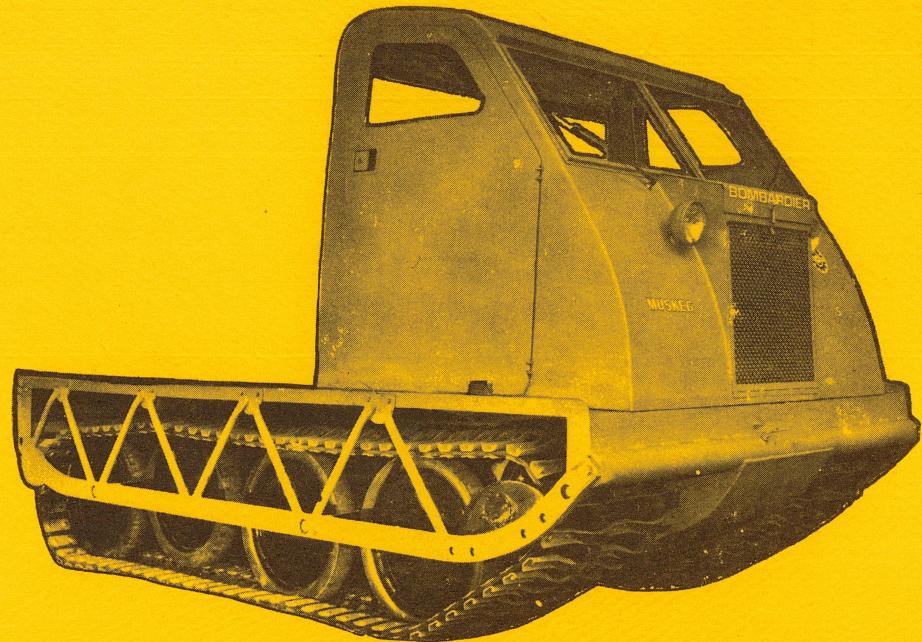


BOMBARDIER LTD/LTÉE

MUSKEG  
**SFD**



**MUSKEG "SFD"**

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

**"SFD" TRACTOR**

**SPARE PARTS MANUAL**

**INDUSTRIAL DIVISION**

**OPERATOR'S MANUAL**

**MANUEL DE PIÈCES**

**DIVISION INDUSTRIELLE**

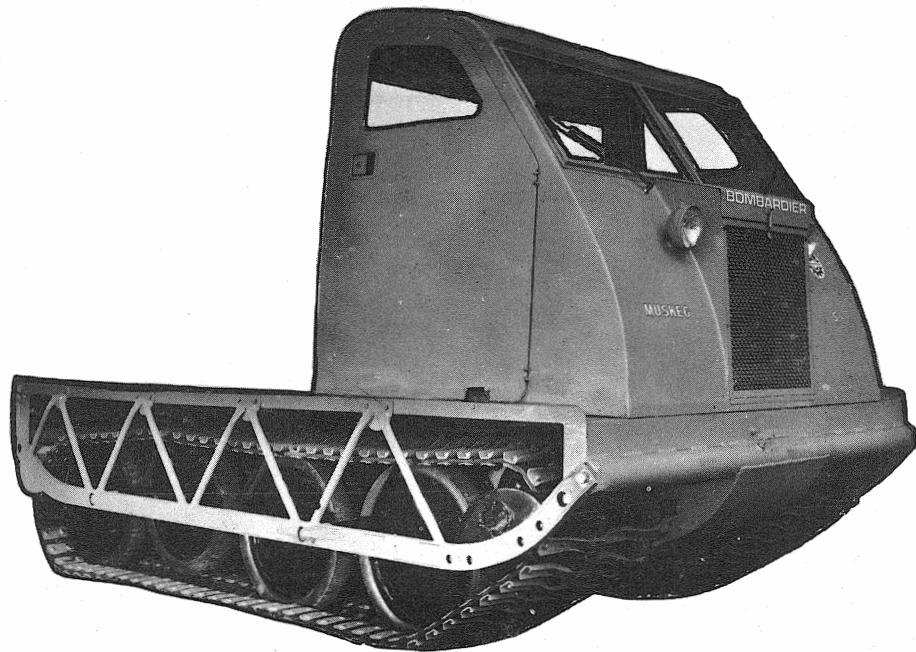
**VALCOURT QUEBEC CANADA**

LITHO'D IN CANADA

10/14  
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MANUAL 180 1015  
DECEMBER 1969



MUSKEG  
**SFD**



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**VALCOURT QUEBEC CANADA**

## **S. F. D. TRACTOR**

### **INTRODUCTION**

This book dealing with the Bombardier Muskeg "S.F.D." is a temporary brief 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 "S" SPECIFICATIONS

## GENERAL

### DIMENSIONS

Overall length	11'8"
Overall width	7'3"
Overall height	7'4"
Weight	Approx. 6,000 lbs
Inside width of cab	76"
Inside height of cab	56"
Cab	Over engine with seats for driver and one passenger.
Tank capacity	16 Imperial gallons (approx.)

### PERFORMANCE

Payload	6,000 lbs
Maximum speed	Approx. 16 M.P.H.
Ground pressure unloaded	Approx. 1.46 P.S.I.
Turning radius	15'

### DRIVE TRAIN

Brake	Drum on 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 12 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	Dual steering controls: Independant mechanical and 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 the right of the instrument panel. 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 on top of engine to the right 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.

#### **FUEL GAUGE**

Indicates the amount of gasoline in the fuel tank.

#### **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.

#### **HOUR-METER**

Registers the hours of operation of the vehicle.

#### **OIL PRESSURE GAUGE**

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

#### **HEATER AND DEFROSTER SWITCH (OPTIONAL)**

Pull button fully out for contact. Push back the button halfway for maximum defrost efficiency.

#### **WIPER SWITCH**

Pull button fully out for contact.

#### **LIGHT SWITCHES**

Headlights and dome lights - Pull buttons for contact.

#### **BACK UP LIGHT SWITCH**

Pull button for contact.

### **CHOKE BUTTON**

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

### **TACHOMETER (OPTIONAL)**

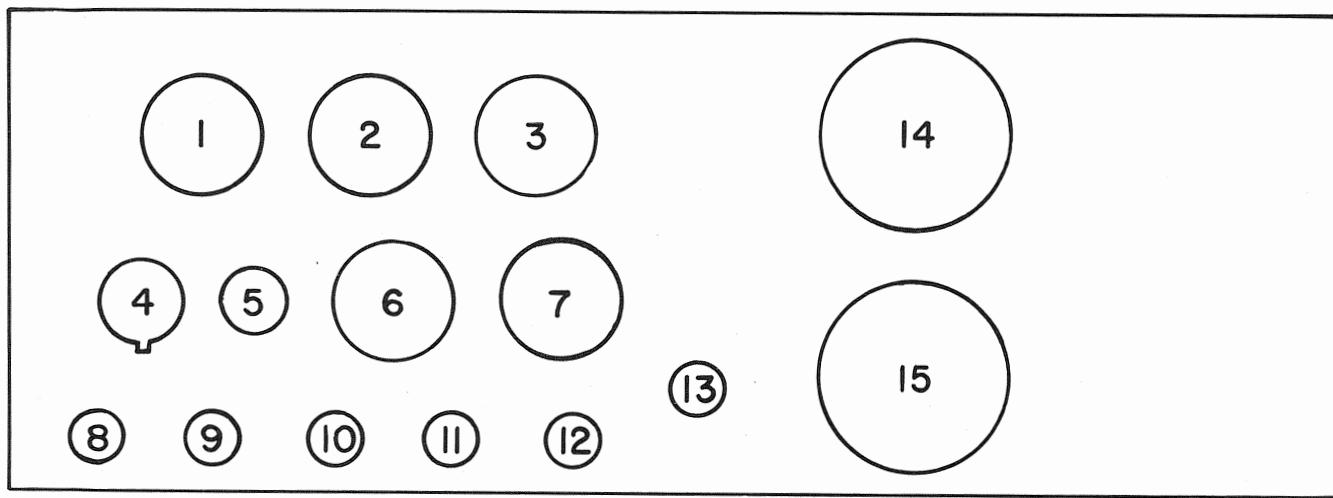
Optional meter which registers the R.P.M. of the engine.

### **SPEEDOMETER (OPTIONAL)**

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

### **DIMMER SWITCH (OPTIONAL)**

Is located on the floor in left foot position.



(16)

- |  |                          |
|--|--------------------------|
| 1. Ammeter                             | 9. Wiper                 |
| 2. Temperature gauge                   | 10. Head light switch    |
| 3. Fuel gauge                          | 11. Back-up light switch |
| 4. Ignition switch                     | 12. Dome light switch    |
| 5. Starter button                      | 13. Choke button         |
| 6. Hour-meter                          | 14. Tachometer (opt.)    |
| 7. Oil pressure gauge                  | 15. Speedometer (opt.)   |
| 8. Heater & Defroster<br>switch (opt.) | 16. Dimmer switch (opt.) |

## **OPERATING LEVERS**

### **STEERING**

Dual steering controls. Independant mechanical and 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.

The 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.

### **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.

### **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 sprockets 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.

### **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 between the accelerator and the clutch. When depressed, this pedal tightens a collar band on the transmission drum.

### **ACCELERATOR**

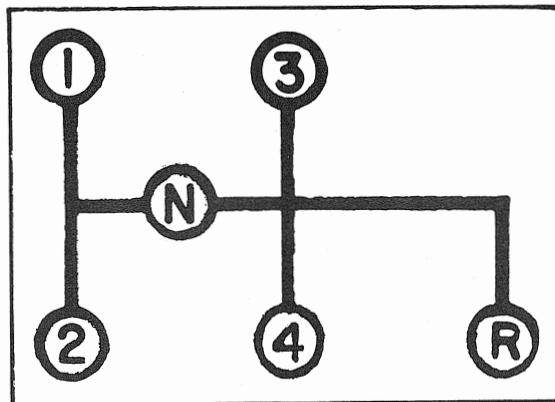
The accelerator pedal is situated at the right of the floor panel. The accelerator is used to increase the speed (RPM) of the engine according to foot-pressure action on the pedal.

## 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.

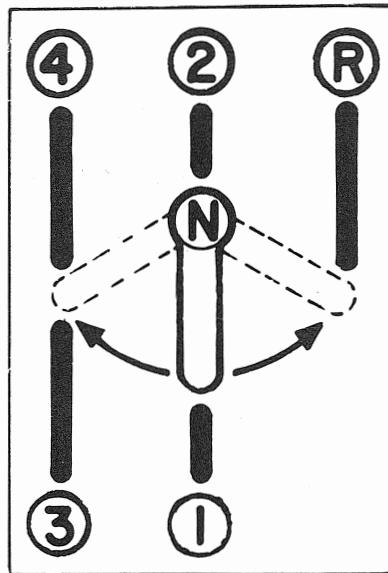
### NOTE:

*Always depress clutch pedal when changing gears.*



## GEARSHIFT WHEN USING BOMBARDIER WINCH

When a Bombardier winch is installed on the "S.F.D." model, the gearshift lever is situated between the driver's seat and the engine cowling. It works in accordance with the diagram at the right. The Bombardier winch is set in operation by shifting the lever situated between the driver's seat and the winch bracket inside the cab.



## SPEED REDUCER

The speed reducer installed on the standard Muskeg Carriers reduces the speed and increases the power transmitted to the differential and is used to transfer the power from the transmission to the differential.

## 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 "S.F.D." Tractor uses a 12 volt 70 amp. hr. battery, and the terminal ground is negative. It is located on the floor immediately behind the driver's seat.

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 "S.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 mounted on the bulkhead right behind the driver's seat.

The hydraulic filter is located under the reservoir. 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 p.s.i.

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  $-32^{\circ}$ , 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  
7 p.s.i.

Tractor cooling system is

### 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. The plug is accessible by taking off the radiator grill weldment.

## 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 SPEED REDUCER WINCH TRANSFER CASE	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 charging 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 3<sup>rd</sup> & 4<sup>th</sup> 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.

### ACCESS TO DIFFERENTIAL

Remove radiator and lift front section of the engine. Take off drive axles. Take off differential cover and gasket. Dismount the brake bands. Unscrew the two bearing adjusters. Lift the differential out of the chassis.

#### NOTE:

*All support bolts and equipments contiguous to engine (apart from transmission) must be first taken off. Mark all parts to assure that 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 pinion thrust washer if the thickness is worn to less than 0.090 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".

MEMO

MUSKEG S.F.D.

**MEMO**

MUSKEG S.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.
19	Platform/plate-forme.
22	A-Frame/chaumard
23	Transfer case/boîtier de transfert.
24	Winch/treuil.
25	Scraper/grattoir.
26	Hydraulic/hydraulique.
29	Tools/outils.
30	P.T.O./prise de force.

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

GENERAL INFORMATION 2  
1st PRINT (ISSUE 1)

DECEMBER 1969.

## ABBREVIATION

## MUSKEG S.F.D.

## ABREVIATION

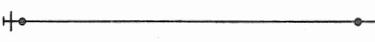
Abs.....absorber  
Accel.....accelerator  
Acc.....accessory  
Amp.....ampere  
&.....and  
Ass'y.....assembly  
As req.....as required  
Br1.....barrel  
Bush.....bushing  
Brkt.....bracket  
Chr.....chromium  
C.I.D.....cubic inches  
displacement  
C/breaker....circuit breaker  
Cyl.....cylinder  
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

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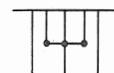
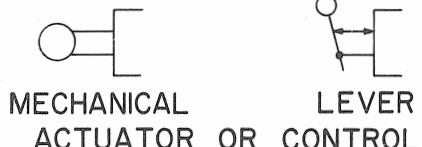
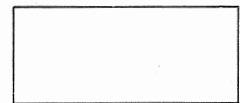
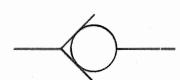
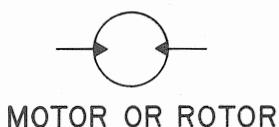
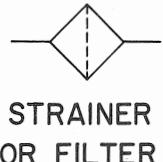
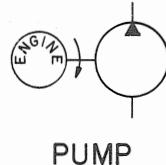
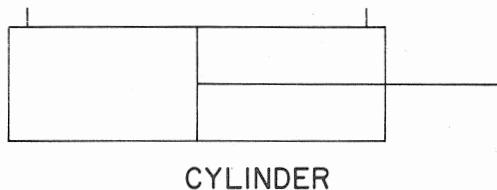
LITHO'D IN CANADA General Information 3 - 1st PRINT DEC. 1969.  
(ISSUE 1)

## SYMBOLS-HYDRAULIC DIAGRAM

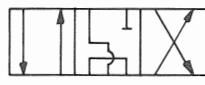
MAIN OR WORKING LINE  
  
 (FEMALE) H.P. HOSE (MALE)

EXHAUST OR DRAIN LINE

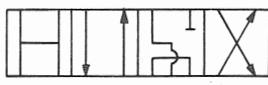
PILOT LINE  
  
 ENCLOSURE OUTLINE  
  
 PARAGAS HOSE



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



ELBOW 90°  
(M & F)

ELBOW 45°  
(M & F)



SWIVEL  
ELBOW 45°



ADAPTER  
(MALE)



