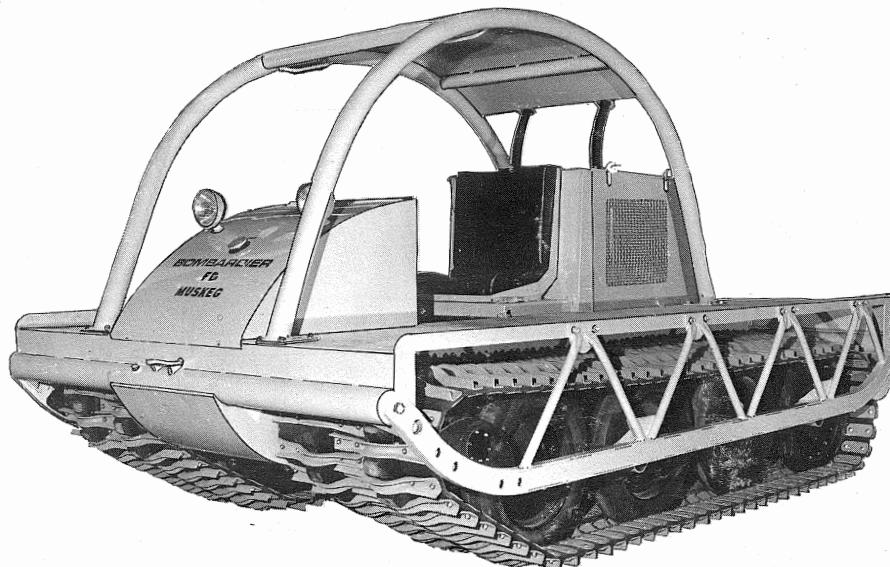


MUSKEG
MTFD*



MT.F.D.

with Chrysler 318 C.I.D. gasoline engine, 4 forward speed manual transmission, cab and final drive.

"MT.F.D." TRACTOR

OPERATOR'S MANUAL

SPARE PARTS MANUAL

MANUEL DE PIÈCES

INDUSTRIAL DIVISION

DIVISION INDUSTRIELLE

VALCOURT QUÉBEC CANADA

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MANUAL 180 1016
DECEMBER 1969

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LITHO'D IN CANADA

"MUSKEG" TRACTOR

INTRODUCTION

The present manual concerns the **MT.F.D.** one of the most popular tractors among the BOMBARDIER'S family of MUSKEG endless-track vehicles. It is a basic edition of the complete manual which is now in preparation.

The complete manual will have all the necessary illustrations and operating instructions, plus a chapter on troubleshooting.

As soon as they come off the press, you will receive your copy from your dealer.

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MUSKEG "MT.F.D." SPECIFICATIONS

GENERAL

DIMENSIONS

Overall length	11' 8"
Overall width	7' 3"
Overall height	6'
Weight	Approx. 5,885 lbs.
Height without cab	4' 9"
Clearance	14"
Cabs	Choice of: One man cab - Three man cab - Less cab (with head protector)
Tank capacity	15 Imperial gallons (approx.)

PERFORMANCE

Payload	6,000 lbs.
Maximum speed	Approx. 25 M.P.H.
Ground pressure unloaded	Approx. 1.46 lbs./sq. in.
Turning radius	15'

DRIVE TRAIN

Brake	Drum or drive shaft.
Suspension	Tandem arms mounted on rubber bushings to provide walking beam action.
Drive sprockets	4 - rubber reinforced with fabric.
Tracks	28" wide, rubber belts with steel grousers.
Track belts	3 per track, endless, rubber and fabric reinforced with steel cable.
Wheels	16 (4 sets of dual wheels each side).
Tires	4 rear wheels with solid rubber and balance of wheels with 4.50 X 16, 6 ply nylon; or 16 solid rubber-tires.
Frame	Toboggan type, watertight.

Fording depth	30"
Differential	Controlled type ratio 3.9 to 1
Clutch	Single disc, dry, 12"
Transmission	4 speed forward 1 reverse
Engine	Chrysler V-8 ind. 318 LA.
Steering	Separate steering controls: Independant mechanical <u>or</u> hydraulic steering systems.
SPECIAL FEATURES	Final drive between differential and hubs, ratio 1.68 to 1.

GENERAL INFORMATION

DATA PLATE

This plate is located on front engine cowling inside the cab. Identified are the "Model" chassis, and motor serial numbers.

NOTE:

Always specify these numbers when ordering parts, and for all correspondence concerning the vehicle.

PRE-DELIVERY SERVICE

Before we delivered your new "MUSKEG tractor", your authorized dealer subjected the machine to a series of checks and tests. You therefore have the assurance that the vehicle you took possession of 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.

Such services may include, lubrication, engine tune up, electrical checks, belt adjustments, etc... Replacement items may include brake linings, spark plugs, ignition points, filters, etc...

TECHNICAL VEHICLE INFORMATION

CONTROLS

INSTRUMENT PANEL:

This unit is located directly in front of the driver's seat and includes the following items:

AMMETER

Measures (in amperes) the intensity of the current flowing through the electrical system.

TEMPERATURE GAUGE

Indicates the water (or coolant) temperature in the engine cooling system.

HOUR-METER

Registers the hours of operation of the vehicle.

FUEL GAUGE

Indicates the amount of gasoline in the fuel tank.

OIL PRESSURE GAUGE

Registers the oil pressure (not the oil level) in the engine.

IGNITION SWITCH

Key operated "off" and "on" contact switch.

STARTER BUTTON

This switch has a rubber cover. By pressing this button, the starter mechanism is engaged.

HEATER AND DEFROSTER SWITCH (OPTIONAL)

Pull button fully out for low speed. Push back the button halfway for high speed.

LIGHT SWITCHES

Headlights and dome lights - Pull buttons for contact.

WIPER SWITCH

Pull button fully out for contact.

DIMMER SWITCH (OPTIONAL)

Is located on the instrument panel.

SPEEDOMETER (OPTIONAL)

Optional meter to indicate the speed (in M.P.H.) of your vehicle.

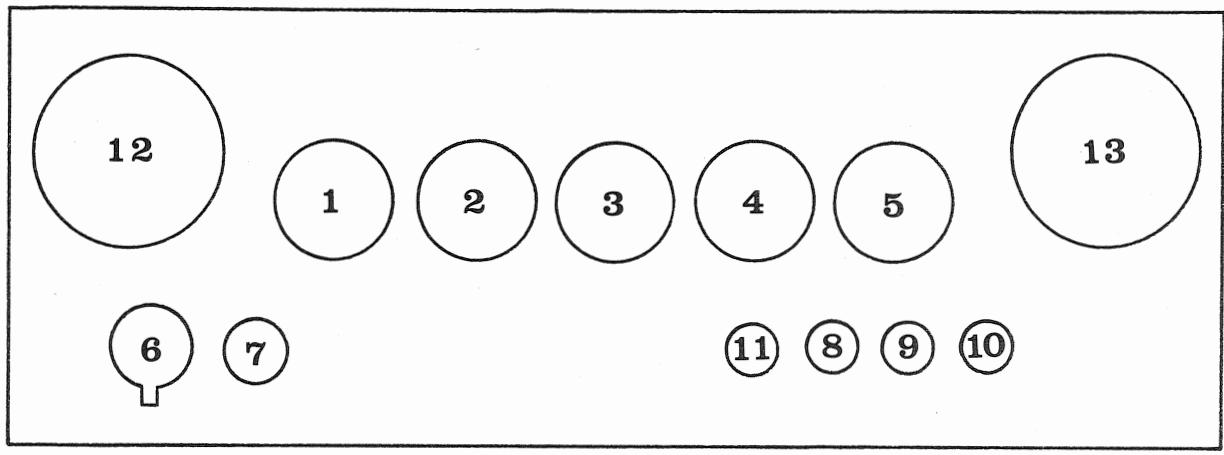
TACHOMETER (OPTIONAL)

Meter that indicates the speed of rotation of the engine in hundreds of revolutions per minute (R.P.M.).

CHOKE BUTTON

This is provided for cold weather starts. Pull out to start engine. Push when the engine is started.

"MT.F.D." TRACTOR INSTRUMENT PANEL



- | | |
|-----------------------|------------------------------|
| 1. Ammeter | 8. Heater & defroster switch |
| 2. Temperature gauge | 9. Head lamp switch |
| 3. Hour-meter | 10. Wiper switch |
| 4. Fuel gauge | 11. Dimmer switch |
| 5. Oil pressure gauge | 12. Speedometer |
| 6. Ignition switch | 13. Tachometer |
| 7. Starter button | 14. Choke button |

OPERATING LEVERS

STEERING

Separate steering controls. Independant mechanical or hydraulic steering systems are included in this machine.

The two small levers operate hydraulically, (power steering), and the two longer levers are mechanically operated.

The steering levers replace the steering wheel on ordinary vehicles and are also used for braking.

These levers operate brake bands on the differential brake drums. When one lever is pulled backward, the pressure applied on the drum reduces the speed of the corresponding axle while the other (opposite side) is accelerated through the differential planetary gears, thus causing the vehicle to turn. Pull the left lever to turn left and the right lever to turn right.

FINAL DRIVE

On the previous models of MUSKEG Tractors, the drive sprockets and the differential were lined up with each other. Now, in adding final drives, the drive sprocket axles and the differential are not on a linear axis.

These "final drives" consist of two flat gear boxes mounted on each side of the exterior tractor's frame. In using these final drives, the torque on the differential is reduced to a minimum.

CLUTCH

The clutch pedal is located at the left of the floor panel. When depressed, the clutch mechanism releases the engine of the transmission load and permits you to shift gears while no power is transmitted from the engine to the drive train.

BRAKE

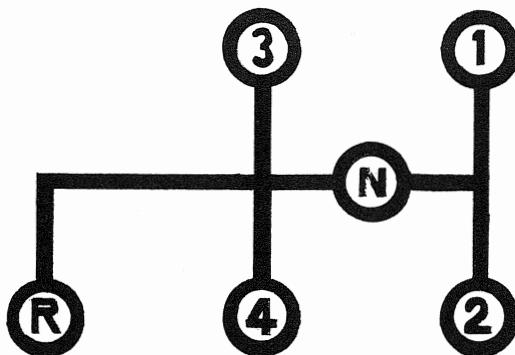
Braking can be achieved by pulling both steering levers at the same time while depressing the clutch. There is also a foot brake pedal located underneath the dash and fuel tank protector near the driver's right foot. When depressed, this pedal tightens a collar band on the transmission drum.

ACCELERATOR

The accelerator pedal is situated at the right of the floor panel. The accelerator is used to increase the speed (RPM) of the engine according to foot-pressure action on the pedal.

GEARSHIFT LEVER

The gearshift lever is located at the right of the operator's seat. It is used to shift the transmission to the different gears, as required by speed, load and operating conditions of the vehicle.



NOTE:

Always depress clutch pedal when changing gears.

SAFETY TIPS

- 1- Never attempt to fill fuel tanks:
 - a) When engine is running.
 - b) While using a lantern.
 - c) When smoking.
- 2- Place gearshift lever in neutral position when starting engine.
- 3- Never operate the vehicle in a closed garage or shed.
- 4- Do not dismount from tractor while it is in motion.
- 5- Do not attempt to operate the vehicle unless you are in the driver's seat.

ELECTRICAL SYSTEM

BATTERY

The MT.F.D. tractor uses a 12 volt 70 amp. hr. battery, and the terminal ground is negative. It is mounted on a bracket behind the front engine cowling.

It is important to keep the battery in the nearly fully-charged condition during cold weather.

Watch for batteries that require excessive water; it may be an indication of a charging system which is out of adjustment and indicates that the battery is being subjected to the damaging effects of over-charging.

NOTE:

Keep hold-downs secure.

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.

CAUTION:

Never attempt to start the engine while a battery charger is in use.

SPARK PLUGS

The spark plugs should be removed every 150 hours of operation, cleaned, filed and the points regapped to .035".

They should be replaced approximately every 300 hours for best performance and economy.

The type used on the MT.F.D. tractor are N 11 Y Champion.

Always use the spark plug specified by the manufacturer for your particular machine.

HYDRAULIC SYSTEM

The hydraulic reservoir which contains approx. $\frac{1}{2}$ gal., is located on the side of the radiator.

The hydraulic filter is located under the driver's seat beside the transmission. The importance of keeping the hydraulic fluid clean and free of harmful contamination cannot be overemphasized.

The oil is pumped to the valves through a hose circuit and is forced through a second filter. By blocking one valve or the other by means of a lever, liquid pressure is changed into mechanical force. The pressure in the hydraulic system is 500 lbs. per sq. in.

Actually, the true definition of a hydraulic pump is: a device which converts mechanical force and motion into hydraulic fluid power.

COOLING SYSTEM

COOLANT RECOMMENDATIONS

It is the owner's 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. When coolant additions are required because of coolant loss or to provide additional protection against freezing at temperatures lower than -32°, 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.

FAN BELT

The fan belt must be checked periodically and the proper adjustment maintained at all times. If the belt is allowed to become loose enough to slip on the pulleys, it will greatly affect the cooling system causing the engine to run hot due to insufficient air flow and circulation of the coolant.

The fan belt must not be over-tightened as it may reduce the life of the alternator bearings, fan and pump shaft bearing and fan belt.

NOTE:

When changing belts, always change in pairs if equipped for. Then after the first 10 hrs. verify the deflection and tighten if necessary.

RADIATOR

The cooling system of this vehicle is a sealed pressure type, which simply means that the coolant boiling point is considerably higher than a system that is not pressurized.

The pressure of the MT.F.D. tractor cooling system is 7 p.s.i.

CAUTION:

When an engine is at normal operating temperature or above, the internal pressure built up in the cooling system will blow out scalding fluid and vapors, if the radiator cap is suddenly removed. To prevent loss of coolant and to avoid the danger of being burned, the coolant level should be checked or coolant added only when the engine is cool. If the cap must be removed when the engine is hot, place a cloth over the cap and rotate the cap slowly counter-clockwise to the first stop or detent and allow pressure to escape completely. Then turn cap slowly counter-clockwise to remove.

THERMOSTAT

This thermostat is designed for continuous use through both winter and summer and need not be seasonally changed.

CAUTION:

Do not operate engine with thermostat removed, as this unit is essential for proper circulation and efficient engine performance.

METHOD OF DRAINING MOTOR AND RADIATOR

- 1- Install a flexible plastic or rubber hose on the engine drain cock located between the oil filler pipe and the distributor. This hose should have a maximum inside diameter of $\frac{1}{2}$ inch and should be 4 feet long.
- 2- From drain cock, this hose should pass over the mudguard and the end should come down below the level of the drain cock so that it will act as a siphon to drain the engine block completely.
- 3- To drain the radiator, remove the plug at the base of the radiator.

FUEL

Contaminated fuel will clog the fuel filters. Extreme caution should be exercised when refueling.

The fuel tank should be filled at the end of the days run, rather than at the start of the days run, since more water will condense in an empty fuel tank than in a full one.

A good grade of regular gasoline may be used.

LUBRICANT CHART

ITEM	RECOMMENDED LUBRICANT	SPECIFICATIONS	
		OPER. TEMP.	LUBRICANT
CRANKCASE* (gasoline engines)	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
*DIESEL ENGINES	MIL-2104-B USE S.A.E. 30W ALL YEAR ROUND		
TRANSMISSION WINCH	E.P. gear oil meeting specification MIL-L 2105-B	Above 40° F. Below 40° F.	S.A.E. 90 weight S.A.E. 80 weight
DIFFERENTIAL	ESSO TORQUE FLUID #56 OR ANY EQUIVALENT		
GREASE FITTINGS	Good quality multi-purpose grease	Above 0° F. Below 0° F.	Water resistant grease Superior shear stability grease
HYDRAULIC SYSTEM	Premium quality of hydraulic transmission fluid type C-2	Summer above -10° F. Winter 0° F. to 60° F.	MIL-L-2104 *MIL-L-10295

*CAUTION: Do not use MIL-L-10295 when the ambient temperature is consistently above -10° F.

NOTE: When changing to oil of a different grade, thoroughly flush system with the grade oil to be used before filling.

LUBRICATION

For lubrication, oil filter changes and periodic maintenance of the motor, refer to the manufacturer's maintenance manual.

DAILY RECOMMENDATIONS EVERY 10 HRS

1. DIFFERENTIAL

Check the level and the condition of the oil in the differential daily. If it is contaminated, drain and refill. This includes the final drive.

2. Check hydraulic oil level.
3. Check engine oil level.
4. Grease propellor shaft.
5. Grease wheels daily when working in wet conditions.

WEEKLY LUBRICATION EVERY 50 HRS

1. Check engine oil level.
2. Hydraulic oil filter (new tractor) change.
3. Transmission oil level - check.
4. Wheel bearings, fitting (16) on wheel caps - Grease.
5. Front axle - Grease.

EVERY 100 HOURS

1. Steering and brake levers - Oil joints.
2. Clutch pedal bushings - oil.
3. Throttle pedal - bushings - oil.
4. Propellor shafts U-joints - fittings - Grease.
5. Brake pedal - Fitting at bottom - Grease.
6. Clutch release fork - In the hub - Oil.
7. Control rods - In joints or points of support - Oil.

EVERY 300 HOURS

1. Change oil in differential (if the vehicle operates in water or mud, change more often).
2. Check transmission level - (replenish if necessary).
3. Change hydraulic oil filter.
4. Clean oil filler pipe cap.

OPERATING INSTRUCTIONS

PRE-START CHECK

Before starting engine:

- a) Check engine oil level on dipstick.
- b) Check radiator coolant level.
- c) Check electrolyte level in battery cells.
- d) Check oil level in hydraulic system.
- e) Check the tension of the tracks.

NOTE:

Always have the tractor on level ground when checking levels.

STARTING PROCEDURE

- a) Apply the brake and shift the transmission into neutral.
- b) Depress the accelerator pedal partly down.
- c) Turn the ignition key to "on".
- d) Press on the starter button until the engine starts.
(Never more than 30 seconds).
- e) Check all gauges to make sure the engine is running normally.

