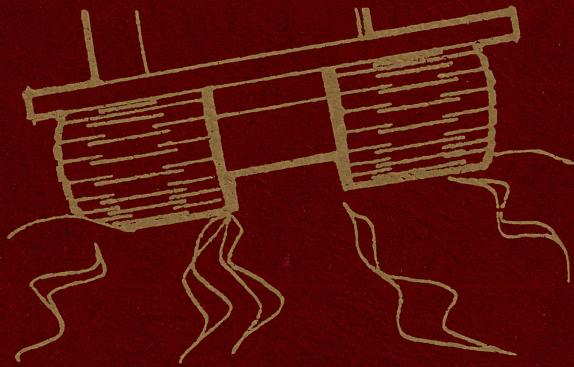


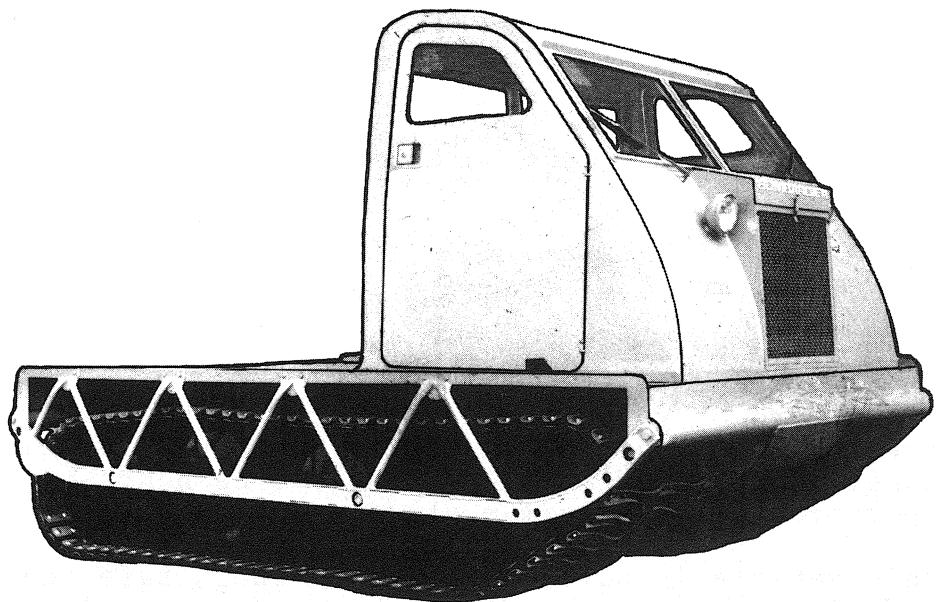
MUSKEG CARRIER.*

OPERATORS MANUAL
AND SPARE PARTS LIST



MANUEL DE L'OPÉRATEUR
ET LISTE DE PIÈCES DE RECHANGE

BOMBARDIER LTD/LTÉE
VALCOURT, QUEBEC, CANADA



MUSKEG_{*} CARRIER

MODEL "S" CARRIER

**OPERATOR'S MANUAL AND
SPARE PARTS LIST**

CARRIER MODELE "S"

**MANUEL DE L'OPÉRATEUR
ET LISTE DE PIÈCES**

INDUSTRIAL DIVISION INDUSTRIELLE

BOMBARDIER LTD/LTÉE

VALCOURT QUÉBEC CANADA

INTRODUCTION

"Take care of your machine and your machine will take care of you". Yes, the tough MUSKEG* carrier model S can give you many trouble free hours of operation with a minimum of care and attention.

This vehicle is built to give you long, safe and efficient service, but for it to continue delivering the fine performance of which it is capable, it must be given proper care.

Backed by over 40 years of engineering know-how, BOMBARDIER*LTD. urge you to read this manual carefully, with great attention given to regular vehicle inspection and maintenance.

Breakdowns are not necessarily the consequence of a malfunction in the machine, but are often due to carelessness on the part of the driver. We recommend that operators stay alert.

All information contained in this manual is based on the latest product information available at the time of printing.

BOMBARDIER*LTD. reserves the right to make changes at any time without notice.

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.

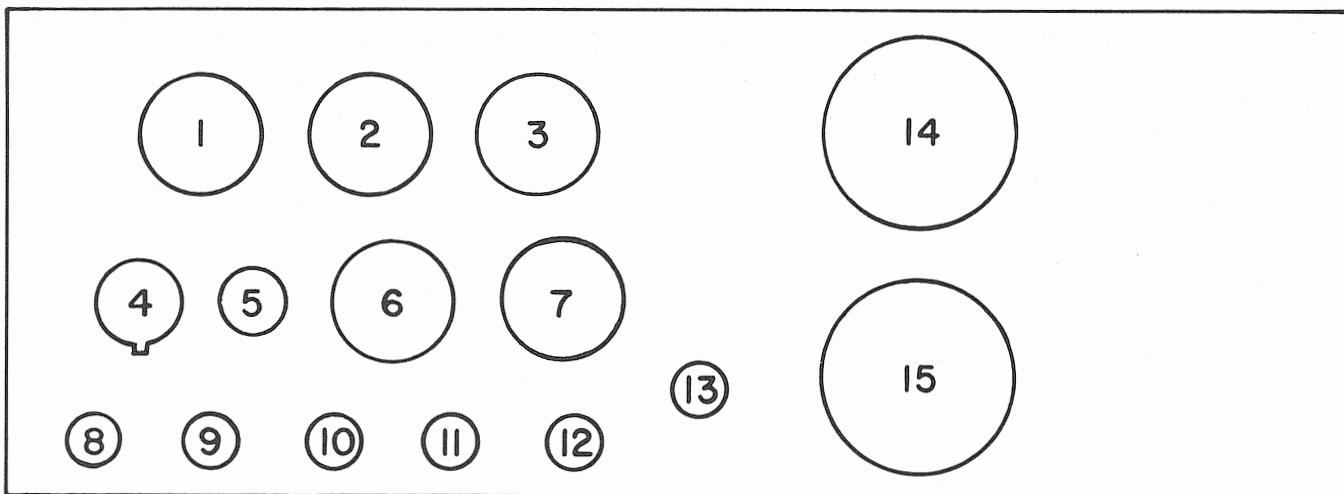
SPEEDOMETER (OPTIONAL)

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.

INSTRUMENT PANEL



(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
switch (opt.) | 16. Dimmer switch (opt.) |

OPERATING LEVERS

STEERING

The steering wheel existing on ordinary vehicles is replaced on our tractors by the steering levers which 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.

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

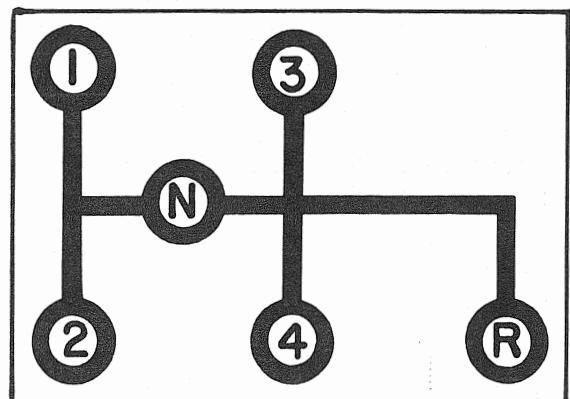
The accelerator pedal is situated to the right of the floor panel. The accelerator is used to increase the speed (RPM) of the engine according to foot-pressure action on the pedal.

4-SPEED 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.



4 - SPEED GEARSHIFT LEVER WHEN USING BOMBARDIER WINCH

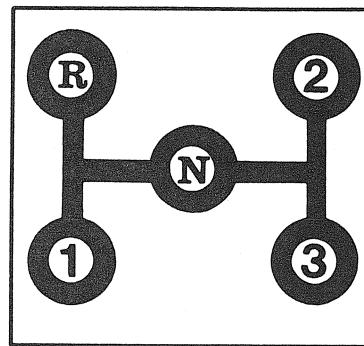
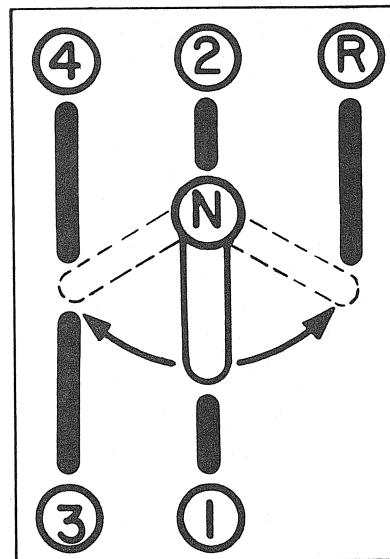
When a BOMBARDIER winch is installed on the Model "S", the gearshift lever is situated between the driver's seat and the engine cowling. It works in accordance with the diagram at the right. The BOMBARDIER*winch is set in operation by shifting the lever located between the driver's seat and the winch 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.

3 - SPEED GEARSHIFT

The gearshift remains the same for the 3-speed transmission (whether the BOMBARDIER*winch is used or not).



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 Model "S" 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 Model "S" Tractor are N 11 Y Champion.

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

COOLING SYSTEM

COOLANT RECOMMENDATIONS

It is the owner's responsibility to keep the freeze protection at least commensurate (corresponding) with the temperatures which may occur in the area in which the vehicle will be operated. When coolant additions are required because of coolant loss or to provide additional protection against freezing at temperatures lower than -32°, a sufficient amount of an ethylene glycol base coolant should be used.

NOTE:

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

FAN BELT

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

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

NOTE:

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

RADIATOR

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

The pressure of the Model "S" Tractor cooling system is 7 p.s.i.

CAUTION:

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

THERMOSTAT

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

CAUTION:

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

METHOD OF DRAINING MOTOR AND RADIATOR

1. Install a flexible plastic or rubber hose on the engine drain cock located between the oil filler pipe and the distributor. This hose should have a maximum inside diameter of $\frac{1}{2}$ inch and should be 4 feet long.
2. From drain cock, this hose should pass over the mudguard and the end should come down below the level of the drain cock so that it will act as a siphon to drain the engine block completely.
3. To drain the radiator, remove the plug at the base of the radiator. 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	E. P. gear oil	Above 40° F.	S.A.E. 90 weight
SPEED REDUCER	meeting specification MIL-L		
WINCH		Below 40° F.	S.A.E. 80 weight
TRANSFER CASE	2105-B		
DIFFERENTIAL	ESSO TORQUE FLUID #56 OR ANY EQUIVALENT		
GREASE FITTINGS	Good quality multi-purpose grease	Above 0° F. Below 0° F.	Water resistant grease Superior shear stability grease
HYDRAULIC SYSTEM	Premium quality of hydraulic transmission fluid type C-2	Summer above -10° F. Winter 0° F. to -60° F.	MIL-L-2104 *MIL-L-10295

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

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

LUBRICATION

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

DAILY RECOMMENDATIONS EVERY 10 HRS

DIFFERENTIAL

1. Check the level and the condition of the oil in the differential daily. If it is contaminated, drain and refill.
2. Check engine oil level.
3. Grease propeller shaft.
4. Grease wheels daily when working in wet conditions.

WEEKLY LUBRICATION EVERY 50 HRS

1. Check engine oil level.
2. Transmission oil level - Check.
3. Wheel bearings, fitting (16) on wheel caps - Grease.
4. Front axle - Grease.

EVERY 100 HOURS

1. Brake levers - Oil joints.
2. Clutch pedal bushings - Oil.
3. Throttle pedal - bushings - Oil.
4. Propeller 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. 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 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:

- 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 undercarriage, 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 wheel alignment and condition of the suspension bearings.

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 suspension bearings.

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.

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 equipment 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".

MUSKEG "S" CARRIER

GENERAL INFORMATION

PARTS MANUAL

ILLUSTRATIONS

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

ILLUSTRATIONS

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

INFORMATION GENERALE

MANUEL/PIECES

BOMBARDIER LTD/LTEE

MUSKEG "S" CARRIER

<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

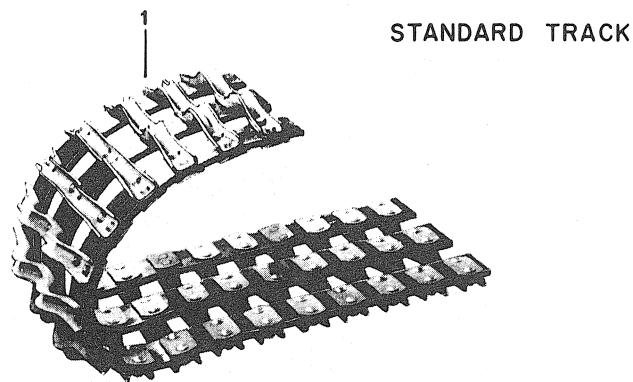
Abs.....	absorber	Lgh.....	length
Accel.....	accelerator	L.W.....	lockwasher
Acc.....	accessory	Man.....	manual
Amp.....	ampere	M.P.....	medium pressure
&.....	and	M.P.H.....	miles per hour
Ass'y.....	assembly	No. or #.....	number
As req'd.....	as required	Opt.....	optional
Brl.....	barrel	Pkg.....	package
Bush.....	bushing	Park.....	parking
Bkt.....	bracket	P.S.I.....	per square inch
Chr.....	chromium	P/washer.....	plainwasher
C.I.D.....	cubic inches displacement	Lbs.....	pounds
C/breaker.....	circuit breaker	Rad.....	radiator
Cyl.....	cylinder	Req.....	required
Elec. or elect.....	electric	R.P.M..	revolutions per minute
Eng.....	engine	RHD.....	right hand drive
Equip.....	equipment	Sec.....	section
Exh.....	exhaust	Spd.....	speed
Flr.....	floor	Std.....	standard
Ft.....	foot or feet	Strg.....	steering
H/brake.....	hand brake	Supt.....	support
H.P.....	horse power	Susp.....	suspension
Hydr.....	hydraulic	Synch.....	synchronizer
Ign.....	ignition	Temp.....	temperature
Lp.....	lamp	Term.....	terminal
LHD.....	left hand drive	Whl.....	wheel