ELBOW 45°



STREET  
ELBOW 45°



PLUG



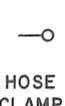
REDUCING  
BUSHING



LINE  
CROSSING



JOINT



HOSE  
CLAMP



"O" RING



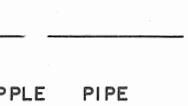
DRAIN  
COCK



RETURN  
TO TANK



PRESSURE  
GAUGE



NIPPLE



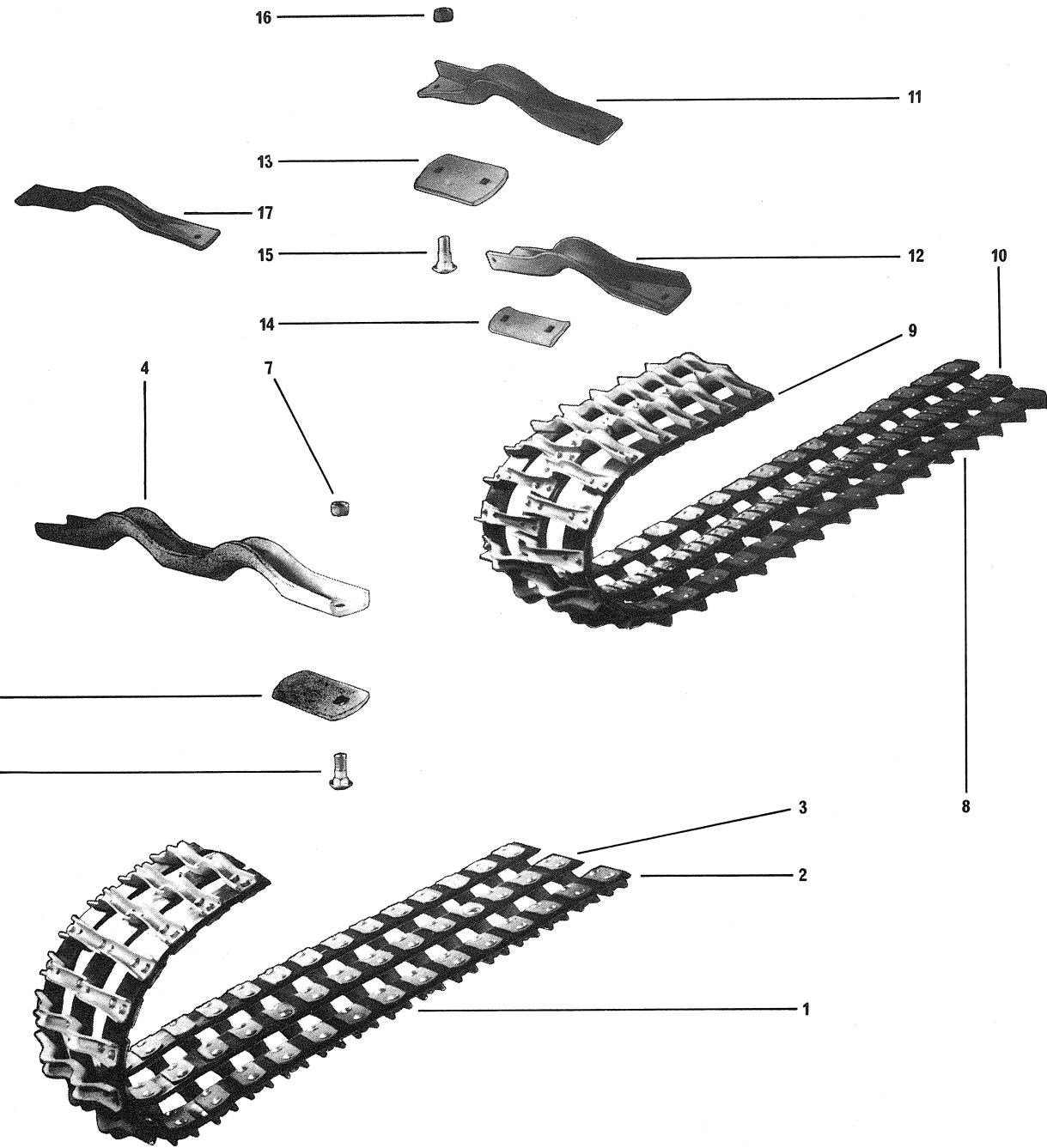
PIPE

BOMBARDIER LTD/LTEE

TRACK

MUSKEG S.F.D.

CHENILLE



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

## TRACK

## MUSKEG S.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

BOMBARDIER LTD/LTEE

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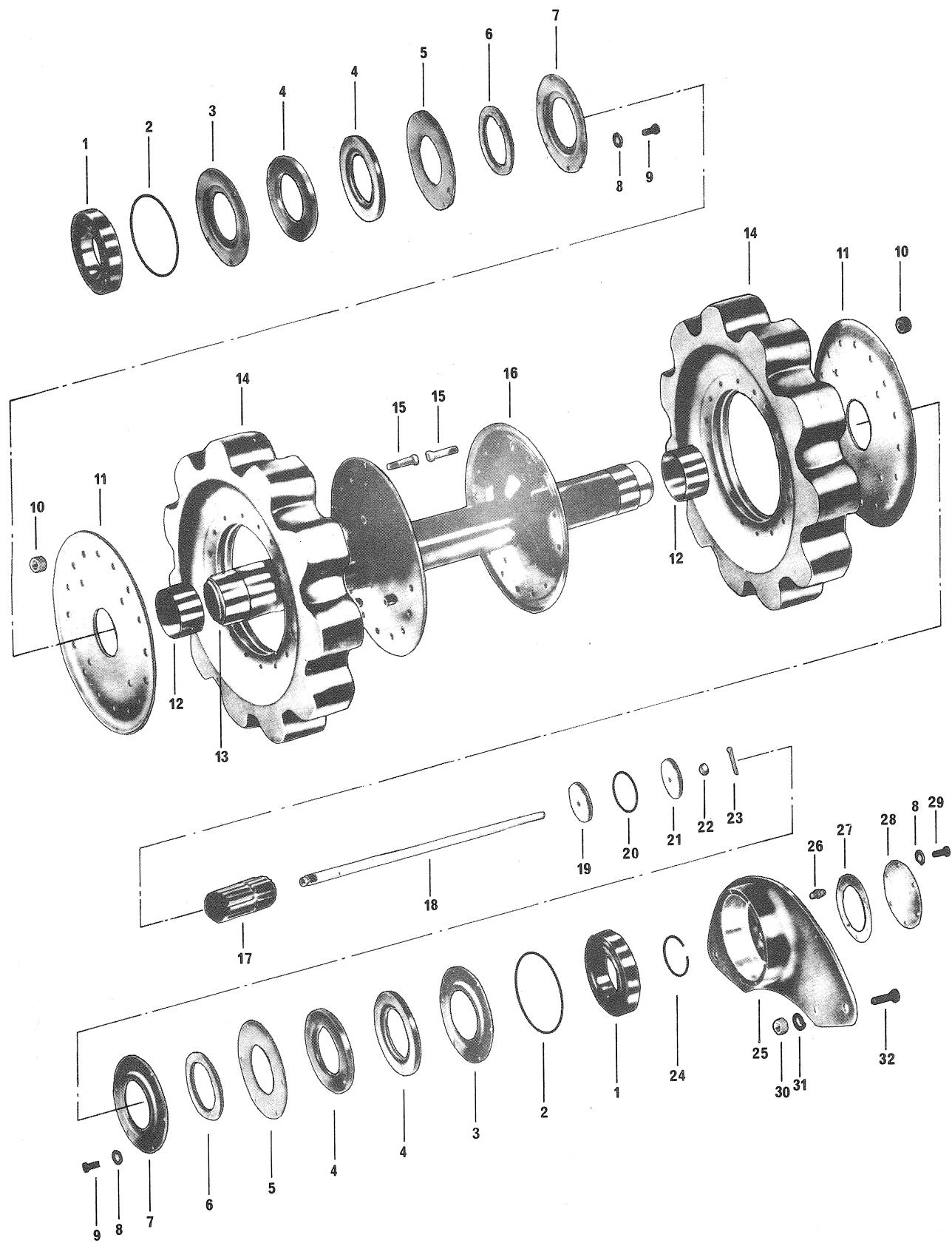
SECTION 00/2 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

DRIVE

MUSKEG S.F.D.

COMMANDÉ



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LITHO'D IN CANADA

SECTION 01/1 - 1st PRINT  
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	Axle - driven.....	2
18	627 0007	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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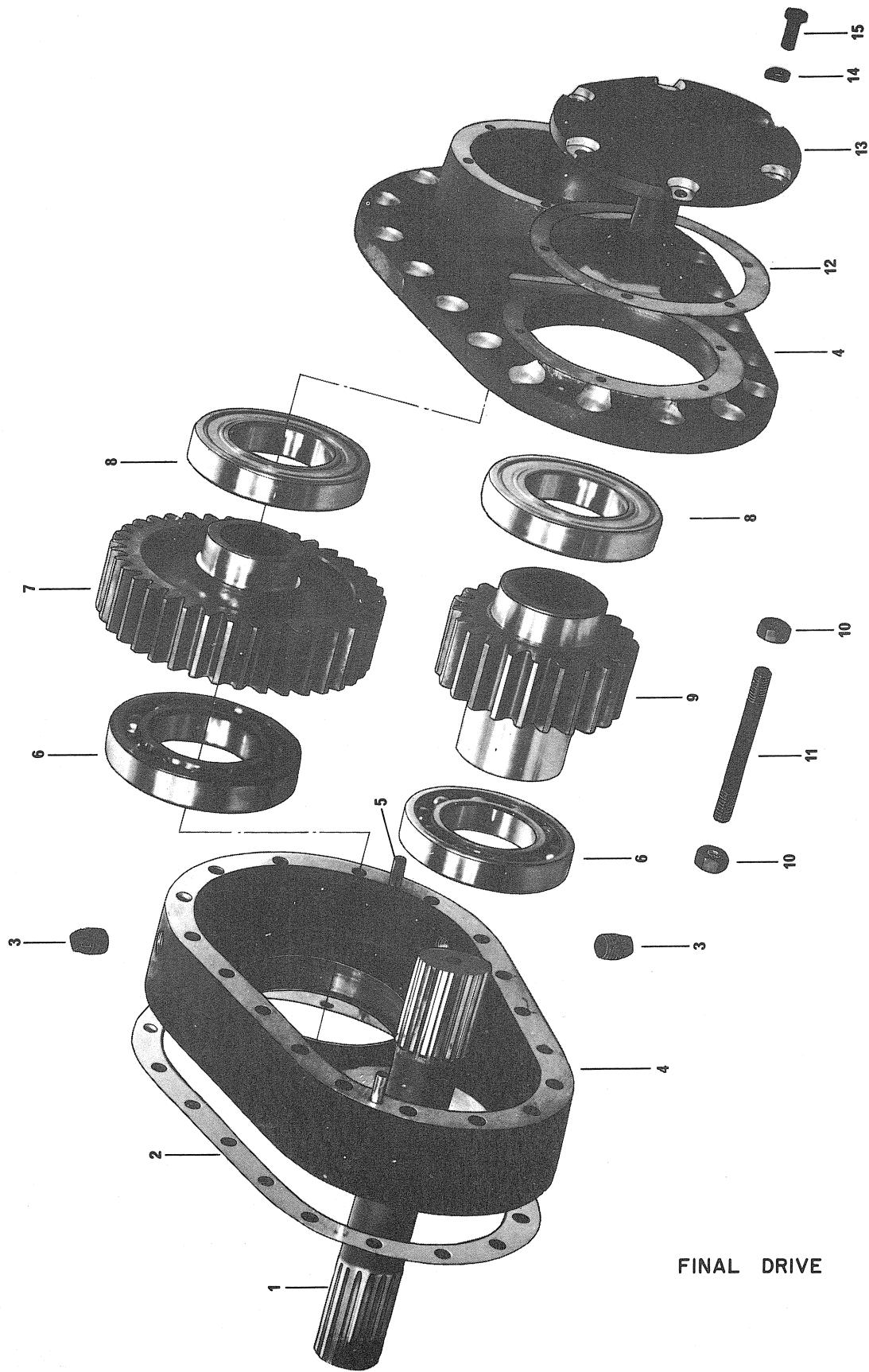
SECTION 01/2 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

DRIVE

MUSKEG S.F.D.

COMMANDÉ



FINAL DRIVE

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

DECEMBER 1969.

DRIVE

## MUSKEG S.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

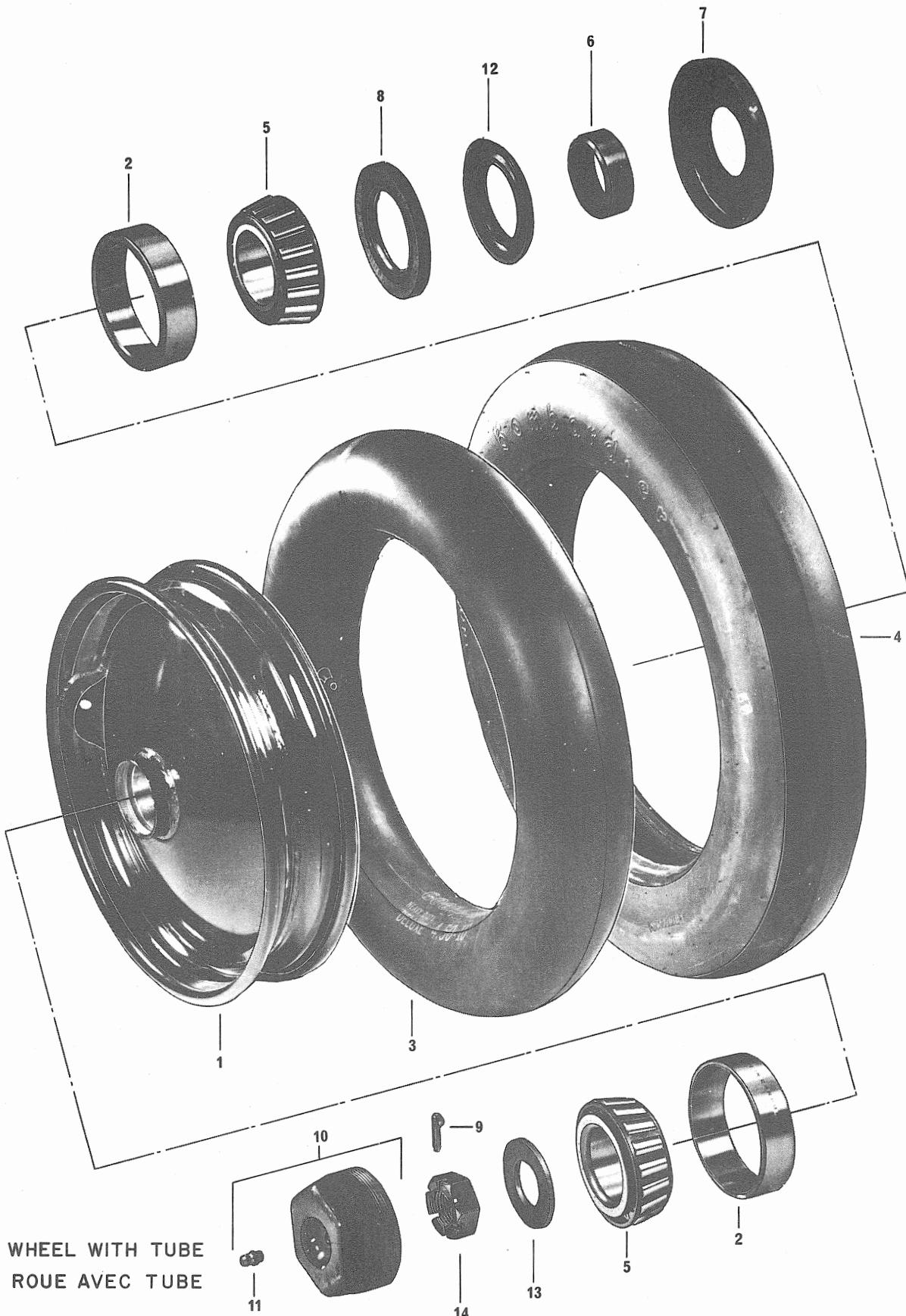
BOMBARDIER LTD/LTEE  
SECTION 01/4 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

WHEEL

MUSKEG S.F.D.

ROUE



WHEEL WITH TUBE  
ROUE AVEC TUBE

LITHO'D IN CANADA

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

DECEMBER 1969.