NOTE:

Cold weather starting.

Too heavy an engine oil in cold weather or an out-of-tune engine can cause hard starting. Follow the viscosity recommendations on page 10 of this manual. Do not use choke when the engine is warm.

FLOODED ENGINE

Hold accelerator pedal all the way down without choke, and crank until engine starts (not over 30 seconds at a time).

DRIVING

- a) Keep foot on brake pedal if necessary.
- b) Depress the clutch pedal and shift into first gear.
- c) Release the clutch slowly as you press on the throttle.
- d) Shift progressively through second, third, etc.. as the speed of the vehicle increases. (Depress clutch for each shift).

CAUTION

**Proceed with extreme
caution when using hydraulic
steering in 3rd & 4th gear**

CAUTION:

- a) Avoid large rocks and logs at high speeds.
- b) Engage the clutch as fast as possible to acquire a gentle start with the least amount of slipping.
- c) Do not use the clutch as a speed reducer, use the throttle and brake to slow the tractor speed.

MAINTENANCE AND REPAIRS

Recommendations for daily check-ups.

GENERAL

Keep the bottom of the chassis clean. Remove all obstacles from under carriage, and any foreign body which may cause friction on wheels or suspension.

TRACK

Check track tension. This may be considered, correct when the track is loose as possible without jumping over sprocket teeth. There should be $\frac{3}{4}$ " clearance between the cross links and the first wheel.

WHEELS AND TIRES

Maintain the tire pressure at 100 to 110 lbs.

SUSPENSION

Check the condition of silent block (or rubber bushings).

CONTROL SYSTEM

Keep the levers and rods of the control system well adjusted. This may include steering levers, clutch pedal, accelerator and brakes.

ENGINE

Check the oil pressure and look for possible oil or gas leaks.

Check the condition of the air filter.

ELECTRICAL SYSTEM

Check the condition of the battery and the level of the electrolyte. Maintain the battery electrolyte level above the plates.

Check all gauges.

Verify all lights (replace if necessary).

COOLING SYSTEM

Check the level of the coolant in the radiator and look for possible leaks.

Check the adjustment of the fan belt.

Check the temperature gauge.

RECOMMENDATIONS FOR WEEKLY CHECK-UPS

TRACKS

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

Tighten the cross link bolts if necessary.

DRIVE SPROCKET

Check the condition of the drive sprockets and tighten the bolts if necessary.

SUSPENSION

Check the condition of the silent block.

Check wheel alignment.

CONTROL SYSTEM

Adjust the accelerator and clutch rods if necessary.

Check condition of the steering brake band linings.

Check differential cover and carrier bolts; tighten if necessary.

Check universal joints of the drive shaft.

Check adjustment of the pinion bearings.

ENGINE

Tighten spark plugs, manifold, exhaust and cylinder head gaskets if necessary.

Tighten fan bolts if necessary.

ELECTRICAL SYSTEM

Clean and tighten battery terminals.

Check wiring system.

REPAIRS

TRACK REMOVAL

1. Jack up the machine.
2. Release track tension (bleed the hydraulic track adjuster).
3. Remove the side beams.
4. Remove five consecutive cross links and turn the track so that the part where the cross links were removed is on the drive sprocket. This will give the necessary slackness to remove the track.
5. Remove the track by pulling it off the rear wheels, then from the front wheels and sprockets.

TO REINSTALL THE TRACK

1. Spread out the tracks alongside the vehicle and remove five consecutive cross links.
2. Install the part of the track where five cross links were removed over the drive sprockets.
3. Push the rear part of the track underneath the exterior rear wheel and let the tractor down to facilitate the installation of the track over the exterior rear wheel.
4. Jack up the machine again and push the track underneath the interior rear wheel. Finally, let the tractor down to install the track over the second wheel.
5. Replace the side beam, the two bolts at each end of the vehicle, the bolts holding it to the mud-guard and finally the nuts of the cross shafts.
6. Turn the track so that the cross links can be reinstalled easily from underneath between the sprockets and front wheels.

ADJUSTMENT OF THE TRACKS

The tension of the track is normal and ideal when the track is as loose as it can be without jumping over the sprocket teeth. Properly adjusted tracks promote better traction and reduce wear. To adjust, use the Bombardier 629 0008 bleeder to release the tension and a grease gun to readjust it.

NOTE:

$\frac{3}{4}$ " clearance between the cross links and first wheel.

INSTALLATION OF DIFFERENTIAL AXLES

The differential axles are of the full floating type and can be removed easily if you proceed as follows:

1. Remove the six bolts retaining the axle and bracket cap.
2. Pull on the nut of the axle pull rod with pliers.
3. If the axle does not come out, move the machine forward or backward to release the tension on the axle. To reinstall push the axle inside and make sure that the splines fit easily. Turn the hub forward or backward until the splines come in place. Install the seal on the pull rod support and reinstall the axle end bracket cap with gasket.

REPLACEMENT OF SPROCKETS

We recommend the following procedure for the replacement of sprockets:

1. Remove ten consecutive cross links opposite the rear wheels.
2. Push the track forward to release the sprockets completely.
3. Remove the differential axle as mentioned above and the bearing lock 601 0040 inside the axle end bracket (part no. 601 0039).
4. Install a jack to support the sprockets and remove the bolts from the axle end bracket.
5. Make a half-turn on the axle end bracket and pull it out.
6. The sprockets and the drive axle hub can now be removed.
7. When you replace the drive sprockets, make sure that the sprocket teeth are in line.

REPLACEMENT OF WHEELS OR TIRES

The replacement of wheels or tires is done very easily when the machine is jacked up and the tracks removed.

However, you can replace any wheel or tire WITHOUT REMOVING THE TRACK, if you proceed as follows:

1. The four central wheels on each side can be removed easily when the vehicle is jacked up.
2. To remove the two front wheels on each side, install a wooden block 2" x 4" and 22" long inside the exterior belt if you want to remove the front exterior wheel and inside the interior belt if you want to remove the front interior wheel. Install the wooden block at an angle, about 8" behind the axle hub and turn the track by means of the starter switch so that the wooden block comes to a vertical position. This will spread the two sides of the track apart giving the necessary clearance to remove the wheel.
3. To remove one of the four rear wheels, proceed as follows:
 - a) Jack up the machine.
 - b) Remove two bolts from fourteen consecutive cross links on the exterior belt beside the wheel and on the center belt.
 - c) Push the belt towards the front to obtain the necessary clearance and remove the wheel.

NOTE:

The method described above is used to remove any of the interior or exterior rear wheels.

ADJUSTMENT OF WHEEL BEARINGS

To adjust the wheel bearings tighten the wheel nut firmly, then back off $\frac{1}{4}$ of a turn and install the cotter pin.

ADJUSTMENT OF THE CONTROL LEVERS

For perfect adjustment, leave a free play of about 5" to 7" at the top of the levers. If a readjustment is required, tighten or loosen the adjusting nut on the steering and brake yoke at the bottom of the steering levers.

When manoeuvering the machine, pull the levers right in and out with a firm motion taking advantage of any undulation on the ground to facilitate steering. Do not slip the bands as this may cause overheating and scoring of the brake drums.

Play between the cylinder and the cotter pin should be 1 in. for hydraulic steering (stroke should be 1" on the cylinder shaft).

ADJUSTMENT OF THE CLUTCH RODS

The adjustment of the clutch pedal rod is done by means of the bolts located on the clutch release fork lever. This should be checked occasionally to make sure that there is from 1" to $1\frac{1}{4}$ " free play on the clutch pedal.

ACCELERATOR

This adjustment of the accelerator rod can be done on the rod lever near the carburetor.

BRAKE

The adjustment of the brakes are made by the bolts on the brake band or nuts on the brake rod.

INSTRUCTIONS FOR REPAIRING THE DIFFERENTIAL ASSEMBLY

REMOVE THE DIFFERENTIAL FROM THE CHASSIS

Remove the differential drive axle and the brake bands. Unscrew the bearing adjusters on each side of the differential carrier until the differential can be lifted out of the chassis.

CAUTION:

Mark all parts to assure they are reinstalled in the exact and same location.

DISASSEMBLE DIFFERENTIAL ASSEMBLY

Remove the differential side bearings 105 0025 (cone) at both ends of the differential case using a bearing remover, part no. 629 0009. Lift the steering brake drum (608 0002) including the brake drum gear (608 0011), off the differential case. Hold the planetary gears (608 0015) stationary using a wedge between the planetary gears and the center part of the side case. Remove the cotter pins and castellated nuts that secure the three planetary gears to the differential pinion gears (608 0026) at each side of the case. Insert a heavy screwdriver between the planetary gears and the case and pry the gears off the differential pinion gears.

Each planetary gear is marked to match the differential pinion gear to assure proper installation. Remove the cotter pins and nuts from the six differential case bolts.

Use a brass hammer, if necessary, to tap the case apart. Remove the differential pinion gears (608 0026) and axle to differential pinion gears (608 0024) from the case. The differential case is marked to assure proper installation.

NOTE:

Side cases and centre spacers should not be ordered separately (matched sets only).

DIFFERENTIAL ASSEMBLY INSPECTION

The crown and pinion gears are furnished in matched sets, and, if either is damaged, both must be replaced. Replace the crown gear if it has chipped or missing teeth following the procedure outlined under crown gear replacement below. Replace the bushings in the differential case if they are worn. Replace the differential pinion thrust washer if the thickness is worn to less than 0.090 of an inch. Replace the brake drum gear thrust washers if the thickness is worn to less than 0.180 of an inch.

Replace differential pinion gears if any have chipped or have missing teeth or if the bearing surface at the small end of the gear is worn to less than 0.996 of an inch, or the large end is worn to less than 1.246 of an inch. Replace planetary gears or axle to differential gears that have chipped or missing teeth or have worn splines. Replace the steering brake drum if it is cracked, scored or badly worn. However, if the scores in the brake drum are not too deep in the drum surfaces, the drum may be reworked in a brake drum lathe.

NOTE:

Pinion gears and planetary gears must be replaced in sets of 3.

CROWN GEAR REPLACEMENT

Remove the lock wire and the 12 bolts that secure the crown gear to the differential case. Using a brass hammer, tap the crown gear off the case. To install the crown gear, lay it on a bench with the teeth facing downward. Place the case on the crown gear and line up the holes. Install the 12 bolts that secure the gear to the case. Lock the bolts with the locking wire.

DIFFERENTIAL CASE CENTER BUSHING REPLACEMENT

Place the center case of the differential in a vise. Remove the two bushings. To install new bushings place one of the bushings in position on the case. Install the bushings using suitable bushing replacer. Install the other bushing on the opposite side, using the same procedure. Clean the burrs from around the drilled holes. To remove the bushings from the side cases, insert a center punch between the bushing and the case and pry the bushing out of the case. To install new bushings, place the bushing in position on the case and drive the bushing into the case. With bushing installer part number 629 0017. No reaming or honning will be necessary.

BRAKE DRUM GEAR BUSHING REPLACEMENT

Remove the steering brake drum (608 0002) from the brake drum gear (608 0011) and remove the bushings. To install new bushings, place one of the bushings in position in the brake drum. Drive the bushing in place with a bushing installer part number 629 0018. Install the other bushing on the opposite side using the same procedure.

STEERING BRAKE DRUM REPAIR

Remove the lock wire or lock plates, six cap screws and nuts that secure the brake drum gear to the steering brake drum and remove the gear from the drum. Turn down the brake drum on a lathe until all evidence of scores are removed. If the brake drum does not clean up at a diameter of 10-7/16 inches or more, the brake drum must be discarded.

DRIVE PINION GEAR INSPECTION

The drive pinion gear is furnished in matched sets only with the crown gear, and if either is damaged, both must be replaced. Replace the bearing cups if they are cracked, pitted, corroded or discolored due to over heating. Replace the pinion gear if it has chipped or scored or has damaged threads.

DIFFERENTIAL REASSEMBLY

INSTALL THE AXLE TO DIFFERENTIAL PINION – – GEAR IN THE DIFFERENTIAL CASE

Place the differential case left side (608 0030) with crown gear attached, on a bench. Place a thrust washer in position in each hole provided for the six differential pinion gears being sure the side having the radius is facing away from the case surface (upward). Place the axle to differential pinion gear (608 0024) in its bearing, on the case.

NOTE:

The hub in the axle to differential pinion gear is identical on both sides and can be installed either side up.

INSTALL CENTER CASE IN DIFFERENTIAL CASE

Place the center case on the axle to differential pinion gear being sure the matching marks on the center case are in line with the marks on the differential case. Tap the center case with a brass hammer until it is seated firmly in the dowels.

INSTALL DIFFERENTIAL PINION GEARS

Holding one of the differential pinion gears with the splined end of the gear facing downward, insert into one of the larger differential pinion gear holes in the case. Turn the differential pinion gear until the tooth on the gear having the reference mark is in mesh with the axle to differential pinion gear.

Do not turn the axle to differential pinion gear after the first differential pinion gear has been installed. Insert the other two differential pinion gears in the large holes in the case in the same manner so that the reference mark on the teeth also mesh with the axle to differential pinion gear. Install the three remaining pinion gears with splined end up making sure the tooth with the reference mark on each gear is in mesh with the axle gear.

NOTE:

All six of the pinion gears have a punch mark (reference mark) on one of the splines at the spline end of the gear. The reference mark on one of the teeth of each of these gears is on the tooth which is in line with the mark on the splined end of the gear. In some cases the mark on the teeth does not appear, in which case select the tooth which lines up with the mark on the splined end of the gear and mesh this tooth in the axle to differential pinion gear.

INSTALL UPPER PART OF DIFFERENTIAL CASE

Place the axle to differential pinion gear in the bushing on the center case. Place the six thrust washers on the differential pinion gears being sure the side having the radius is facing away from the case surface (downward). Place the upper part of the differential case on the differential pinion gears, being sure the matching marks on the upper case is in line with the mark on the center case. Tap the case with a brass hammer until it is seated firmly on the center case. Insert the six differential case bolts through the case assembly and install the castellated nuts and cotter pins on the bolts.

NOTE:

The crown gear teeth should be facing inward on the left hand side.

INSTALL PLANETARY GEARS

Place the brake drum gear thrust washer in position on the case. This must be done before the planetary gears from which it was removed, if pinions are reused, are installed. Place a planetary gear (608 0015) on the pinion gear, being sure the punch mark on the planetary gear is in line with the punch mark on the spline of the differential pinion gear. Install the flat washers and nuts that secure the planetary gear to the differential pinion gear. Use a wedge to hold the planetary gears stationary while tightening the nuts securely. Use the same procedure to assemble the planetary gears on the other half of the case.

ASSEMBLE AND INSTALL STEERING BRAKE DRUM

Place the brake drum gear in position on the steering brake drum and install the six cap screws and nuts that secure the brake drum gear to the drum. Lock the six cap screws with 3 new locking plates part number 618 0067. Place the assembly on the differential case and install the differential side bearing.

ASSEMBLE THE DRIVE PINION

Insert the drive pinion including the inner bearing into the housing. Place the spacer and original thickness of shims on the pinion gear. If the original thickness of shims is unknown, install shims totalling approximately 0.035 inch thick and place the outer bearing on the pinion. Place the pinion flange on the pinion. Do not install the oil seal at this time. Install the bolt, flat washer, and lock wire that secure the flange to the pinion and draw the flange down tight. The pinion bearing adjustment is correct when the pinion turns freely but there should not be any free play. If the pinion turns with difficulty, shims will have to be added behind the outer bearing. If the pinion is loose, shims will have to be removed. After the correct adjustment is obtained, remove the pinion flange, install a new oil seal in the pinion housing, install the pinion flange, the flat washer and lock with 14 gauge locking wire. Tighten to 100 ft. lbs.

CHECK CROWN GEAR AND PINION BACKLASH

Install the differential assembly in the differential carrier, install the carrier stiffener and adjust the carrier bearings. Check the backlash which must not be less than 0.008 of an inch or more than 0.012 of an inch. If the backlash is less than 0.008 of an inch, unscrew the bearing adjuster on the left and screw the bearing adjuster on the right until the correct backlash is obtained. If the backlash is more than 0.012 of an inch, inscrew the bearing adjuster on the right and screw the bearing adjuster on the left until the backlash is within the specified limits at the highest point. Lock the bearing adjusters through the adjuster bearing lock bolts.

TROUBLE SHOOTING

Certain abnormal conditions which sometimes interfere with satisfactory engine operation, together with methods of determining cause of such conditions may be found in the engine manufacturer's "operator's manual".

BOMBARDIER LTD/LTEE



WO/H.P.: MUSKEG M.T.F.D. with chrysler
318 C.I.D. gasoline engine
and 4 forward speed manual
transmission without cab &
head protector

W/H.P.: MUSKEG M.T.F.D. with
chrysler 318 C.I.D. gasoline
engine and 4 forward speed
manual transmission with
head protector

W/1 M.C.: MUSKEG M.T.F.D. with chrysler
318 C.I.D. gasoline engine
and 4 forward speed manual
transmission with 1 man cab

W/3 M.C.: MUSKEG M.T.F.D. with chrysler
318 C.I.D. gasoline engine
and 4 forward speed manual
transmission with 3 man cab

SPARE PARTS MANUAL
MANUEL DE PIECES

INDUSTRIAL DIVISION
DIVISION INDUSTRIELLE

VALCOURT

QUEBEC

CANADA

MUSKEG M.T.F.D.

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 qui figurent dans ce manuel de pièces montrent la construction typique des ensembles variés et dans tous les cas peuvent ne pas indiquer la forme exacte, ou le détail de la pièce voulue; cependant, elles ont pour but d'identifier des pièces qui ont la même fonction ou une fonction similaire.

INFORMATION GENERALE
MANUEL/PIECES

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA General Information 1 - 1st PRINT DEC. 1969.
(ISSUE 1)

<u>SECTION</u>	<u>DESCRIPTION</u>
00	Track/chenille.
01	Drive/commande.
02	Wheel/roue.
03	Suspension/suspension.
04	Transmission/transmission.
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.
24	Winch/treuil.
25	Scraper/grattoir.
29	Tools/outils.
30	P.T.O./ prise de force.