BOMBARDIER LTD/LTEE

TRACK

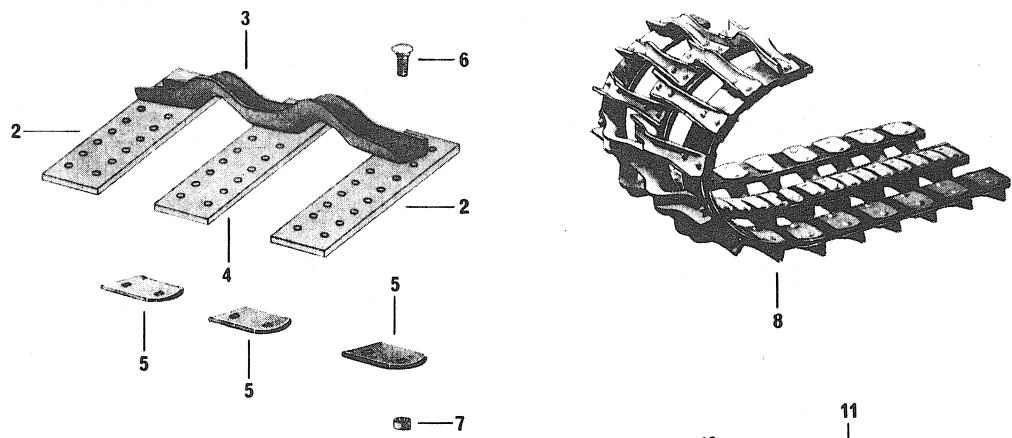
MUSKEG "S" CARRIER

CHENILLE

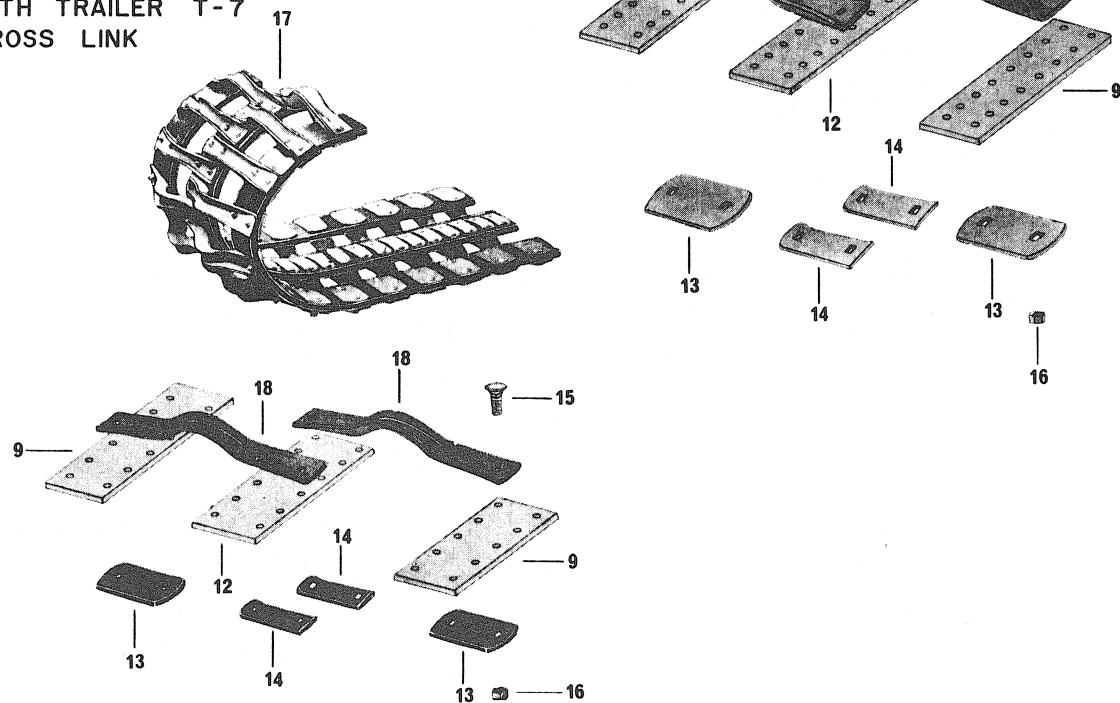


STANDARD TRACK

OPTIONAL TRACK
WITH CROSS LINK
L.H. & R.H.



OPTIONAL TRACK
WITH TRAILER T-7
CROSS LINK



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

APRIL 1970.

TRACK

MUSKEG "S" CARRIER

CHENILLE

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	680 0022	Ass'y - track.....	2
2	670 0008	Belt - side track.....	4
3	600 0010	Cross link.....	144
4	670 0009	Belt - center track.....	2
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	600 0011	Cross link R.H. (optional).....	144
11	600 0003	Cross link L.H. (optional).....	144
12	670 0007	Belt - center track (optional).....	1
13	600 0020	Cleat (optional).....	288
14	600 0019	Cleat (optional).....	288
15	360 8003	Bolt - track (optional).....	1152
16	387 2024	Nut - (optional).....	1152
17	680 0020	Ass'y - track (optional).....	2
18	600 0007	Cross link (trailer T-7 optional)	288

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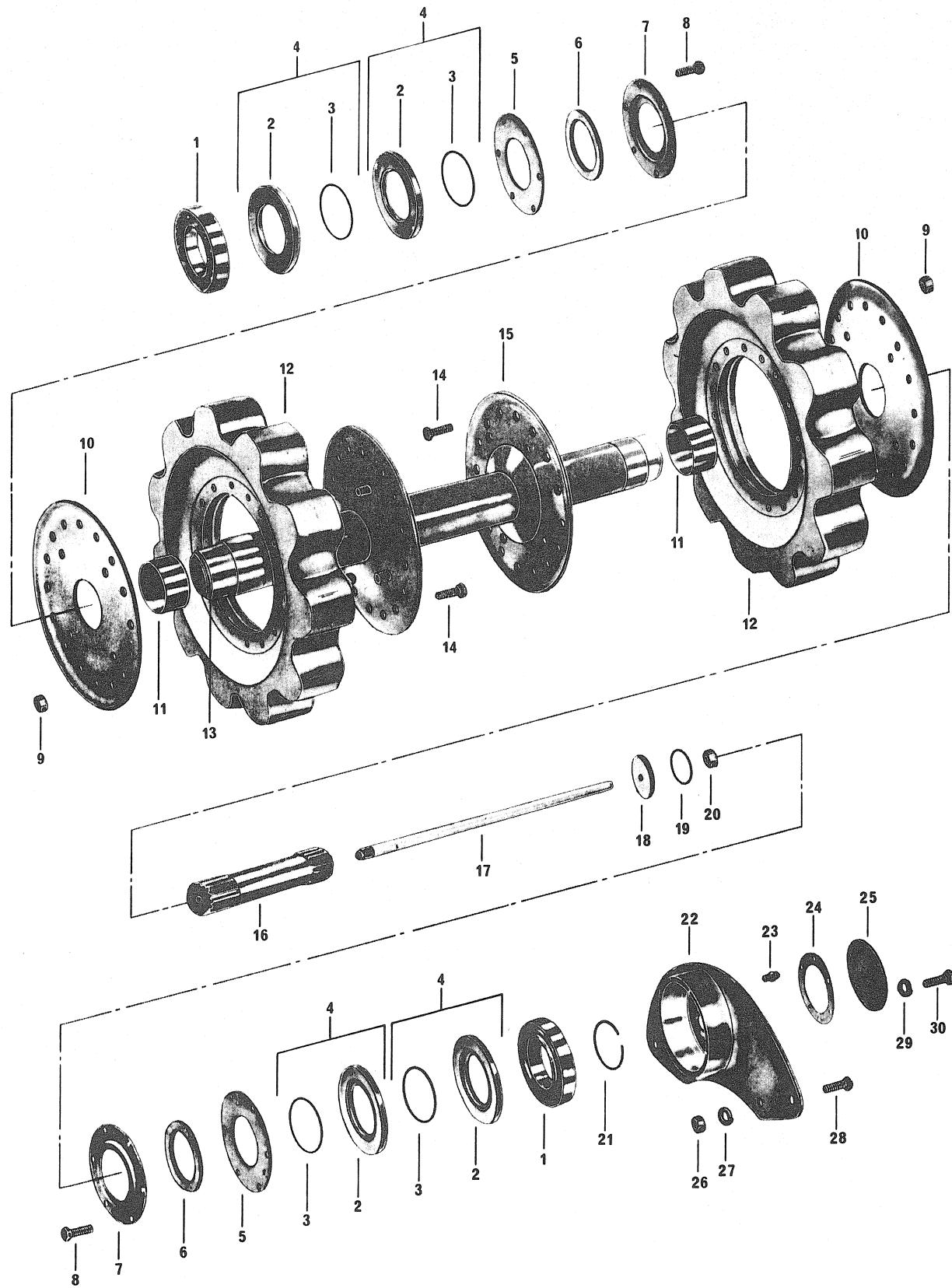
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APRIL 1970.

DRIVE

MUSKEG "S" CARRIER

COMMANDER



BOMBARDIER LTD/LTEE

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SECTION 01/1 - 1st PRINT
1st MODEL

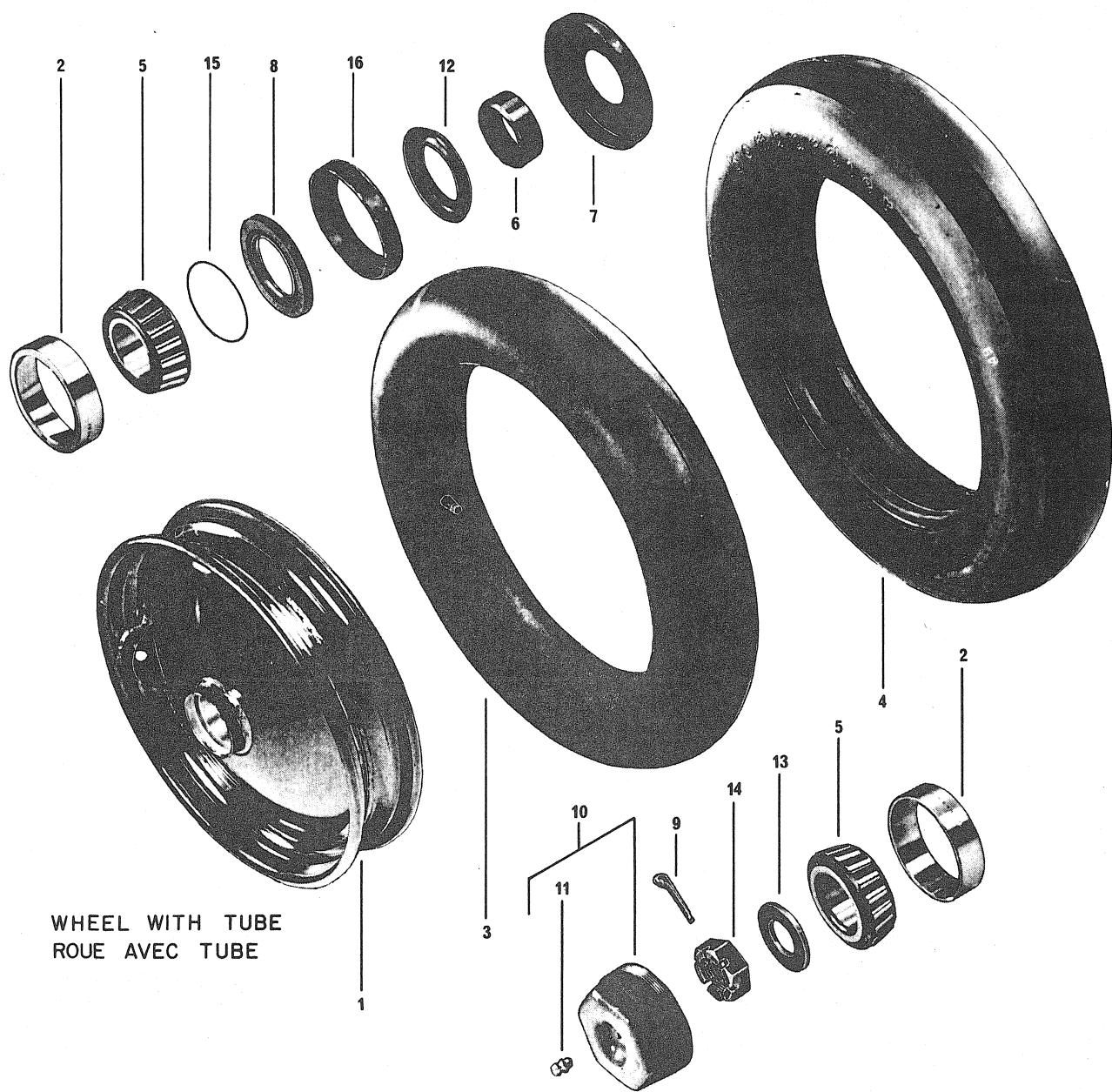
APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	105 4002	Bearing - drive axle hub.....	4
2	670 0107	Seal.....	8
3	601 0049	Spring - seal.....	8
4	601 0066	Ass'y - seal & spring.....	8
5	601 0046	Retainer - inner seal.....	4
6	114 0029	Seal - axle hub bearing dust.....	4
7	601 0045	Retainer - outer seal.....	4
8	300 0001	Bolt.....	24
9	387 2024	Nut - drive sprocket.....	80
10	601 0036	Flange - drive axle hub.....	4
11	601 0054	Sleeve.....	4
12	670 0106	Sprocket.....	4
13	601 0004	Hub - spline.....	2
14	309 8006	Bolt - drive sprocket.....	80
15	601 0003	Ass'y - hub & sleeve.....	2
16	601 0041	Axle - drive.....	2
17	601 0042	Rod - axle pull.....	2
18	601 0043	Support - axle pull rod.....	2
19	106 0004	Seal - pull rod support.....	2
20	380 6024	Nut - pull rod.....	2
21	601 0040	Lock - axle bearing.....	2
22	601 0039	Bracket - axle end.....	2
23	408 2001	Fitting grease.....	2
24	670 0110	Gasket - axle end bracket.....	2
25	601 0044	Cap - axle end bracket.....	2
26	380 6028	Nut.....	8
27	392 0028	Lockwasher.....	8
28	300 0153	Bolt.....	8
29	392 0019	Lockwasher.....	12
30	300 0000	Bolt - axle end bracket.....	12

WHEEL

MUSKEG "S" CARRIER

ROUE



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
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1st MODEL (ISSUE 1)

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	602 0031	Wheel.....	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 0192	Spacer - wheel.....	12
7	602 0007	Excluder - mud.....	12
8	670 0204	Seal - wheel.....	12
9	371 0062	Pin - cotter.....	12
10	681 0002	Cap - hub (with grease fitting)....	12
11	408 2001	Fitting - grease 1/4" N.F. straight	12
12	670 0203	Rubber - mud excluder.....	12
13	602 0025	Washer - spindle.....	12
14	389 8006	Nut - spindle.....	12
15	624 0140	Spring - seal.....	12
16	602 0016	Support - seal.....	12

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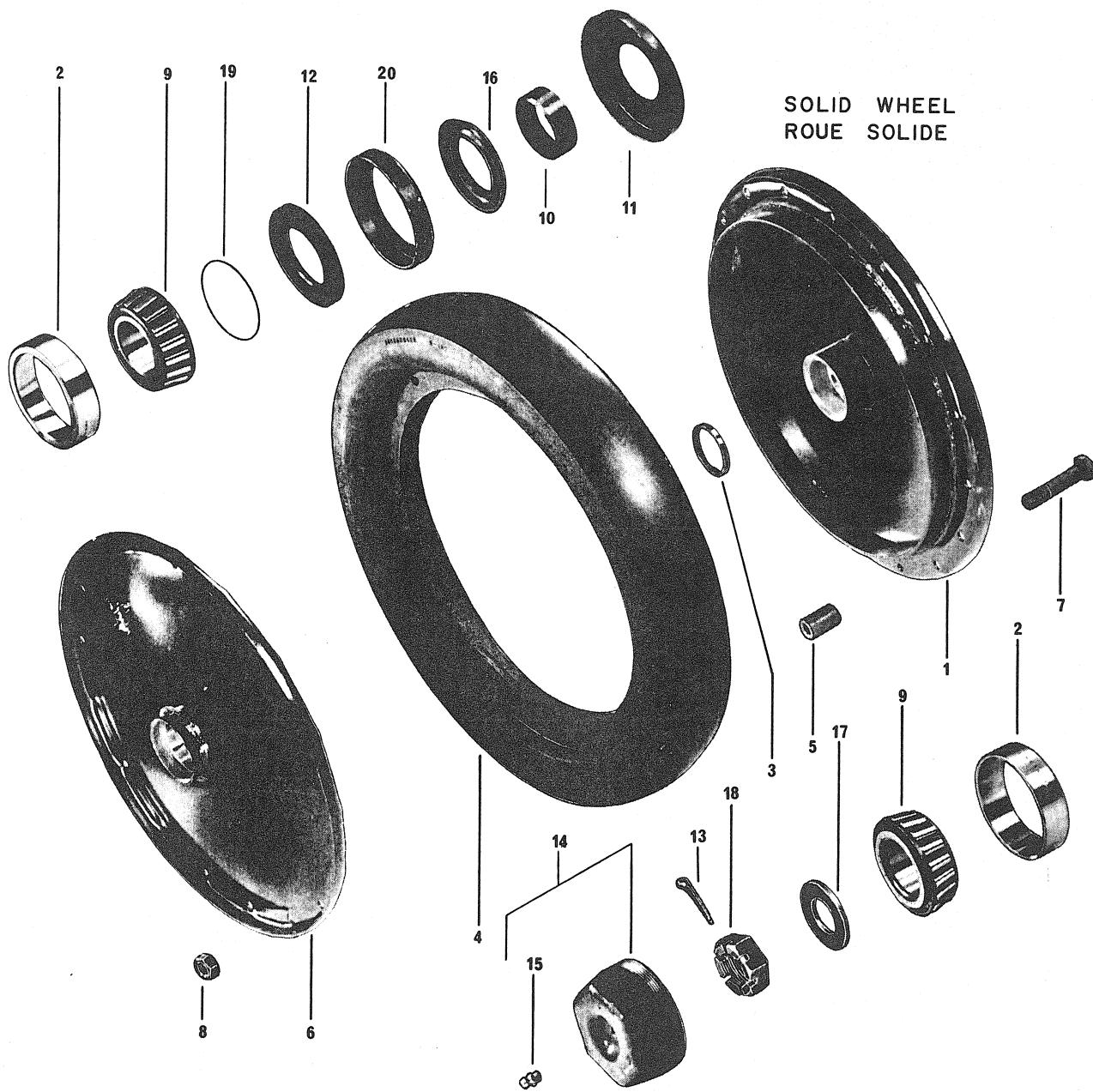
SECTION 02/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

