 0022	Lockwasher.....	2
380 9022	Nut.....	2
109 5003	Cable - battery.....	1
385 4013	Nut.....	1
110 9013	Ass'y - horn.....	1
109 5011	Ass'y - wire (circuit breaker to ing. & str.	1
615 0062	Ass'y - wire (horn button to connector).....	1
615 0063	Housing.....	1
110 9015	Relay - horn.....	1
321 6100	Bolt.....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
102 8159	Regulator.....	1
363 0121	Bolt.....	2
320 1060	Bolt.....	1
392 0014	Lockwasher.....	1
300 0131	Bolt.....	2
110 0014	Sender - oil.....	1
110 0030	Sender - temperature gauge.....	1
109 5002	Battery cable.....	1
391 0025	Flatwasher.....	1
109 5001	Cable.....	1
391 0023	Flatwasher.....	1
392 0022	Lockwasher.....	1
615 0047	Clip - wiring.....	4
102 8163	Cover - alternator bakelite.....	1
391 0021	Flatwasher.....	1
392 0019	Lockwasher.....	1
380 9019	Nut.....	1
365 0002	Bolt.....	1
392 0014	Lockwasher.....	1
670 1502	Insulator - battery shock.....	1
110 3002	Battery.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 15/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
615 0004	Bracket - battery.....	1
360 4026	Bolt.....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
110 0029	Meter - hour.....	1
661 5011	Ass'y - wire (wiper sw. to hour meter).....	1
661 5012	Ass'y - wire (hour meter to ground).....	1
110 9026	Meter - tachometer (optional).....	1
110 9029	Sender - tachometer (optional).....	1
615 0092	Ass'y - wire (sender to distributor)optional	1
615 0013	Ass'y - wire (heater motor to ground).....	1
110 1010	Switch - toggle (optional fuel tank).....	1
615 0013	Ass'y - wire (optional fuel gauge dash to toggle switch).....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 15/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

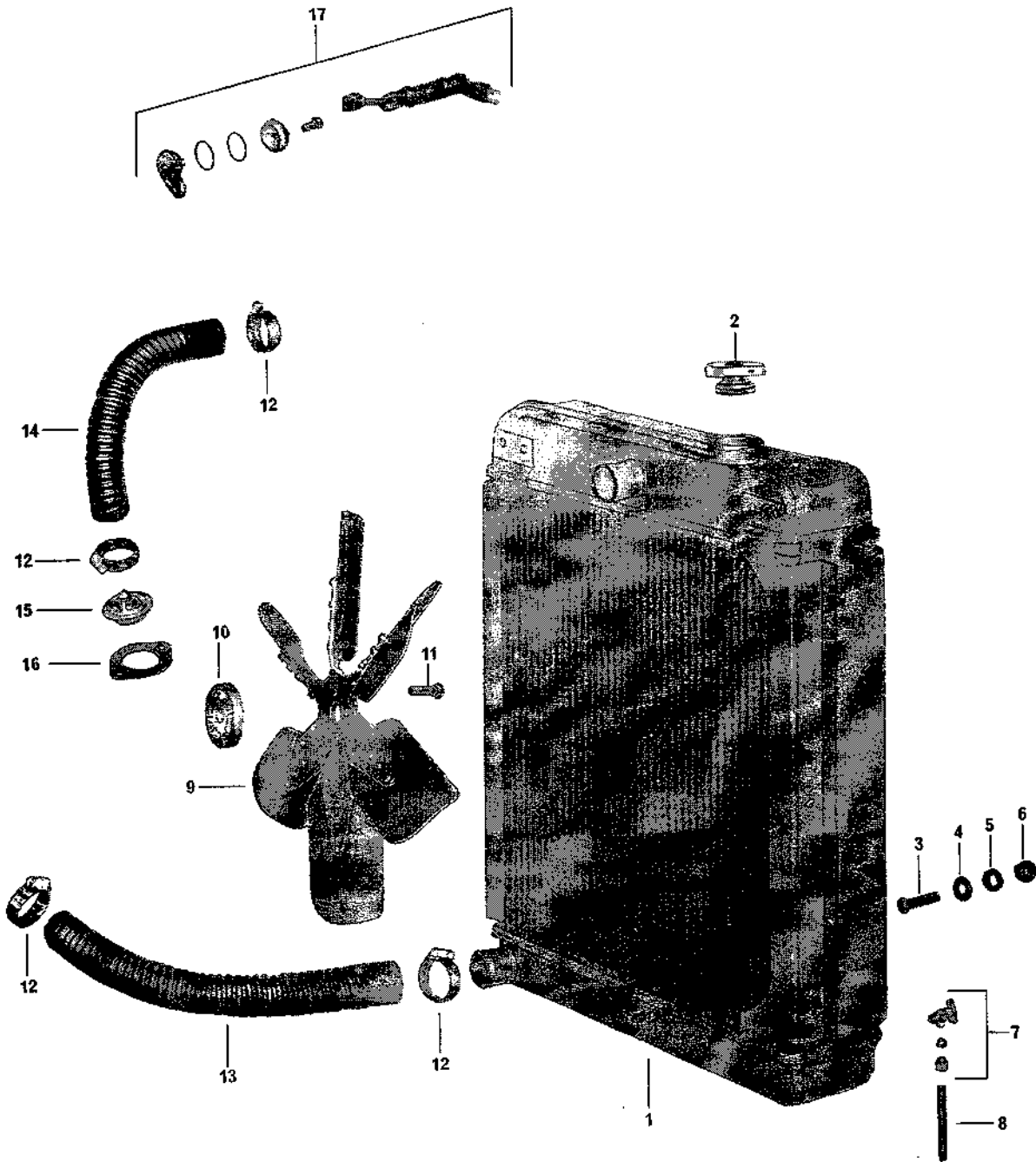
PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
409 6016	Wire - 12 gal. red (multiple 12").....	As req'd
264 4003	Wire - 12 gal. yellow (multiple 12").....	As req'd
409 6025	Wire - 14 gal. red (multiple 12").....	As req'd
264 4006	Wire - 14 gal. black (multiple 12").....	As req'd
109 5041	Wire - 14 gal. orange (multiple 12").....	As req'd
409 6021	Wire - 16 gal. black (multiple 12").....	As req'd
409 6019	Wire - 16 gal. yellow/red stripped (multiple 12").....	As req'd
409 6022	Wire - 16 gal. yellow (multiple 12").....	As req'd
409 6020	Wire - 16 gal. brown (multiple 12").....	As req'd
409 6018	Wire - 16 gal. red (multiple 12").....	As req'd
409 6028	Wire - 16 gal. red/white stripped (multiple 12").....	As req'd
109 5030	Wire - 16 gal. white (multiple 12").....	As req'd
109 5025	Wire - 16 gal. green (multiple 12").....	As req'd
409 6010	Wire - 18 gal. white (multiple 12").....	As req'd
109 5042	Wire - 18 gal. yellow/red stripped (multiple 12").....	As req'd
109 5044	Wire - 18 gal. orange (multiple 12").....	As req'd
109 5045	Wire - 18 gal. violet (multiple 12").....	As req'd