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA GENERAL INFORMATION 2 - 1st PRINT DECEMBER 1969.
(ISSUE 1)

Abs.....absorber
Accel.....accelerator
Acc.....accessory
Amp.....ampere
&.....and
Ass'y.....assembly
As req.....as required
Br1.....barrel
Bush.....bushing
Brkt.....bracket
Chr.....chromium
C.I.D.....cubic inches
displacement
C/breaker....circuit breaker
Cyl.....cylinder
Elec. or elect.....electric
Eng.....engine
Equip.....equipment
Exh.....exhaust
Flr.....floor
Ft.....foot or feet
H/brake.....hand brake
H.P.....horse power
Hydr.....hydraulic
Ign.....ignition
Lp.....lamp
LHD.....left hand drive

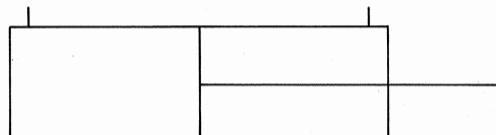
Lgh.....length
L.W.....lockwasher
Man.....manual
M.P.....medium pressure
M.P.H.....miles per hour
No. or #.....number
Opt.....optional
Pkg.....package
Park.....parking
P.S.I.....per square inch
P/washer.....plainwasher
Lbs.....pounds
Rad.....radiator
Req.....required
R.P.M...revolutions per minute
RHD.....right hand drive
Sec.....section
Spd.....speed
Std.....standard
Strg.....steering
Supt.....support
Susp.....suspension
Synch.....synchronizer
Temp.....temperature
Term.....terminal
Whl.....wheel

SYMBOLS-HYDRAULIC DIAGRAM

MAIN OR WORKING LINE

 (FEMALE) H.P. HOSE (MALE)

EXHAUST OR DRAIN LINE

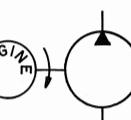


CYLINDER

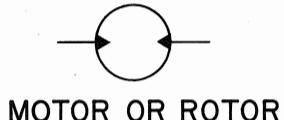
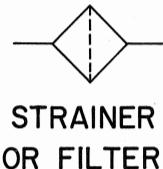
PILOT LINE

 ENCLOSURE OUTLINE

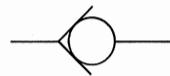
 PARAGAS HOSE



PUMP



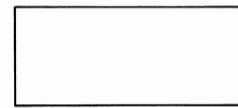
MOTOR OR ROTOR



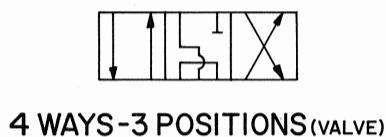
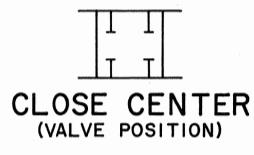
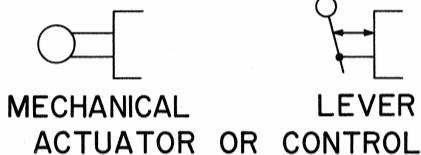
CHECK VALVE



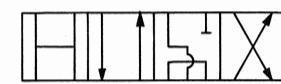
RESTRICTOR



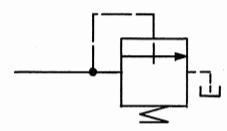
TANK



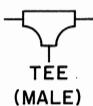
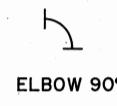
4 WAYS-3 POSITIONS (VALVE)



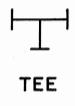
4 WAYS-4 POSITIONS (VALVE)



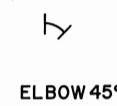
RELIEF VALVE

ELBOW 90°
(MALE)ELBOW 45°
(MALE)TEE
(MALE)TEE
(M & F)

ELBOW 90°

STREET
ELBOW 90°SERVICE
TEE

TEE

ELBOW 90°
(M & F)ELBOW 45°
(M & F)SWIVEL
ELBOW 45°ADAPTER
(MALE)

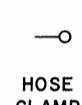
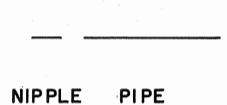
ELBOW 45°

STREET
ELBOW 45°

PLUG

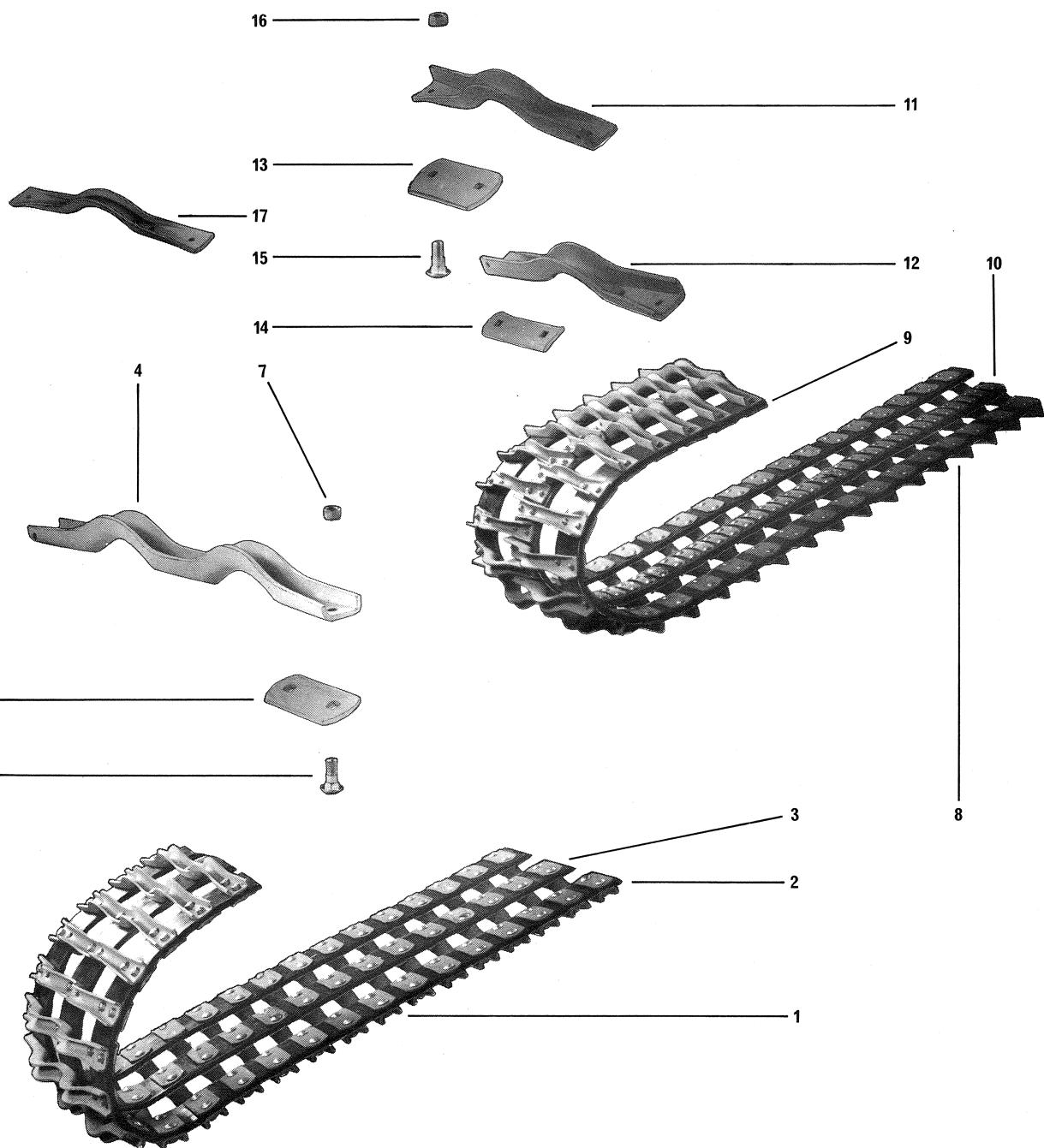
REDUCING
BUSHINGLINE
CROSSING

JOINT

HOSE
CLAMP'O'
RINGDRAIN
COCKRETURN
TO TANKPRESSURE
GAUGE

PIPE

BOMBARDIER LTD/LTEE



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LITHO'D IN CANADA

SECTION 00/1 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

TRACK

MUSKEG M.T.F.D.

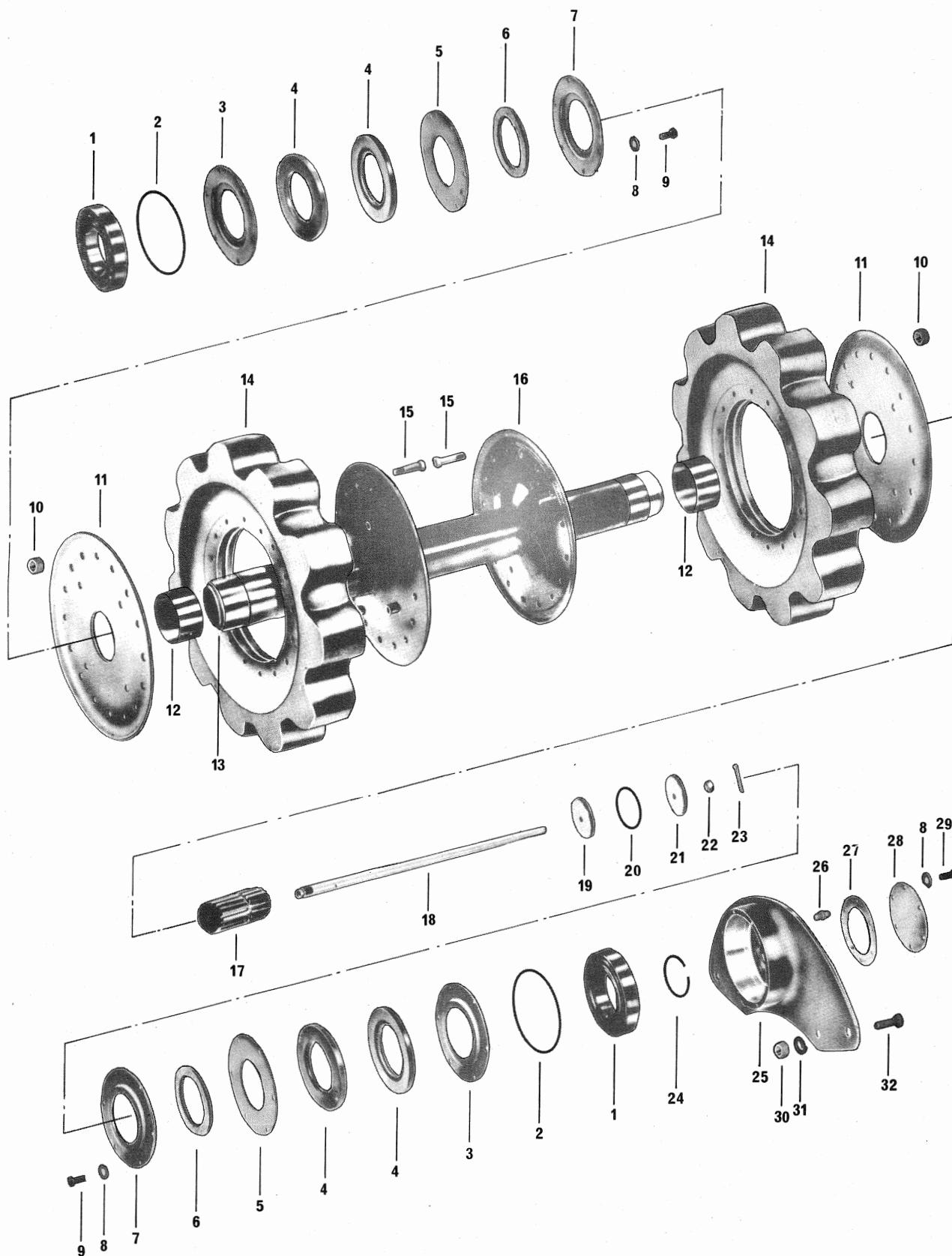
CHENILLE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	680 0022	Ass'y - track.....	2
2	670 0008	Belt - side track.....	4
3	670 0009	Belt - center track.....	2
4	600 0010	Cross link.....	144
5	600 0021	Cleat.....	432
6	360 8005	Bolt - track.....	864
7	387 2028	Nut.....	864
8	680 0023	Ass'y - track (optional).....	2
9	670 0005	Belt side track (optional).....	4
10	670 0007	Belt center track (optional).....	1
11	600 0011	Cross link R.H. (optional).....	144
12	600 0003	Cross link L.H. (optional).....	144
13	600 0020	Cleat (optional).....	288
14	600 0019	Cleat (optional).....	288
15	360 8003	Bolt track (optional).....	1152
16	387 2024	Nut (optional).....	1152
17	600 0007	Cross link (trailer T-7)(optional)...	288

LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
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 1st MODEL (ISSUE 1)

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1st MODEL (ISSUE 1)

DECEMBER 1969.

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	105 4002	Bearing.....	4
2	106 0037	"O" ring.....	4
3	627 0008	Adaptor - sprocket seal.....	4
4	106 3023	Seal - oil.....	8
5	601 0072	Retainer - inner seal.....	4
6	114 0328	Seal - dust.....	4
7	627 0010	Retainer - outer seal.....	4
8	392 0019	Lockwasher.....	36
9	300 0003	Bolt.....	24
10	387 2024	Nut.....	80
11	601 0070	Flange - axle hub.....	4
12	601 0069	Sleeve.....	4
13	601 0004	Hub - spline.....	2
14	670 0106	Sprocket.....	4
15	309 8031	Bolt.....	80
16	601 0067	Ass'y - hub & housing.....	2
17	627 0005 ¹²	Axle - driven.....	2
18	627 0007 ¹³	Rod - axle pull.....	2
19	601 0043	Support - pull rod.....	2
20	106 0004	"O" ring.....	2
21	371 9010	Ring - snap.....	2
22	381 2024	Nut.....	2
23	371 0011	Pin - cotter.....	2
24	601 0040	Lock - axle bearing.....	2
25	601 0039	Bracket - axle end.....	2
26	408 2001	Fitting - grease.....	2
27	670 0110	Gasket - cap.....	2
28	601 0044	Cap - axle end.....	2
29	300 0000	Bolt.....	12
30	380 6028	Nut.....	8
31	392 0028	Lockwasher.....	8
32	300 0153	Bolt.....	8

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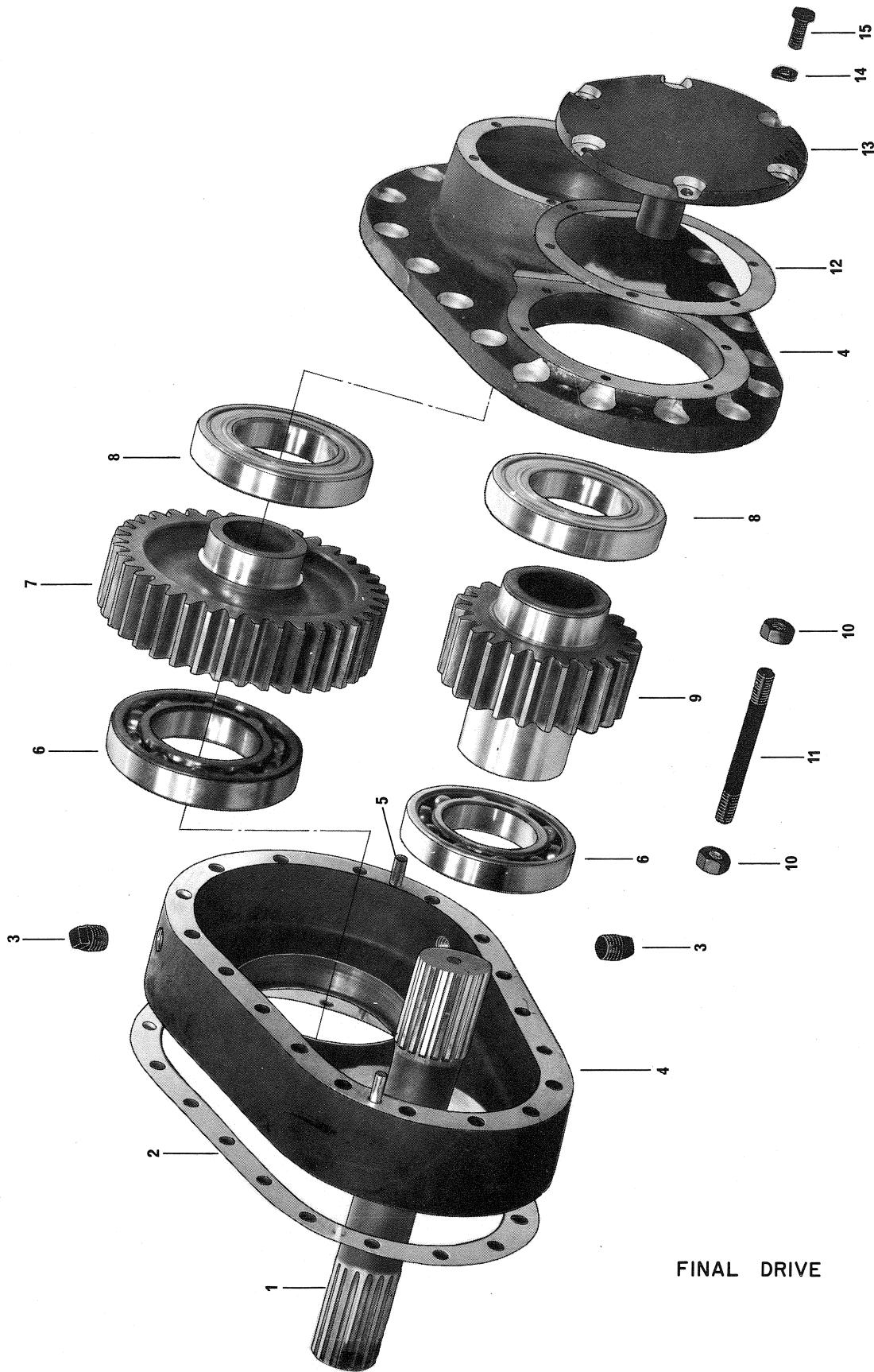
SECTION 01/2 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

DRIVE

MUSKEG M.T.F.D.