## WHEEL

## MUSKEG S.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

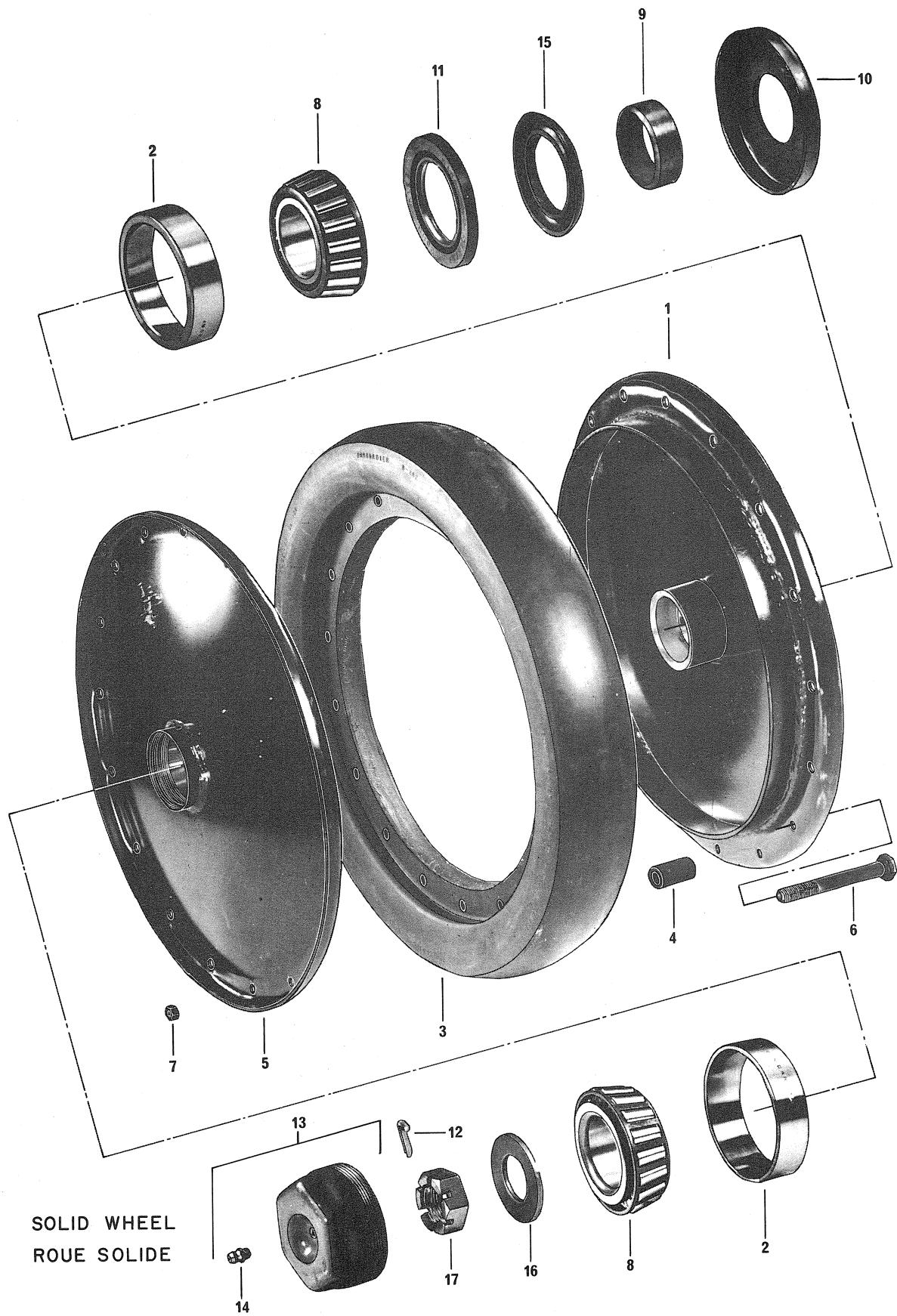
SECTION 02/2 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

WHEEL

MUSKEG S.F.D.

ROUE



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE  
SECTION 02/3 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## WHEEL

## MUSKEG S.F.D.

## ROUE

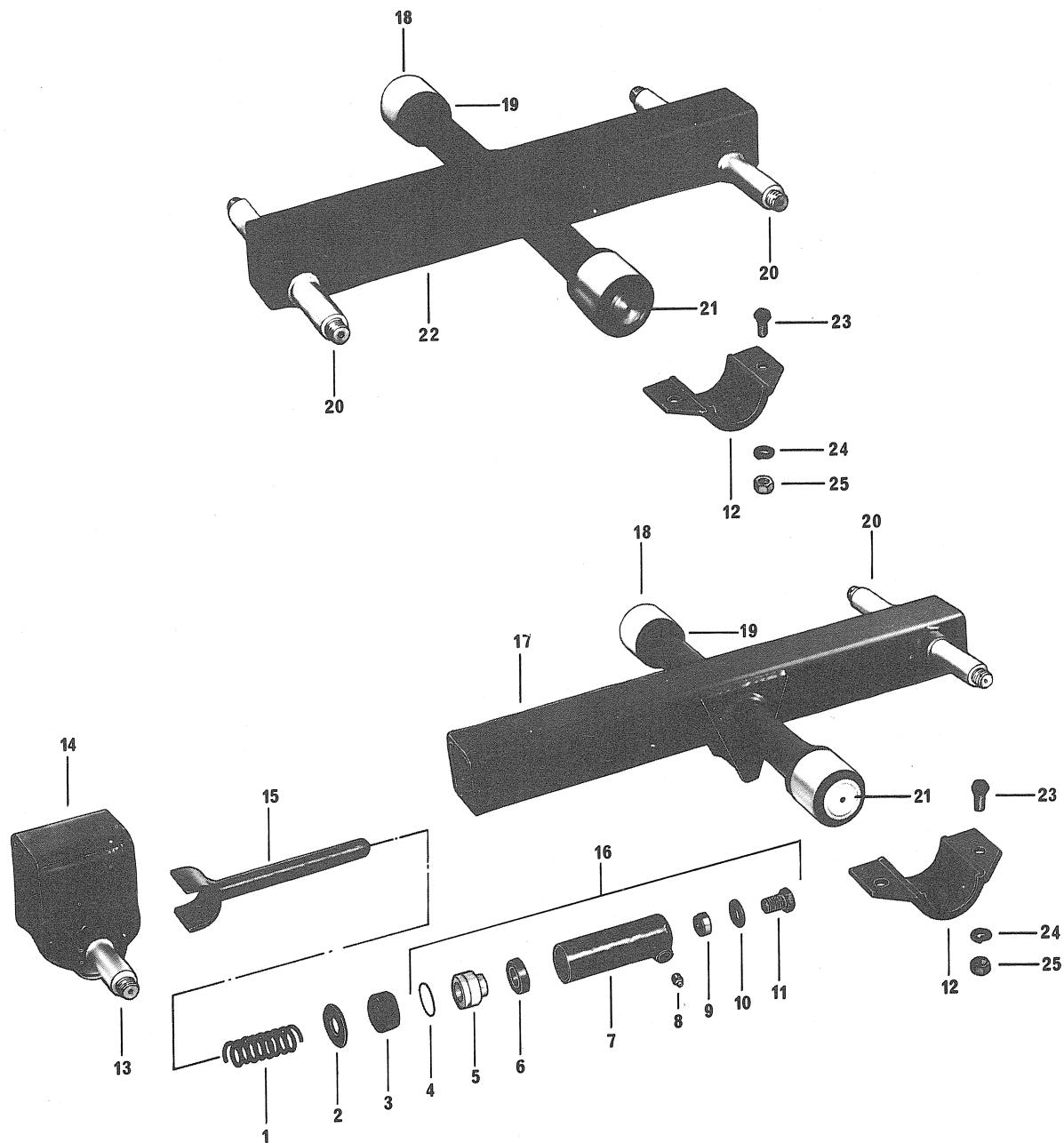
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	602 0023	Flange - inner wheel (with cup).....	4
2	105 0010	Cup - bearing.....	8
3	670 0205	Tire - solid.....	4
4	602 0015	Spacer - insert.....	68
5	602 0024	Flange - outer wheel (with cup).....	4
6	309 8006	Bolt.....	68
7	387 2024	Nut.....	68
8	105 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 Q2/4 - 1st PRINT  
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

DECEMBER 1969.



## SUSPENSION

## MUSKEG S.F.D.

## SUSPENSION

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	603 0290	Beam - R.H. side.....	1
	603 0289	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 spindle.....	2
23	301 6223	Bolt.....	16
24	392 0032	Lockwasher.....	16
25	389 8041	Nut.....	16
	300 0253	Bolt.....	4
	603 0297	Collar - silent block.....	8
	301 6223	Bolt.....	16
	392 0032	Lockwasher.....	16
	389 8041	Nut.....	16
	300 0252	Bolt.....	4
	380 6035	Nut.....	4
	300 8153	Bolt.....	16
	392 0028	Lockwasher.....	16
	389 8042	Nut.....	16

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LITHO'D IN CANADA

SECTION 03/2 - 1st PRINT  
1st MODEL (ISSUE 1)

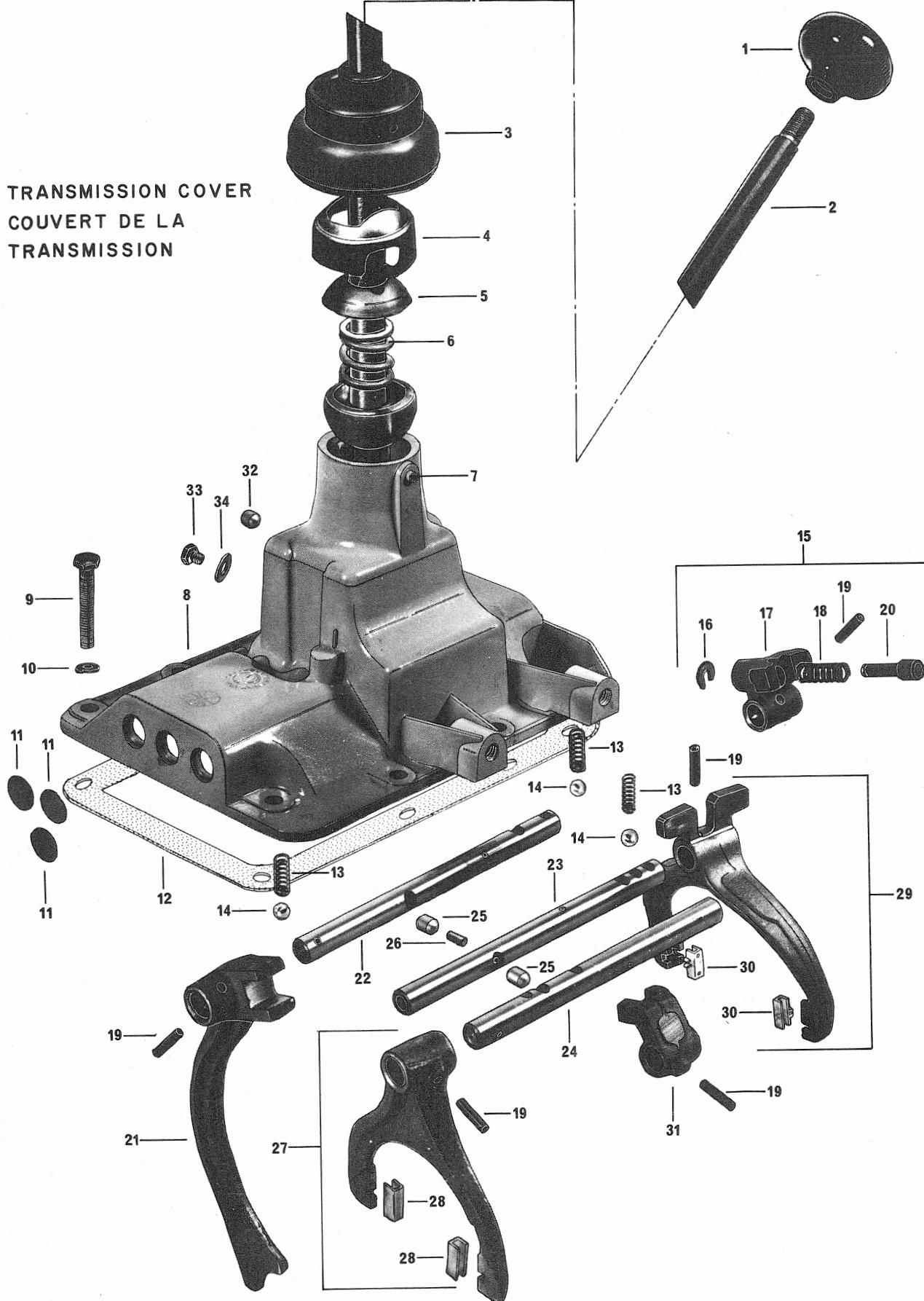
DECEMBER 1969.

TRANSMISSION

MUSKEG S.F.D.

TRANSMISSION

TRANSMISSION COVER  
COUVERT DE LA  
TRANSMISSION



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/1 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## TRANSMISSION

## MUSKEG S.F.D.

## TRANSMISSION

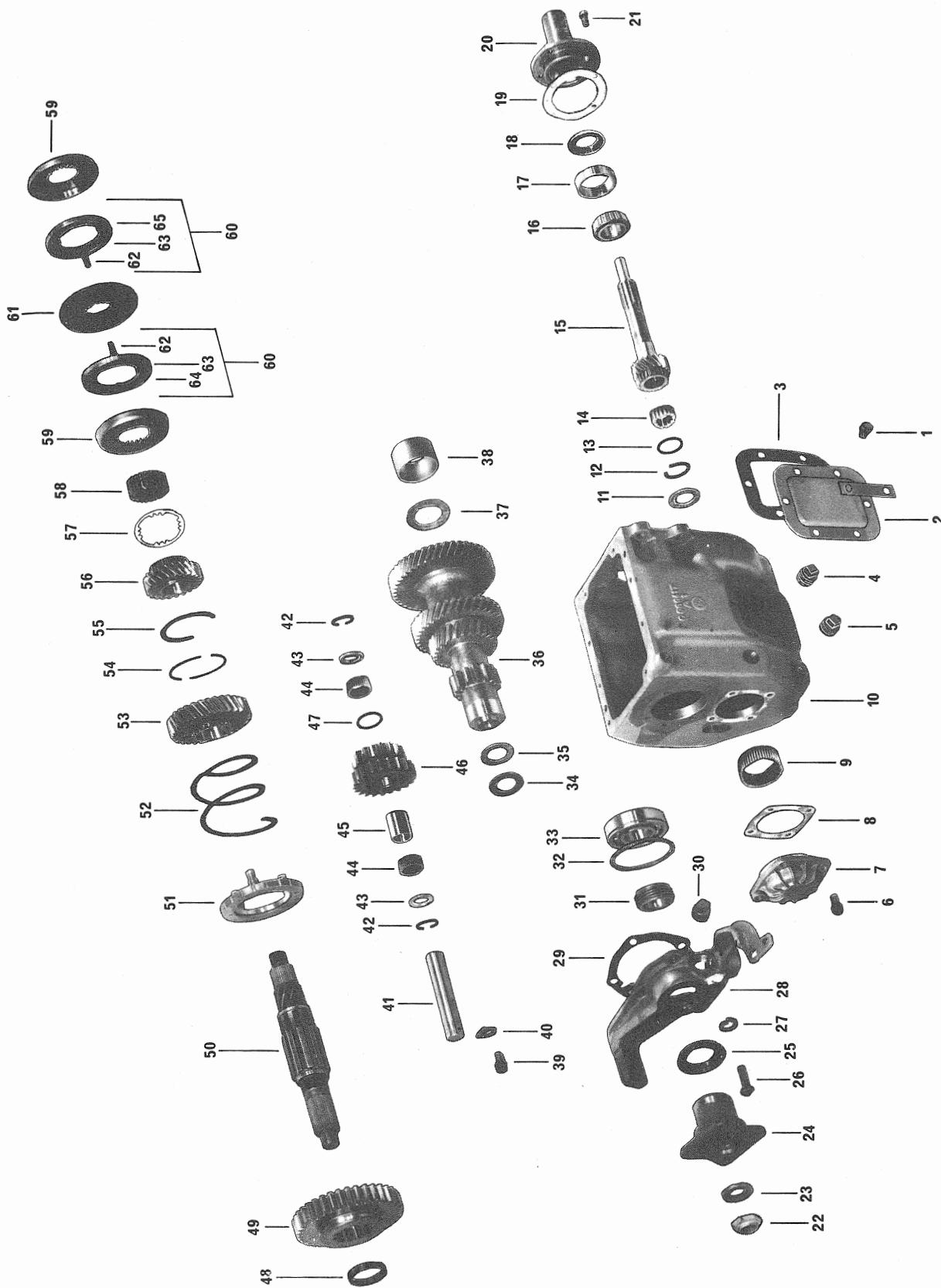
PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
119 1207	Ass'y cover (without gearshift).....	1
102 2001	Knob.....	1
660 4018	Lever - gearshift.....	1
101 2014	Boot - gearshift.....	1
101 9004	Retainer - gearshift.....	1
101 9003	Seal - gearshift.....	1
101 2013	Spring - gearshift.....	1
102 2218	Trunnion.....	2
119 1208	Cover.....	1
102 2128	Screw & lockwasher.....	6
102 2142	Screw.....	2
392 0026	Lockwasher.....	2
102 2407	Plug.....	3
102 2300	Gasket - transmission cover.....	1
102 2198	Spring.....	3
102 9011	Ball.....	3
119 1206	Ass'y - lug (less pin).....	1
102 2344	Washer.....	1
102 2225	Lug.....	1
102 2020	Spring.....	1
102 2217	Pin.....	5
102 2346	Plunger.....	1
102 2305	Fork - shift.....	1
102 2403	Rail - reverse.....	1
102 2301	Rail - 3rd & 4th shift.....	1
102 2303	Rail - low & 2nd shift.....	1
102 2015	Plunger.....	2
102 2017	Pin.....	1
102 2401	Ass'y - fork (low & 2nd shift).....	1
102 2404	Insert (nylon).....	2
119 1205	Ass'y - fork (3rd & 4th shift).....	1
102 2224	Insert.....	2
102 2306	Lug - low & 2nd shift.....	1
102 2360	Plug - interlock.....	1
119 1145	Plug - back up light.....	1
119 1073	Gasket - back up light.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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1st MODEL (ISSUE 1)

DECEMBER 1969.