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 15/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.



REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	114 0170	Ass'y - radiator (see note A).....	1
2	114 0011	Cap - radiator.....	1
3	321 7103	Bolt.....	4
4	399 9015	Flatwasher.....	4
5	392 0019	Lockwasher.....	4
6	385 8019	Nut.....	4
7	108 0002	Cock - radiator drain.....	1
8	616 0037	Drain cock - extension tube.....	1
9	101 9010	Fan (see note A).....	1
10	661 6005	Spacer - fan.....	1
11	300 4046	Bolt.....	4
12	108 8007	Clamp - worm gear hose.....	4
13	107 4017	Hose - radiator (lower) (see note A).	1
14	107 4011	Hose - radiator (upper) (see note A).	1
15	102 9512	Thermostat 160.....	1
16	101 9008	Gasket - elbow.....	1
17	102 9303	Heater - engine water (400 w.).....	2
-	102 9097	Fan (see note B).....	1
-	670 1601	Reducer - hose (see note B).....	1
-	616 0045	Hose - radiator (see note B).....	1
-	114 0014	Ass'y - radiator (see note B).....	1
-	616 0005	Hose - radiator metal (see note B)...	1
-	107 4001	Hose - radiator (lower) (see note B).	2
<p>Note A: Used on snowmobile starting at and after serial number AA 70-6010 V</p> <p>Note B: Used on snowmobile before serial number AA 70 - 6010 V</p>			

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 16/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