COMMANDÉ



FINAL DRIVE

LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 01/3 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

DRIVE

MUSKEG M.T.F.D.

COMMANDER

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	680 0278	Ass'y - final drive..... Consist of: 1 - 627 0001 2 - 114 0255 2 - 108 7008 2 - 105 4026 1 - 627 0004 1 - 627 0003 3 - 105 4002 4 - 370 9004 8 - 389 8039	2
1	627 0006	Axle - drive.....	2
2	627 0011	Gasket.....	2
3	108 7008	Plug.....	4
4	627 0001	Ass'y - final drive case.....	2
5	114 0255	Pin - dowel.....	4
6	105 4026	Bearing - final drive.....	4
7	627 0003	Gear - driven.....	2
8	105 4002	Bearing - final drive.....	4
9	627 0004	Gear - drive.....	2
10	389 8039	Nut - cone lock.....	72
11	370 9004	Stud.....	36
12	670 2701	Gasket - cap.....	2
13	627 0009	Cover.....	2
14	392 0019	Lockwasher.....	12
15	300 0001	Bolt.....	12
	113 9004	Gasket goo.....	As req'd

LITHO'D IN CANADA

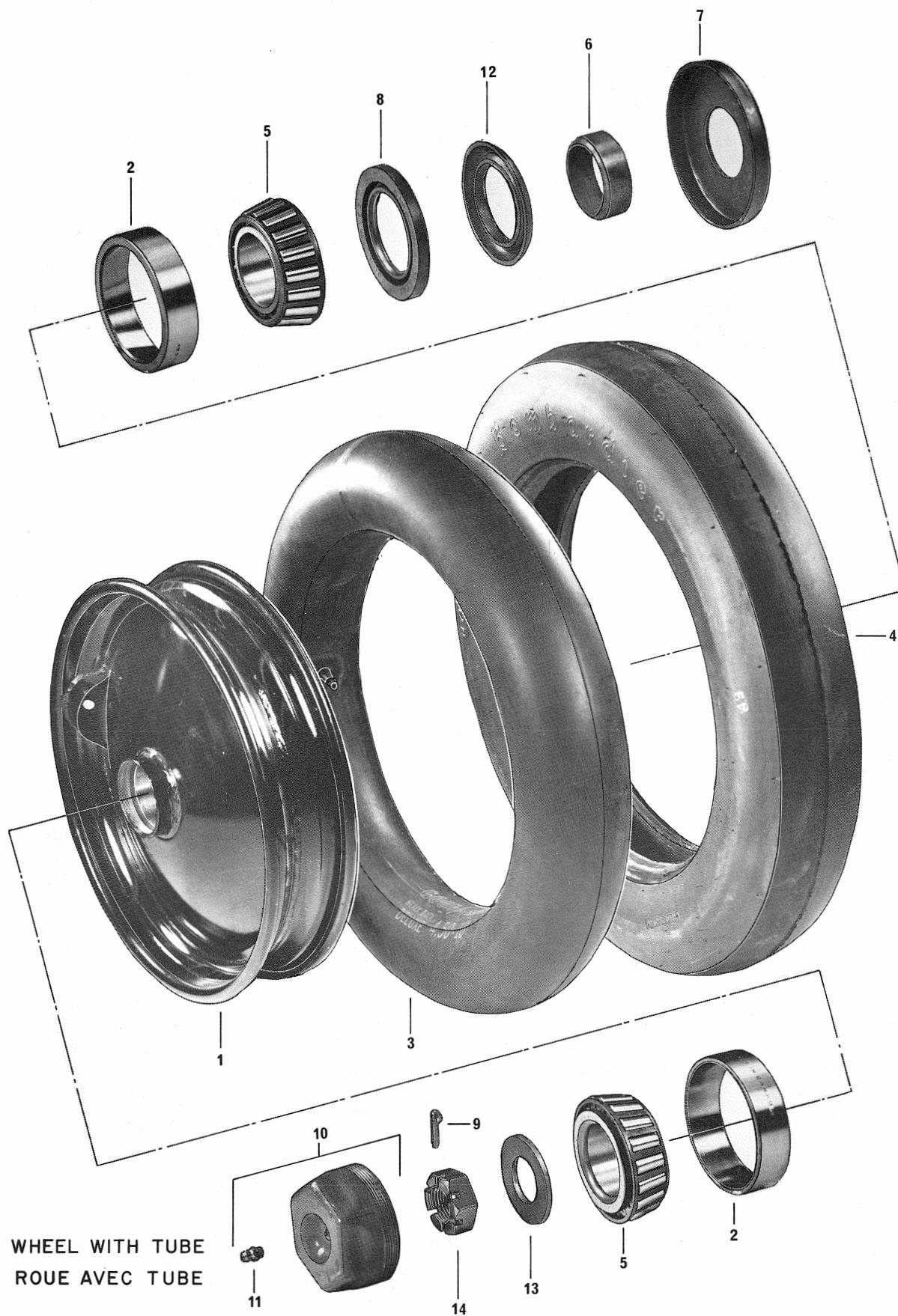
BOMBARDIER LTD/LTEE
SECTION 01/4 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

WHEEL

MUSKEG M.T.F.D.

ROUE



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 02/1 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

WHEEL

MUSKEG M.T.F.D.

ROUE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	602 0031	Wheel (with cup).....	12
2	105 0010	Cup - bearing.....	24
3	107 0004	Tube - wheel.....	12
4	107 0002	Tire - wheel.....	12
5	105 0012	Cone - wheel.....	24
6	603 0295	Spacer - wheel.....	12
7	602 0007	Excluder - mud.....	12
8	106 3022	Seal - wheel.....	12
9	371 0062	Pin - cotter.....	12
10	681 0002	Ass'y (hub-cap) (with grease fitting)	12
11	408 2001	Fitting - grease.....	12
12	670 0214	Excluder - mud (rubber).....	12
13	602 0025	Washer - spindle.....	12
14	389 8006	Nut - spindle.....	12

BOMBARDIER LTD/LTEE

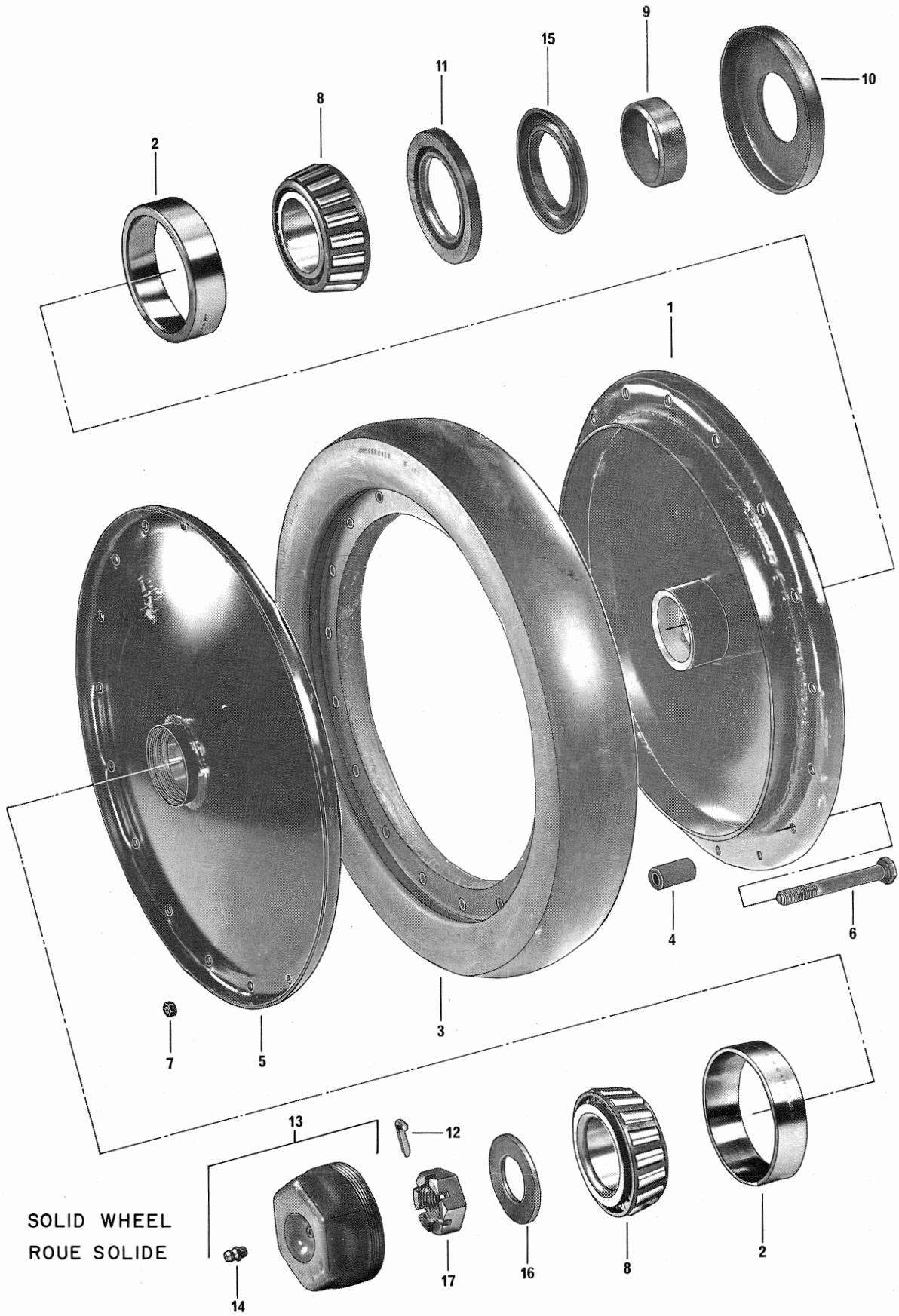
LITHO'D IN CANADA SECTION 02/2 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

WHEEL

MUSKEG M.T.F.D.

ROUE



SOLID WHEEL
ROUE SOLIDE

WHEEL

MUSKEG M.T.F.D.

ROUE

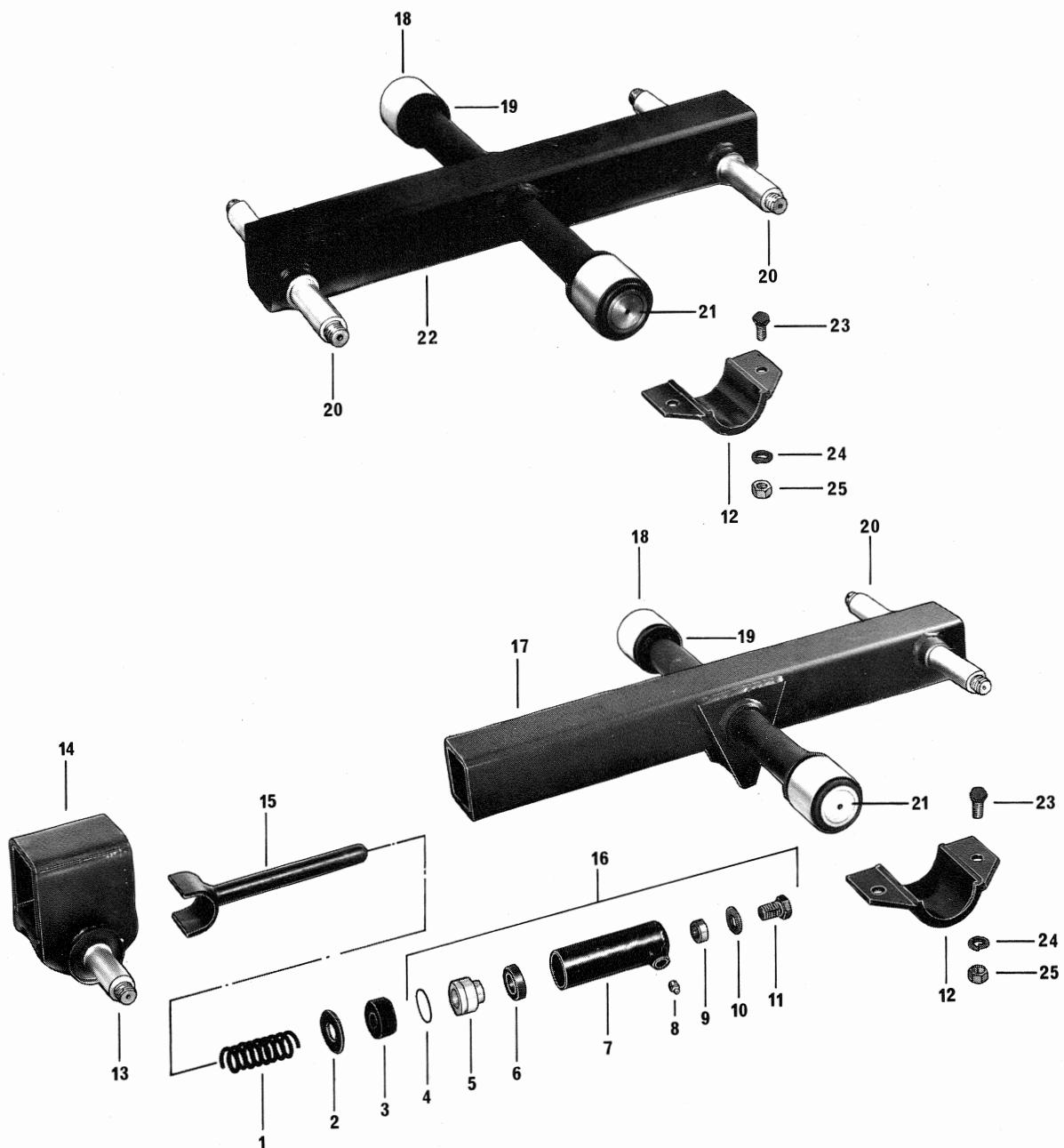
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	602 0023	Flange - inner wheel (with cup).....	4
2	105 0010	Cup - bearing.....	8
3	670 0205	Tire - solid.....	4
4	602 0015	Spacer - insert.....	68
5	602 0024	Flange - outer wheel (with cup).....	4
6	309 8006	Bolt.....	68
7	387 2024	Nut.....	68
8	105 0012	Cone - bearing.....	8
9	603 0295	Spacer.....	4
10	602 0007	Excluder - wheel mud.....	4
11	106 3022	Seal - wheel.....	4
12	371 0062	Pin - cotter.....	4
13	681 0002	Ass'y - hub cap (with grease fitting	4
14	408 2001	Fitting - grease.....	4
15	670 0214	Excluder - mud (rubber).....	4
16	602 0025	Washer - spindle.....	4
17	389 8006	Nut - spindle.....	4

BOMBARDIER LTD/LTEE

SECTION 02/4 - 1st PRINT
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

DECEMBER 1969.



LITHO'D IN CANADA

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 SECTION 03/1 - 1st PRINT
 1st MODEL (ISSUE 1)

DECEMBER 1969.

SUSPENSION

MUSKEG M.T.F.D.