## TRANSMISSION

## MUSKEG S.F.D.

## TRANSMISSION

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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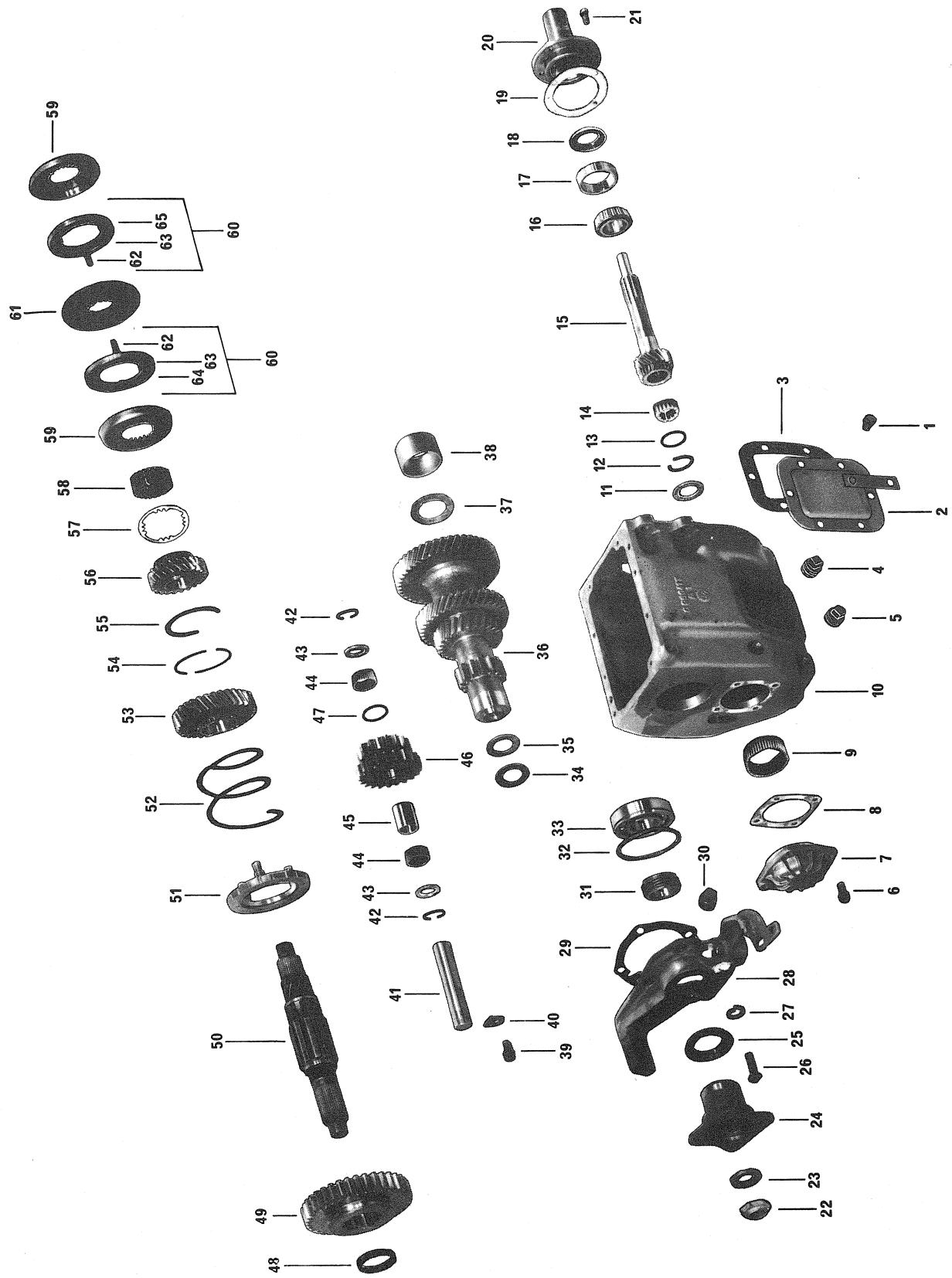
SECTION 04/4 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

TRANSMISSION

MUSKEG S.F.D.

TRANSMISSION



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/5 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## TRANSMISSION

## MUSKEG S.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

SECTION 04/6 - 1st PRINT

LITHO'D IN CANADA

1st MODEL

(ISSUE 1)

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STEERING

MUSKEG S.F.D.

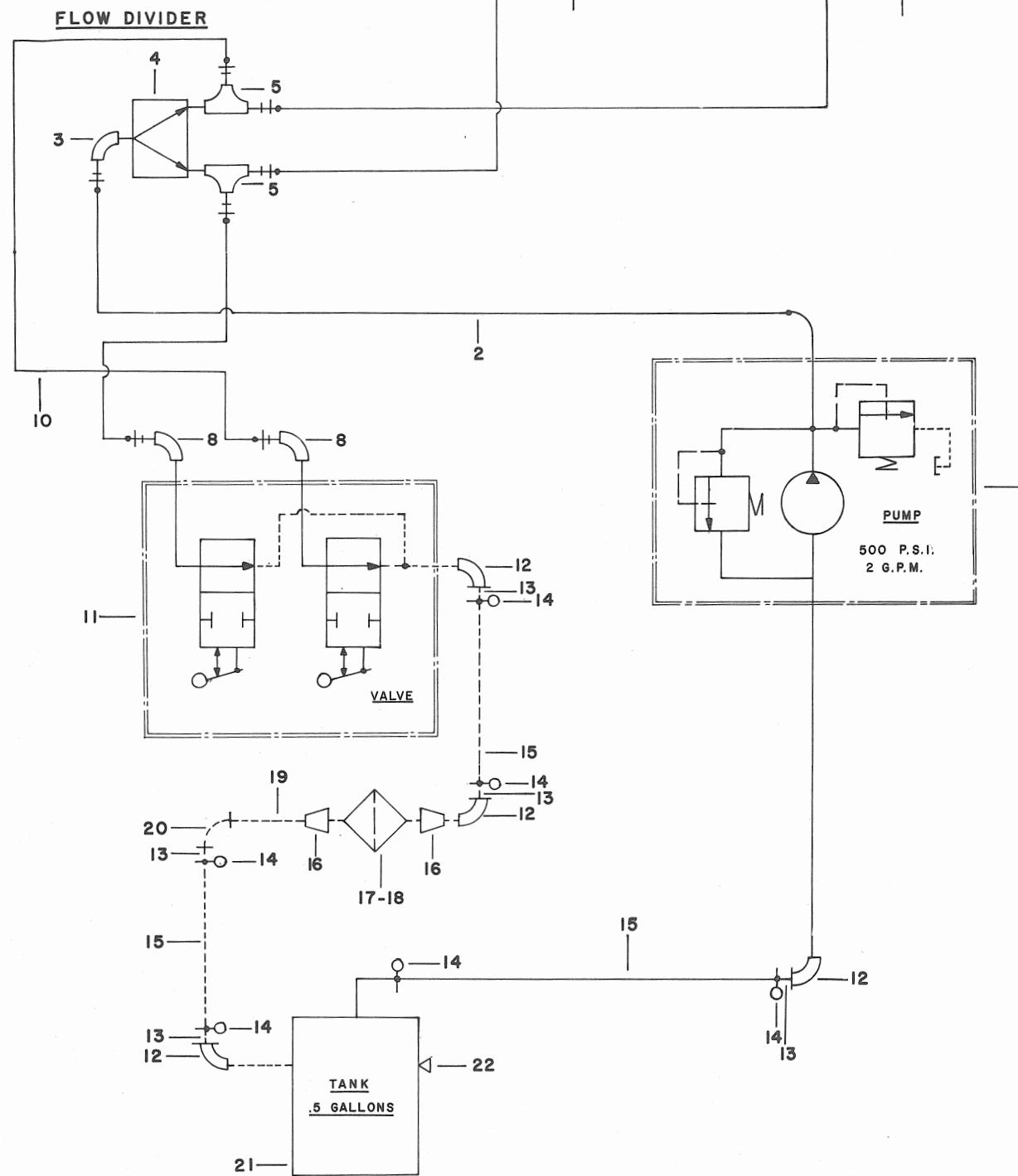
CONDUITE

HYDRAULIC DIAGRAM  
(STEERING)

DIAGRAMME HYDRAULIQUE  
(CONDUITE)

L.H. STEERING  
CYLINDER

R.H. STEERING  
CYLINDER



BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

## STEERING

## MUSKEG S.F.D.

## CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	662 6051	Ass'y pump.....	1
2	626 0438	Ass'y - H.P. hose (with fittings)...	1
2	107 2019	Hose - H.P. (multiple 12").....	As req'd
3	108 0015	Elbow.....	1
4	115 0010	Divider - flow.....	1
5	108 4032	Tee.....	2
6	626 0424	Ass'y - H.P. hose (with fittings)...	1
6	107 2019	Hose - H.P. (multiple 12").....	As req'd
7	626 0425	Ass'y - H.P. hose (with fittings)...	1
7	107 2019	Hose - H.P. (multiple 12").....	As req'd
8	108 4033	Elbow.....	4
9	680 0295	Ass'y - cylinder.....	2
10	626 0432	Ass'y - H.P. hose (with fittings)...	2
10	107 2019	Hose - H.P. (multiple 12").....	As req'd
11	680 0234	Ass'y - valve.....	1
12	108 0014	Elbow.....	4
13	662 6020	Extention -valve.....	5
14	108 8004	Worm gear hose clamp.....	6
15	107 3003	Hose - return (multiple 12").....	As req'd
16	108 7021	Bushing - reducing.....	2
17	114 0052	Ass'y - oil filter.....	1
18	118 9001	Element - oil filter.....	1
19	108 7053	Nipple.....	1
20	108 7056	Elbow.....	1
21	626 0444	Tank - oil.....	1
22	108 7005	Plug.....	1

## STEERING

## MUSKEG S.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 - steering lever pin.....	4
606 0121	Plate - L.H. steering lever rod.....	1
606 0120	Lever rod - R.H. steering.....	1
606 0010	Pin - steering lever (long).....	2
606 0035	Nut - adjusting.....	2
606 0024	Cr.-shaft - L.H. steering.....	1
606 0025	Cr.-shaft - R.H. steering.....	1
606 0028	Anchor - R.H. cross shaft.....	1
392 0028	Lockwasher.....	2
380 6028	Nut.....	2
114 0061	Pin - clevis.....	2
371 0011	Pin - cotter.....	2
617 0602	Anchor support - cross shaft.....	1
617 0603	Bushing.....	4
300 0094	Bolt.....	4
392 0024	Lockwasher.....	4
380 6024	Nut.....	4
606 0027	Anchor - L.H. cross shaft.....	1
680 0295	Ass'y - steering cylinder.....	2
606 0119	Rod - L.H. steering.....	1
606 0118	Rod - R.H. steering.....	1
606 0125	Spring - steering rod return.....	2
606 0038	Clevis - adjusting.....	2
300 0193	Bolt.....	2
380 6030	Nut.....	2
114 0061	Pin - clevis.....	4
371 0011	Pin - cotter.....	4
606 0023	Lever - steering.....	2
414 0002	Handle grip.....	2
300 0083	Bolt.....	2
380 6024	Nut.....	2
618 0286	Base - pillow block.....	2
606 0026	Cap - pillow block.....	2
392 0019	Lockwasher.....	4
300 0004	Bolt.....	4
607 0017	Sector - brake lever.....	2
390 0107	Rivet.....	2
681 0006	Ass'y - brake band.....	2
606 0006	Lining - brake (set of 6).....	1
390 5001	Rivets.....	66
606 0019	Pin - short band.....	2
606 0133	Yoke.....	2
371 0011	Pin - cotter.....	2
606 0022	Pin - long band.....	2
371 0032	Pin - cotter.....	2
115 0010	Divider - flow.....	1
300 0006	Bolt.....	2
392 0019	Lockwasher.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 06/3 - 1st PRINT  
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DECEMBER 1969.

## STEERING

## MUSKEG S.F.D.

## CONDUITE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
606 0128	Bracket - valve.....	1
300 0000	Bolt.....	4
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
606 0130	Hinge - valve.....	1
606 0131	Spring.....	1
300 0061	Bolt.....	1
680 0234	Ass'y - control valve.....	1
387 2022	Nut.....	3
606 0127	Bracket - hose.....	1
617 0698	Bracket - oil tank (use with less cab).....	1
626 0444	Tank - oil.....	1
108 7005	Plug.....	1
114 0356	Cap - oil tank.....	1
300 0041	Bolt.....	5
392 0022	Lockwasher.....	5
380 6022	Nut.....	5
626 0357	Support - oil filter.....	1
300 0041	Bolt.....	2
392 0022	Lockwasher.....	2
380 6022	Nut.....	2
114 0052	Filter - oil.....	1
300 4083	Bolt.....	2
392 0024	Lockwasher.....	2
662 6051	Ass'y - pump & tank.....	1
662 6052	Bracket - adjusting.....	1
102 9563	Pulley.....	1
102 9565	Bracket.....	1
617 0345	Washer.....	2
300 4089	Bolt.....	1
300 0089	Bolt.....	1
387 2024	Nut.....	1
107 9021	V - Belt.....	1
626 0451	Shim .015".....	1
626 0452	Shim .035".....	as req'd
		as req'd