COOLING (HEATER & DEFROSTER) SNOWMOBILE (CHAUFFERETTE & DEGIVREUR) REFROIDISSEMENT

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
107 5001	Hose - heater (multiple 12").....	As req'd
108 8004	Clamp - hose.....	4
108 0024	Adapter.....	1
616 0020	Elbow - heater.....	2
114 0349	Nozzle - defroster.....	2
320 1061	Bolt.....	4
392 0014	Lockwasher.....	4
385 5013	Nut.....	4
107 5002	Hose - defroster (multiple 12").....	As req'd
616 0070	Bracket - heater.....	1
616 0079	Core & housing - heater.....	1
107 7001	Seal (multiple 12").....	As req'd
390 4023	Rivet (core & housing).....	6
681 0129	Ass'y - blower (housing, impeller, motor)...	1
672 1601	Housing - blower.....	1
110 9019	Heater - motor.....	1
391 0014	Washer.....	2
385 5013	Nut.....	2
110 9020	Impeller - heater.....	1
390 4022	Rivet (blower & housing).....	1
616 0067	Distributor - heated air.....	1
616 0074	Bracket - side.....	1
320 0061	Bolt (side bracket).....	1
385 4013	Nut (side bracket).....	1
616 0066	Door - lever.....	1
320 0062	Bolt (door).....	1
385 4013	Nut (door).....	1
390 4014	Rivet (door).....	4
300 0001	Bolt (heater to body).....	4
392 0019	Lockwasher (heater to body).....	4
380 6019	Nut (heater to body).....	4
114 0145	Ass'y - defroster housing.....	1

BOMBARDIER LTD/LTEE
SECTION 16/3 - 1st PRINT
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0531	Kit - insulation.....	As req'd
617 0529	Clothe top.....	1
617 0180	Upper windshield clothe support.....	1
617 0185	Wire clothe support.....	6
617 0186	Wire clothe support.....	1
321 7061	Bolt.....	8
617 0188	Wire clothe support (short).....	1
617 0189	Wire clothe support (inter).....	4
617 0187	Wire clothe support (long).....	1
617 0434	Cardboard - R.H. front door upper.....	1
617 0433	Cardboard - L.H. front door upper.....	1
617 0435	Cardboard - R.H. side.....	1
617 0437	Cardboard - L.H. side.....	1
617 0438	Cardboard - L.H. middle side.....	1
617 0442	Cardboard - top side loading door.....	1
617 0353	Retainer top clothe.....	1
399 8002	Washer.....	3
363 3105	Bolt.....	2
617 0432	Cardboard - R.H. rear lower.....	1
617 0431	Cardboard - L.H. rear side.....	1
617 0441	Cardboard - R.H. engine top.....	1
617 0436	Cardboard - L.H. engine top.....	1
617 0190	Bracket - side cardboard.....	1
617 0191	Bracket - side cardboard.....	1
362 9103	Bolt.....	4
365 0002	Bolt.....	3
617 0428	Cardboard - R.H. rearsside.....	1
291 0021	Flatwasher.....	2
617 0429	Cardboard - R.H. rear mudguard.....	1
617 0430	Cardboard - L.H. rear mudguard.....	1
617 0426	Cardboard - R.H. front mudguard.....	1
617 0427	Cardboard - L.H. front mudguard.....	1
617 0355	Moulding - cardboard.....	2
368 9008	Nails.....	As req'd
617 0439	Cardboard - R.H. front.....	1
617 0179	Spring - front cardboard holder.....	1
617 0440	Cardboard - L.H. front.....	1
321 6043	Bolt.....	2
391 0014	Flatwasher.....	2
392 0014	Lockwasher.....	2
385 7011	Nut.....	2
670 1703	Retainer - side loading door.....	1
380 6019	Nut.....	1
324 8063	Bolt.....	1
392 0014	Lockwasher.....	3
385 7013	Nut.....	1
617 0199	Ring - escape roof.....	1
365 0001	Bolt.....	6
617 0492	Lock hatch roof.....	4
617 0493	Clip - retainer escape hatch.....	2
617 0494	Pin.....	2
617 0354	Bracket.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 17/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
355 0002	Bolt.....	2
617 0666	Panel instrument.....	1
321 7061	Bolt.....	5
392 0014	Lockwasher.....	5
385 7013	Nut.....	5
300 8001	Bolt.....	2
391 0021	Flatwasher.....	2
292 0019	Lockwasher.....	2
380 6019	Nut.....	2
617 0282	Board - rear floor.....	1
617 0302	Cover - sliding.....	1
617 0680	Bracket - front seat support.....	1
300 0084	Bolt.....	2
392 0024	Lockwasher.....	2
617 0481	Stiffener - R.H. inside.....	1
617 0197	Moulding - front side R.H.....	1
617 0482	Stiffener - R.H. rear inside.....	1
617 0195	Moulding - rear side R.H.....	1
617 0483	Stiffener - L.H. inside.....	1
617 0192	Moulding - L.H. side.....	1
266 4150	Bolt - 1 1/4" long.....	21
366 4149	Bolt 1" long.....	14
617 0183	Escape - hatch roof.....	1
617 0447	Bracket.....	1
617 0402	Door - right hand.....	1
617 0401	Door - left hand.....	1
617 0182	Hinge - door.....	8
617 0181	Washer - spacer.....	8
380 6019	Nut - door hinge.....	8
617 0361	Door - side loading.....	1
617 0295	Door - motor compartment (R.H.).....	1
617 0296	Door - motor compartment (L.H.).....	1
617 0261	Hinge - door.....	6
617 0181	Washer - spacer.....	6
380 6019	Nut - door hinge.....	6
617 0299	Door - rear.....	1
617 0495	Fender - rear door.....	2
390 9009	Rivet.....	10
617 0262	Hinge - door.....	2
617 0181	Washer - spacer.....	2
380 6019	Nut - door hinge.....	2
300 5004	Bolt.....	2
381 0019	Nut.....	2
617 0173	Rear door fen. fri. bl'k.....	4
392 0019	Lockwasher.....	2
391 0021	Flatwasher.....	2
617 0277	Board - toe & floor.....	1
321 7100	Bolt.....	2
392 0019	Lockwasher.....	2
385 8019	Nut.....	2
321 7102	Bolt.....	4
392 0019	Lockwasher.....	4