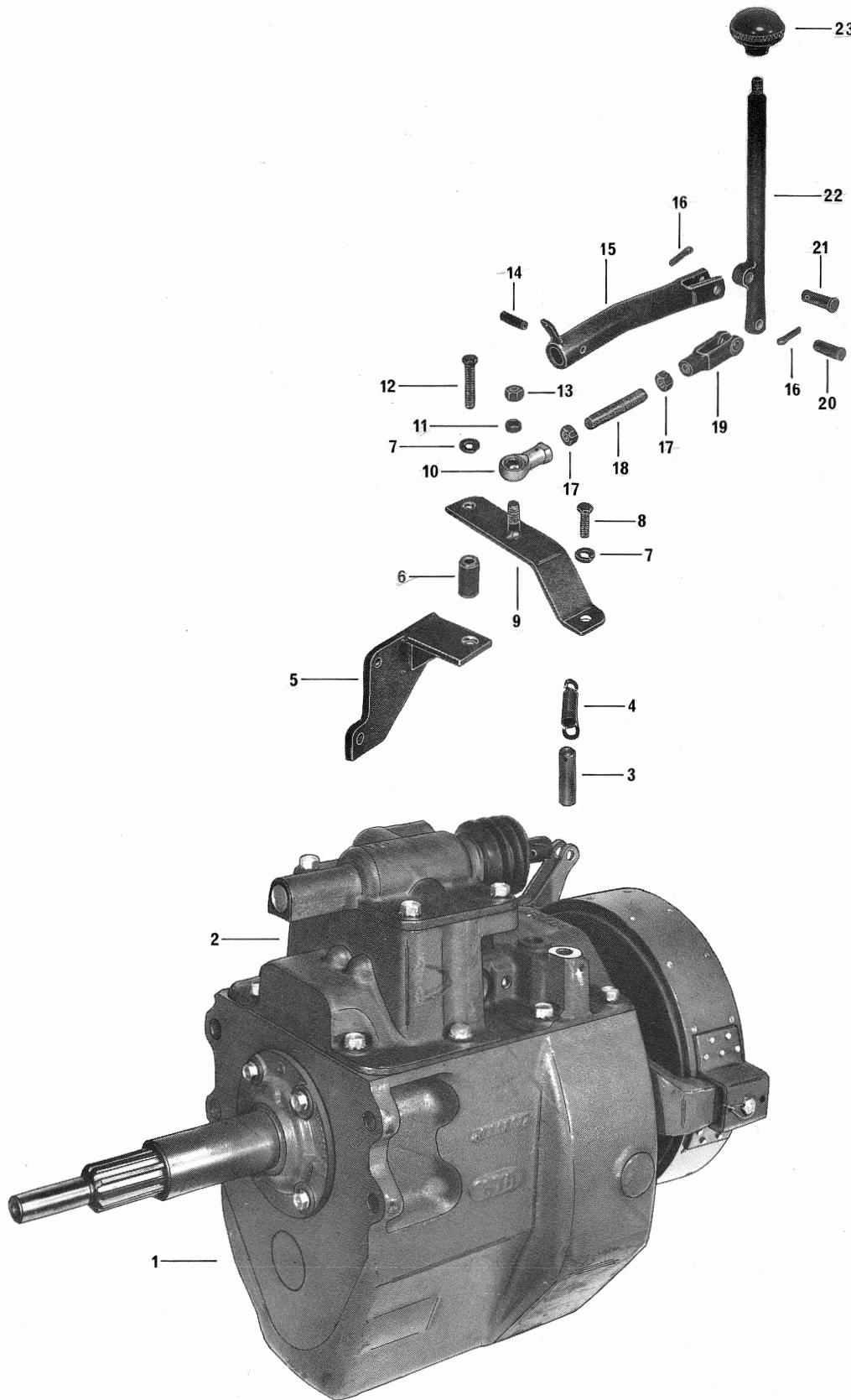
SUSPENSION

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	603 0290	Beam - R.H. side.....	1
	603 0389	Beam - L.H. side.....	1
1	603 0199	Spring - packing.....	2
2	603 0198	Washer - packing.....	2
3	603 0197	Felt - packing.....	2
4	106 0010	Ring.....	2
5	603 0200	Piston - adjuster.....	2
6	670 0304	Cup.....	2
7	603 0314	Housing - adjuster.....	2
8	108 2005	Fitting - grease.....	2
9	603 0184	Spacer - bolt.....	2
10	391 0036	Washer.....	2
11	300 0251	Bolt.....	2
12	603 0297	Collar - silent block.....	8
13	603 0107	Spindle.....	2
14	603 0024	Spindle - rear.....	2
15	603 0157	Yoke - adjuster.....	2
16	681 0133	Ass'y hydraulic track adjuster.....	2
17	681 0115	Ass'y - rear tandem spindle (with silent block).....	2
17	603 0298	Tandem - rear spindle.....	2
18	660 3008	Block silent.....	8
19	603 0301	Spacer - silent block.....	8
20	603 0072	Spindle.....	6
21	603 0300	Shaft - cross.....	4
22	681 0116	Ass'y - front tandem spindle (with silent block).....	2
22	603 0299	Tandem - front spindel.....	2
23	301 6223	Bolt.....	16
24	392 0032	Lockwasher.....	16
25	389 8041	Nut.....	16
	300 0253	Bolt.....	4
	300 0252	Bolt (end of side beams).....	4
	380 6035	Nut.....	4
	300 8153	Bolt (side beam).....	16
	392 0028	Lockwasher.....	16
	389 8042	Nut.....	16

TRANSMISSION

MUSKEG M.T.F.D.

TRANSMISSION



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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TRANSMISSION

MUSKEG M.T.F.D.

TRANSMISSION

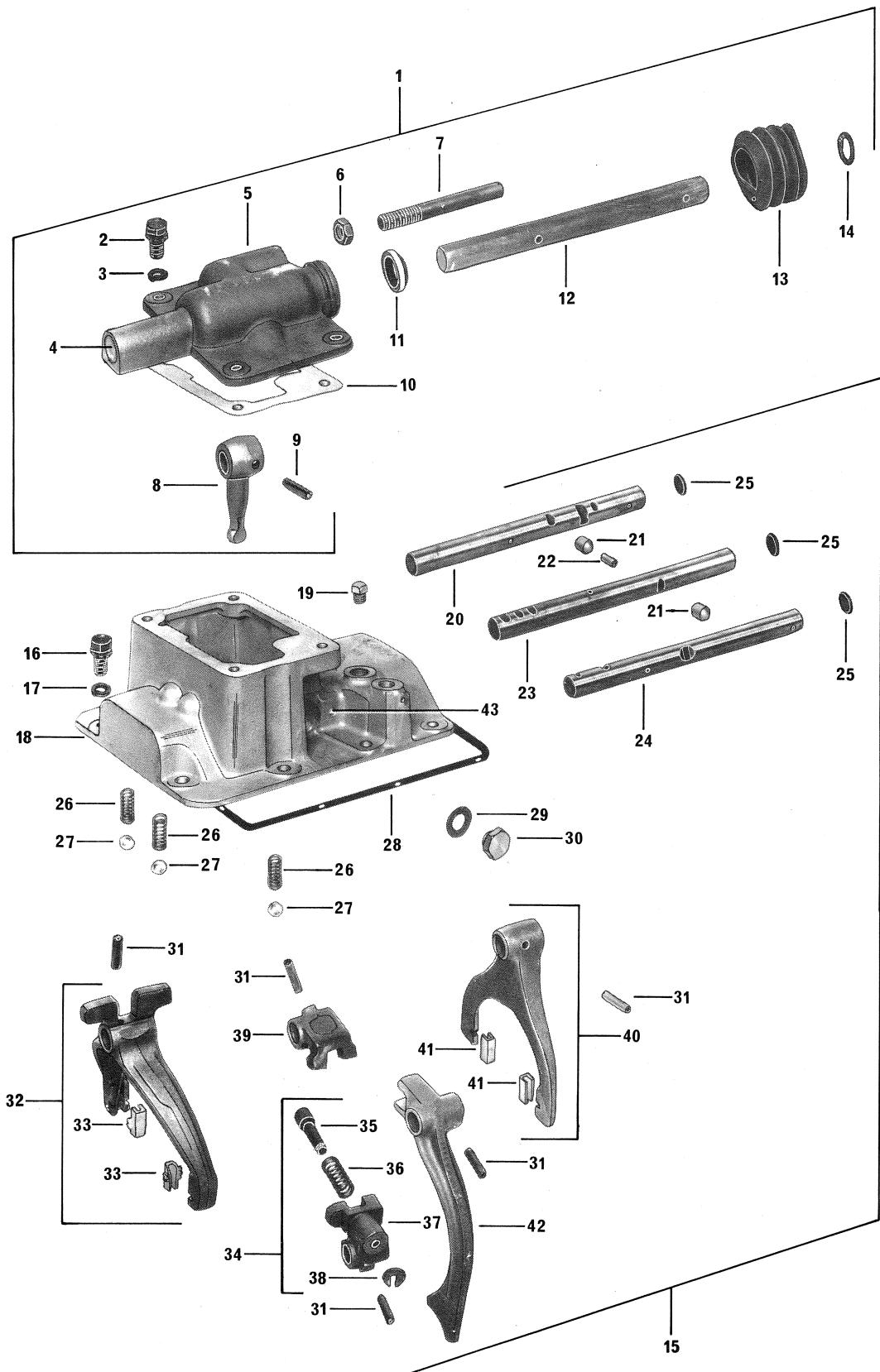
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	119 0005	Ass'y - transmission.....	1
2	682 00023	Ass'y - cover.....	1
3	604 0145	Pin - anchor (gearshift return spring)	1
4	607 0102	Bracket - brake cable.....	1
6	606 0068	Spacer.....	1
7	392 0024	Lockwasher.....	2
8	300 4084	Bolt (brake cable bracket).....	1
9	604 0073	Bracket - gearshift guide.....	1
10	114 0082	End - spherco rod.....	1
11	604 0071	Bushing.....	1
12	300 4089	Bolt (brake cable bracket).....	1
13	387 2024	Nut.....	1
14	372 1120	Pin - roll.....	1
15	604 0068	Extension -selector shaft.....	1
16	371 0031	Pin - cotter.....	2
17	380 6024	Nut.....	2
18	607 0051	Rod.....	1
19	114 0040	Yoke - clevis.....	1
20	114 0051	Pin - clevis.....	1
21	114 0332	Pin - clevis.....	1
22	604 0143	Lever - shifter.....	1
23	102 2001	Knob - gearshift.....	1

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LITHO'D IN CANADA

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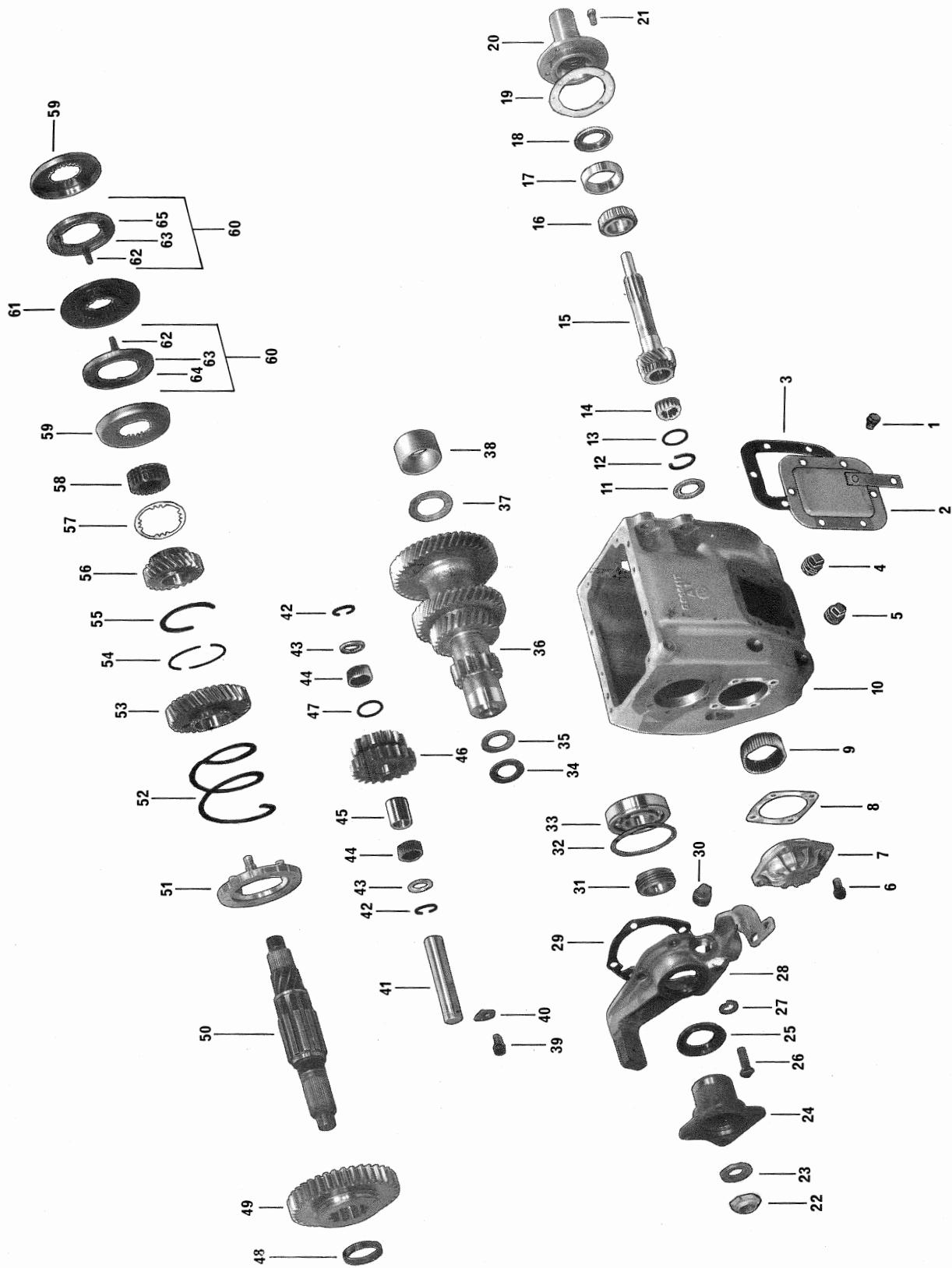
TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	683 0002	Ass'y - upper cover (except gasket)...	1
2	300 4083	Bolt.....	4
3	394 0024	Lockwasher.....	4
4	119 1140	Plug.....	1
5	119 1198	Cover - upper.....	1
6	119 1140	Plug.....	1
7	102 2360	Plug - interlock.....	1
8	119 1201	Lever.....	1
9	119 1199	Pin.....	1
10	119 1188	Gasket.....	1
11	119 1139	Seal.....	1
12	119 1200	Rail.....	1
13	119 1203	Boot.....	1
14	119 1202	Ring - snap.....	1
15	682 0023	Ass'y - cover lower.....	1
16	102 2128	Screw & lockwasher.....	2
16	102 2142	Screw.....	1
16	119 1184	Screw.....	1
16	119 1185	Screw.....	4
17	392 0026	Washer.....	2
17	119 1186	Washer.....	4
18	119 1204	Cover - lower.....	1
19	108 7005	Plug.....	1
20	102 2303	Rail (low & 2nd shift).....	1
21	102 2015	Plunger.....	2
22	102 2017	Pin - rail interlock.....	1
23	102 2301	Rail - 3rd & 4th shift.....	1
24	102 2403	Rail - reverse shift.....	1
25	102 2407	Plug - expansion.....	3
26	102 2198	Spring - poppet ball.....	3
27	102 9011	Ball - poppet.....	3
28	102 2300	Gasket - trans. cover.....	1
29	119 1073	Gasket - back-up light.....	1
30	119 1145	Plug - back-up light.....	1
31	102 2217	Pin.....	5
32	119 1205	Ass'y - fork (3rd & 4th shift).....	1
33	102 2224	Insert.....	2
34	119 1206	Ass'y - lug (reverse shift).....	1
35	102 2346	Plunger (reverse shift).....	1
36	102 2020	Spring.....	1
37	102 2225	Lug.....	1
38	102 2344	Washer.....	1
39	102 2306	Lug (low & 2nd shift).....	1
40	102 2401	Ass'y - fork (low & 2nd shift).....	1
41	102 2402	Insert.....	2
42	102 2305	Fork (reverse shift).....	1

TRANSMISSION

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TRANSMISSION



BOMBARDIER LTD/LTEE

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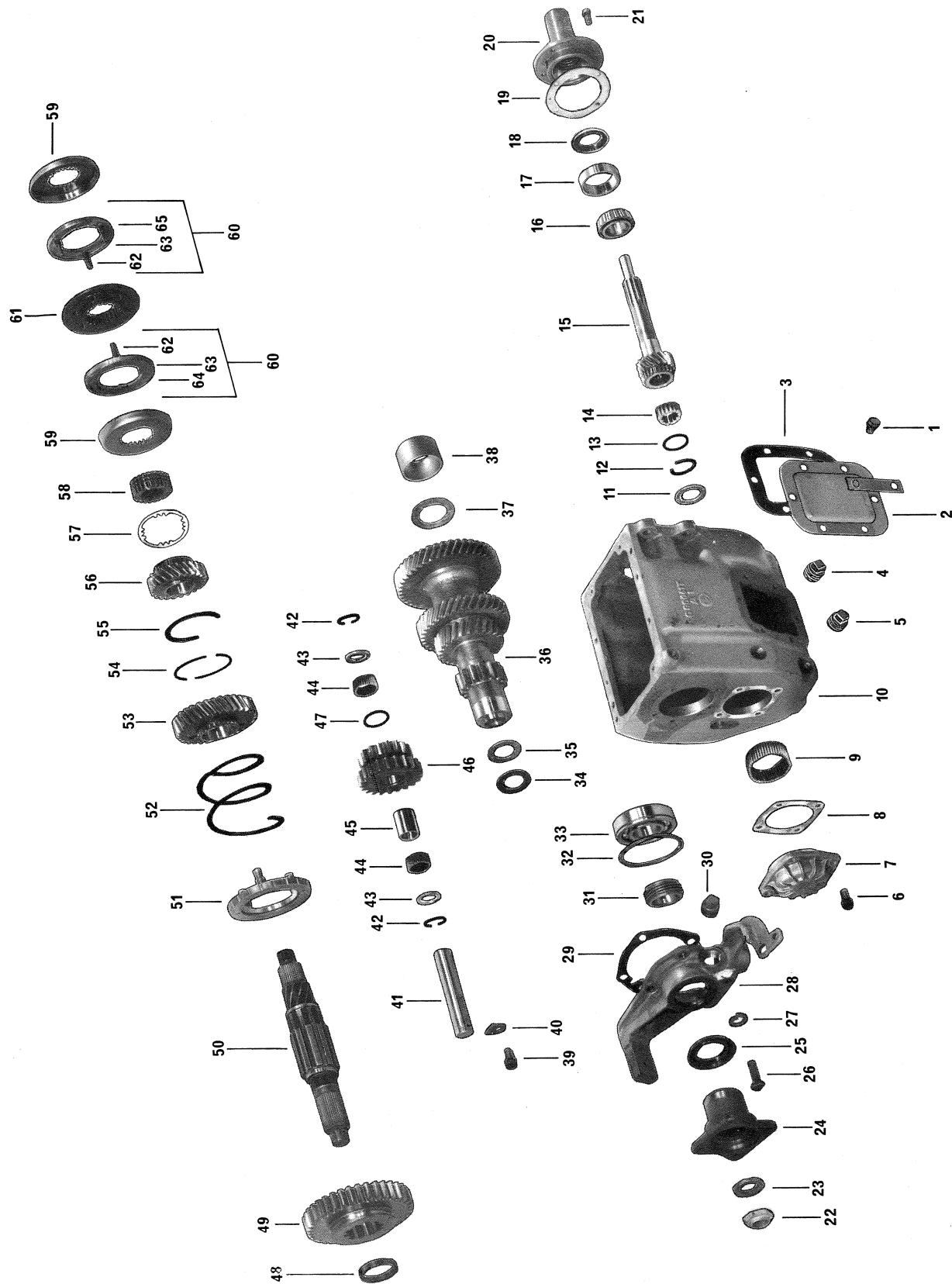
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	119 1057	Screw & L.W. P.T.O. cover.....	6
2	102 2013	Cover - P.T.O.....	1
3	102 2009	Gasket - P.T.O. cover.....	1
4	108 7003	Plug - filler.....	1
5	102 9127	Plug - drain (magnetic).....	1
6	102 2128	Screw & L.W. - cluster gear rear retainer.....	4
7	102 2293	Retainer - cluster gear rear brg.....	1
8	102 2294	Gasket - cluster gear rear retainer..	1
9	102 2125	Bearing - cluster gear needle.....	1
10	102 2071	Case-transmission.....	1
11	102 2392	Bearing - synchro. clutch gear thrust	1
12	102 2284	Snap ring - pilot brg.....	1
13	102 2354	Washer - pilot brg.....	1
14	102 2319	Roller - pilot brg.....	14
15	102 2391	Gear-main drive.....	1
16	105 0076	Bearing cone-drive gear.....	1
17	105 0077	Bearing cup-drive gear.....	1
18	102 2389	Oil seal - D/G brg. retainer.....	1
19	102 2390	Gasket - drive gear brg retainer.....	2
19	102 2405	Shim - drive gear brg retainer.....	as req'd
20	119 1217	Retainer-drive gear bearing.....	1
21	102 2129	Screw-drive gear brg retainer.....	4
22	102 2356	Nut - mainshaft.....	1
23	102 2357	Washer - mainshaft.....	1
24	119 1179	Flange.....	1
25	101 2012	Oil seal - M/S rear retainer.....	1
26	300 4083	Screw-main shaft rear brg retainer...	5
27	394 0024	Lockwasher-main shaft rear brg retainer.....	5
28	102 2404	Retainer-main shaft rear brg.....	1
29	119 1219	Gasket-main shaft rear brg retainer..	as req'd (average 2)
30	102 2412	Plug- speedo. hole.....	1
31	119 1066	Spacer-speedo gear.....	1
32	119 1016	Snap ring-main shaft rear brg.....	1
33	102 9389	Bearing-main shaft rear.....	1
34	102 2292	Race - cluster gear rear brg.....	1
35	102 2321	Bearing - cluster gear rear.....	1
36	102 2275	Gear-cluster.....	1
37	102 2355	Washer - cluster gear front thrust...	1
38	102 2126	Bearing - cluster gear front.....	1
39	119 1057	Screw & L.W. shaft plate lock.....	1
40	102 2166	Plate - rev. idler gear shaft lock...	1
41	102 2165	Shaft - reverse idler gear.....	1
42	102 2298	Ring - snap.....	2
43	102 2380	Washer.....	2
44	102 2322	Bearing - needle.....	68
45	102 2296	Race - gear inner.....	1
46	119 1218	Gear-reverse idler.....	1
47	102 2297	Spacer.....	1
48	102 2291	Spacer - mainshaft.....	1

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BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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TRANSMISSION

MUSKEG M.T.F.D.