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LITHO'D IN CANADA

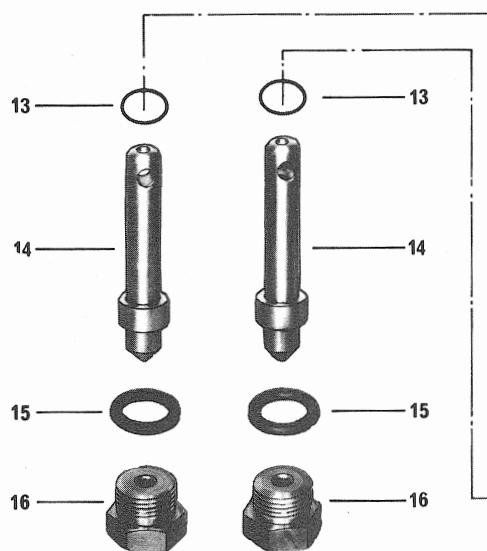
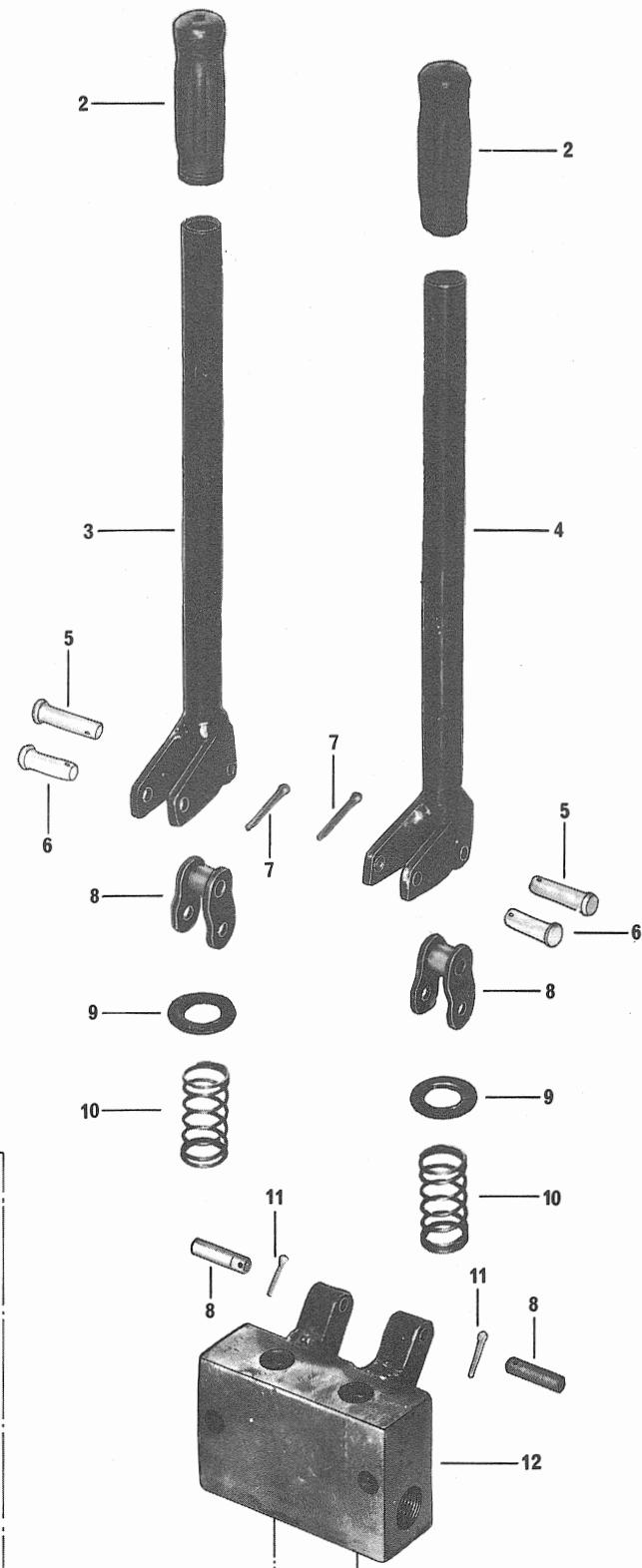
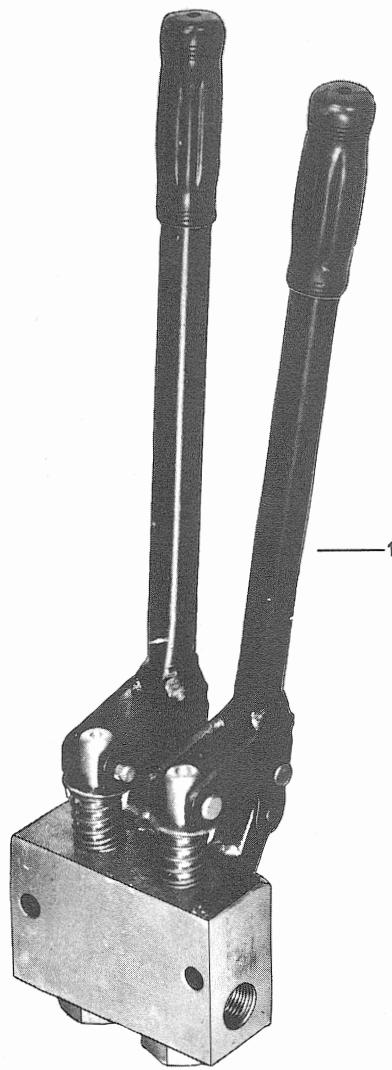
SECTION 06/4 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

STEERING

MUSKEG S.F.D.

CONDUITE



CONTROL VALVE

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 06/5 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## STEERING

## MUSKEG S.F.D.

## CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	680 0234	Ass'y - control valve.....	1
2	114 0110	Handle - grip.....	2
3	626 0338	Arm - L.H. control.....	1
4	626 0339	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 - offset (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

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

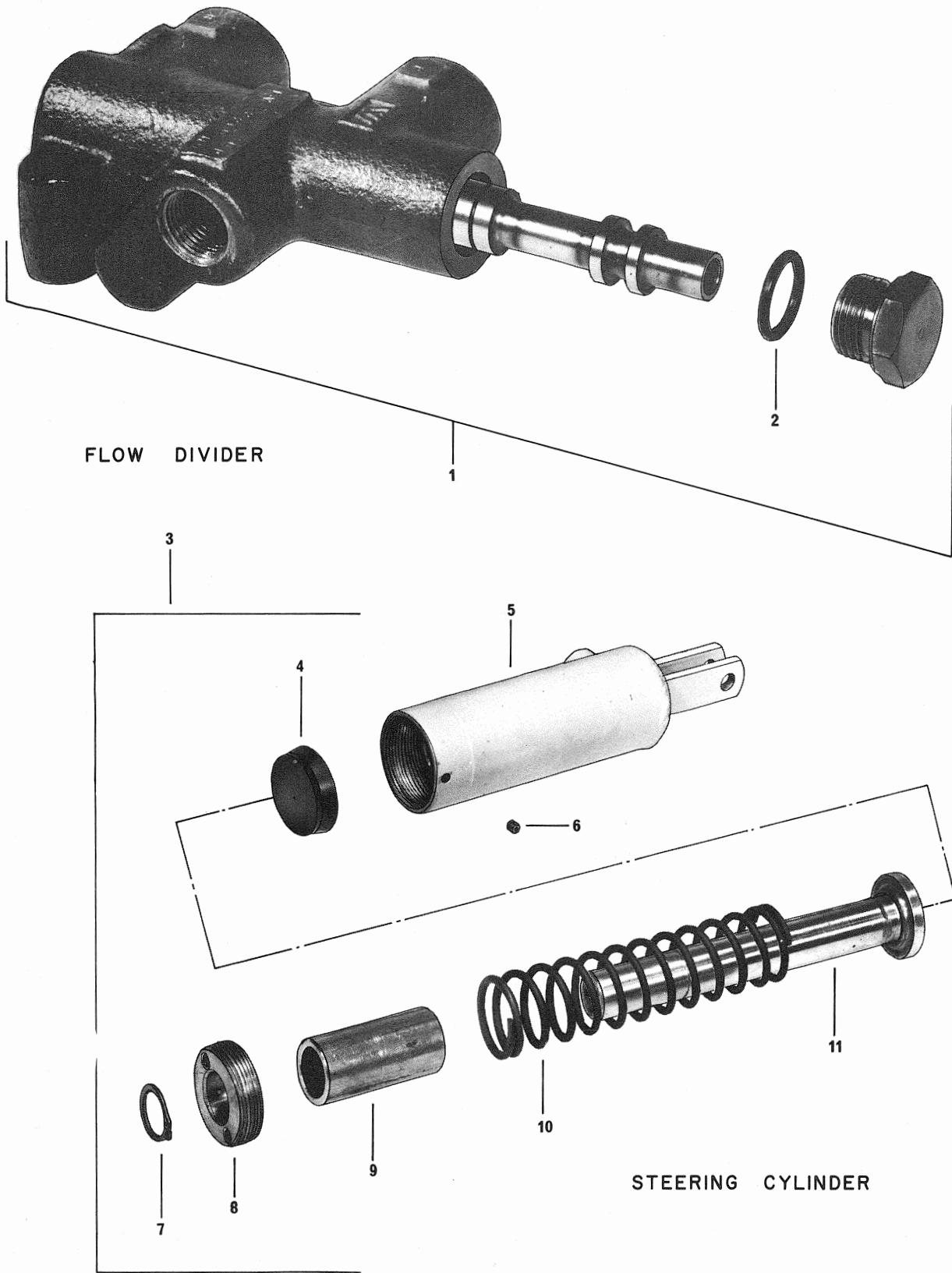
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1st MODEL (ISSUE 1)

DECEMBER 1969.

STEERING

MUSKEG S.F.D.

CONDUITE



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE  
SECTION 06/7 - 1st MODEL  
1st PRINT (ISSUE 1)

DECEMBER 1969.

## STEERING

## MUSKEG S.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

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 06/8 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## BRAKE

## MUSKEG S.F.D.

## FREIN

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
680 0100	Ass'y - clutch & brake pedals..... Consist of: 1 - 609 0020 1 - 607 0001 1 - 609 0019 1 - 300 0045 1 - 392 0022 1 - 380 6022 1 - 392 0019 1 - 408 2001	1
609 0020	Shaft - cross.....	1
607 0001	Pedal - brake.....	1
609 0019	Pedal - clutch.....	1
300 0045	Bolt.....	1
392 0022	Lockwasher.....	1
380 6022	Nut.....	1
392 0019	Lockwasher.....	1
408 2001	Fitting - grease.....	1
670 0901	Pad - brake pedal.....	1
618 0287	Base - pillow block.....	2
392 0019	Lockwasher.....	4
609 0026	Cap - pillow block.....	2
300 0003	Bolt.....	4
607 0105	Spring - return.....	1
607 0104	Bracket - brake cable.....	1
617 0390	Bushing.....	2
300 4083	Bolt.....	2
392 0024	Lockwasher.....	2
607 0107	Adjuster - brake rod.....	1
114 0358	Cable - brake.....	1
380 6022	Nut.....	2
114 0062	Yoke - clevis.....	1
114 0061	Pin - clevis.....	1
114 0103	Pin - clevis.....	1
391 0023	Flat washer.....	2
371 0011	Pin cotter.....	2
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

BOMBARDIER LTD/LTEE

## BRAKE

## MUSKEG S.F.D.

## FREIN

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
102 4011	Lockwire - anchor clip.....	1
102 4038	Drum - brake.....	1
119 1179	Flange.....	1
119 1103	Bolt - flange.....	4
119 1102	Nut - flange bolt.....	4

LITHO'D IN CANADA

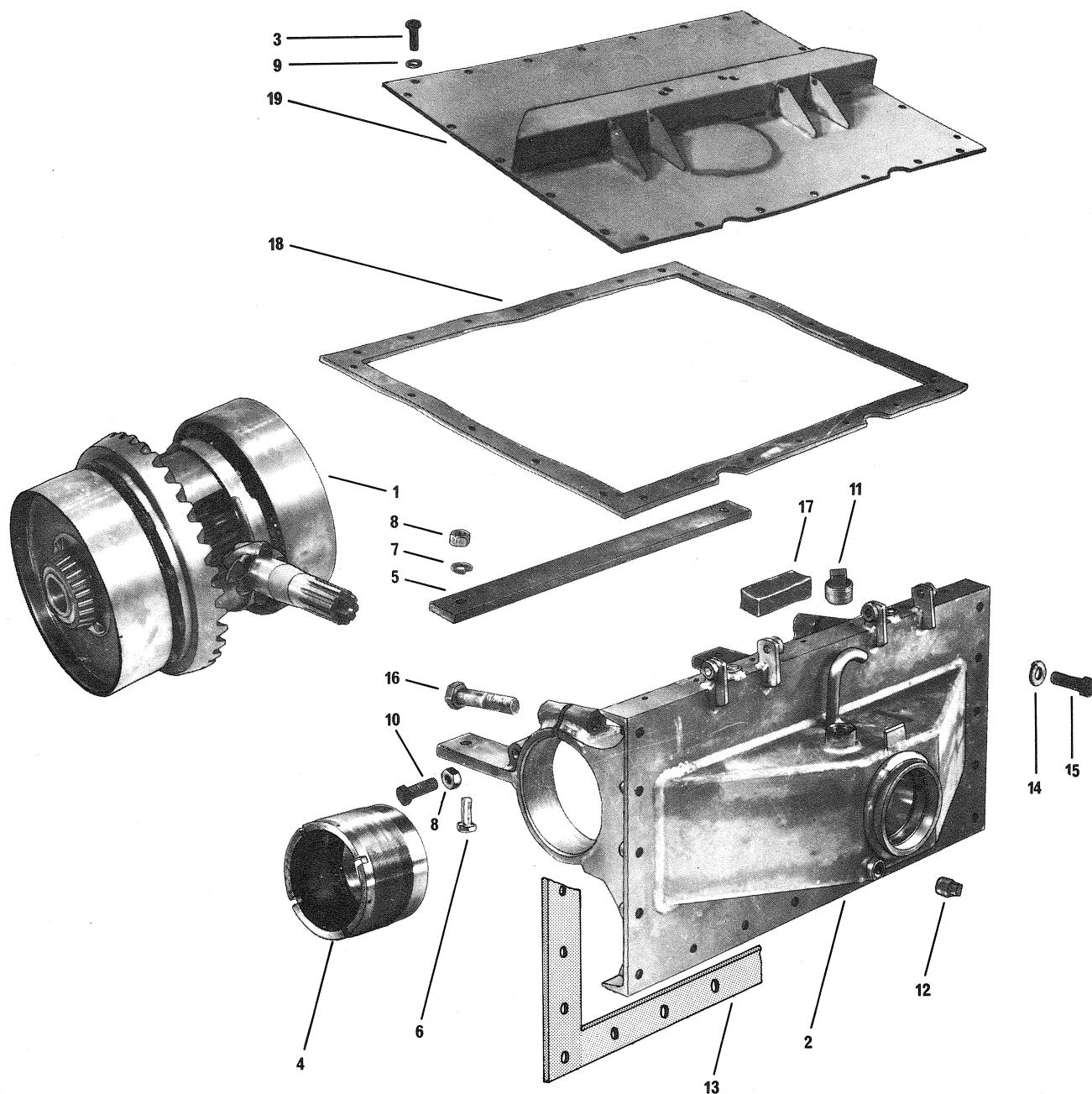
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SECTION 07/ 2- 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969

DIFFERENTIAL

MUSKEG S.F.D.

DIFFERENTIEL



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

## DIFFERENTIAL

## MUSKEG S.F.D.

## DIFFERENTIEL

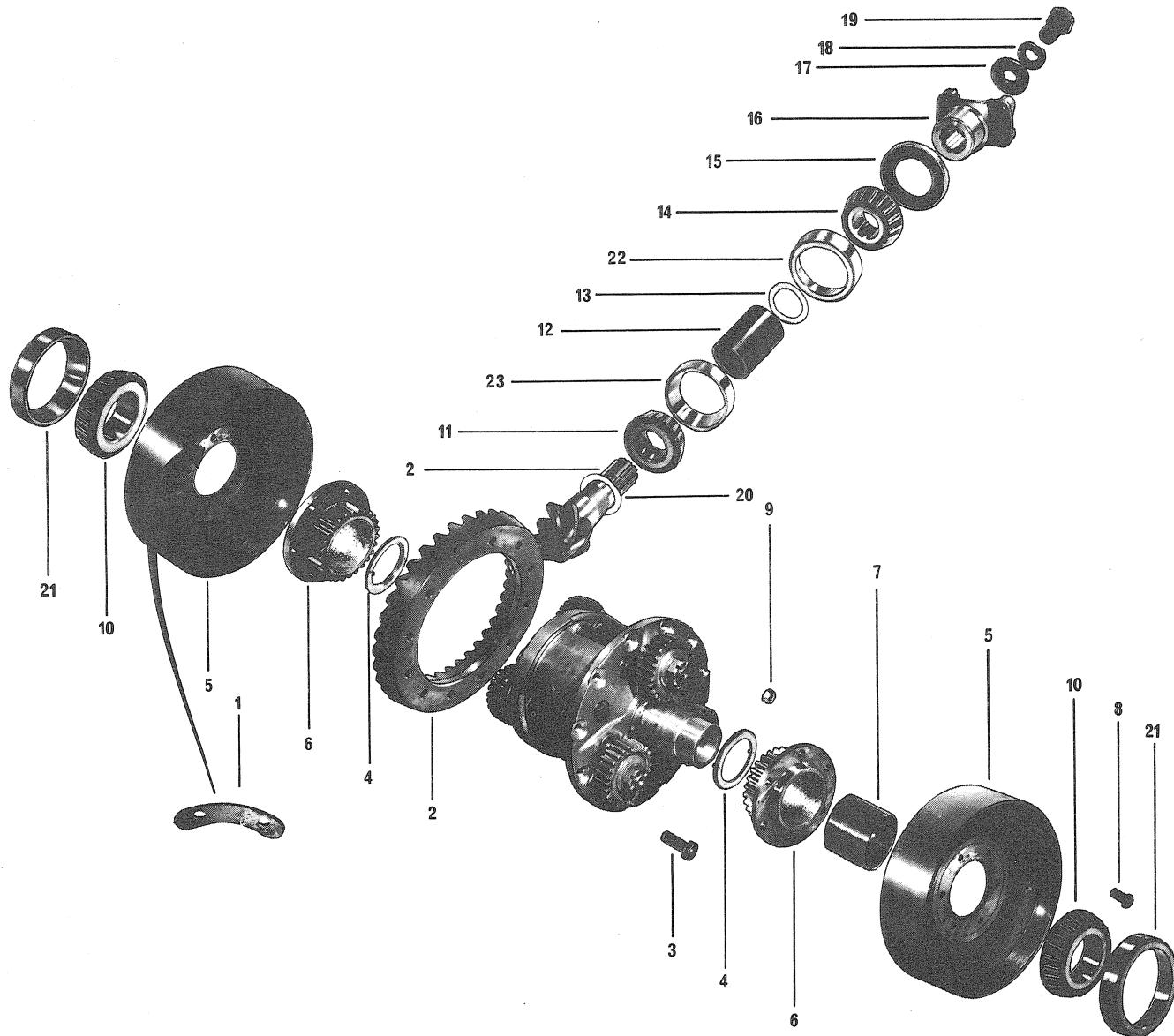
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	681 0118	Ass'y - differential.....	1
2	608 0080	Carrier - differential.....	1
3	300 0041	Bolt.....	28
4	608 0018	Adjuster - bearing.....	2
5	608 0041	Stiffener.....	1
6	300 0154	Bolt.....	2
7	392 0028	Lockwasher.....	2
8	380 6028	Nut.....	3
9	392 0022	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 0077	Cover - differential.....	1
	608 0035	Gauge - oil level.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 08/2 - 1st PRINT  
1st MODEL (ISSUE 1)