BOMBARDIER LTD/LTEE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
385 8019	Nut.....	4
670 0018	Rubber track guard.....	2
074 0003	Materiel - toit (multiple 36").....	As req'd
617 0688	Plate - R.H. radiator side (see note A).....	1
617 0687	Plate - L.H. radiator side (see note A).....	1
617 0686	Guard - radiator bottom air (see note A)....	1
321 7100	Bolt.....	12
392 0019	Lockwasher.....	12
385 8019	Nut.....	12
617 0683	Guard - radiator top air (see note A).....	1
321 7100	Bolt.....	6
392 0019	Lockwasher.....	6
385 8019	Nut.....	6
617 0209	Plate - R.H. radiator side (see note B).....	1
617 0212	Plate - L.H. radiator side (see note B).....	1
617 0152	Guard - radiator bottom air (see note B)....	1
617 0149	Guard - radiator top air (see note B).....	1
	Note A: Used on snowmobile starting at and after serial number AA 70 -6010 V	
	Note B: Used on snowmobile before serial number AA 70 - 6010 V	

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
111 0008	Glass - windshield.....	1
111 0012	Glass -side.....	4
111 0011	Glass - rear side.....	2
107 8001	Weather strip - glass (multiple 12").....	As req'd
114 0141	Window - R.H. front door.....	1
114 0140	Window - L.H. front door.....	1
390 4002	Rivet.....	34

BOMBARDIER LTD/LTEE

SECTION 17/3 - 1st PRINT

LITHO'D IN CANADA

1st MODEL

(ISSUE 1)

APRIL 1970.

BODY (CATCH)

SNOWMOBILE

CARROSSERIE (SERRURE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
371 0031	Pin - cotter.....	2
114 0072	Pull - door.....	2
363 0073	Bolt.....	8
681 0032	Ass'y - door handle & catch.....	3
661 7003	Case - catch.....	3
661 7005	Handle - door.....	3
661 7006	Latch.....	3
661 7004	Holder - latch.....	3
114 0030	Spring - latch.....	3
114 0076	Pin.....	3
371 0001	Pin - cotter.....	3
114 0075	Lock - door handle.....	3
320 0063	Bolt.....	12
320 1061	Bolt.....	12
392 0014	Lockwasher.....	12
661 7001	Ass'y - door handle & catch.....	2
320 1061	Bolt.....	4
392 0014	Lockwasher.....	4
385 5013	Nut.....	4
365 0002	Bolt.....	4
617 0269	Ass'y - pull rod & chain.....	3
617 0270	Pull - rod & chain rubber.....	3
362 9103	Bolt.....	3
670 1702	Retainer - door.....	2
321 7103	Bolt.....	2
391 0021	Flatwasher.....	2

BODY (SEAT)

SNOWMOBILE

CARROSSERIE (SIEGE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0680	Bracket - front seat support (see note B)...	1
617 0285	Seat - front (see note B).....	2
114 0038	Pad - backrest cushion (see note B).....	2
617 0278	Bolt - front seat support (see note B).....	2
380 6022	Nut (see note B).....	2
617 0198	Backrest hook (see note B).....	5
617 0219	Cover - front seat backrest cushion (see note B).....	2
617 0216	Cushion - front seat (see note B).....	2
	Note B: Used on snowmobile before serial number AA 9 - 5994 V	