TRANSMISSION

REF. NO.	PART. NO.	DESCRIPTION	QUANTITY PER VEHICLE
49	102 2288	Gear - main shaft low speed.....	1
50	102 2396	Mainshaft.....	1
51	102 2399	Ass'y - 2nd spd. inner ring & pin...	1
52	102 2289	Spring - 2nd spd. synch.....	1
53	102 2287	Gear - main shaft 2nd. speed.....	1
54	102 2213	Split ring - M/S 2nd. speed gear....	1
55	102 2290	Snap ring - 2nd.speed synch. pin....	1
56	102 2286	Gear - main shaft 3rd. speed.....	1
57	102 2214	Shim - synch. adjusting (thin).....	as req'd
57	102 2215	Shim - synch. adjusting (thick).....	as req'd
58	102 2395	Gear - synch. clutch.....	1
59	102 2146	Ring - synch. outer stop.....	2
60	102 2219	Ass'y - synch. inner stop ring & pin	2
61	102 2216	Clutch - synch. sliding.....	1
62	119 1007	Pin - synch. inner stop ring.....	6
63	102 2363	Rivet - 2nd. spd. synch.ring.....	6
64	102 1159	Ring - 2nd. spd. synch. inner stop..	1
65	119 1160	Ring - 2nd. spd. synch. clutch pin..	1
	119 0005	Ass'y - Transmission.....	1

BOMBARDIER LTD/LTEE

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LITHO'D IN CANADA

1st MODEL

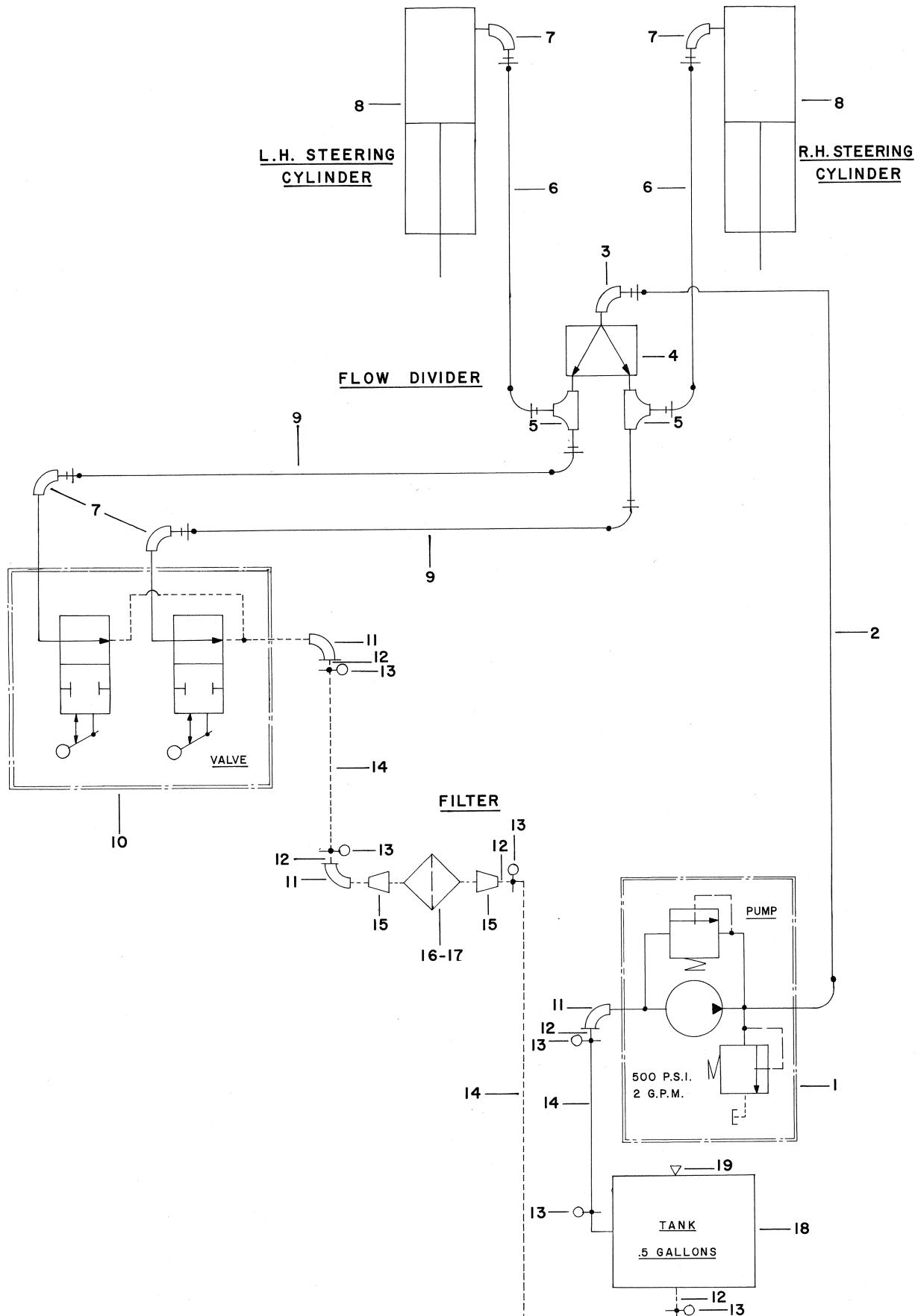
(ISSUE 1)

DECEMBER 1969.

STEERING

MUSKEG M.T.F.D.

CONDUITE



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 06/1 - 1st PRINT
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STEERING

MUSKEG M.T.F.D.

CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	681 0124	Ass'y pump.....	1
2	626 0445	Ass'y - bulk hose (with fittings).....	1
2	107 2019	Hose - bulk (multiple 12").....	As req'd
3	108 0015	Elbow.....	1
4	115 0010	Divider - flow.....	1
5	108 4032	Tee.....	2
6	626 0449	Ass'y - bulk hose (with fittings).....	2
6	107 2019	Hose - bulk (multiple 12").....	As req'd
7	108 4033	Elbow.....	4
8	680 0295	Ass'y - cylinder.....	2
9	626 0448	Ass'y - bulk hose (with fittings).....	2
9	107 2019	Hose - bulk (multiple 12").....	As req'd
10	680 0310	Ass'y valve.....	1
11	108 0014	Elbow - street.....	3
12	662 6020	Extension -valve.....	5
13	108 8004	Clamp - worm gear hose.....	6
14	107 3001	Hose - paragas (multiple 12").....	As req'd
15	108 7021	Bushing - reducing.....	2
16	114 0052	Filter - oil.....	1
17	118 9001	Element - oil filter.....	1
18	626 0444	Tank - oil.....	1
19	108 7005	Plug.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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STEERING

MUSKEG M.T.F.D.

CONDUITE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
606 0117	Plate - steering lever.....	2
606 0122	Pin -steering lever (short).....	2
114 0033	Clip.....	4
606 0121	Lever rod - L.H. steering.....	1
606 0120	Lever rod - R.H. steering.....	1
606 0010	Pin - steering lever (long).....	2
606 0002	Nut - yoke adjuster.....	2
380 6030	Nut.....	2
680 0295	Ass'y - steering cylinder.....	2
606 0038	Ass'y - adjusting clevis.....	2
380 6030	Nut.....	2
114 0061	Pin - clevis.....	4
371 0011	Pin - cotter.....	4
114 0052	Filter - oil.....	1
118 9001	Element - oil filter.....	1
300 4081	Bolt (oil filter).....	2
392 0024	Lockwasher.....	2
626 0450	Support - divider.....	1
115 0010	Divider - flow 50/50.....	1
300 0006	Bolt (flow divider).....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
606 0130	Hinge - valve.....	1
300 0061	Bolt (valve hinge).....	1
387 2022	Nut.....	3
300 0043	Bolt (steering brake lever).....	2
392 0022	Lockwasher.....	2
380 6022	Nut.....	2
662 6051	Ass'y - pump & tank.....	1
662 6052	Bracket - adjustment.....	1
102 9563	Pulley.....	1
102 9565	Bracket.....	1
626 0451	Shim - .015" (pump adjusting).....	As req'd
626 0452	Shim - .035" (pump adjusting).....	As req'd
617 0345	Washer.....	2
300 4089	Bolt.....	1
300 0089	Bolt.....	1
387 2024	Nut.....	1
107 9021	V - belt.....	1
612 0057	Bracket - oil filter.....	1
606 0134	Bracket - R.H. valve.....	1
606 0135	Bracket - L.H. valve.....	1
300 0000	Bolt.....	4
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
606 0136	Pin - stopper.....	1
371 0011	Pin - cotter.....	1
680 0319	Lever - right hand steering (with handle grip).....	1
680 0322	Lever - left hand steering (with handle grip).....	1
606 0137	Lever - right hand steering.....	1

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STEERING

MUSKEG M.T.F.D.

CONDUITE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
606 0138	Lever - left hand steering.....	1
414 0002	Grip - handle.....	1
626 0444	Tank - oil.....	1
300 0040	Bolt (oil tank).....	2
392 0022	Lockwasher.....	2
380 6022	Nut.....	2
114 0356	Cap - oil tank.....	1

BOMBARDIER LTD/LTEE

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1st MODEL (ISSUE 1)

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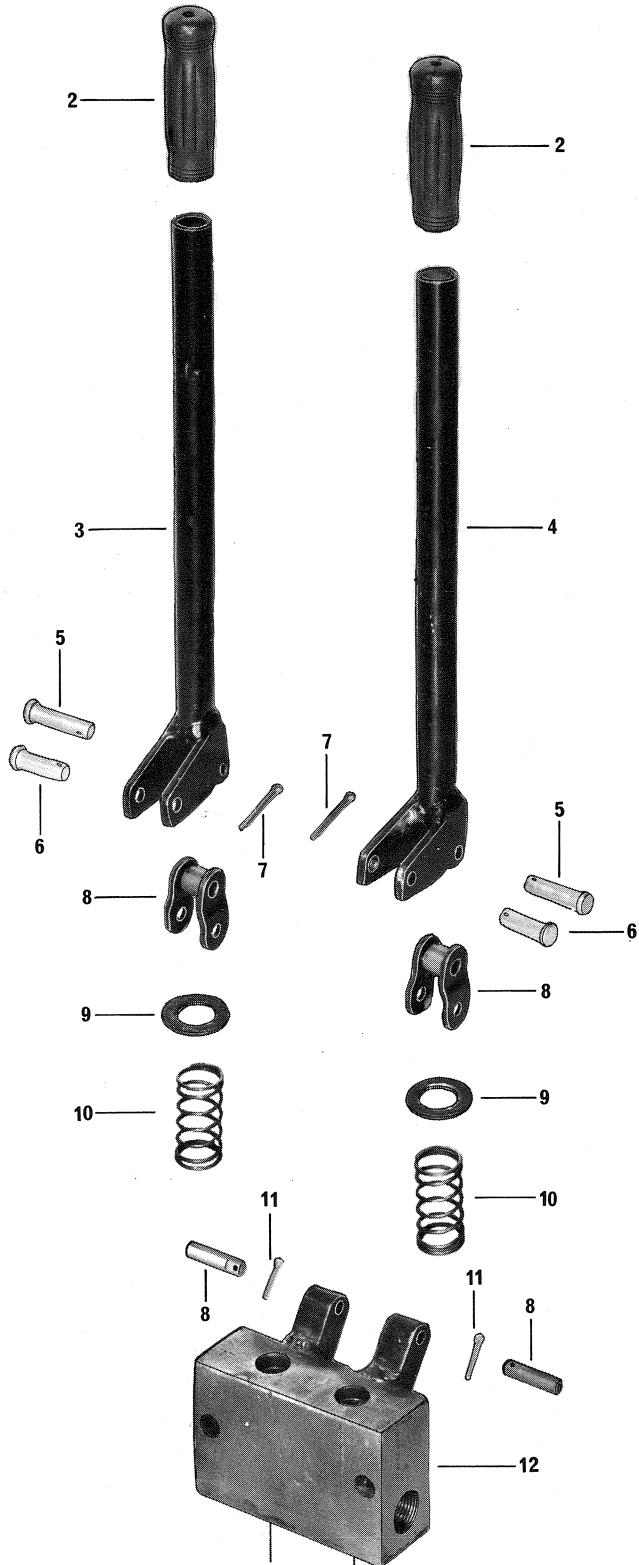
STEERING

MUSKEG M.T.F.D.

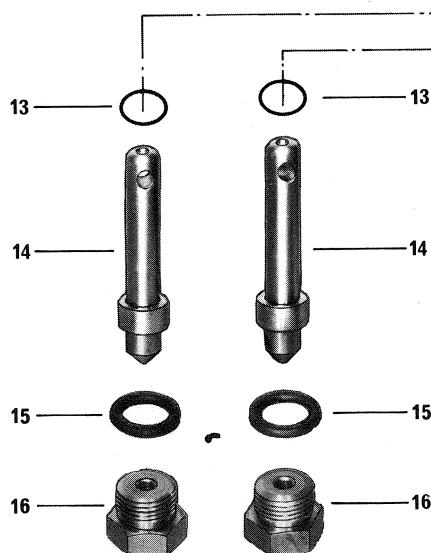
CONDUITE



1



CONTROL VALVE



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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STEERING

MUSKEG M.T.F.D.

CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	680 0538 680 0310	Ass'y - control valve.....	1
2	114 0110	Grip - handle.....	2
3	626 0440	Arm - L.H. control.....	1
4	626 0439	Arm - R.H. control.....	1
5	662 6049	Pin.....	2
6	114 0041	Pin - clevis.....	2
7	371 0006	Pin - cotter.....	2
8	112 6004	Link - off set (with pin).....	2
9	626 0441	Washer.....	2
10	114 0222	Spring - control valve return.....	2
11	371 0001	Pin - cotter.....	2
12	626 0345	Body - valve.....	1
13	106 0020	"O" ring.....	2
14	626 0344	Spool - control valve.....	2
15	106 0019	"O" ring.....	2
16	626 0343	Seat - control valve.....	2

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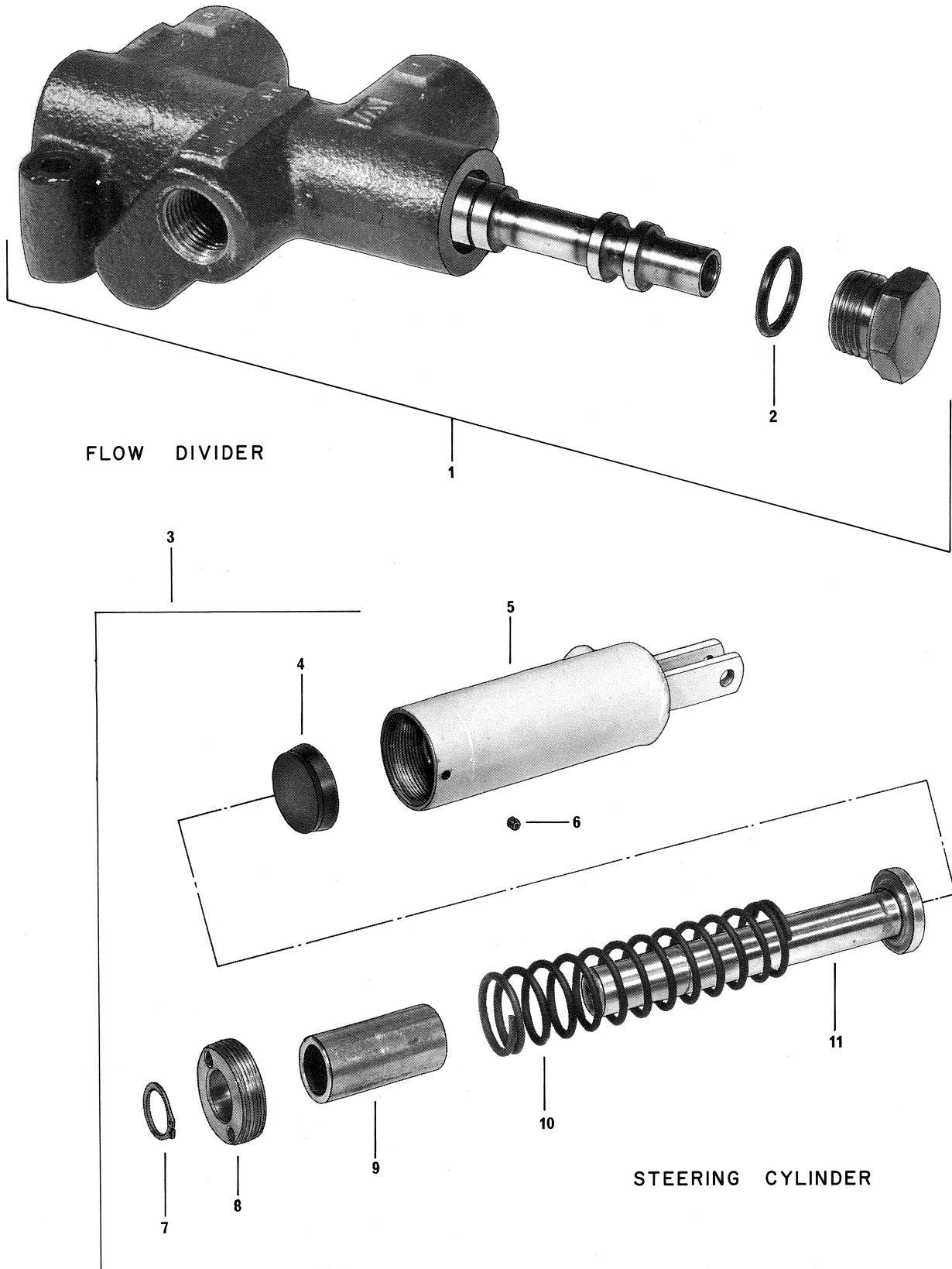
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1st MODEL (ISSUE 1)

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STEERING

MUSKEG M.T.F.D.

CONDUITE



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STEERING

MUSKEG M.T.F.D.

CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	115 0010	Divider - flow 50/50.....	1
2	106 0029	"O" ring.....	1
3	680 0295	Ass'y - steering cylinder.....	2
4	106 9001	Cup.....	2
5	626 0416	Housing - cylinder.....	2
6	365 2017	Screw - set.....	2
7	371 9009	Ring - snap.....	2
8	626 0419	Cap - cylinder.....	2
9	626 0418	Spacer - piston.....	2
10	114 0329	Spring - piston return.....	2
11	626 0417	Rod - piston.....	2

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PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
607 0114	Spring - return.....	1
391 0025	Flat washer - return spring.....	1
380 6022	Nut.....	1
114 0332	Pin - clevis (brake).....	1
371 0011	Pin - cotter.....	1
607 0111	Spring.....	1
607 0113	Pad - lock rod.....	1
607 0102	Bracket - brake cable.....	1
606 0068	Spacer.....	1
392 0024	Lockwasher.....	2
300 4089	Bolt (brake cable bracket).....	1
300 4084	Bolt (brake cable bracket).....	1
607 0108	Support - foot brake.....	1
607 0109	Pedal - foot brake.....	1
607 0074	Lock - parking brake.....	1
371 0032	Pin - cotter.....	2
101 3003	Pedal - brake rubber.....	1
300 0044	Bolt - (rubber pedal).....	1
392 0022	Lockwasher.....	1
380 6022	Nut.....	1
607 0112	Rod - lock.....	1
607 0110	Bushing.....	1
391 0021	Washer.....	1
371 0011	Pin - cotter.....	2
101 4011	Ass'y - brake cable.....	1
300 0001	Bolt - (cable clip).....	1
392 0019	Lockwasher.....	1
380 6019	Nut.....	1
300 0087	Bolt (foot brake support).....	2
392 0024	Lockwasher.....	2
380 6024	Nut.....	2
114 0360	Pin - clevis.....	1
408 2001	Fitting - grease (foot brake housing).....	1
102 4040	Screw - brake link.....	1
119 1180	Ass'y - brake kit.....	1
119 1209	Ass'y - drum & yoke.....	1
102 4031	Ass'y - bank & lining.....	1
102 4005	Spring clip - anchor.....	1
102 4042	Screw - anchor spring clip.....	1
101 2001	Bolt - guide.....	1
380 9019	Nut - guide bolt.....	2
102 4052	Bolt - brake band adj.....	1
102 4008	Spring - brake adj. bolt.....	2
119 1111	Nut - brake adj. bolt.....	2
102 4018	Lever - brake cam.....	2
102 4017	Clevis - brake cam lever.....	1
371 0032	Cotter pin - brake cam lever clevis.....	1
391 0027	Washer - brake operating.....	1
102 2186	Link - brake spacer.....	1
102 4041	Lockwire - anchor clip.....	1
102 4038	Drum - brake.....	1

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BRAKE

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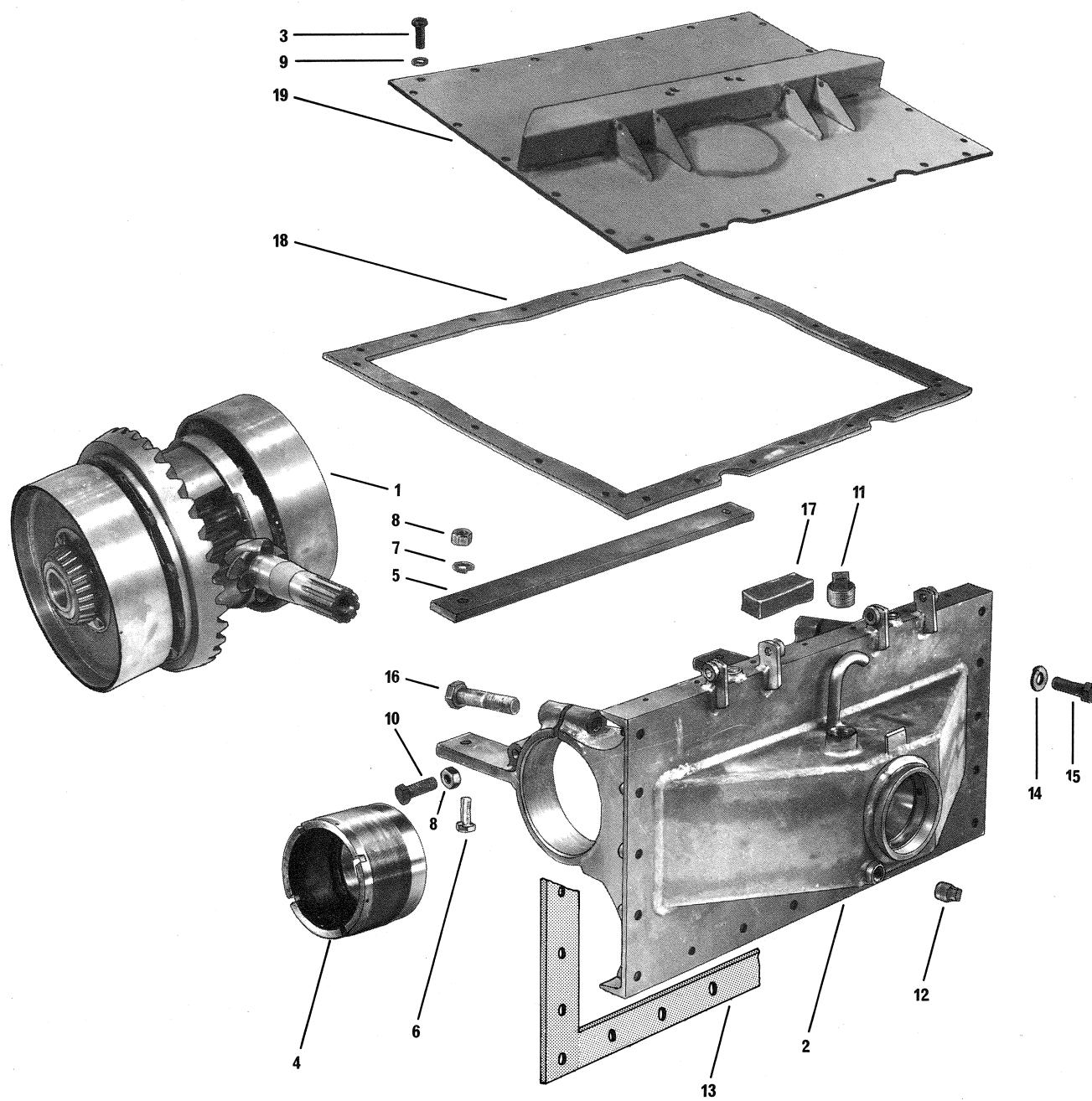
FREIN

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
119 1179	Flange.....	1
119 1103	Bolt - flange.....	4
119 1102	Nut - flange bolt.....	4
604 0144	Bracket - brake cable.....	1

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DIFFERENTIAL

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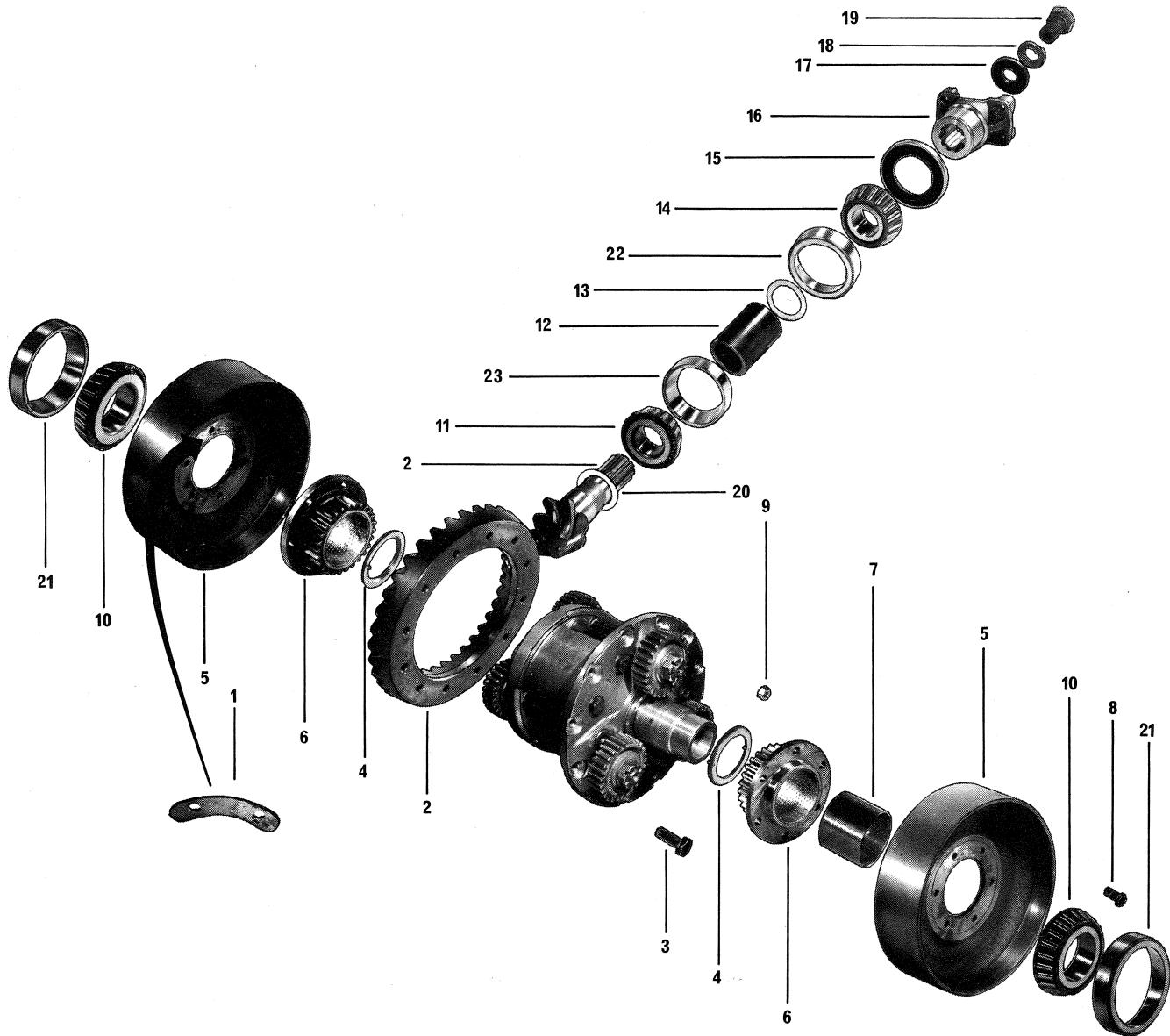
DIFFERENTIEL

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	681 0118	Ass'y - differential.....	1
2	608 0080	Carrier - differential.....	1
3	300 0041	Bolt.....	28
4	608 0018	Adjuster - bearing.....	2
5	608 0041	Stiffener.....	1
6	300 0154	Bolt.....	2
7	392 0028	Lockwasher.....	2
8	380 6028	Nut.....	3
9	392 0022	Lockwasher.....	28
10	660 8007	Bolt - adjuster.....	1
11	108 7003	Plug - filler.....	1
12	108 7005	Plug - drain.....	1
13	670 0807	Gasket - differential.....	1
14	399 8004	Lockwasher.....	16
15	300 0085	Bolt.....	16
16	660 8003	Bolt.....	2
17	114 0359	Felt - yoke packing.....	2
18	670 0801	Gasket - differential cover.....	1
19	608 0088	Cover - differential.....	1
	608 0035	Gauge - oil level.....	1

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DIFFERENTIAL

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DIFFERENTIEL

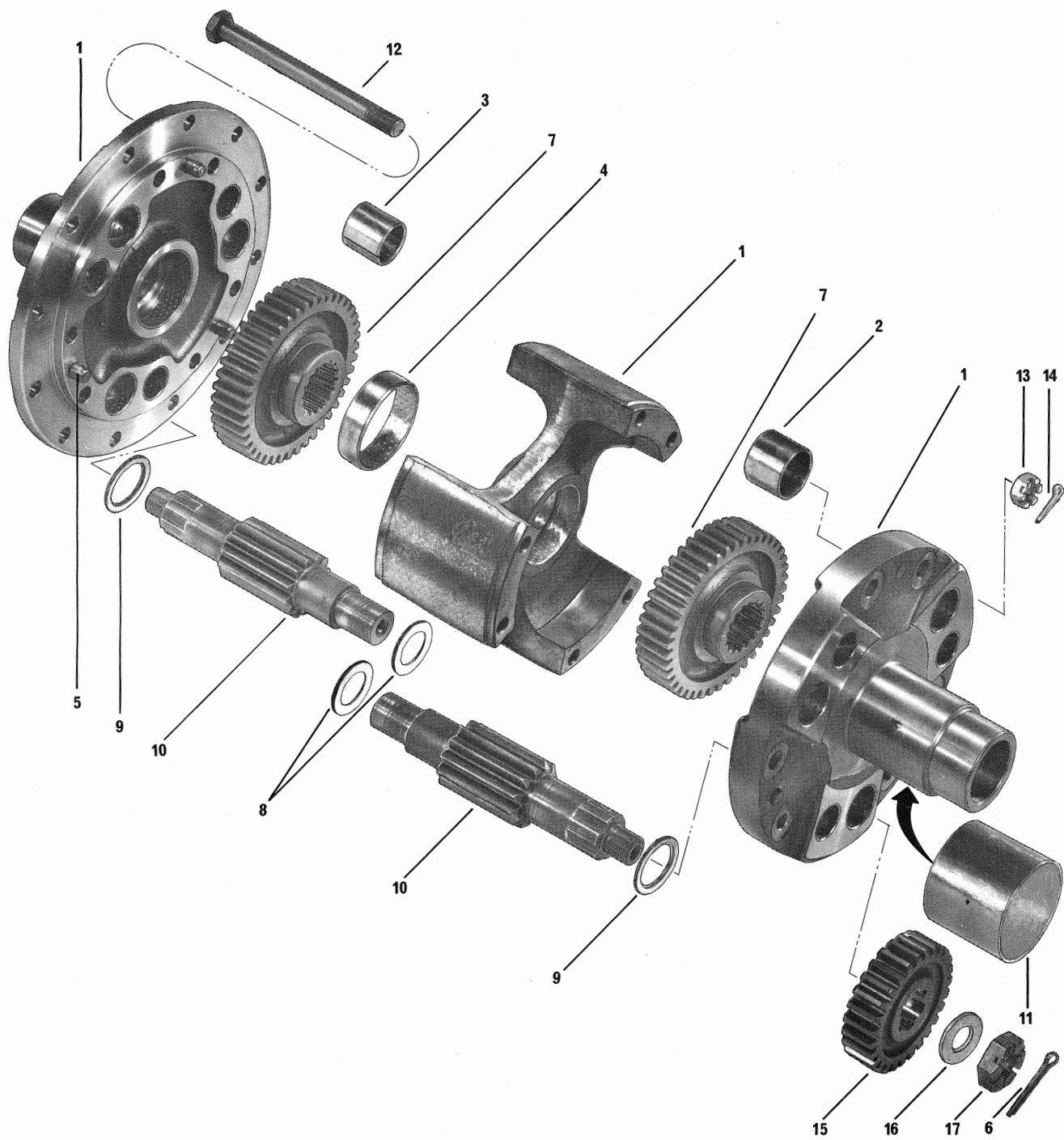
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	608 0067	Lock - brake drum bolt.....	6
2	103 1099	Set - crown gear & pinion.....	1
3	309 8032	Bolt - crown gear.....	12
4	608 0013	Washer - thrust.....	2
5	608 0002	Drum - steering brake.....	2
6	608 0011	Gear - brake drum.....	2
7	105 6001	Bushing - brake drum gear.....	2
8	309 8008	Screw - hex. cap.....	12
9	389 8004	Nut.....	12
10	105 0025	Cone - bearing diff. carrier.....	2
11	105 0080	Cone - bearing.....	1
12	608 0084	Sleeve - drive pinion.....	1
13	608 0004	Shim .003".....	As req'd
13	608 0005	Shim .005".....	As req'd
13	608 0006	Shim .010".....	As req'd
13	608 0007	Shim .036".....	As req'd
13	608 0009	Shim .015".....	As req'd
13	608 0063	Shim .020".....	As req'd
14	105 0029	Cone - bearing.....	1
15	106 3002	Seal - oil.....	1
16	103 1004	Yoke - pinion.....	1
17	608 0008	Washer - locking.....	1
18	392 0035	Lockwasher.....	1
19	660 8006	Bolt - pinion flange.....	1
20	608 0064	Shim .003".....	As req'd
20	608 0065	Shim .005".....	As req'd
20	608 0066	Shim .010".....	As req'd
21	105 0024	Cup - bearing diff. carrier.....	2
22	105 0028	Cup - bearing.....	1
23	105 0041	Cup - bearing.....	1

BOMBARDIER LTD/LTEE

DIFFERENTIAL

MUSKEG M.T.F.D.