WHEEL

MUSKEG "S" CARRIER

ROUE

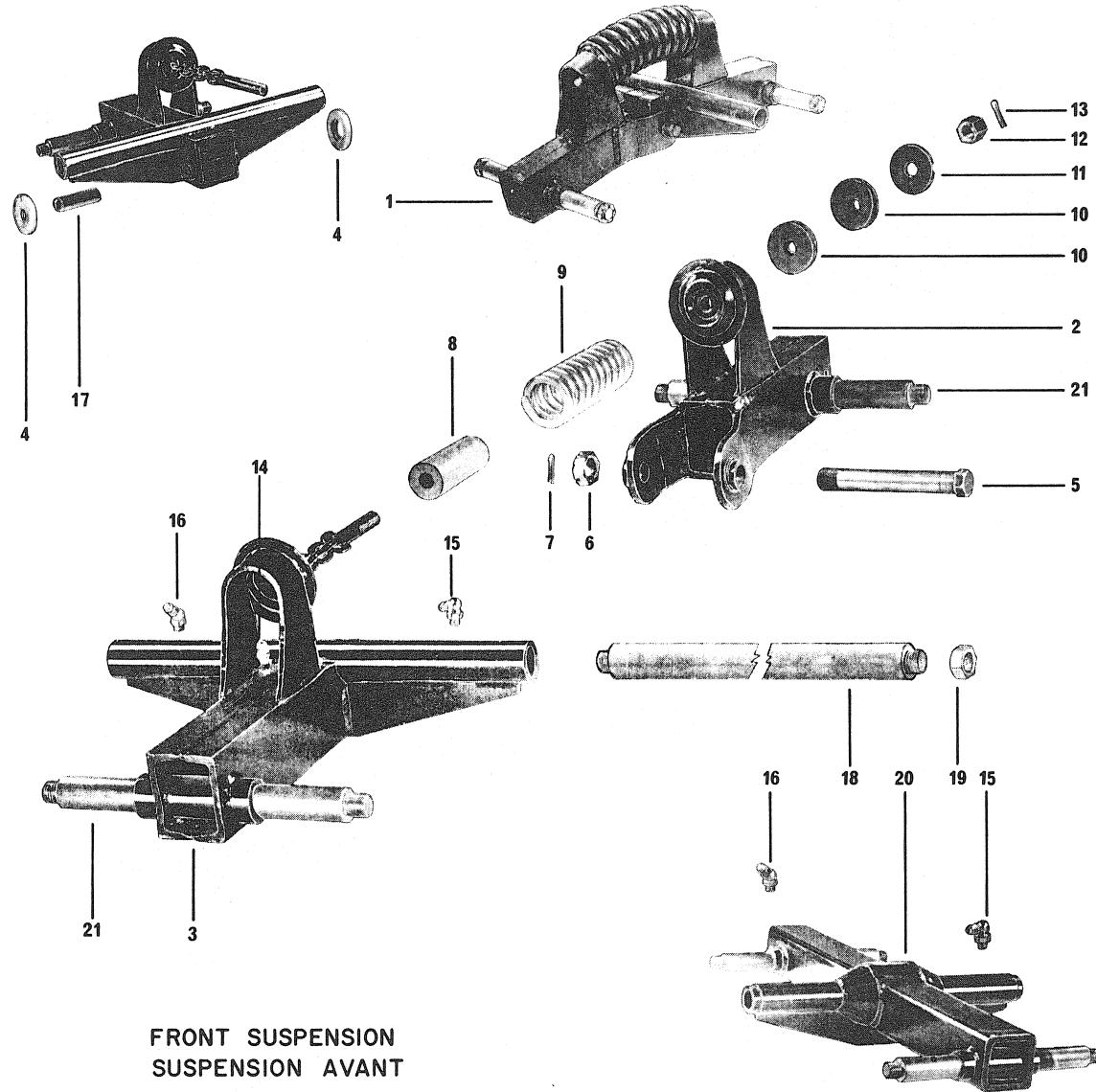


REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	602 0023	Flange - inner wheel.....	4
2	105 0010	Cup.....	8
3	602 0020	Ring - hub.....	4
4	670 0205	Tire - solid.....	4
5	602 0015	Insert - spacer.....	68
6	602 0024	Flange - outer wheel.....	4
7	309 8006	Bolt.....	68
8	387 2024	Nut.....	68
9	105 0012	Cone - bearing.....	8
10	603 0192	Spacer - wheel.....	4
11	602 0007	Excluder - wheel mud.....	4
12	670 0204	Seal - wheel.....	4
13	371 0062	Pin - cotter.....	4
14	681 0002	Ass'y - hub cap.....	4
15	408 2001	Fitting - grease 1/4" N.F. straight	4
16	670 0203	Rubber - mud excluder.....	4
17	602 0025	Washer - spindle.....	4
18	389 0006	Nut - spindle.....	4
19	624 0140	Spring - seal.....	4
20	602 0016	Support - seal.....	4

SUSPENSION

MUSKEG "S" CARRIER

SUSPENSION



FRONT SUSPENSION
SUSPENSION AVANT

SUSPENSION

MUSKEG "S" CARRIER

SUSPENSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
1	681 0017	Ass'y - flexible front suspension (regular).....	2
1	681 0018	Ass'y - flexible front suspension (heavy duty).....	2
2	603 0041	Spindle - center bogie.....	2
3	603 0061	Spindle - front bogie.....	2
4	603 0050	Ass'y - flexible joint seal.....	4
5	603 0136	Bolt - flexible joint.....	2
6	381 2039	Nut - flexible joint.....	2
7	371 0063	Pin - cotter.....	2
8	670 0303	Shock - front axle spring rubber...	2
9	114 0003	Spring - regular.....	2
9	114 0004	Spring - heavy duty.....	2
10	603 0064	Rubber - spring chain stopper.....	4
11	603 0063	Washer - spring chain stopper.....	2
12	389 9001	Nut - retainer chain.....	2
13	371 0032	Pin - cotter.....	2
14	108 2006	Fitting - grease 1/8" N.P.T. X 90°.	2
15	108 2003	Fitting - grease 1/4" N.F. X 90°.	2
16	108 2002	Fitting - grease 1/4" N.F. X 45°.	2
17	105 6006	Bushing - oilite.....	4
18	603 0002	Shaft - cross.....	2
19	380 6039	Nut.....	4
20	603 0062	Ass'y - rigid suspension.....	2
21	603 0072	Spindle.....	4

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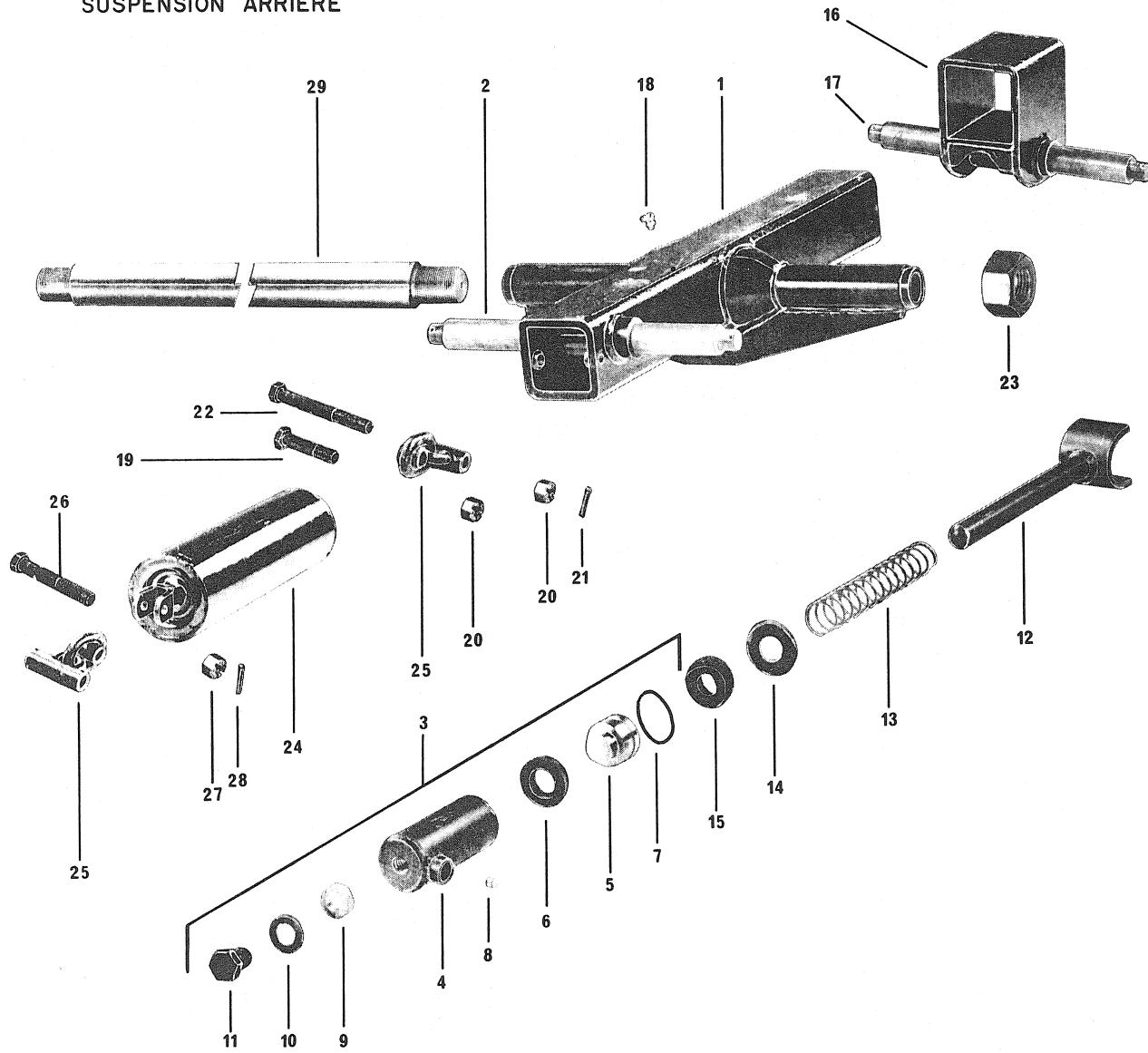
APRIL 1970.

SUSPENSION

MUSKEG "S" CARRIER

SUSPENSION

REAR SUSPENSION
SUSPENSION ARRIERE



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SECTION 03/3 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

SUSPENSION

MUSKEG "S" CARRIER

SUSPENSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
1	603 0015	Spindle - tandem.....	2
2	603 0072	Spindle.....	2
3	681 0015	Ass'y - hydraulic adjuster track...	2
4	603 0160	Housing - adjuster.....	2
5	603 0200	Cylinder - adjuster.....	2
6	670 0304	Cup - adjuster.....	2
7	106 0010	Ring - cylinder.....	2
8	108 2005	Fitting - grease 1/8" N.P.T. X 90°	
9	603 0184	Spacer - bolt.....	2
10	391 0036	Washer.....	2
11	300 0251	Bolt.....	2
12	603 0157	Yoke - adjuster.....	2
13	603 0199	Spring - packing.....	2
14	603 0198	Washer - packing.....	2
15	603 0197	Felt - apcking.....	2
16	603 0024	Spindle - rear.....	2
17	603 0107	Spindle.....	2
18	108 2002	Fitting - grease 1/4" N.F. X 45°	4
19	660 3002	Bolt - suspension chain (short)....	2
20	382 4028	Nut.....	4
21	371 0032	Pin - cotter.....	4
22	660 3005	Bolt - suspension chain (long)....	2
23	380 6039	Nut.....	4
24	603 0065	Spring - bogie.....	2
25	603 0108	Chain - spring.....	4
26	309 8009	Screw - link.....	4
27	382 4028	Nut - hexagon stotted.....	4
28	371 0032	Pin - cotter.....	4
29	603 0002	Shaft - cross.....	2
	603 0094	Beam - right hand side.....	1
	603 0098	Beam - left hand side.....	1
	300 0253	Bolt (side beam).....	4
	300 0252	Bolt (side beam).....	4
	380 6035	Nut (side beam).....	4
	300 0083	Bolt (side beam).....	16
	392 0024	Lockwasher (side beam).....	16
	380 6024	Nut (side beam).....	16

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SECTION Q3/4 - 1st PRINT
1st MODEL (ISSUE 1)