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## DIFFERENTIAL

## MUSKEG S.F.D.

## 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

LITHO'D IN CANADA

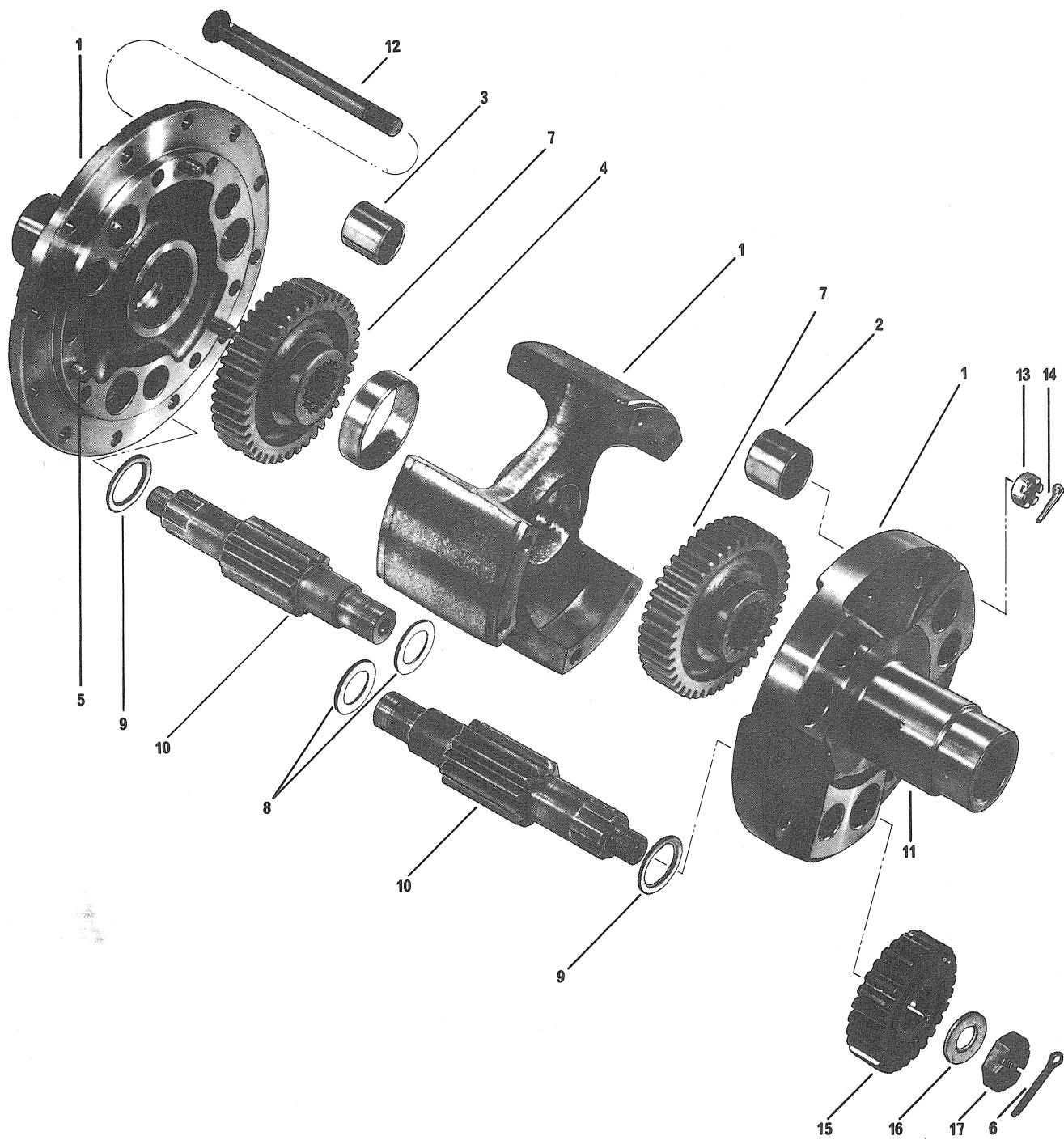
SECTION 08/4 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

DIFFERENTIAL

MUSKEG S.F.D.

DIFFERENTIEL



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 08/5 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## DIFFERENTIAL

## MUSKEG S.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 S.F.D.

## EMBRAYAGE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
680 0100	Ass'y - clutch & brake pedals..... Consist of: 1 - 609 0020 1 - 607 0001 1 - 609 0019 1 - 300 0045 1 - 392 0022 1 - 380 6022 1 - 392 0019 1 - 408 2001	1
609 0020	Shaft - cross.....	1
607 0001	Pedal - brake.....	1
609 0019	Pedal - clutch.....	1
300 0045	Bolt.....	1
392 0022	Lockwasher.....	1
380 6022	Nut.....	1
392 0019	Lockwasher.....	1
408 2001	Fitting - grease.....	1
670 0901	Pad - pedal.....	2
604 0061	Control - pedal.....	1
618 0287	Base - pillow block.....	2
609 0026	Cap - pillow block.....	2
392 0019	Lockwasher.....	4
300 0003	Bolt.....	4
609 0073	Bracket - master cylinder.....	1
102 6076	Ass'y - master cylinder (clutch).....	1
102 6080	Kit - seal (for master cylinder ).....	1
300 0083	Bolt.....	1
392 0024	Lockwasher.....	1
380 6024	Nut.....	1
300 0044	Bolt.....	4
392 0022	Lockwasher.....	4
380 6022	Nut.....	4
609 0074	Rod - master cylinder (with bushing).....	1
609 0078	Bushing.....	1
108 0012	Plug.....	1
108 0034	Connector - male.....	1
391 0023	Flat washer.....	1
380 6022	Nut.....	2
114 0062	Yoke - clevis.....	1
114 0103	Pin - clevis.....	1
371 0011	Pin - cotter.....	1
102 6079	Cyl. - clutch release slave.....	1
102 6081	Kit - seal (for clutch release slave).....	1
102 6071	Rod (clutch release fork).....	1
392 0026	Lockwasher.....	2
300 4125	Bolt.....	2
114 0332	Pin - clevis.....	1
371 0011	Pin - cotter (with nut & plastic loom).....	1
609 0077	Ass'y - clutch tubing.....	1
409 9002	Plastic - loom 5/16 I.D. (multiple 12").....	
617 0390	Bushing.....	1
609 0076	Bracket - hyd. clutch tubing.....	1

As req'd

BOMBARDIER LTD/LTEE

## CLUTCH

## MUSKEG S.F.D.

## EMBRAYAGE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
300 4083	Bolt.....	1
392 0024	Lockwasher.....	1
609 0082	Spring - return.....	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
617 0390	Bushing.....	1
609 0076	Bracket hyd. clutch tubing.....	1
300 4083	Bolt.....	1
392 0024	Lockwasher.....	1

BOMBARDIER LTD/LTEE

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

DECEMBER 1969.

## THROTTLE

## MUSKEG S.F.D.

## ACCELERATEUR

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
610 0015	Ass'y - throttle pedal & toe board.....	1
610 0066	Brace - toe board.....	1
300 0001	Bolt.....	4
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
610 0016	Pad - throttle pedal.....	1
610 0021	Shaft - throttle rod cross.....	1
371 0011	Pin - cotter.....	2
610 0115	Rod - throttle (pedal to cross shaft).....	1
610 0116	Rod - throttle (cross shaft to carburetor) ..	1
371 0011	Pin - cotter.....	3
380 6019	Nut.....	1
612 0065	Rod - extension.....	1
386 3019	Nut.....	1
101 3001	Ball joint - throttle.....	1
661 0003	Spring - throttle return.....	1
380 6019	Nut (throttle ball joint).....	1

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

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## PROPELLER SHAFT

## MUSKEG S.F.D.

## ARBRE DE COMMANDE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
103 0010	Ass'y - propeller shaft (trans. to speed reducer).....	1
103 0009	Flange.....	3
103 0007	Kit - journal & bearing repair.....	4
103 0047	Snap - ring.....	14
108 2005	Fitting - grease.....	2
108 2010	Fitting - grease.....	4
103 0013	Yoke - (for 103 0010).....	2
103 0059	Seal - dust.....	2
103 0061	Washer.....	2
103 0060	Cap - dust.....	2
611 0035	Ass'y - propeller shaft (speed reducer to transmission).....	1
103 0058	Ass'y - slip joint (for 611 0035).....	1
103 0029	"U" bolt.....	2
392 0024	Lockwasher.....	4
380 6024	Nut.....	4
300 0124	Bolt.....	8
392 0026	Lockwasher.....	12
119 1103	Bolt - flange.....	4
380 6026	Nut.....	8
119 1102	Nut - flange bolt.....	4

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

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PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
107 3001	Hose - oil drain (multiple 12").....	As req'd
108 8004	Clamp - hose.....	2
300 0087	Bolt.....	2
612 0007	Plate - front motor insulator.....	1
670 1206	Support - front insulator rubber motor.....	1
670 1205	Support - insulator rubber motor.....	1
387 2024	Nut.....	2
300 0156	Bolt.....	2
387 2028	Nut.....	2
100 3007	Motor V-8 (318 cu.in.).....	1
119 0005	Trans. (4 speed).....	1
300 4194	Bolt.....	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 9509	Fibre - washer.....	1
102 9508	Block - oil filter....	1
102 2055	"O" ring.....	1
108 4034	Adapter.....	1
108 0016	Elbow.....	1
108 0019	Cock - drain,.. <sup>o</sup> .....	2
102 9512	Thermostat 160 <sup>o</sup> .....	1
399 8004	Lockwasher - medium.....	12
101 9008	Gasket elbow.....	1
661 2010	Pipe -oil succion.....	1
102 9269	Gasket - oil pan.....	1
661 2026	Pan - oil.....	1
108 0003	Cock - oil pan drain.....	1
612 0062	Support - rear motor.....	1
300 0131	Bolt.....	2
661 2006	Spacer.....	2
670 1207	Support - rear insulator rubber motor.....	4
612 0023	Washer.....	4
380 6026	Nut.....	4
107 5001	Hose - vent (multiple 12").....	As req'd
661 6005	Spacer - fan.....	1
661 6003	Blade - fan.....	1
300 4046	Bolt.....	4
612 0061	Bracket - hose.....	1
617 0697	Bracket oil filter (less cab).....	1
300 0041	Bolt (less cab).....	2
392 0022	Lockwasher (less cab).....	2
380 6022	Nut (less cab).....	2
114 0031	Filter (for motor).....	1
114 0032	Element-filter.....	1
300 0041	Bolt(oil filter).....	4
392 0022	Lockwasher.....	4
380 6022	Nut.....	4
391 0023	Flatwasher.....	4
108 0015	Elbow 90 <sup>o</sup> .....	1
108 0033	Elbow 45 <sup>o</sup> .....	1

BOMBARDIER LTD/LTEE

ENGINE

MUSKEG S.F.D.

MOTEUR

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
626 0432	Ass'y - pressure hose (with fittings) (motor to filter).....	1
626 0433	Ass'y - pressure hose (with fittings) (filter to motor).....	1
107 2019	Hose - pressure (multiple 12").....	As req'd
102 9097	Fan (4 blades, suction).....	1
114 0368	Filter - air.....	1
114 0369	Element - air filter.....	1

BOMBARDIER LTD/LTEE

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SECTION 12/2 - 1st PRINT  
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DECEMBER 1969.

## FUEL

## MUSKEG S.F.D.

## CARBURANT

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
613 0066	Ass'y - Fuel Line (with fittings) (gas tank to pump).....	1
107 2015	Hose - Pressure (Multiple 12").....	as req'd
613 0027	Bracket.....	1
300 4040	Bolt.....	1
392 0022	Lockwasher.....	1
613 0020	Tank - Fuel.....	1
110 0026	Gauge & Gasket - Fuel Tank.....	1
392 0014	Lockwasher.....	1
321 6061	Bolt.....	5
114 0010	Cap - Fuel Tank.....	1
300 0001	Bolt.....	4
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
613 0002	Elbow - Fuel tank outlet.....	1

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LITHO'D IN CANADA

SECTION 13/1 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## EXHAUST

## MUSKEG S.F.D.

## ECHAPPEMENT

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
614 0066	Muffler.....	1
300 0126	Bolt.....	4
389 8002	Nut.....	2
614 0062	Pipe - exhaust.....	1
114 0370	Cap - weather.....	1
614 0065	"U" bolt.....	1
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
614 0064	Bracket - "U" bolt (with cab).....	1

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

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
110 0016	Ammeter.....	1
110 0019	Gauge - temp.....	1
110 0003	Gauge - fuel.....	1
110 0011	Gauge - oil.....	1
110 0029	Meter - hour.....	1
110 1001	Switch - ignition.....	1
101 8001	Button - starter push.....	1
110 1002	Switch.....	4
110 9001	Breaker - circuit.....	1
321 6061	Bolt.....	1
392 0014	Lockwasher.....	1
114 0354	Ass'y - hand choke.....	1
385 7013	Nut.....	1
102 8159	Regulator - voltage.....	1
321 6061	Bolt.....	2
399 9001	Flatwasher.....	2
392 0014	Lockwasher.....	2
385 7013	Nut.....	2
661 5005	Ass'y - wire (circ. breaker to start. to ign).....	1
109 5013	Ass'y - wire (circ. breaker to ammeter)....	1
109 5014	Ass'y - wire (oil gauge to fuel & temp. gauge).....	1
661 5005	Ass'y - wire (circ. breaker to light switch).....	1
661 5012	Ass'y - wire (ign. sw. to hour meter).....	1
661 5011	Ass'y - wire (hour meter ground wire).....	1
109 4007	Ass'y - wiring harness.....	1
661 5006	Ass'y - wire (ign. sw. to wiper sw.).....	1
615 0013	Ass'y - wire (circ. breaker to dome light switch).....	1
320 1060	Bolt.....	1
392 0014	Lockwasher.....	1

BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

## ELECTRICAL (ENGINE)

## MUSKEG S.F.D.

SYSTEME ELECTRIQUE  
(MOTEUR)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
102 8163	Cover - alternator terminal.....	1
391 0021	Flatwasher.....	1
392 0019	Lockwasher.....	1
380 9019	Nut.....	1
365 0002	Bolt (ground on alternator).....	1
392 0014	Lockwasher.....	1
102 8111	Switch - solenoid (12 volts).....	1
321 6100	Bolt.....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
109 5002	Cable - battery.....	2
107 3001	Protector - wire (multiple 12").....	As req'd
392 0022	Lockwasher.....	2
380 9022	Nut.....	2
392 0014	Lockwasher.....	1
380 7013	Nut.....	1
670 1502	Insulator - battery shock.....	1
110 3002	Battery 12 volts.....	1
615 0004	Bracket - battery.....	1
392 0022	Lockwasher.....	2
300 0046	Bolt.....	2

BOMBARDIER LTD/LTEE

LITHOID IN CANADA

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

DECEMBER 1969.