DIFFERENTIEL



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 08/5 - 1st PRINT
1st MODEL

DECEMBER 1969.

DIFFERENTIAL

MUSKEG M.T.F.D.

DIFFERENTIEL

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	682 0022	Ass'y - diff. center & side cases (with bushing).....	1
2	105 6003	Bushing (large).....	6
3	105 6002	Bushing (small).....	6
4	105 6007	Bushing - center & side cases.....	4
5	608 0019	Pin - dowel.....	6
6	371 0033	Pin - cotter.....	6
7	608 0024	Gear - axle to differential.....	2
8	114 0163	Washer - thrust.....	6
9	114 0162	Washer - thrust.....	6
10	608 0026	Gear - differential pinion.....	6
11	608 0076	Sleeve.....	2
12	309 8015	Bolt - gear case.....	6
13	381 2028	Nut.....	6
14	371 0011	Pin - cotter.....	6
15	608 0015	Gear - planetary.....	6
16	391 0036	Washer.....	6
17	389 8008	Nut.....	6

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 08/6 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

CLUTCH

MUSKEG M.T.F.D.

EMBRAYAGE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
609 0079	Pedal - clutch.....	1
300 0153	Bolt - clutch pedal.....	1
609 0080	Spring - clutch.....	1
102 6076	Ass'y - master cylinder.....	1
102 6080	Kit - (for seal master cylinder).....	1
108 0012	Plug.....	1
108 0034	Connector - male.....	1
300 0044	Bolt - master cylinder.....	4
392 0022	Lockwasher.....	4
380 6022	Nut.....	4
609 0074	Rod - master cylinder (with bushing).....	1
609 0078	Bushing.....	1
391 0023	Flat washer (cylinder rod).....	1
380 6022	Nut (cylinder rod).....	2
114 0062	Yoke - clevis.....	1
114 0103	Pin - clevis.....	1
371 0011	Pin - cotter.....	1
609 0081	Tubing - hydraulic clutch (with fittings) ..	1
108 0008	Nut (fitting).....	2
670 0901	Pad - clutch pedal.....	1
102 6079	Ass'y - cylinder clutch release slave.....	1
102 6081	Kit - seal (for clutch release slave).....	1
102 6071	Rod.....	1
392 0026	Lockwasher.....	2
300 4125	Bolt.....	2
114 0332	Pin - clevis.....	1
371 0011	Pin - cotter.....	1
102 6064	Disc. - clutch 12" dia.....	1
102 6063	Ass'y - clutch cover & press. plate.....	1
392 0024	Lockwasher.....	6
102 6065	Screw - clutch cover to flywheel.....	6
102 6070	Seal - clutch release fork.....	1
102 6006	Bearing - without sleeve.....	1
102 6067	Ass'y - clutch rel. brg. & sleeve complete.	1
102 6066	Spring - clutch rel. brg. pull back.....	2
102 6061	Ass'y - clutch rel. fork & spring.....	1
102 6068	Spring - clutch rel. fork pivot.....	1
102 6069	Pivot - clutch release fork.....	1
102 6078	Screw & washer - clutch release fork pivot.	1
102 6041	Spring - clutch pressure.....	9
102 6077	Package - lever.....	3
102 6073	Bracket.....	1
300 4121	Bolt.....	1
392 0026	Lockwasher.....	1

BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

THROTTLE

MUSKEG M.T.F.D.

ACCELERATEUR

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
610 0122	Pedal - throttle.....	1
300 0043	Bolt (throttle pedal).....	1
610 0121	Rod throttle.....	1
371 0011	Pin - cotter.....	1
610 0120	Swivel.....	1
380 6024	Nut (throttle swivel).....	1
101 8005	Clip - swivel.....	1
617 0733	Plate - pedal stopper.....	1
610 0016	Pad - throttle pedal.....	1
610 0118	Shaft - cross.....	1
300 4081	Bolt.....	2
392 0024	Lockwasher.....	2
610 0119	Rod - throttle (cross shaft to carburetor) ..	1
371 0001	Pin -cotter.....	1
101 3001	Joint - throttle ball.....	1
661 0003	Spring - throttle return.....	1
380 6019	Nut (throttle ball joint).....	1
392 0019	Lockwasher.....	1
612 0065	Rod - extension (carburetor).....	1
386 3019	Nut.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

PROPELLER SHAFT

MUSKEG M.T.F.D.

ARBRE DE COMMANDE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
103 0003	Shaft - propeller.....	1
103 0009	Flange - yoke.....	1
103 0064	Kit - journal & bearing repair.....	2
103 0047	Ring - snap.....	6
108 2010	Fitting - grease.....	2
103 0013	Shaft - yoke.....	1
103 0059	Seal.....	1
103 0077	Kit - dust cap & washer.....	1
108 2005	Fitting - grease.....	1
103 0029	"U" bolt.....	2
392 0024	Lockwasher.....	4
380 6024	Nut.....	4
119 1103	Bolt - flange.....	4
119 1102	Nut - flange.....	4

BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
107 3001	Hose - oil pan drain (multiple 12").....	As req'd
300 0087	Bolt (rear motor support).....	2
612 0007	Plate - rear motor insulator.....	1
670 1205	Insulator - rubber motor support.....	1
300 0131	Bolt (front motor support).....	2
661 2006	Spacer - motor support.....	2
670 1207	Rubber - motor support.....	4
612 0023	Washer (rear motor support).....	4
100 3005	Motor V-8, 318 C.I.D.....	1
300 4194	Bolt (transmission).....	4
392 0030	Lockwasher.....	4
102 9109	Gasket - oil filter cover.....	1
102 9506	Cover - oil filter.....	1
102 9507	Bolt - oil filter center.....	1
102 0509	Washer - fibre.....	1
102 9508	Block - oil filter.....	1
102 2055	"O" ring.....	1
108 4034	Pipe - male.....	1
108 0016	Elbow 90°.....	1
102 9512	Thermostat 160°.....	1
101 9008	Gasket - elbow.....	1
399 8004	Washer (with rubber).....	8
661 6003	Fan.....	1
108 0019	Cock - drain.....	2
614 0059	Manifold - exhaust.....	2
102 1035	Screw & stud washer - manifold.....	8
102 9560	Screw - manifold (short).....	4
102 9561	Screw - manifold (long).....	4
102 9269	Gasket - oil pan.....	1
380 6022	Nut - manifold end stud.....	4
661 1211	Pan - oil.....	1
108 0003	Cock - oil drain.....	1
107 5001	Hose - vent.....	As req'd
612 0064	Clamp - hose.....	1
300 4041	Bolt (hose clamp).....	1
392 0022	Lockwasher.....	1
626 0437	Ass'y - high pressure hose.....	1
626 0425	Ass'y - high pressure hose.....	1
107 2019	Hose - high pressure 3/8" dia. (multiple 12")	As req'd
114 0031	Filter - oil.....	1
114 0032	Element - oil filter.....	1
300 0041	Bolt (oil filter).....	4
392 0022	Lockwasher.....	4
380 7022	Nut.....	4
391 0023	Flat washer.....	4
108 0015	Elbow - 90°.....	1
108 0033	Elbow - 45°.....	1
114 0145	Ass'y - hand choke.....	1
114 0368	Filter - air.....	1
114 0369	Element - air filter.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

FUEL

MUSKEG M.T.F.D.

CARBURANT

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
613 0068	Pad - tank.....	2
613 0014	Strap - fuel tank.....	2
613 0031	Fant - fuel.....	1
110 0006	Gauge & gasket - fuel tank.....	1
321 6061	Bolt.....	5
114 0010	Cap - fuel tank.....	1
321 6106	Bolt - (fuel tank strap).....	2
392 0019	Lockwasher.....	2
613 0001	Elbow - fuel tank oulet.....	1
102 3087	Hose fuel pump inlet.....	1
102 3002	Clamp.....	1
108 0006	Clamp - worm gear hose.....	1
108 4002	Fitting - sockless.....	1
613 0067	Line - fuel (with fittings).....	1

LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
 SECTION 13/1 - 1st PRINT
 1st MODEL (ISSUE 1)

DECEMBER 1969.

EXHAUST

MUSKEG M.T.F.D.

ECHAPPEMENT

PART NO.	DESCRIPTION	QTY PER VEHICLE	
		WO/H.P.	W/H.P.
614 0070	Pipe & muffler - exhaust.....	1	1
300 0127	Bolt.....	4	4
389 8002	Nut.....	4	4
114 0367	Cap - weather.....	2	-
614 0010	Spring - tail pipe.....	-	2
614 0071	Pipe - tail.....	-	2

LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
 SECTION 14/1 - 1st PRINT
 1st MODEL (ISSUE 1)

DECEMBER 1969.

ELECTRICAL (ENGINE)

MUSKEG M.T.F.D.

SYSTEME ELECTRIQUE
(MOTEUR)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
109 4031	Ass'y - wiring harness (motor).....	1
615 0114	Tube - wiring support.....	1
102 8111	Switch - solenoid (12 volts V-8).....	1
321 6100	Bolt (solenoid).....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
109 5033	Cable - battery (positif).....	1
410 9031	Clamp - battery cable.....	1
392 0022	Lockwasher.....	2
391 0023	Washer.....	2
380 9022	Nut - (solenoid).....	2
392 0014	Lockwasher.....	1
380 7013	Nut (solenoid).....	1
102 8159	Regulator - voltage (for alternator).....	1
321 6061	Bolt (voltage regulator).....	2
320 1060	Bolt (voltage regulator).....	1
392 0014	Lockwasher.....	3
385 7013	Nut.....	2
102 8163	Cover - alt. terminal.....	1
391 0021	Flat washer.....	1
392 0019	Lockwasher.....	1
380 9019	Nut.....	1
365 0002	Bolt (ground on alternator).....	1
392 0014	Lockwasher.....	1
109 5002	Cable - battery (négatif).....	1
300 4040	Bolt (battery cable).....	1
392 0022	Lockwasher.....	1
670 1502	Insulator (battery shock).....	1
110 3002	Battery.....	1
615 0004	Bracket - battery.....	1
300 0047	Bolt.....	2
392 0022	Lockwasher.....	2
380 6022	Nut.....	2
110 0014	Sender - oil (engine).....	1
110 0030	Sender - temperature gauge (engine).....	1
109 5001	Cable 19" L.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

ELECTRICAL (DASH)

MUSKEG M.T.F.D.

SYSTEME ELECTRIQUE
(TABLEAU DE BORD)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
110 1001	Switch - ignition.....	1
101 8001	Switch - starter.....	1
110 0016	Ammeter.....	1
110 0019	Gauge - temperature.....	1
110 0029	Meter - hour (12 volts).....	1
110 0003	Gauge - fuel.....	1
110 0011	Gauge - oil.....	1
110 1002	Switch - headlight.....	1
615 0110	Bracket - dash light.....	2
110 9001	Breaker - circuit.....	1
390 4021	Rivet - pop.....	2
661 5012	Ass'y - wire (hour meter).....	2
109 4030	Ass'y - wiring harness (dash).....	1

LITHO'D IN CANADA

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

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
109 4029	Ass'y - wiring harness (headlamp)	1
264 1001	Bulb (12 volts).....	2
107 9005	Grommet.....	2
615 0020	Housing - headlamp.....	2
360 4081	Bolt.....	2
615 0012	Seat - headlamp.....	2
670 1501	Rubber - headlamp support.....	2
391 0029	Flat washer.....	2
385 1024	Nut.....	2
109 0007	Plug - snap.....	2
110 9021	Clip - headlamp connector.....	4
109 1001	Connector - headlamp.....	2
615 0021	Ring - headlamp.....	2
321 6063	Bolt.....	2
385 1013	Nut.....	2
110 6029	Beam - sealed.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

ELECTRICAL
(WIRE)

MUSKEG M.T.F.D.

SYSTEME ELECTRIQUE
(FIL)

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

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
107 4011	Hose - radiator.....	1
108 8007	Clamp - hose.....	6
107 4012	Hose - radiator lower motor.....	2
616 0047	Hose - radiator metal.....	1
114 0170	Ass'y - radiator.....	1
114 0011	Cap- radiator.....	1
108 7061	Plug.....	1
617 0736	Support - radiator.....	1
300 0081	Bolt.....	4
392 0024	Lockwasher.....	4
380 6024	Nut.....	4
617 0741	Guard - radiator bottom air.....	1
300 0001	Bolt (radiator & air guard).....	6
392 0019	Lockwasher.....	6
380 6019	Nut.....	6

BODY

MUSKEG M.T.F.D.

CARROSSERIE

PART NO.	DESCRIPTION	QTY PER VEHICLE	
		WO/H.P.	W/H.P.
617 0726	Protector - gas tank.....	1	1
300 0041	Bolt (gas tank protector).....	4	4
392 0022	Lockwasher.....	4	4
391 0023	Flat washer.....	2	2
380 6022	Nut.....	4	4
320 1065	Bolt.....	4	4
392 0014	Lockwasher.....	4	4
385 5013	Nut.....	4	4
617 0729	Plate - front (transmission).....	1	1
300 0040	Bolt (front plate transmission).....	2	2
392 0022	Lockwasher.....	2	2
617 0731	Footrest.....	1	1
617 0734	Cowling - front engine.....	1	1
300 0041	Bolt (front engine cowling).....	2	2
392 0022	Lockwasher.....	2	2
380 6022	Nut.....	2	2
617 0735	Cowling - rear engine.....	1	1
300 0041	Bolt (rear engine cowling).....	4	4
392 0022	Lockwasher.....	4	4
380 6022	Nut.....	4	4
617 0737	Brace - engine cowling.....	2	2
300 0044	Bolt (engine cowling brace).....	4	4
392 0022	Lockwasher.....	4	4
380 6022	Nut.....	4	4
617 0742	Plate - air stopper.....	1	1
363 0103	Screw (air stopper plate).....	2	2
617 0172	Pin.....	1	1
371 0011	Pin - cotter.....	1	1
617 0740	Door - engine top.....	1	1
321 7100	Bolt.....	1	1
392 0019	Lockwasher.....	1	1
617 0738	Door - R.H. engine side door.....	1	1
617 0739	Door - L.H. engine side door.....	1	1
617 0727	Plate - dash.....	1	1
617 0073	Cap - drain plug (with rubber).....	1	1
670 1704	Rubber.....	1	1
617 0074	Screw drain plug.....	1	1
617 0743	Protector - head.....	-	1
300 0153	Bolt (head protector).....	-	8
380 6028	Nut.....	-	16
392 0028	Lockwasher.....	-	16
661 7008	Bolt - head protector.....	-	8

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

BODY (SEAT)

MUSKEG M.T.F.D.

CARROSSERIE (SIEGE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0732	Base - seat.....	1
617 0378	Latch - seat.....	1
617 0379	Spring - latch.....	1
386 6019	Nut - (seat latch).....	1
617 0376	Support - seat.....	1
114 0156	Cushion - operator's seat.....	1
114 0152	Cushion - center seat.....	1
114 0158	Cushion - operator's backrest.....	1
363 0103	Screw.....	5

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 17/2 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

TOOL

MUSKEG M.T.F.D.

OUTIL

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
114 0027	Wrench.....	1
114 0028	Gun - grease.....	1
629 0005	Wrench - hub cap.....	1
629 0008	Adj. bleeder track.....	1
102 5036	Manual - part (chrysler).....	1
102 5037	Manual - maintenance (chrysler).....	1
180 1016	Manual - parts & operator's (Bombardier)....	1

LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 29/1 - 1st PRINT
1st MODEL (ISSUE 1)

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
114 0326	Décalque - "Bombardier".....	1
114 0361	Décalque - "Gas".....	1
114 0325	Décalque - "Bombardier".....	1
114 0365	Décalque - "Muskeg".....	1
114 0366	Décalque - "F.D.".....	1
114 0155	Décalque - "Diagramme vitesse 4 s.p.".....	1
114 0304	Décalque - "Tire pressure 100 min., 110 max."	1
114 0372	Décalque - "Hydraulic steering".....	1
114 0302	Décalque - "Ignition starter".....	1
114 0303	Décalque - "Head lights".....	1
114 0371	Décalque - "Inspection".....	1
114 0130	Décalque - "Full low".....	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

LITHO'D IN CANADA MISCELLANEOUS 2 - 1st PRINT (ISSUE 1) DEC. 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
107 2019	Hose - H.P. (multiple 12").....	As req'd
107 3003	Hose - return (multiple 12").....	As req'd

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

Miscellaneous 3 - 1st PRINT
(ISSUE 1)

DECEMBER 1969.