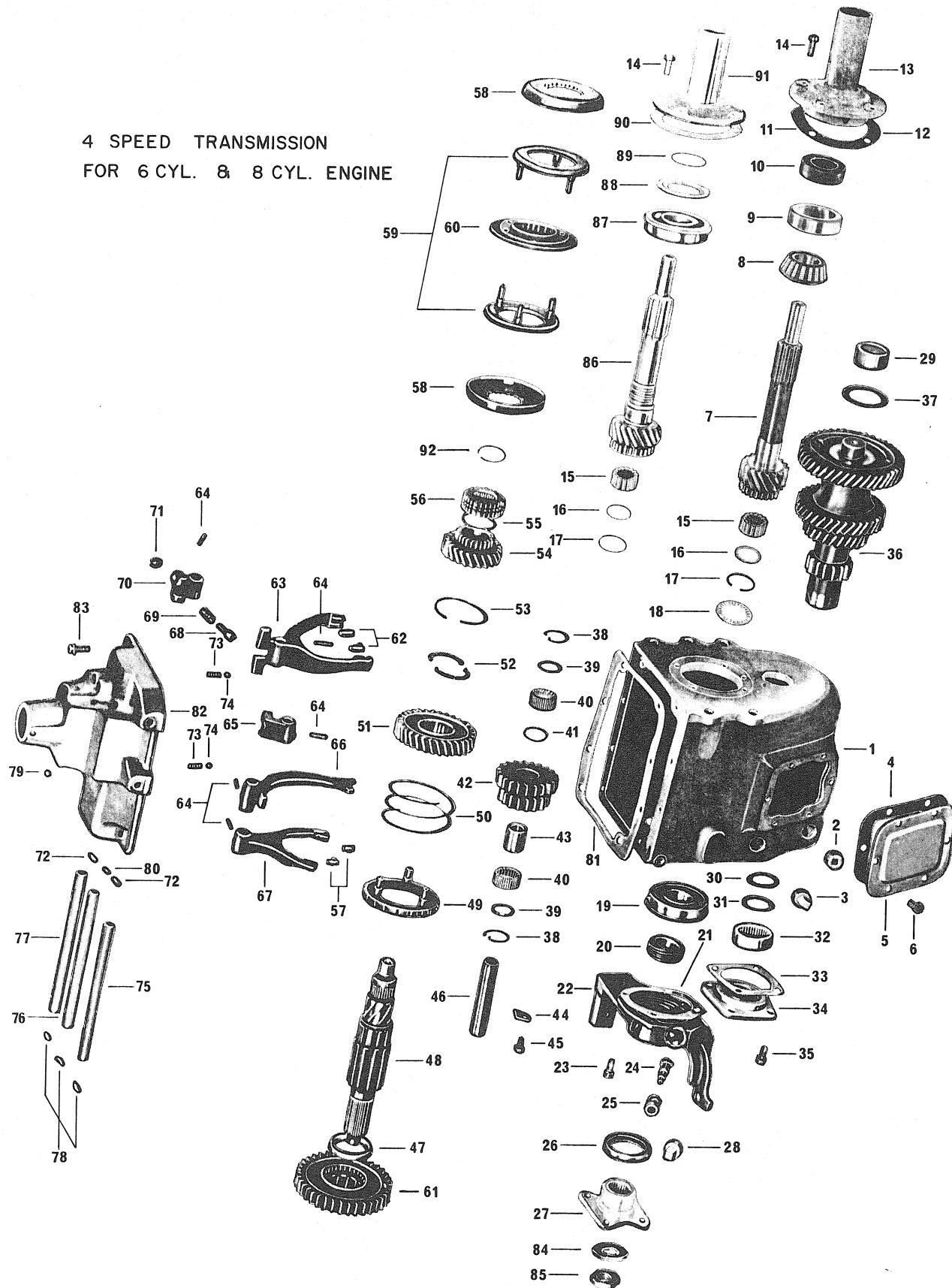
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TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

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



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LITHO'D IN CANADA

SECTION 04/1 - 1st PRINT
1st MODEL

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY	PER VEHICLE
			6 CYL.	8 CYL.
1	102 2276	Case with countershaft front bearing.....	1	-
1	102 2071	Case.....	-	1
2	102 9127	Plug (drain magnetic).....	1	1
3	108 7003	Plug (filler).....	1	1
4	102 2009	Gasket - power take-off.....	1	1
5	102 2013	Cover - power take-off.....	1	1
6	102 2128	Screw with washer.....	6	6
7 A	102 2391	Gear - main drive (long 8cyl.).....	-	1
8 A	105 0076	Cone - bearing.....	-	1
9 A	105 0077	Cup - bearing.....	-	1
10 A	102 2389	Seal - oil.....	-	1
11 A	102 2405	Shim - thin.....	-	As req'd
11 A	102 2406	Shim - thick.....	-	As req'd
12 A	102 2390	Gasket.....	-	2
13 A	102 2388	Retainer - main drive gear.....	-	1
14	102 2129	Screw.....	4	4
15	102 2319	Bearing - roller.....	14	14
16	102 2354	Washer.....	1	1
17	102 2284	Ring - snap.....	1	1
18 A	102 2392	Bearing - thrust.....	-	1
19	105 4019	Bearing - rear (main shaft).....	1	1
20	102 2022	Gear - speedo.....	1	1
21	102 2021	Gasket (rear bearing retainer).....	1	1
21	102 2377	Gasket (thin).....	As req'd	As req'd
21	102 2379	Gasket (medium).....	"	"
21	102 2384	Gasket (thick).....	"	"
21	102 2385	Gasket (extra thick).....	"	"
22	101 2029	Retainer - rear (with hand brake).....	1	1
22	101 2011	Retainer - rear (without hand brake).....	1	1
23	102 2340	Screw with lockwasher (long).....	1	1
23	102 2128	Screw with lockwasher (short).....	4	4
24	102 2025	Pinion - speedo.....	1	1
25	102 2307	Sleeve - speedo.....	1	1
26	101 2012	Seal - rear bearing oil.....	1	1
27	102 2273	Yoke.....	1	1
28	119 1072	Plug (without speedometer).....	1	1
29	102 2125	Bearing - countershaft (front).....	-	1
29	102 2126	Bearing - countershaft (front).....	1	-
30	102 2321	Bearing - thrust.....	1	1
31	102 2292	Bearing - race.....	1	1
32	102 2125	Bearing - countershaft (rear).....	1	1
33	102 2294	Gasket.....	1	1
34	102 2293	Retainer - countershaft rear bearing.....	1	1
35	102 2128	Screw with washer.....	4	4
36	102 2275	Countershaft with integral gear....	1	1
37	102 2355	Washer - thrust.....	1	1
38	102 2298	Ring - snap.....	2	2
39	102 2380	Washer.....	2	2

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1st MODEL (ISSUE 1)

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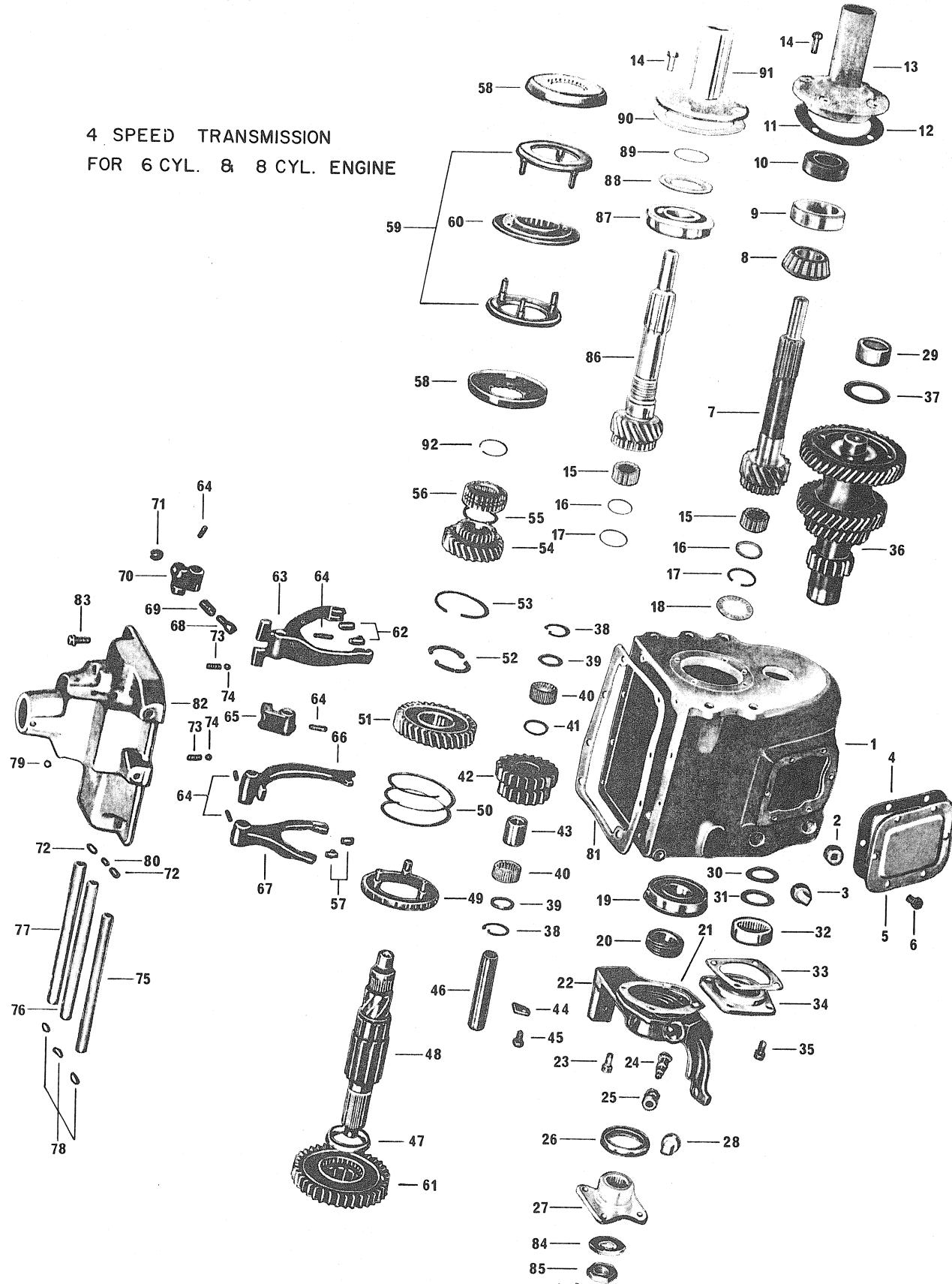
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TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

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



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 04/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			6 CYL.	8 CYL.
40	102 2322	Bearing - roller.....	68	68
41	102 2297	Spacer.....	1	1
42	102 2295	Gear - reverse idler.....	1	1
43	102 2296	Race.....	1	1
44	102 2166	Plate - lock.....	1	1
45	102 2135	Screw with washer.....	1	1
46	102 2165	Shaft - reverse idler gear.....	1	1
47	102 2291	Spacer.....	1	1
48	102 2396	Mainshaft.....	-	1
48	102 2283	Mainshaft.....	1	-
49	102 2399	Synchronizer - ring with pin.....	-	1
49	102 2219	Synchronizer - ring with pin.....	1	-
50	102 2289	Spring - synchronizer.....	1	1
51	102 2287	Gear (second speed).....	1	1
52	102 2213	Ring - snap (second speed).....	1	1
53	102 2290	Ring - snap.....	1	1
54	102 2286	Gear (third speed).....	1	1
55	102 2214	Shim (third speed gear - thin).....	As req'd	As req'd
55	102 2215	Shim (third speed gear - thick)....	"	"
56	102 2395	Gear - third & fourth speed clutch.	-	1
56	102 2285	Gear - third & fourth speed clutch.	1	-
57	102 2402	Insert - 1st & 2nd.....	2	2
58	102 2146	Ring - third & fourth speed outer..	2	2
59	102 2219	Ring - third & fourth speed inner..	2	2
60	102 2216	Clutch - third & fourth speed.....	1	1
61	102 2288	Gear - low & reverse sliding.....	1	1
62	102 2224	Insert - first & second speed.....	2	2
63	102 2304	Fork - third & fourth.....	1	1
64	102 2217	Pin.....	5	5
65	102 2306	Lug.....	1	1
66	102 2305	Fork - reverse.....	1	1
67	102 2401	Fork - low & second.....	-	1
67	102 2310	Fork - low & second.....	1	-
68	102 2346	Plunger.....	1	1
69	102 2020	Spring.....	1	1
70	102 2225	Lug - reverse.....	1	1
71	102 2344	Ring - snap.....	1	1
72	102 2015	Plunger.....	2	2
73	102 2198	Spring.....	3	3
74	102 2004	Ball -spring.....	3	3
75	102 2303	Rail - first & second.....	1	1
76	102 2301	Rail - third & fourth.....	1	1
77	102 2403	Rail - reverse.....	1	1
78	102 2407	Plug.....	3	3
79	102 2360	Plug - interlock.....	1	1
80	102 2017	Pin - interlock.....	1	1
81	102 2300	Gasket.....	1	1
82	102 2408	Cover - transmission.....	-	1
82	101 2018	Cover - transmission.....	1	-
83	102 2128	Screw with lockwasher.....	6	6
83	102 2142	Screw with lockwasher.....	2	2

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1st MODEL (ISSUE 1)

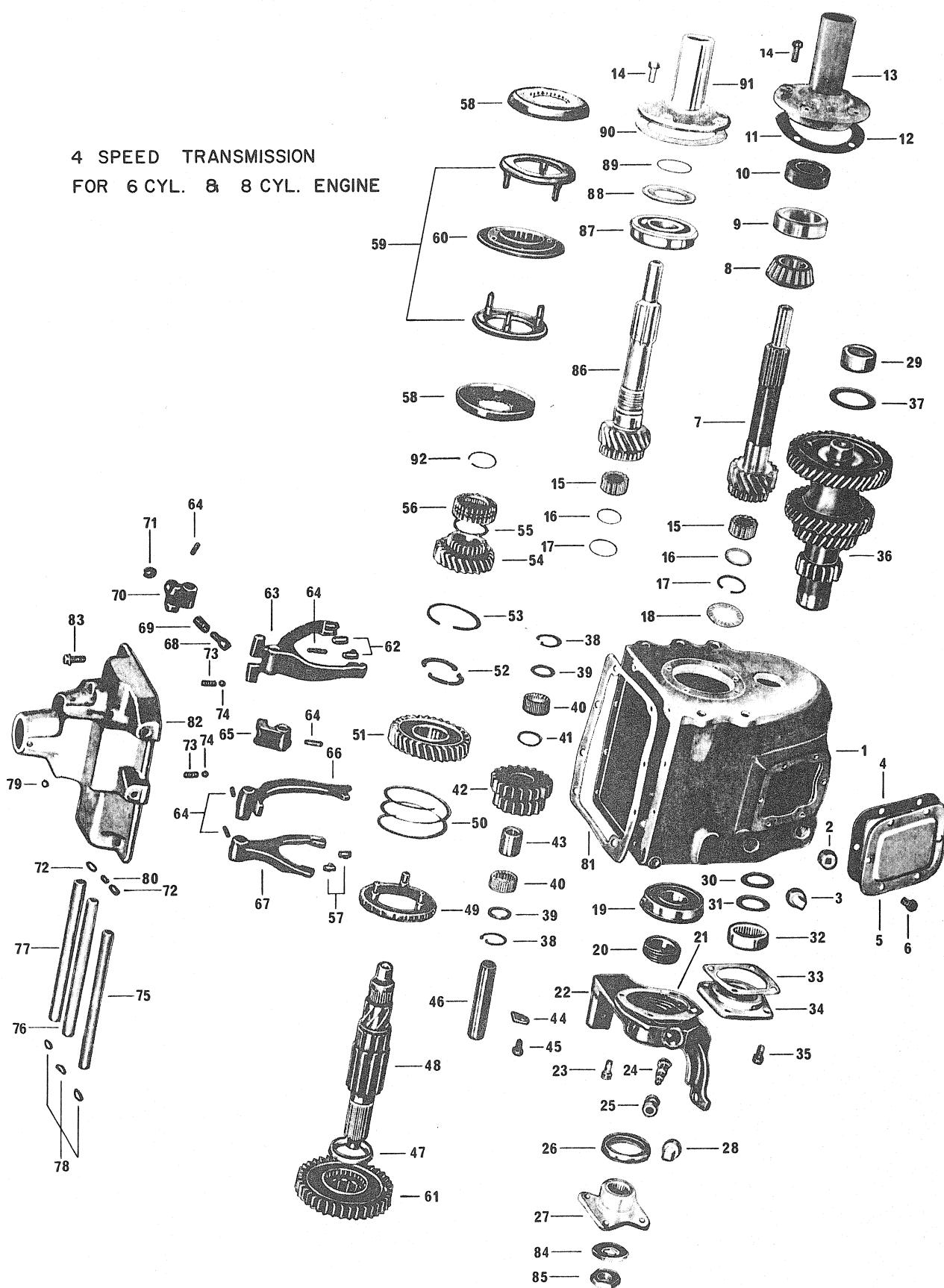
LITHO'D IN CANADA

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION



TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.	QTY PER VEHICLE 8 CYL.
84	102 2357	Flatwasher.....	1	1
85	102 2356	Nut.....	1	1
86 B	102 2272	Gear - main drive (short) 6 cyl....	1	-
86 B	101 2016	Gear - main drive (long) 8 cyl....	-	1
87 B	105 4019	Bearing - main drive gear.....	1	1
88 B	102 2282	Slinger - main drive gear.....	1	1
89 B	102 2278	Ring - snap (thin).....	As req'd	As req'd
89 B	102 2279	Ring - snap (medium).....	"	"
89 B	102 2280	Ring - snap (thick).....	"	"
89 B	102 2281	Ring - snap (extra thick).....	"	"
90 B	102 2277	Gasket.....	1	1
91 B	102 2271	Retainer - main drive gear.....	1	1
92	102 2060	Ring - snap 3rd & 4 th (thin).....	1	1
92	102 2061	Ring - snap 3rd & 4th (medium).....	1	1
92	102 2062	Ring - snap 3rd & 4th (thick).....	1	1
92	102 2066	Ring - snap 3rd & 4th (extra thick)	1	1
	119 1073	Gasket (back-up lightswitch hole)..	1	1
	119 1145	Plug (back-up lightswitch hole)....	1	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/6 - 1st PRINT
1st MODEL (ISSUE 1)