## ELECTRICAL (LIGHT)

## MUSKEG S.F.D.

SYSTEME ELECTRIQUE  
(LUMIERE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
615 0038	Ass'y - Electrical wiring (domelamp to dome-light switch).....	1
360 4081	Bolt.....	3
615 0020	Housing - headlamp.....	3
615 0012	Seat - headlamp.....	3
617 1501	Rubber - headlamp support.....	2
392 0024	Lockwasher.....	1
391 0029	Flatwasher.....	2
385 1024	Nut.....	3
107 9005	Grommet - rubber.....	3
615 0037	Ass'y - wire (headlight switch to headlamp L.H.).....	1
615 0035	Ass'y - wire (headlight switch to headlamp R.H.).....	1
615 0034	Ass'y - wire (headlamp connector to ground).....	2
615 0032	Ass'y - wire (headlamp to ground).....	1
365 0002	Bolt.....	1
109 0007	Terminal.....	6
109 1001	Connector - headlamp.....	3
110 9021	Clip - headlamp connector.....	6
110 6029	Beam - sealed.....	3
615 0021	Ring - headlamp.....	3
321 6063	Bolt.....	3
385 1013	Nut.....	3
110 6008	Ass'y - domelamp.....	1
392 0014	Lockwasher.....	2
321 6061	Bolt.....	2
409 0002	Terminal.....	2
409 0001	Connector - snap.....	1

BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

## ELECTRICAL (WIPER)

## MUSKEG S.F.D.

SYSTEME ELECTRIQUE  
(ESSUIE GLACE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
110 7010	Motor - wiper.....	1
661 5010	Ass'y - wire (wiper sw. to wiper motor)...	1
114 0106	Housing (multiple 12").....	as req'd
321 7064	Bolt.....	1
392 0014	Lockwasher.....	1
385 7013	Nut.....	1
110 7011	Arm - wiper.....	1
110 7004	Blade - wiper.....	1

LITHO'D IN CANADA

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

DECEMBER 1969.

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 15/5 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

## COOLING

## MUSKEG S.F.D.

## REFROIDISSEMENT

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0118	Bracker - R.H. radiator.....	1
617 0120	Bracket - L.H. radiator.....	1
300 0001	Bolt.....	4
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
300 0001	Bolt.....	4
617 0143	Shroud - radiator.....	1
114 0170	Ass'y - radiator.....	1
392 0019	Lockwasher.....	4
380 6019	Nut.....	4
107 4011	Hose - radiator.....	1
108 8007	Clamp - hose.....	6
107 4012	Hose - radiator lower motor.....	2
616 0047	Hose - radiator metal.....	1
108 7061	Plug.....	1
114 0011	Cap - radiator.....	1

## BODY (CAB)

## MUSKEG S.F.D.

## CARROSSERIE (CABINE)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0393	Cab.....	1
617 0260	Door - L.H.....	1
617 0256	Door - R.H.....	1
617 0182	Hinge - Door.....	8
617 0181	Washer - Spacer.....	8
380 6019	Nut - Door Hinge.....	8
617 0102	Glass - Rear.....	2
617 0100	Frame - Rear glass (top & bottom).....	4
617 0101	Frame - Rear glass (side).....	4
390 4016	Rivet - 1/8" dia. x .481" Long.....	28
111 0006	Glass - Windshield.....	2
107 7001	Moulding - Doortite (Multiple 12").....	As req'd
617 0098	Frame - Windshield glass.....	2
617 0359	Strip - Windshield center.....	1
390 4016	Rivet - 1/8" dia. x .481" Long.....	As req'd
390 4001	Rivet - 1/8" dia. x .290" Long.....	As req'd
681 0048	Ass'y - R.H. Door glass.....	1
617 0265	Frame - R.H. Door glass.....	1
321 7001	Screw.....	2
385 8007	Nut.....	2
617 0184	Clip - Retaining R.H.....	1
111 0014	Glass.....	1
681 0049	Ass'y - L.H. Door glass.....	1
617 0267	Frame - L.H. Door glass.....	1
321 7001	Screw.....	2
385 8007	Nut.....	2
617 0255	Clip-retaining L.H.....	1
111 0014	Glass.....	1
371 0034	Pin - Cotter.....	4
300 0084	Bolt (Cab).....	2
300 0081	Bolt (Cab).....	8
392 0024	Lockwasher.....	10
380 6024	Nut.....	10
617 0129	Front guard - Steering lever.....	1
300 0001	Bolt (front guard) (use with cab only).....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
680 0206	Ass'y - R.H. Door stop.....	1
680 0207	Ass'y - L.H. Door stop.....	1
167 0407	Stop - R.H. Door.....	1
617 0105	Stop L.H. Door.....	1
617 0106	Rubber - Door stop.....	2
324 8064	Bolt.....	4
392 0014	Lockwasher.....	4
385 7013	Nut.....	4
399 8002	Washer.....	4
300 0001	Bolt (Door stop).....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2

BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

DECEMBER 1969.

## BODY (COWLING)

## MUSKEG S.F.D.

## CARROSSERIE (CAPOT)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
617 0021	Cowling - Front (less cab).....	1
300 0041	Bolt (Mudguard extention).....	3
392 0022	Lockwasher.....	3
300 0081	Bolt (side of cowling).....	2
617 0604	Mudguard extension.....	1
300 0084	Bolt (front of cowling).....	2
392 0024	Lockwasher.....	4
380 6024	Nut.....	4
617 0327	Stiffener (less cab).....	1
300 0041	Bolt (less cab).....	2
392 0022	Lockwasher (less cab).....	2
380 6022	Nut (less cab).....	2
617 0696	Plate - Trans. cover.....	1
617 0654	Support - Winch & Motor.....	1
300 0083	Bolt.....	1
300 0081	Bolt.....	15
392 0024	Lockwasher.....	16
380 6024	Nut.....	16
670 2603	Grommet.....	1
617 0682	Guard - Radiator top air.....	1
617 0689	Guard - Radiator bottom air.....	1
300 0000	Bolt.....	4
392 0019	Lockwasher.....	4
617 0108	Grill - Radiator.....	1
300 0045	Bolt.....	2
392 0022	Lockwasher.....	2
617 0171	Door - Radiator top (with clamp).....	1
108 8003	Clamp.....	1
390 4021	Rivet 3/16" dia. x .290" L.....	2
617 0172	Pin - Hinge.....	2
371 0011	Pin - Cotter.....	2
617 0125	Box - Tool.....	1
300 0041	Bolt.....	3
392 0022	Lockwasher.....	3
380 7022	Nut.....	3
617 0126	Door - Tool Box.....	1
371 0123	Pin - cotter.....	1
114 0084	Plate - identification.....	1
365 0001	Bolt.....	4
617 0723	Door - L.H. engine side door.....	1
617 0724	Door - R.H. engine side door.....	1
386 3019	Nut.....	4
617 0691	Door - engine top.....	1
617 0166	Pin - hinge.....	1
371 0011	Pin - cotter.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

DECEMBER 1969.

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
114 0072	Pull - door.....	2
363 0073	Bolt.....	8
681 0032	Ass'y - door handle & catch.....	2
661 7003	Case - catch.....	2
661 7005	Handle - door.....	2
661 7006	Latch.....	2
661 7004	Holder - latch.....	2
114 0030	Spring - latch.....	2
114 0076	Pin.....	2
371 0001	Pin - cotter.....	2
114 0075	Lock - door handle.....	2
320 0063	Bolt.....	8
617 0269	Ass'y - pull rod & chain.....	2
617 0270	Rubber - pull rod & chain.....	2
362 9103	Bolt.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 17/3 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969,

## BODY (SEAT &amp; DASH)

## MUSKEG S.F.D.

CARROSSERIE (SIEGE &  
TABLEAU DE BORD)

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
681 0068	Ass'y - operator 's side seat.....	2
617 0077	Seat.....	4
114 0038	Pad - backrest cushion pad.....	4
517 0023	Leatherette - backrest cushion.....	4
617 0079	Ass'y - operator's cushion.....	4
300 0044	Bolt.....	4
380 7022	Nut.....	8
617 0164	Dash.....	1
300 4005	Bolt.....	4
300 0000	Bolt.....	2
392 0019	Lockwasher.....	6
380 6019	Nut.....	2
380 9019	Nut.....	4

LITHO'D IN CANADA

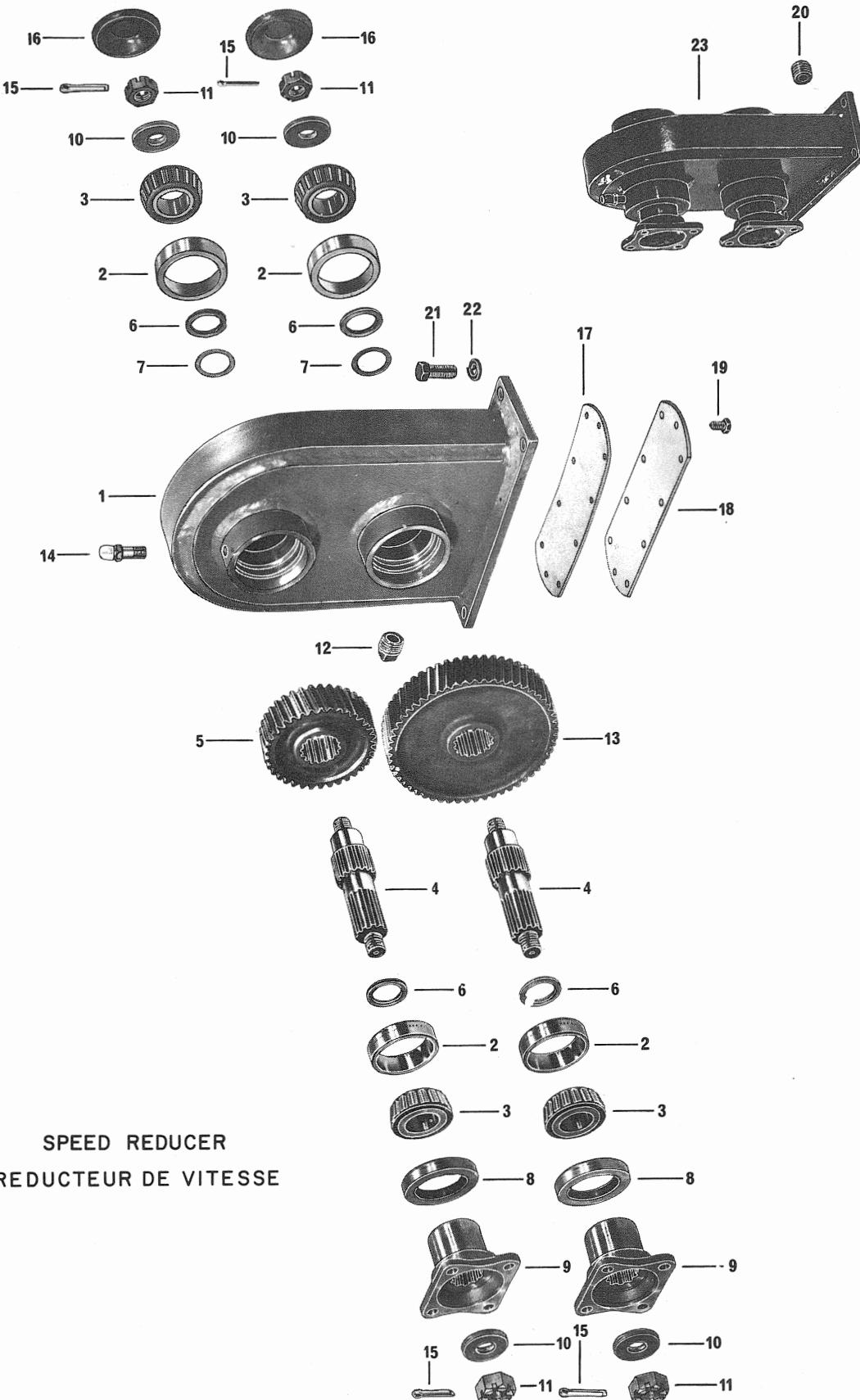
BOMBARDIER LTD/LTEE  
SECTION 17/4 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

TRANSFER CASE

MUSKEG S.F.D.

BOITIER DE TRANSFERT



SPEED REDUCER

REDUCTEUR DE VITESSE

## TRANSFER CASE

## MUSKEG S.F.D.

## BOITIER DE TRANSFERT

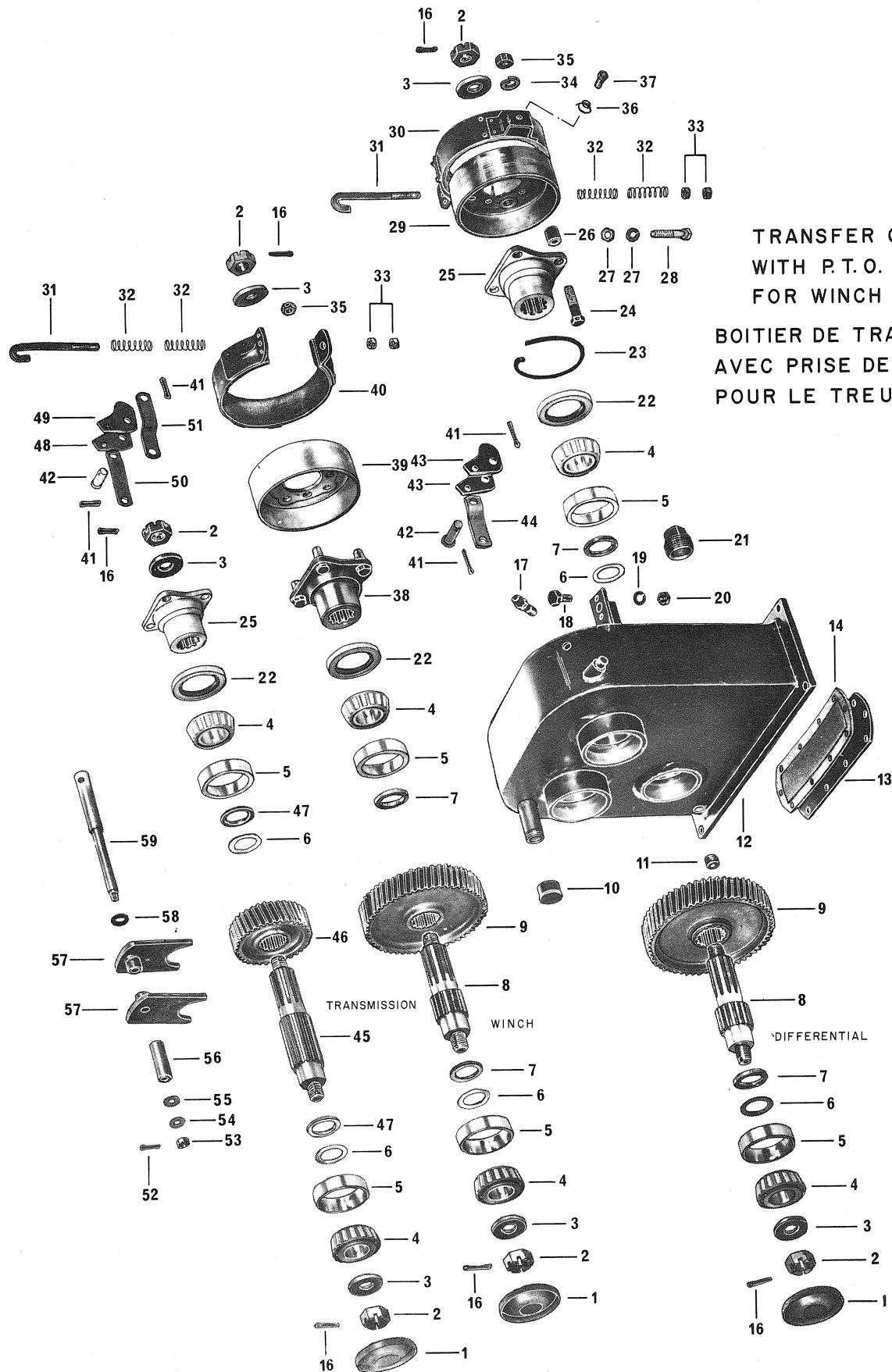
REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	623 0034	Case - (with cup).....	1
2	105 0017	Cup - bearing.....	4
3	105 0016	Cone - bearing.....	4
4	623 0025	Shaft - driven gear.....	2
5	623 0012	Gear - drive.....	1
6	623 0026	Spacer.....	4
7	623 0018	Shim .024".....	As req'd
7	623 0017	Shim .010".....	As req'd
8	106 3003	Seal - oil.....	2
9	103 0028	Flange.....	2
10	608 0008	Washer - flat.....	4
11	389 8005	Nut.....	4
12	108 7004	Plug - filler.....	1
13	623 0023	Gear - driven.....	1
14	101 4008	Air vent - case.....	1
15	371 0062	Pin - cotter.....	4
16	623 0027	Cap - end.....	2
17	623 0011	Gasket.....	1
18	623 0010	Cover - case.....	1
19	300 4000	Bolt - case cover.....	10
20	108 7008	Plug - drain.....	1
21	300 0124	Bolt.....	4
22	392 0026	Lockwasher.....	4
23	680 0034	Ass'y - speed reducer.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 23/2 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.