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 17/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
680 0304	Ass'y operator's seat (see note A).....	1
617 0681	Base - operator's seat (see note A).....	1
114 0277	Seat adjuster - ball bearing (see note A)...	1
392 0022	Lockwasher.....	4
380 6022	Nut.....	4
114 0281	Ass'y - bucket seat (see note A).....	1
392 0019	Lockwasher.....	4
300 4004	Bolt.....	4
617 0681	Base - front seat (see note A).....	1
617 0679	Support - front seat (see note A).....	2
392 0022	Lockwasher.....	4
380 6022	Nut.....	4
114 0281	Ass'y - bucket seat (see note A).....	1
392 0019	Lockwasher.....	4
300 4004	Bolt.....	4
300 0044	Bolt - front seat support.....	4
387 2022	Nut.....	4
617 0198	Back - seat wood.....	5
366 4063	Screw - wood.....	10
617 0224	Ass'y - L.H. seat backrest.....	1
617 0498	Cover - material backrest side seat L.H.....	1
617 0286	Ass'y - R.H. seat backrest.....	1
617 0387	Cover - material backrest side seat R.H.....	1
617 0291	Ass'y - rear seat backrest.....	1
617 0292	Cover - material rear seat backrest.....	1
617 0326	Ass'y - door seat backrest.....	1
617 0499	Cover - material door seat backrest.....	1
363 3105	Bolt.....	2
399 9005	Flatwasher.....	2
617 0220	Ass'y - L.H. side seat.....	1
617 0221	Cover - material L.H. side seat.....	1
368 9003	Staple.....	As req'd
617 0406	Ass'y - R.H. side seat.....	1
617 0221	Cover.....	1
392 0019	Lockwasher.....	2
389 3019	Nut.....	2
617 0288	Ass'y - rear seat.....	1
617 0289	Cover - material rear seat (optional).....	1
617 0225	Ass'y - rear center seat.....	1
617 0226	Cover - material rear seat (optional).....	1
324 8106	Screw (optional).....	4
392 0019	Lockwasher (optional).....	4
385 8019	Nut (optional).....	4
074 0002	Materiel - coussin (multiple 36").....	As req'd
074 0005	Materiel - fond de si�ge (multiple 36").....	As req'd
	Note A: Used on snowmobile starting at and after serial number AA 5994 V	

BOMBARDIER LTD/LTEE

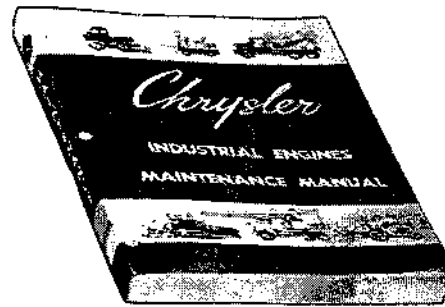
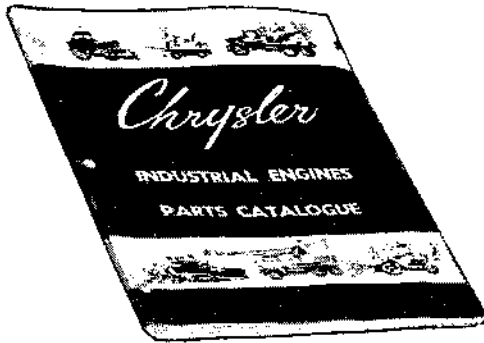
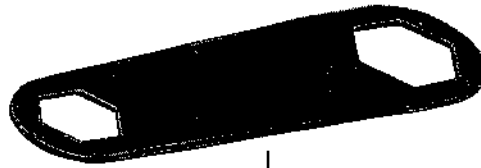
LITHO'D IN CANADA

SECTION 17/5 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

1
BOMBARDIER

2
SNOWMOBILE



BOMBARDIER LTD/LTEE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	114 0325	Bombardier (name).....	1
2	114 0380	Snowmobile.....	1
3	114 0326	Bombardier (sprocket).....	1
4	629 0003	Wrench - bub cap.....	1
5	102 5036	Part manual (chrysler).....	1
6	102 5037	Maintenance manual (chrysler).....	1

BOMBARDIER LTD/LTEE

PART NO.	DESCRIPTION
114 0043	Tie - hose.....
108 8011	Clamp - worm gear hose clamp 5/16" to 7/8" dia.
108 8006	Clamp - worm gear hose clamp 5/8" to 7/8" dia..
108 8004	Clamp - worm gear hose clamp 5/8" to 1" dia....
108 8007	Clamp - worm gear hose clamp 1" to 2" dia.....
108 8001	Clamp - worm gear hose clamp 1 3/16" to 2 1/2"
	dia.....
108 8009	Clamp - worm gear hose clamp 2 13/16" to 3 3/4"
	dia.....

BOMBARDIER LTD/LTEE