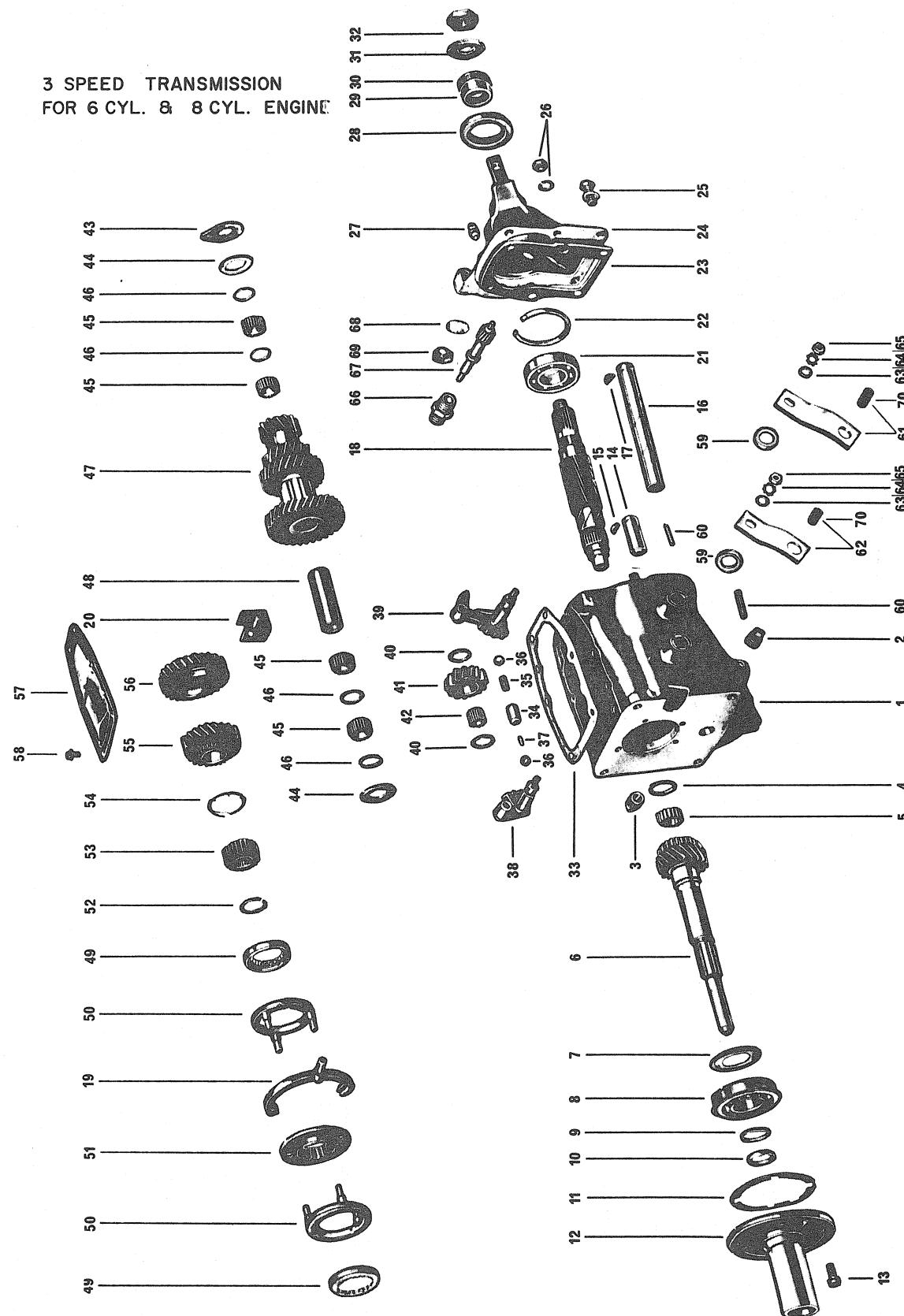
APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

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



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 04/7 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL. 8 CYL.
1	102 2312	Case.....	1 1
2	102 2364	Plug (drain).....	1 1
3	108 7004	Plug (filler).....	1 1
4	102 2104	Ring - snap.....	1 1
5	102 2108	Bearing - roller.....	15 15
6	102 2308	Gear.....	1 -
6	102 2233	Gear.....	- 1
7	102 2318	Oil slinger - bearing.....	1 1
8	105 4020	Bearing.....	1 1
9	102 2314	Ring - snap (thin).....	As req'd As req'd
9	102 2315	Ring - snap (medium).....	" "
9	102 2316	Ring - snap (thick).....	" "
9	102 2317	Ring - snap (extra thick).....	" "
10	102 2232	Seal - oil.....	- 1
11	102 2247	Gasket.....	As req'd As req'd
12	102 2309	Retainer - bearing.....	1 -
12	102 2257	Retainer - bearing.....	- 1
13	102 2129	Screw with washer.....	4 4
14	102 2210	Shaft - reverse idler.....	1 1
15	102 2211	Key.....	1 1
16	102 2236	Shaft - counter.....	1 1
17	102 2211	Key.....	1 1
18	102 2267	Main shaft - main.....	1 1
19	102 2237	Fork - 2nd. & direct.....	1 1
20	102 2238	Fork - low & reverse.....	1 1
21	105 4009	Bearing.....	1 1
22	102 2248	Ring - snap (thin).....	As req'd As req'd
22	102 2250	Ring - snap (medium).....	" "
22	102 2251	Ring - snap (thick).....	" "
22	102 2252	Ring - snap (extra thick).....	" "
23	102 2254	Gasket.....	1 1
24	102 2261	Retainer - rear bearing.....	1 1
25	102 2410	Screw with washer.....	6 6
26	380 9024	Nut.....	2 2
26	392 0024	Washer.....	2 2
27	102 2136	Breather.....	1 1
28	102 2039	Seal - oil.....	1 1
29	102 2268	Spacer.....	1 1
30	102 2265	Speedo gear - speedo.....	1 1
31	102 2352	Washer.....	1 1
32	102 2181	Nut.....	1 1
33	102 2240	Gasket.....	1 1
34	102 2230	Sleeve (interlock).....	1 1
35	102 2263	Spring.....	1 1
36	102 2003	Ball.....	2 2
37	102 2231	Pin.....	1 1
38	102 2245	Lever - second & high (inner).....	1 1
39	102 2255	Lever - low & reverse (inner).....	1 1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/8 - 1st PRINT
1st MODEL (ISSUE 1)

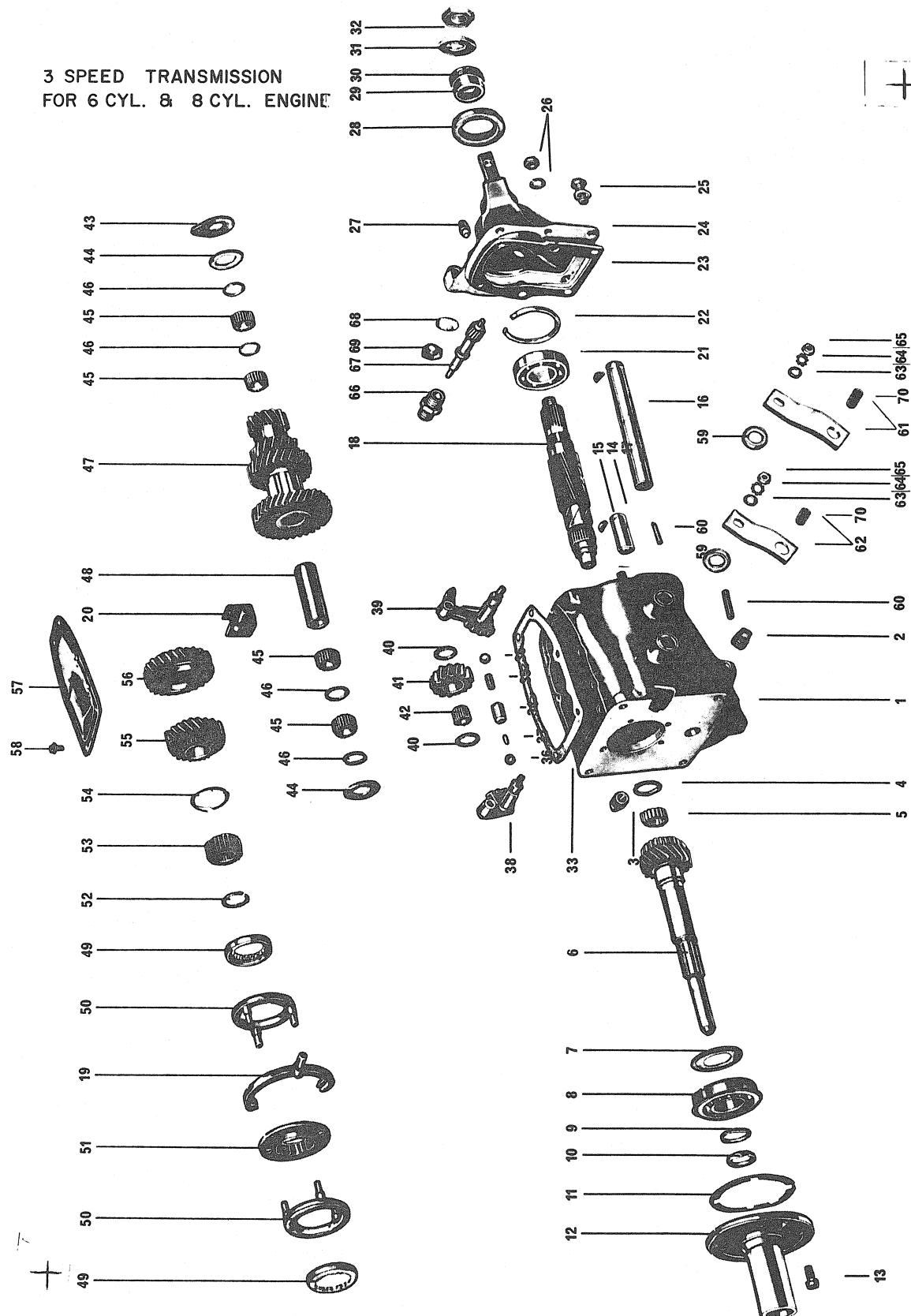
APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

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



BOMBARDIER LTD/LTEE

SECTION 04/9 - 1st PRINT
1st MODEL (ISSUE 1)

LITHO'D IN CANADA

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.	QTY PER VEHICLE 8 CYL.
40	102 2353	Washer.....	2	2
41	102 2260	Gear with bushing.....	1	1
42	102 2152	Bearing - roller.....	22	22
43	102 2244	Plate - thrust.....	1	1
44	102 2153	Washer - thrust thin .057 - .059...	4	4
44	102 2397	Washer - thrust thick .062 - .064..	4	4
45	102 2320	Bearing - roller.....	88	88
46	102 2188	Washer.....	2	2
47	102 2234	Gear - countershaft.....	1	1
48	102 2243	Spacer.....	1	1
49	102 2242	Ring - stop inner.....	2	2
50	102 2241	Ring -stop outer.....	2	2
51	102 2235	Sleeve.....	1	1
52	102 2264	Ring - snap.....	1	1
52	102 2060	Ring - snap (thin).....	1	1
52	102 2061	Ring - snap (medium).....	1	1
52	102 2062	Ring - snap (thick).....	1	1
52	102 2066	Ring - snap (extra thick).....	1	1
53	102 2090	Gear - clutch.....	1	1
54	102 2387	Spring.....	3	3
55	102 2258	Gear - 2nd. speed.....	1	1
56	102 2259	Gear - low & reverse sliding.....	1	1
57	102 2239	Cover.....	1	1
58	102 2351	Screw with washer.....	6	6
59	102 2229	Seal.....	2	2
60	102 2313	Pin.....	2	2
61	680 0119	Lever - low & reverse (outer) (W/bushing).....	1	1
62	680 0120	Lever - 2nd. & high (outer) W/bushing).....	1	1
63	391 0024	Washer.....	2	2
64	399 8001	Lockwasher.....	2	2
65	380 7022	Nut.....	2	2
66	101 2019	Sleeve - speedometer drive.....	1	1
67	101 2020	Pinion - speedometer drive.....	1	1
68	119 1073	Gasket - without speedometer.....	1	1
69	102 2409	Plug - without speedometer.....	1	1
70	604 0121	Bushing - lever (for 680 0119 & 680 0120).....	2	2
	102 0032	Gasket pkge. consist of: ref. no. part no. quantity		
		10 102 2232 1		
		28 102 2039 1		
		33 102 2240 1		
		11 102 2247 1		
		23 102 2254 1		