## TRANSFER CASE

## MUSKEG S.F.D.

## BOITIER DE TRANSFERT

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
	680 0033	Ass'y - transfer case.....	1
1	623 0027	Cap - end.....	3
2	389 8005	Nut.....	6
3	608 0008	Washer - Locking.....	6
4	105 0016	Cone - bearing.....	6
5	105 0017	Cup - bearing.....	6
6	623 0017	Shim .010".....	as req'd
6	623 0018	Shim .024".....	as req'd
7	623 0026	Spacer.....	4
8	623 0025	Shaft - driven gear(diff. & winch) ..	2
9	623 0023	Gear - driven.....	2
10	114 0199	Cap - fork shaft housing.....	1
11	108 7008	Plug - drain.....	1
12	623 0009	Case - transfer (with bearing cup) ..	1
13	623 0010	Cover - case.....	1
14	623 0011	Gasket - cover.....	1
15	300 4000	Bolt.....	10
16	371 0033	Pin - cotter.....	6
17	101 4008	Vent - air.....	1
18	300 8001	Bolt.....	2
19	392 0019	Lockwasher.....	2
20	380 6019	Nut.....	2
21	108 7004	Plug - filler.....	1
22	106 3003	Seal - oil.....	3
23	623 0045	Lock bolt.....	1
24	662 3004	Bolt.....	4
25	103 0028	Flange.....	2
26	623 0033	Spacer flange.....	4
27	380 9019	Nut.....	2
28	101 2001	Bolt.....	1
29	660 4012	Drum - diff. brake.....	1
30	101 4010	Ass'y - brake band.....	1
31	662 4010	Bolt - brake band adj.....	2
32	101 2002	Spring - brake band adj.....	4
33	380 9024	Nut.....	4
34	392 0026	Lockwasher.....	4
35	380 6026	Nut.....	8
36	101 4007	Spring.....	1
37	101 4002	Screw - anchor brake band.....	1
38	662 3003	Flange - winch brake drum.....	1
39	660 4008	Drum - brake.....	1
40	660 4009	Band & lining - brake.....	1
41	371 0031	Pin - cotter.....	4
42	114 0017	Pin - brake band.....	2
43	604 0037	Lever - diff. brake band cam.....	2
44	623 0038	Link - lever.....	1
45	623 0014	Shaft - driven gear (transmission) ..	1
46	623 0012	Gear - drive.....	1
47	623 0036	Spacer.....	2
48	101 2003	Cam - lever brake.....	1

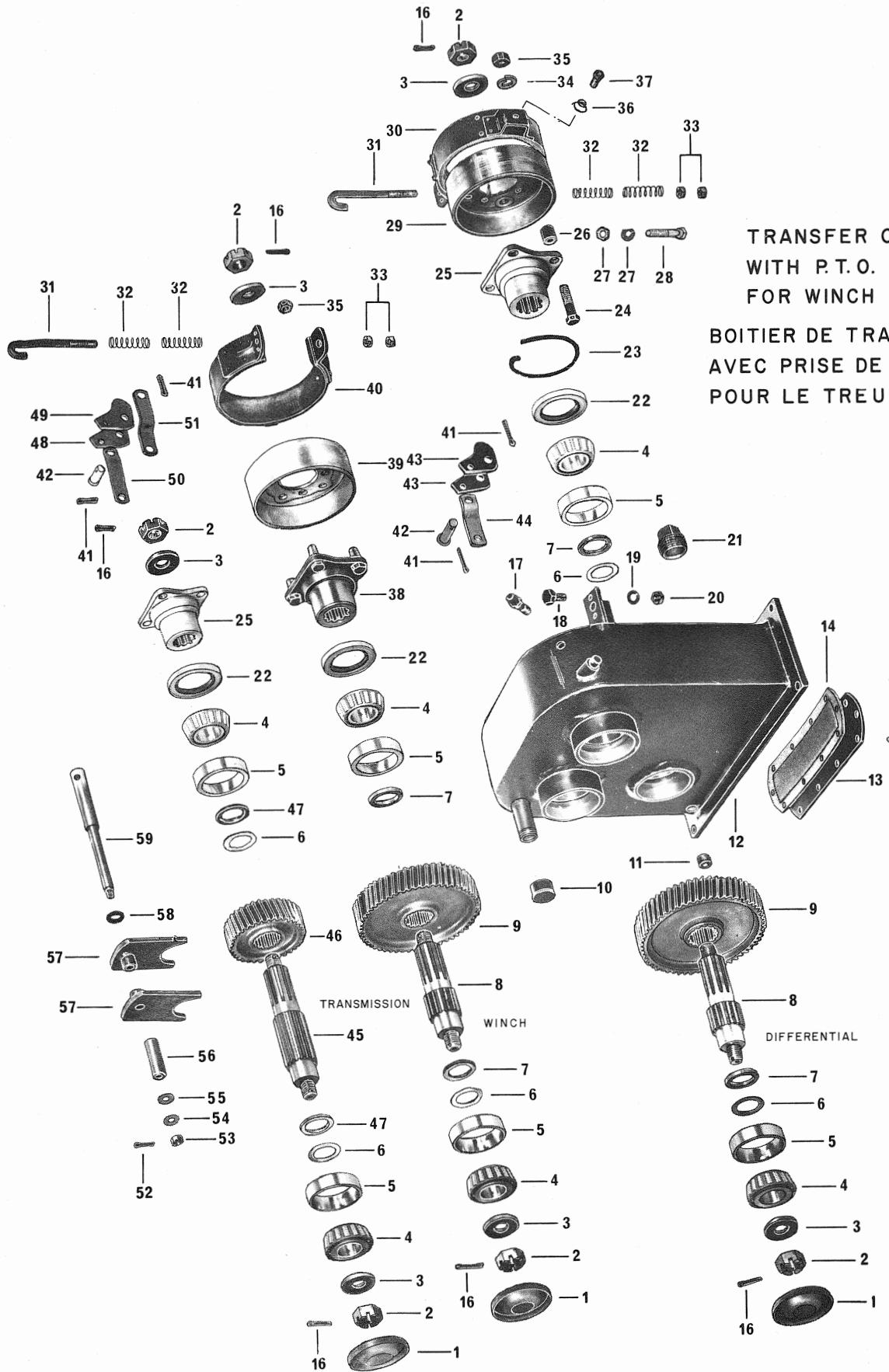
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SECTION 23/4 - 1st PRINT

1st MODEL (ISSUE 1)

LITHO'D IN CANADA

DECEMBER 1969.



TRANSFER CASE  
WITH P.T.O.  
FOR WINCH

BOITIER DE TRANSFER  
AVEC PRISE DE FORCE  
POUR LE TREUIL

## TRANSFER CASE

## MUSKEG S.F.D.

## BOITIER DE TRANSFERT

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
49	660 4010	Lever - cam.....	1
50	660 4011	Inner - lever link.....	1
51	101 4003	Outer - brake band link.....	1
52	371 0011	Pin - cotter.....	1
53	381 2024	Nut.....	1
54	604 0134	Shim .010".....	as req'd
54	604 0135	Shim .020".....	as req'd
55	604 0136	Shim .036".....	as req'd
56	623 0021	Bushing - shaft.....	1
57	623 0020	Fork - drive gear.....	2
58	106 0014	"O" ring.....	1
59	623 0019	Shaft - fork.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

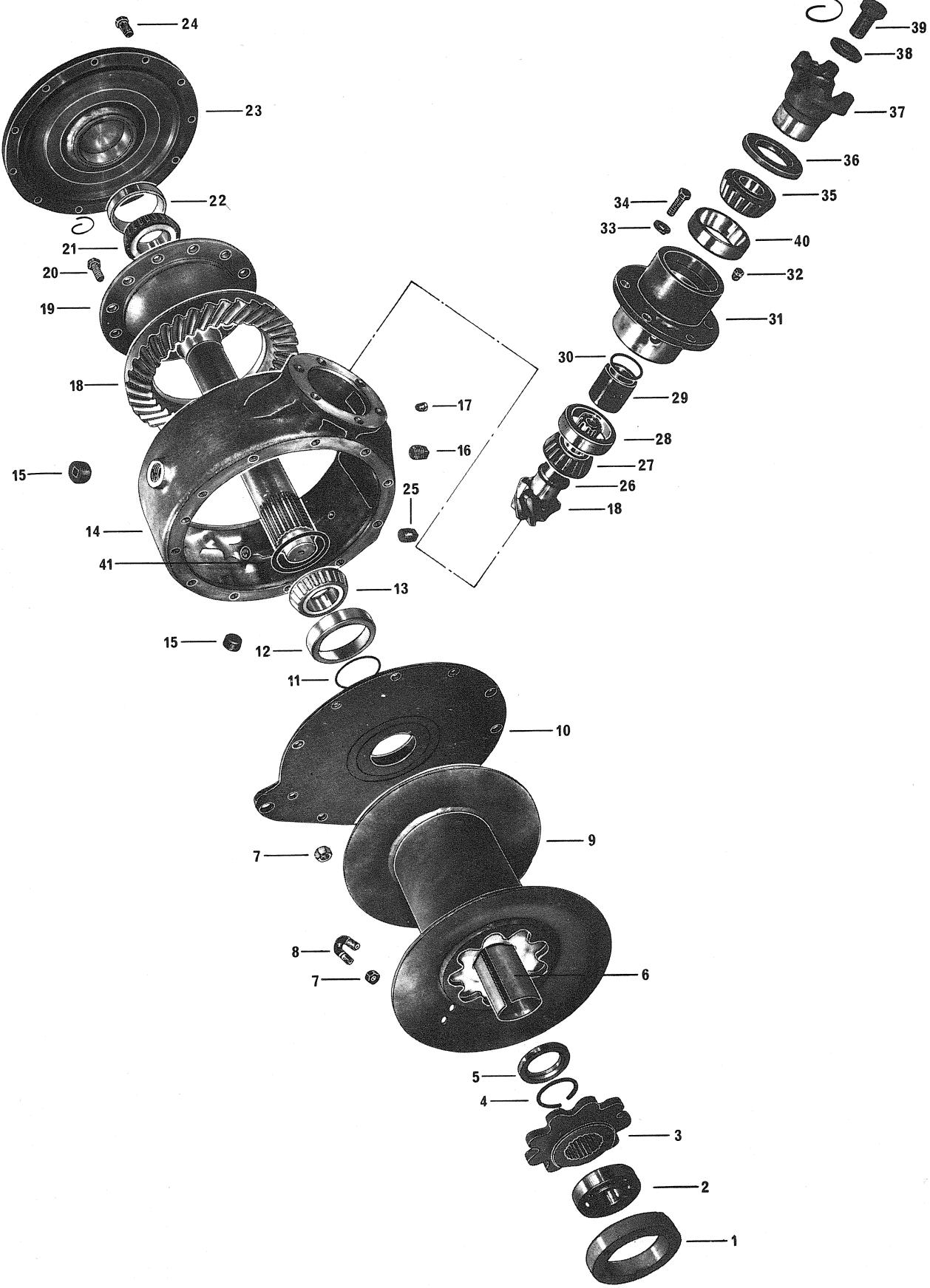
SECTION 23 / 6 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

WINCH

MUSKEG S.F.D.

TREUIL



BOMBARDIER LTD/LTEE

SECTION 24/1 - 1st PRINT  
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

DECEMBER 1969

REF. NO.	PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
1	680 0084	Ass'y - winch.....	1
1	624 0013	Support - drum shaft bearing.....	1
2	105 4003	Bearing - drum shaft.....	1
3	624 0009	Clutch - drum.....	1
4	624 0011	Lock wire - drum shaft.....	1
5	624 0010	Lock - drum shaft.....	1
6	624 0008	Sleeve - drum.....	1
7	380 9026	Nut.....	8
8	624 0012	"U" Bolt - cable.....	1
9	624 0006	Drum.....	1
10	624 0002	Cover - L.H. winch case.....	1
11	106 3014	Seal.....	1
12	105 0024	Cup - bearing.....	1
13	105 0030	Cone - bearing.....	1
14	662 4019	Case - winch.....	1
15	103 2027	Plug - 3/4" NPT.....	2
16	108 7061	Plug - 1/8" NPT.....	1
17	108 0012	Plug - 1/4" NPT.....	1
18	103 1002	Seat - crown gear & pinion.....	1
19	624 0005	Shaft - crown gear carr.....	1
20	309 8018	Bolt - crown gear.....	12
21	105 0025	Cone - bearing.....	1
22	105 0024	Cup - bearing.....	1
23	624 0003	Cover - R.H. winch case.....	1
24	300 4123	Bolt.....	8
24	300 4125	Bolt.....	11
24	300 4129	Bolt.....	3
25	108 7009	Plug - 1/2" NPT.....	1
26	608 0004	Shim - winch pinion bearing .003"....	as req'd
26	608 0005	Shim - winch pinion bearing .005"....	as req'd
26	608 0006	Shim - winch pinion bearing .010"....	as req'd
26	608 0007	Shim - winch pinion bearing .036"....	as req'd
27	105 0027	Cone - bearing.....	1
28	105 0026	Cup - bearing.....	1
29	608 0003	Spacer - winch pinion bearing.....	1
30	608 0004	Shim - .003"....	as req'd
30	608 0005	Shim - .005"....	as req'd
30	608 0006	Shim - .010"....	as req'd
30	608 0009	Shim - .015"....	as req'd
31	624 0004	Housing - pinion.....	1
32	108 7026	Plug - drain.....	1
33	392 0030	Lockwasher.....	6
34	300 4192	Bolt.....	6
35	105 0029	Cone - bearing.....	1
36	106 3002	Seal - oil.....	1
37	103 1004	Yoke - end.....	1
38	608 0008	Washer - locking.....	1
39	660 8006	Bolt.....	1
40	105 0028	Cup - bearing.....	1
41	601 0018	Shim - axle bearing .003"....	as req'd
41	601 0019	Shim - axle bearing .005"....	as req'd
41	601 0020	Shim - axle bearing .010"....	as req'd
		Lockwire.....	2

BOMBARDIER LTD/LTEE

TOOL

## MUSKEG S.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	Adjuster - bleeder track.....	1
102 5036	Manual - part (chrysler).....	1
102 5037	Manual - maintenance (chrysler).....	1
180 1015	Manual - owner's manual & spare parts manual	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 29/1 - 1st PRINT  
1st MODEL (ISSUE 1)

DECEMBER 1969.

DECAL

## MUSKEG S.F.D.

DECALQUE

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
114 0372	Décalque - hydraulic steering.....	1
114 0371	Décalque - inspection.....	1
114 0130	Décalque - full low.....	1
114 0366	Décalque - F.D.....	1
114 0326	Décalque - Bombardier.....	1
114 0325	Décalque - Bombardier.....	1
114 0365	Décalque - Muskeg.....	1
114 0364	Décalque - "S".....	1

BOMBARDIER LTD/LTEE

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(ISSUE 1)

DECEMBER 1969.

## HOSE CLAMP

## MUSKEG S.F.D.

## COLLIER DE BOYAUX

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.....

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

HOSE HYDRAULIC

MUSKEG S.F.D.

BOYAU HYDRAULIQUE

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

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Miscellaneous 3 - 1st PRINT  
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