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

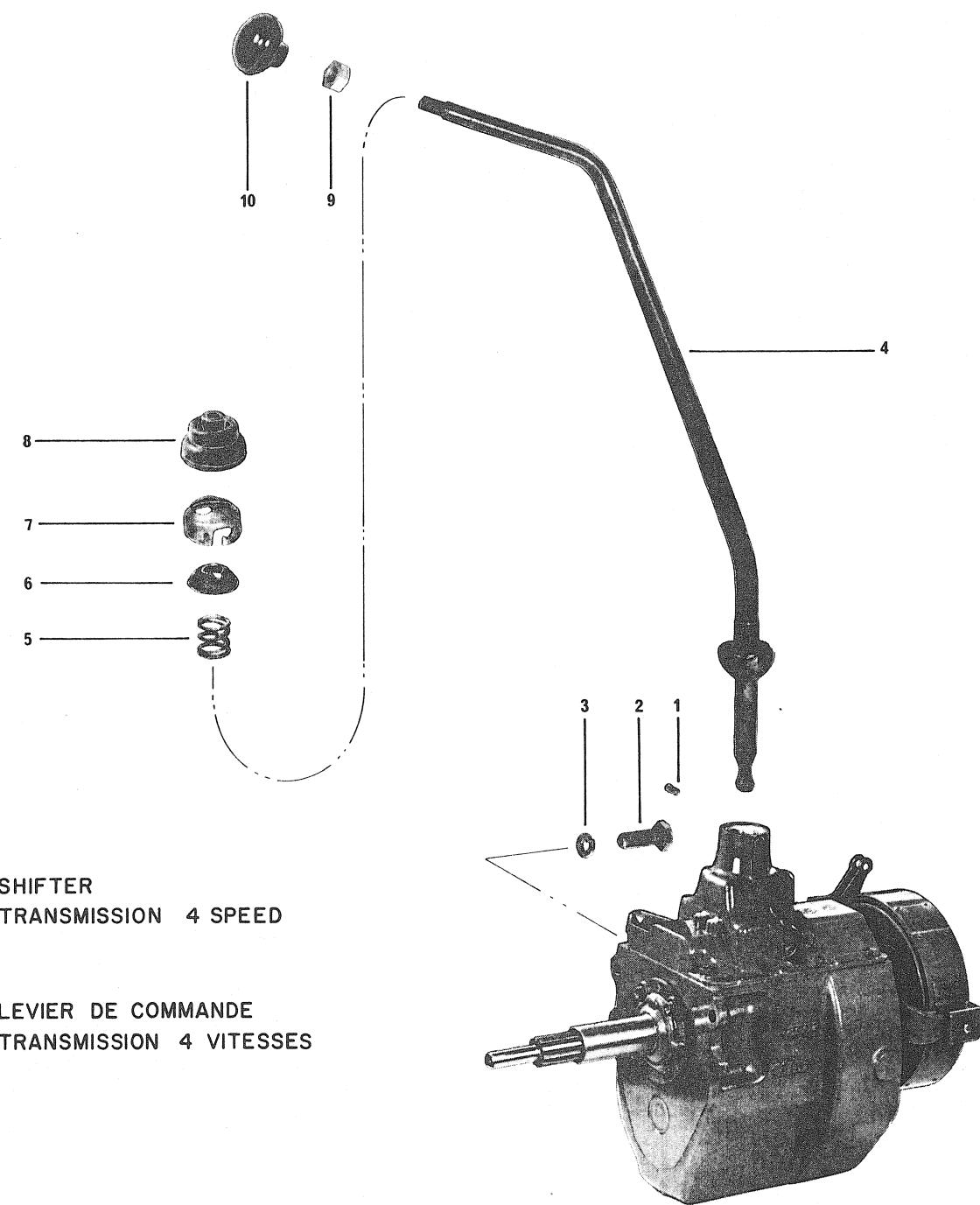
SECTION 04/10 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION



TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	102 2218	Pin.....	2
2	300 4194	Bolt.....	4
3	392 0030	Lockwasher.....	4
4	660 4018	Lever - gearshift.....	1
5	101 2013	Spring - gearshift.....	1
6	101 9003	Shield - dust.....	1
7	101 9004	Retainer - gearshift.....	1
8	101 2014	Grommet - gearshift.....	1
9	389 8015	Nut - gearshift.....	1
10	102 2001	Knob.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

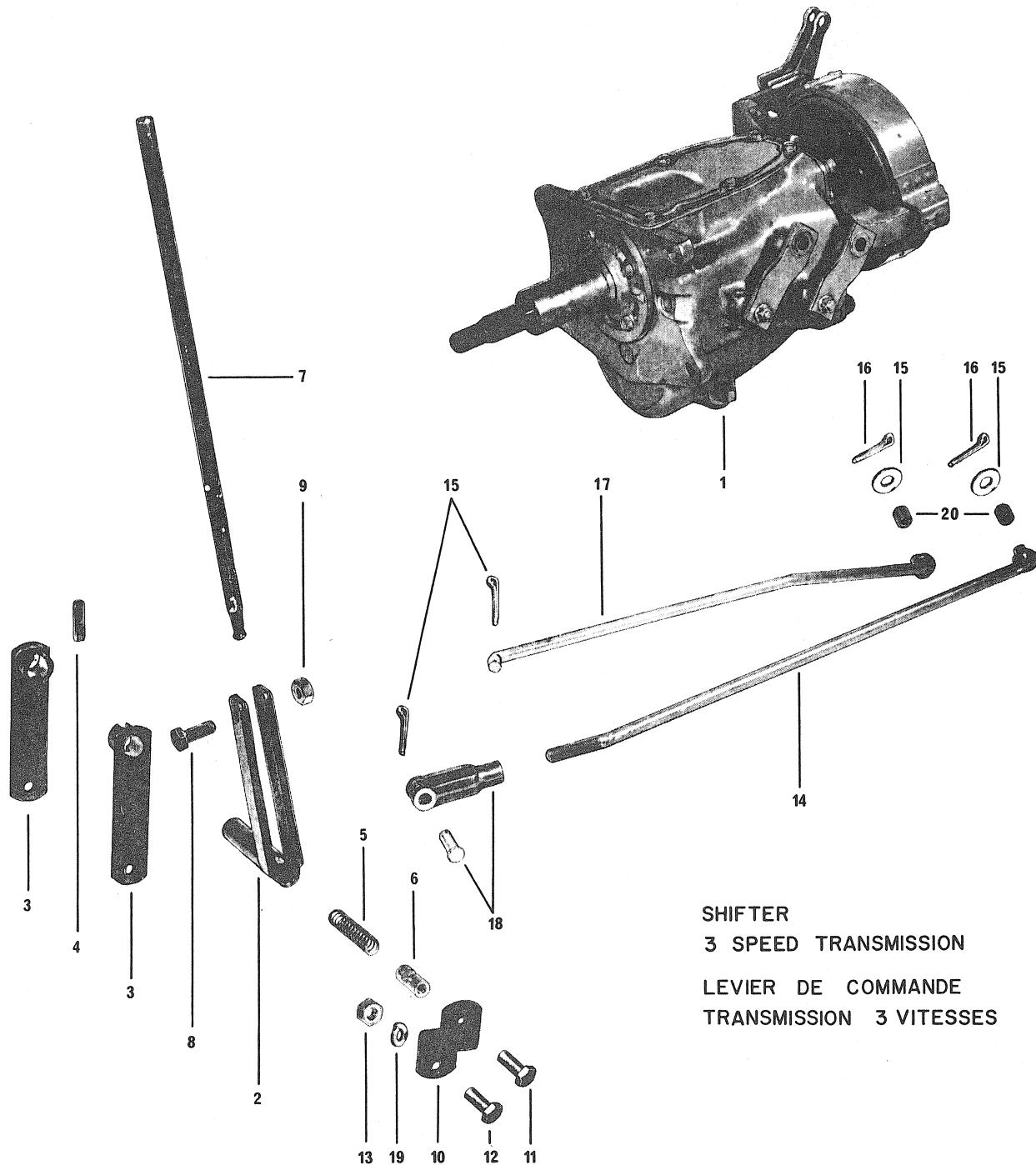
SECTION 04/12 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION



SHIFTER
3 SPEED TRANSMISSION
LEVIER DE COMMANDE
TRANSMISSION 3 VITESSES

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			6 CYL.	8 CYL.
1	101 2021	Ass'y - transmission 3 speed without brake drum.....	1	-
1	101 2007	Ass'y - transmission 3 speed with brake drum.....	1	-
1	101 2022	Ass'y - transmission 3 speed without brake drum.....	-	1
1	101 2009	Ass'y - transmission 3 speed with brake drum.....	-	1
2	604 0092	Selector - shaft & plate.....	1	-
2	604 0093	Selector - shaft & plate.....	-	1
3	604 0033	Lever - shifter.....	2	2
4	372 0151	Pin - spiroll.....	1	1
5	604 0096	Spring.....	1	1
6	604 0097	Guide - shifter arm.....	1	-
6	604 0098	Guide - shifter arm.....	-	1
7	604 0099	Arm - shifter.....	1	1
8	300 0045	Bolt.....	1	1
9	387 2022	Nut.....	1	1
10	604 0094	Bracket - guide.....	1	-
10	604 0095	Bracket - guide.....	-	1
11	660 4033	Bolt - speed selector.....	1	1
12	300 0081	Bolt.....	2	2
13	387 2024	Nut.....	2	2
14	604 0029	Rod - shifter (first & reverse)...	1	-
14	604 0036	Rod - shifter (first & reverse)...	-	1
15	391 0025	Flat washer.....	2	2
16	371 0011	Pin - cotter.....	4	4
17	604 0028	Rod - shifter (second & third)....	1	-
17	604 0035	Rod - shifter (second & third)....	-	1
18	114 0040	Lever - control clevis with pin...	1	1
19	392 0026	Lockwasher.....	2	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/14 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

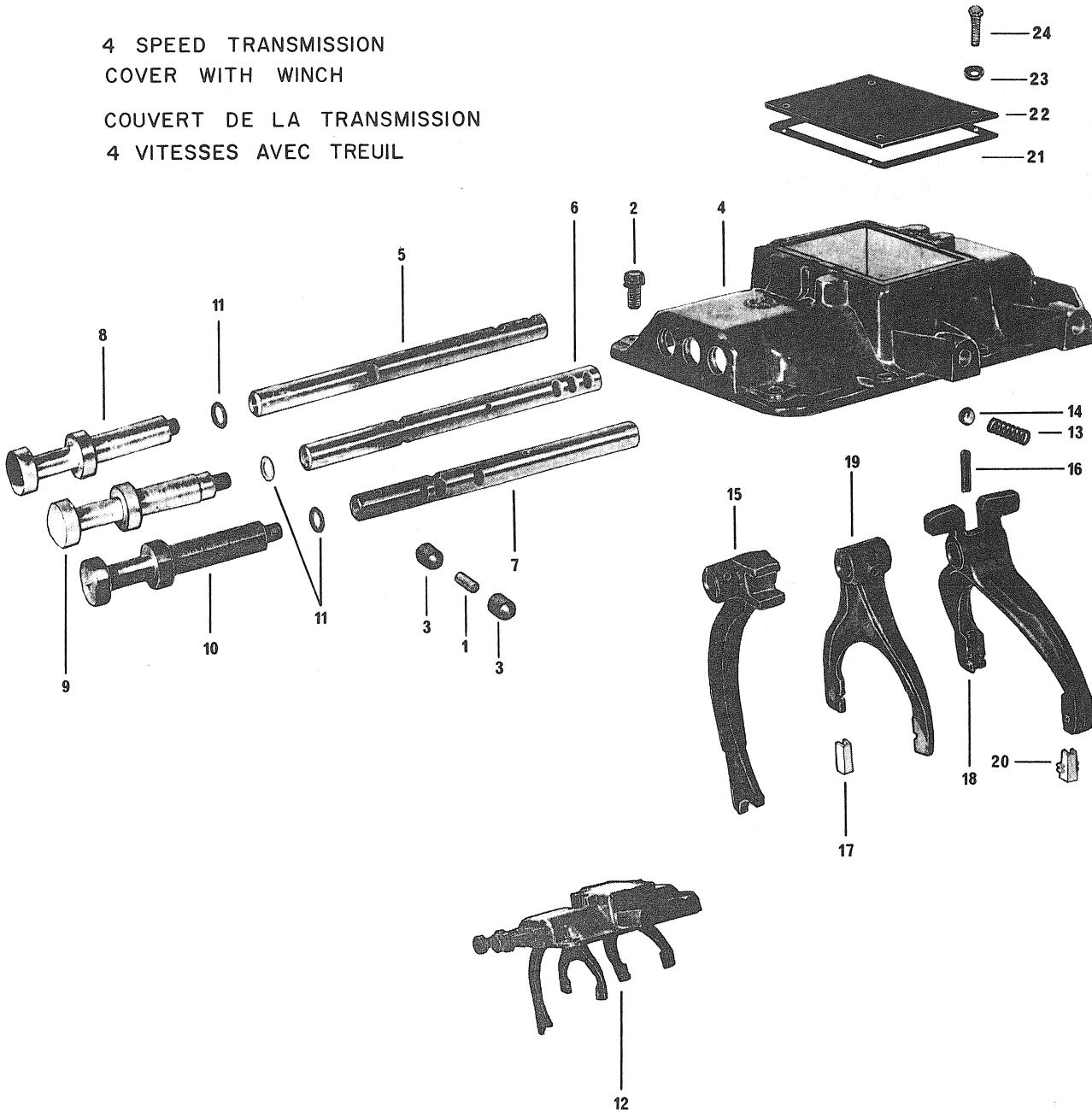
TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

4 SPEED TRANSMISSION
COVER WITH WINCH

COUVERT DE LA TRANSMISSION
4 VITESSES AVEC TREUIL



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 04/15 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
	101 2025	Ass'y - 4 speed transmission (6 cyl. - less cover & brake).....	1
	119 0005	Ass'y - transmission 4 speed 8 cyl. (less cover & brake).....	1
1	102 2017	Pin - interlock.....	1
2	102 2128	Screw with washer.....	6
2	102 2142	Screw with washer.....	2
3	102 2015	Plunger interlock.....	2
4	119 1211	Cover.....	1
5	660 4002	Rail - reverse.....	1
6	660 4025	Rail - low & second.....	1
7	660 4003	Rail - third & high.....	1
8	604 0011	Extension - selector (reverse).....	1
9	604 0082	Extension - selector (first & second).....	1
10	604 0081	Extension - selector (third & fourth).....	1
11	604 0134	Shim .010".....	As req'd
11	604 0135	Shim .020".....	As req'd
11	604 0136	Shim .035".....	As req'd
12	681 0043	Ass'y - cover transmission..... consist of: 1-682 0017, 3-102 2198, 3-102 2004 1-660 4031, 1-102 2224, 1-102 2310 3-102 2217, 2-102 2311, 1-102 2304	1
13	102 2198	Spring - poppet.....	3
14	102 2004	Ball.....	3
15	660 4031	Fork - reverse shift.....	1
16	102 2217	Pin.....	3
17	102 2311	Insert - fork first & second.....	2
18	102 2304	Fork - third & fourth.....	1
19	102 2310	Fork - first & second.....	1
20	102 2224	Insert - fork third & fourth.....	2
21	102 2411	Gasket - cover plate.....	1
22	604 0056	Cover.....	1
23	392 0026	Lockwasher.....	4
24	300 4121	Bolt (cover plate).....	4

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

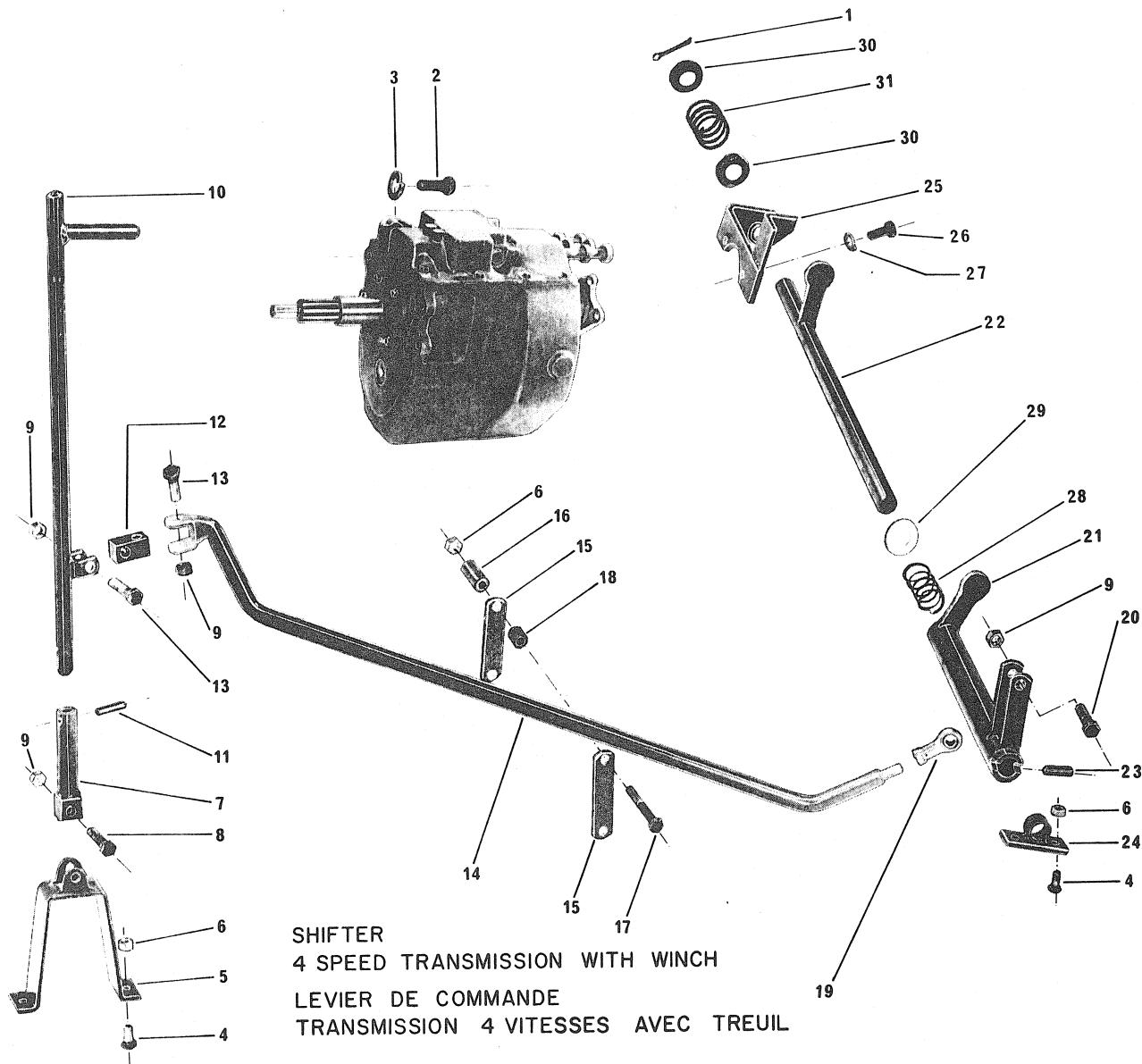
SECTION 04/16 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

SECTION 04/17 - 1st PRINT
1st MODEL

APRIL 1970.

TRANSMISSION

MUSKEG "S" CARRIER

TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	371 0032	Pin - cotter.....	1
2	300 4194	Bolt.....	4
3	392 0030	Lockwasher.....	4
4	300 0041	Bolt.....	4
5	604 0122	Support - gearshift.....	1
6	387 2022	Nut.....	6
7	604 0133	Housing - gearshift.....	1
8	300 0087	Bolt.....	1
9	387 2024	Nut.....	4
10	604 0132	Lever - gearshift.....	1
11	372 1061	Pin - roll.....	1
12	604 0127	Block - joint.....	1
13	300 0085	Bolt.....	2
14	604 0131	Gearshift lever rod.....	1
15	604 0126	Rod - lever guide.....	2
16	604 0129	Bushing - guide.....	2
17	300 8051	Bolt.....	2
18	604 0130	Spacer - bushing.....	2
19	114 0082	End - rod.....	1
20	300 0086	Bolt.....	1
21	604 0125	Selector - shifter.....	1
22	604 0123	Shifter - lever & shaft.....	1
23	372 0151	Pin - spiral.....	1
24	604 0128	Bracket - shifter.....	1
25	604 0118	Bracket - shifter.....	1
26	300 4083	Bolt.....	2
27	392 0024	Lockwasher.....	2
28	604 0120	Spring.....	1
29	504 1010	Shim - spring.....	1
30	504 1022	Seat - spring.....	2
31	604 0119	Spring - shifter.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

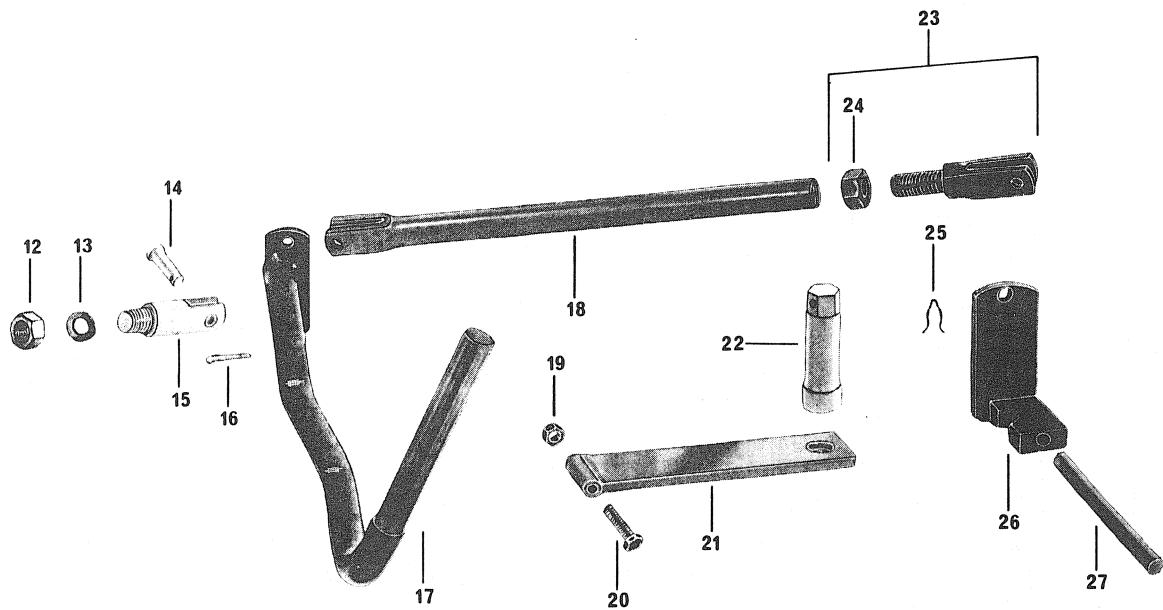
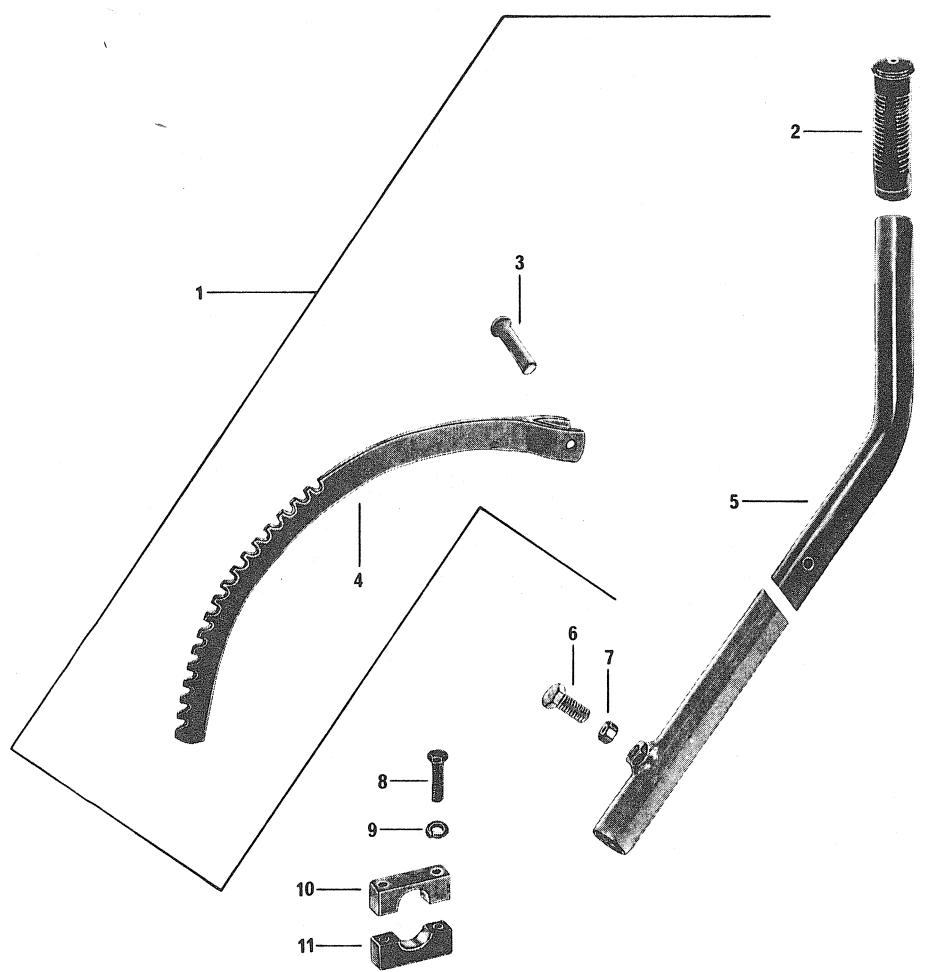
SECTION 04/18 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

STEERING

MUSKEG "S" CARRIER

CONDUITE



LITHO'D IN CANADA

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

APRIL 1970.

STEERING

MUSKEG "S" CARRIER

CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
1	680 0221	Ass'y - steering brake lever.....	2
2	414 0002	Handle - grip.....	1
3	390 0107	Rivet.....	2
4	607 0017	Sector - brake lever.....	2
5	606 0023	Lever - steering.....	2
6	300 0083	Bolt.....	2
7	380 6024	Nut.....	2
8	300 0040	Bolt.....	4
9	392 0019	Lockwasher.....	4
10	606 0026	Cap - pillow block.....	2
11	618 0286	Base - pillow block.....	2
12	380 6028	Nut.....	2
13	392 0028	Lockwasher.....	2
14	114 0061	Pin - clevis.....	6
15	606 0028	Anchor - right hand cross shaft....	1
15	606 0027	Anchor - left hand cross shaft....	1
16	371 0011	Pin - cotter.....	6
17	606 0024	Shaft - left hand steering cross...	1
17	606 0025	Shaft - right hand steering cross..	1
18	606 0029	Rod - left hand steering rod.....	1
18	606 0030	Rod - right hand steering rod.....	1
19	380 6019	Nut.....	2
20	300 0009	Bolt.....	2
21	606 0037	Plate - steering lever.....	2
22	606 0035	Nut - adjuster.....	2
23	606 0038	Ass'y - adjusting clevis.....	2
24	380 6030	Nut.....	2
25	114 0033	Clip - steering lever pin.....	2
26	606 0033	Lever - right hand steering rod....	1
26	606 0032	Lever - left hand steering rod....	1
27	606 0010	Pin - steering lever.....	2

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

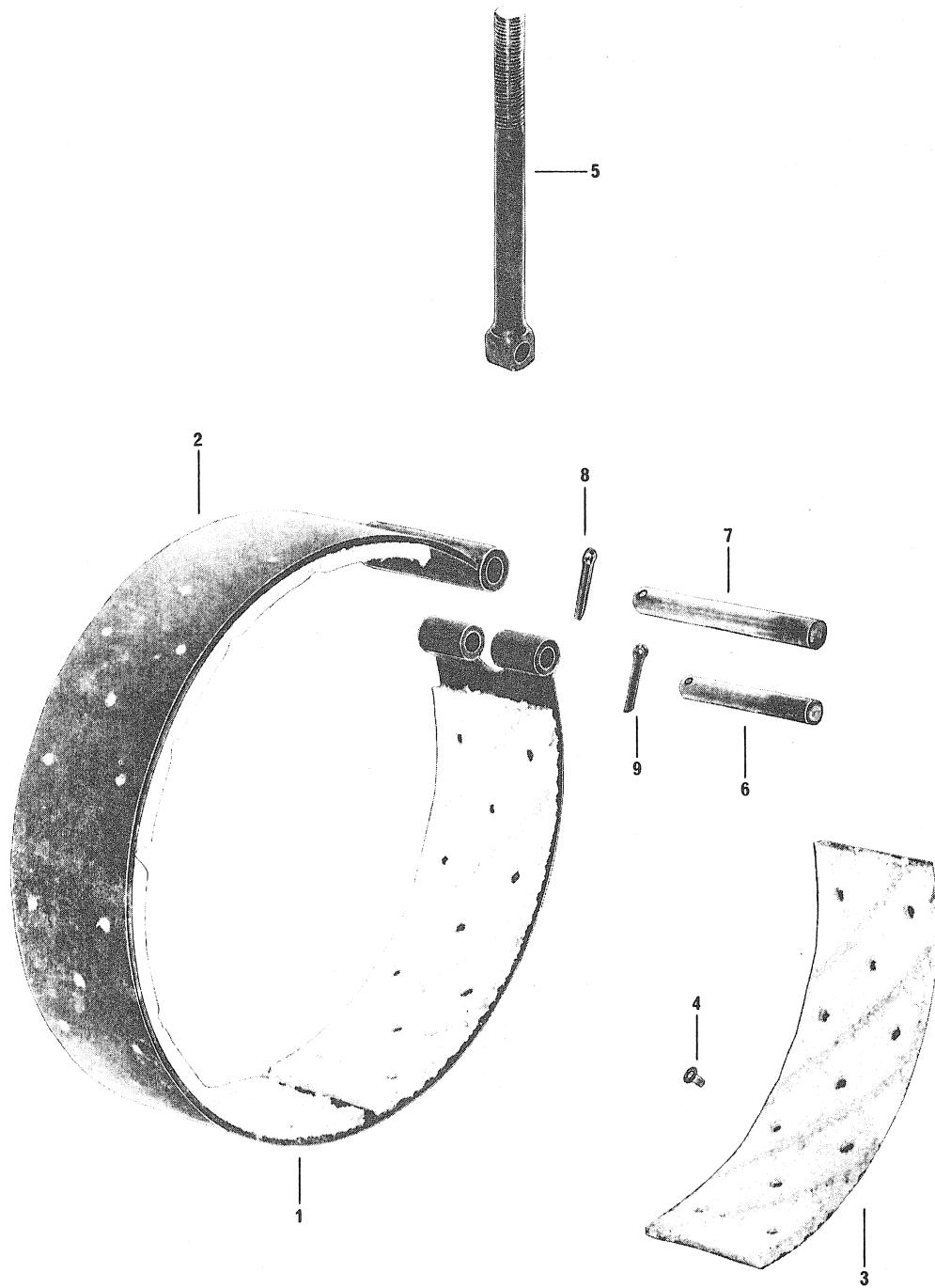
SECTION 06/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

STEERING

MUSKEG "S" CARRIER

CONDUITE



LITHO'D IN CANADA

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

APRIL 1970.

STEERING

MUSKEG "S" CARRIER

CONDUITE

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
1	681 0006	Ass'y - brake band.....	2
2	607 0028	Band - brake.....	2
3	606 0006	Lining - brake.....	6
4	390 5001	Rivet.....	66
5	606 0013	Yoke.....	2
6	606 0019	Pin - short band.....	2
7	606 0022	Pin - long band.....	2
8	371 0032	Pin - cotter.....	2
9	371 0011	Pin - cotter.....	2

LITHO'D IN CANADA

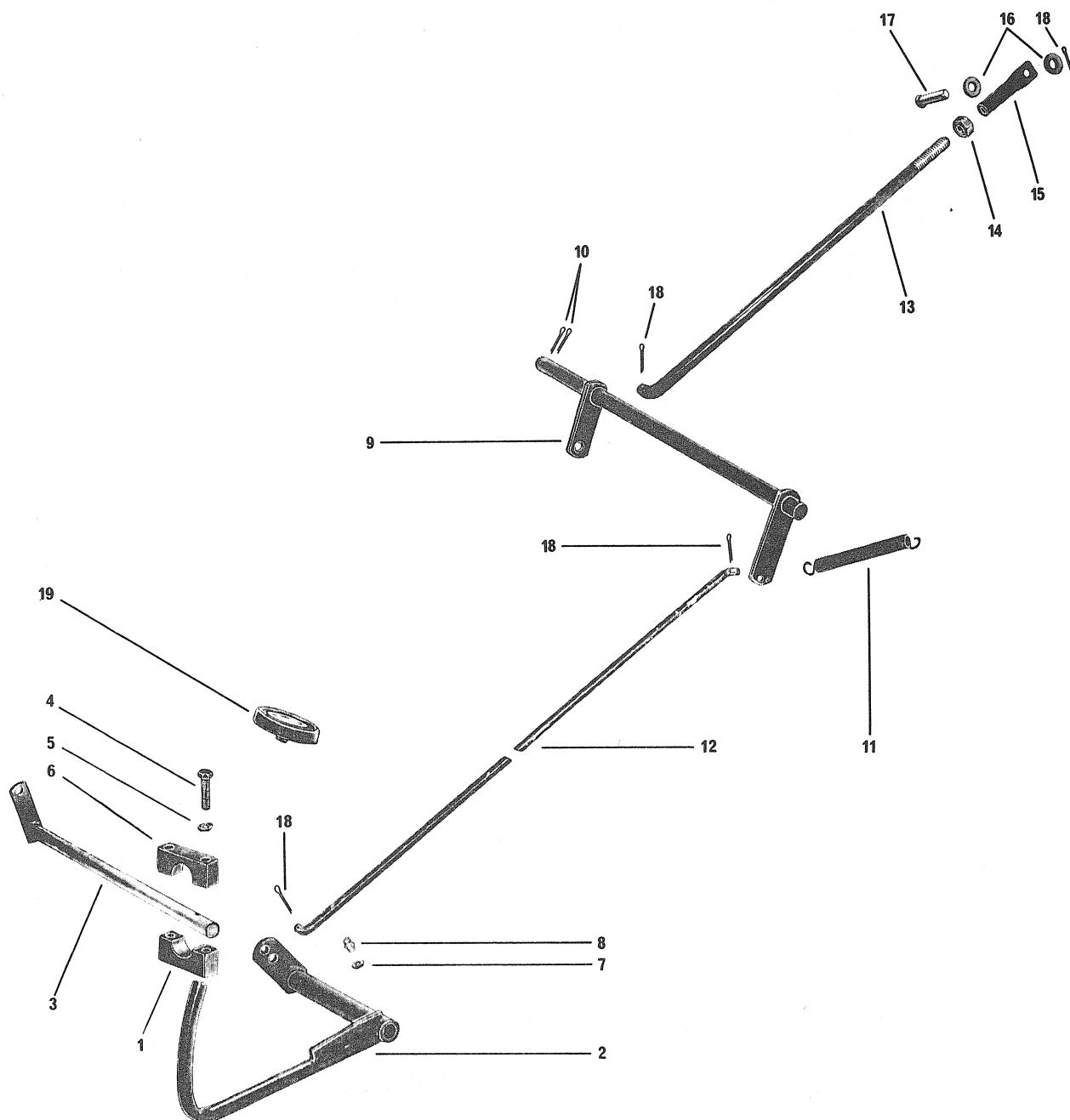
BOMBARDIER LTD/LTEE
 SECTION 06/4 - 1st PRINT
 1st MODEL (ISSUE 1)

APRIL 1970.

BRAKE

MUSKEG "S" CARRIER

FREIN



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 07/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	618 0287	Base - pillow block.....	1
2	607 0001	Pedal - brake.....	1
3	609 0020	Shaft - cross.....	1
4	300 0003	Bolt.....	4
5	392 0019	Lockwasher.....	4
6	609 0026	Cap - pillow block.....	2
7	392 0019	Lockwasher.....	1
8	408 2001	Fitting - grease.....	1
9	607 0009	Shaft - cross.....	1
10	371 0032	Pin - cotter.....	2
11	607 0015	Spring - return.....	1
12	607 0010	Rod - brake (pedal to lever).....	1
13	604 0027	Rod - brake (cross shaft to trans.)	1
14	380 6028	Nut.....	1
15	606 0039	Adjuster - brake rod.....	1
16	391 0025	Flat washer.....	2
17	114 0051	Pin - clevis.....	1
18	371 0011	Pin - cotter.....	4
19	670 0901	Pad - pedal.....	1

LITHO'D IN CANADA

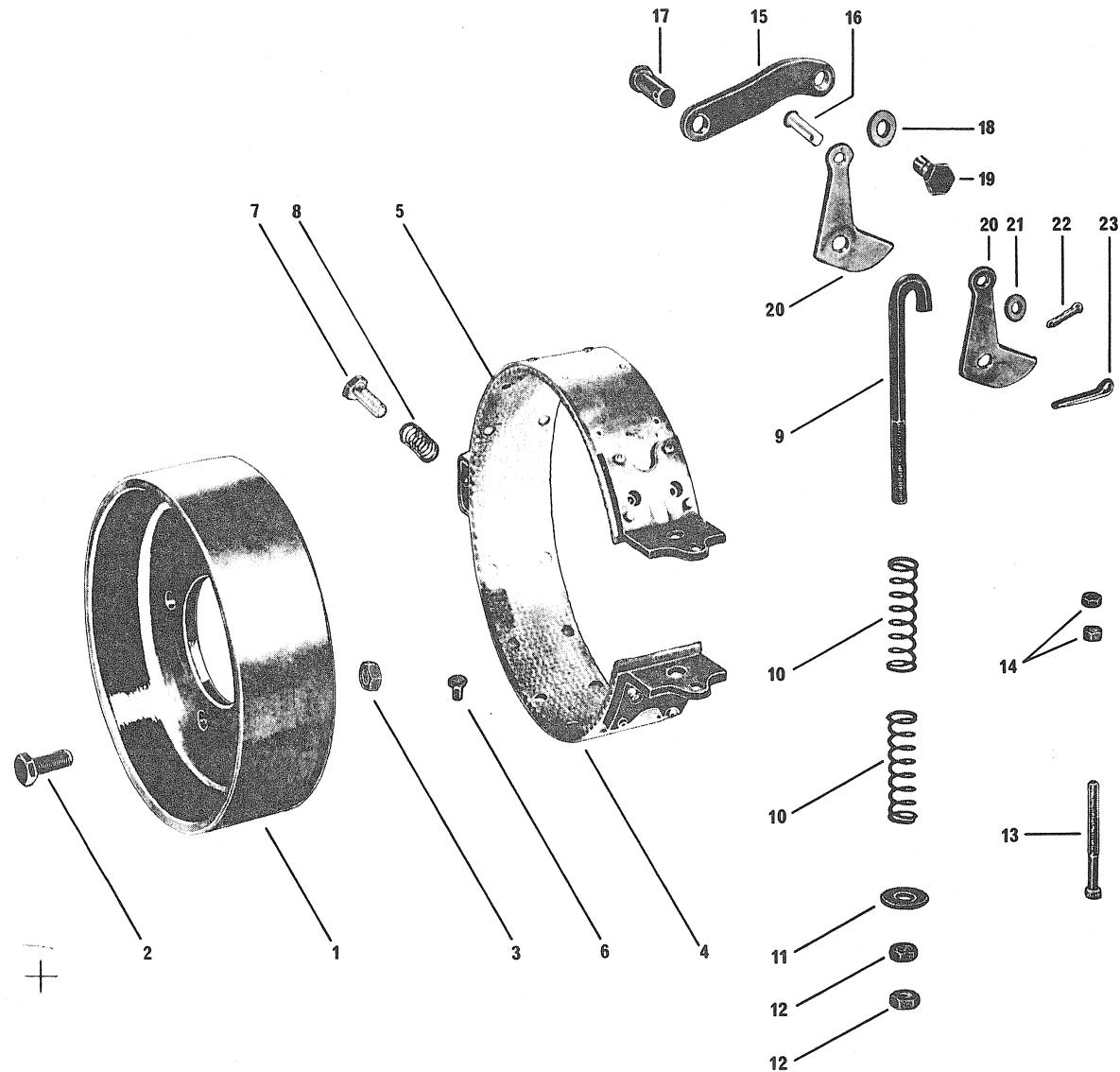
BOMBARDIER LTD/LTEE
 SECTION 07/2 - 1st PRINT
 1st MODEL (ISSUE 1)

APRIL 1970.

BRAKE

MUSKEG "S" CARRIER

FREIN



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 07/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

BRAKE

MUSKEG "S" CARRIER

FREIN

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			³ _{trans.} speed ⁴ _{trans.} speed
1	102 4036	Drum with flange (not illustrated) ..	- 1
1	102 4038	Drum.....	- 1
1	102 4032	Drum.....	1 -
2	102 4055	Bolt.....	- 4
2	102 4044	Bolt.....	4 -
3	102 4056	Nut.....	- 4
3	102 4054	Nut.....	4 -
4	102 4031	Band with lining.....	- 1
4	102 4033	Band with lining.....	1 -
5	101 4001	Lining (sold by inch)	As req'd As req'd
6	390 2005	Rivet.....	24 24
7	102 4042	Screw.....	1 1
8	102 4005	Spring.....	1 1
9	102 4052	Bolt - adjusting.....	- 1
9	102 4043	Bolt - adjusting.....	1 -
10	102 4008	Spring.....	2 2
10	101 4006	Spring - upper.....	1 -
10	101 2002	Spring - lower.....	1 -
11	391 0027	Washer.....	1 1
12	380 9024	Nut.....	2 2
13	101 2001	Screw.....	- 1
13	102 4045	Screw.....	1 -
14	380 6019	Nut.....	2 2
15	102 2186	Link.....	- 1
15	102 4034	Link.....	1 -
16	102 4035	Pin.....	2 1
17	102 4017	Pin.....	1 1
18	391 0029	Washer.....	- 1
19	102 4040	Screw.....	- 1
20	102 4018	Lever.....	2 2
21	391 0025	Washer.....	1 1
22	371 0012	Pin - cotter.....	2 1
23	371 0092	Pin - cotter.....	1 1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

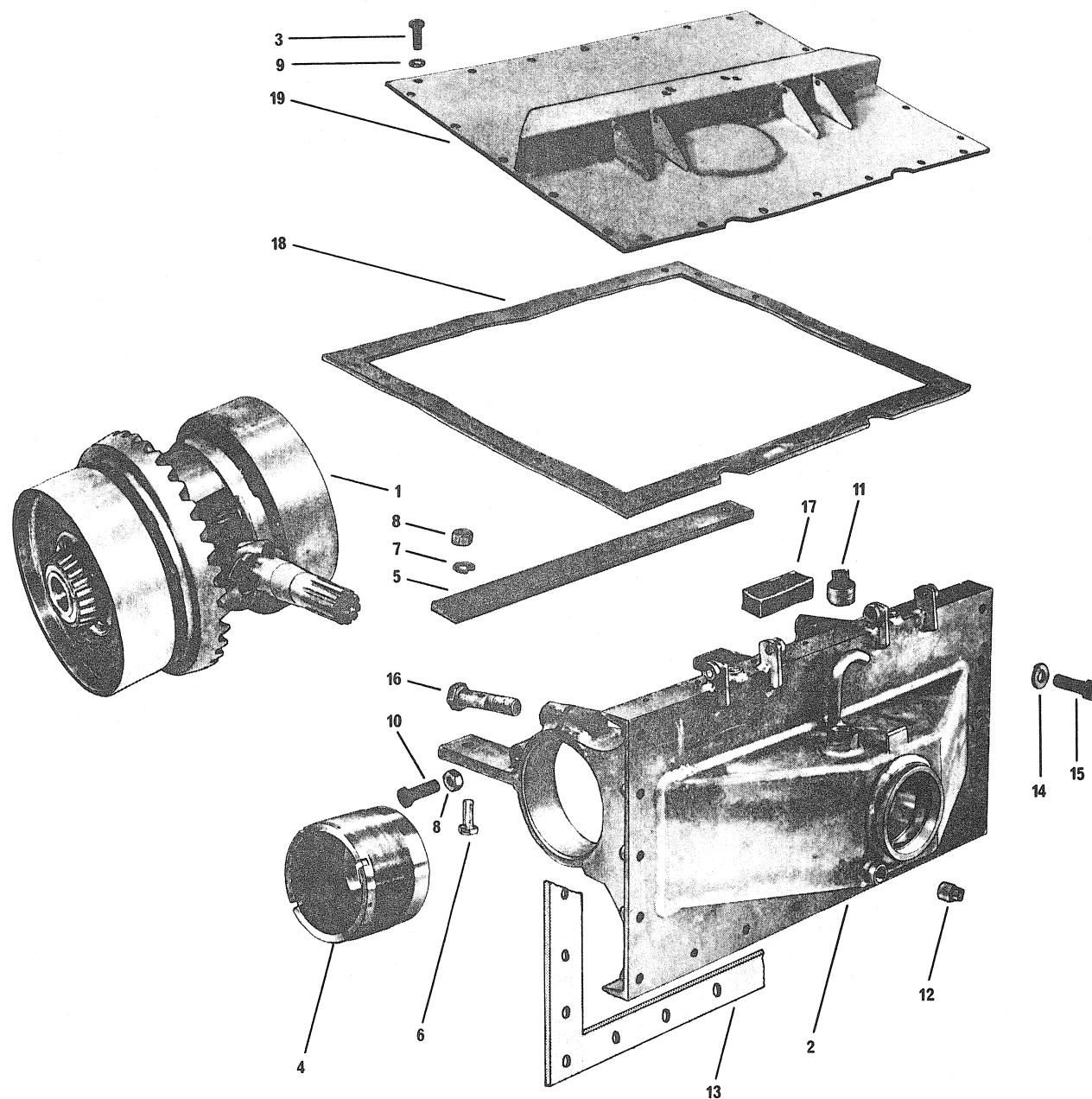
SECTION 07/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

DIFFERENTIAL

MUSKEG "S" CARRIER

DIFFERENTIEL



LITHOID IN CANADA

BOMBARDIER LTD/LTEE
SECTION 08/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

DIFFERENTIAL

MUSKEG "S" CARRIER

DIFFERENTIEL

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	681 0005	Ass'y - differential.....	1
2	608 0039	Carrier - differential.....	1
3	300 0041	Bolt.....	24
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.....	2
9	392 0022	Lockwasher.....	24
10	660 8007	Bolt - adjuster.....	1
11	108 7003	Plug - filler 3/4" N.P.T.....	1
12	108 7005	Plug - drain 3/8" N.P.T.....	1
13	670 0807	Gasket - "U" differential carrier..	1
14	399 8004	Lockwasher - differential carrier..	16
15	300 0085	Bolt - differential carrier.....	16
16	660 8003	Bolt.....	2
17	606 0036	Felt - yoke packing.....	2
18	670 0804	Gasket - differential cover.....	1
19	608 0070	Cover - differential.....	1
	608 0035	Gauge - oil level.....	1
	108 7008	Plug - differential drain (frame)..	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

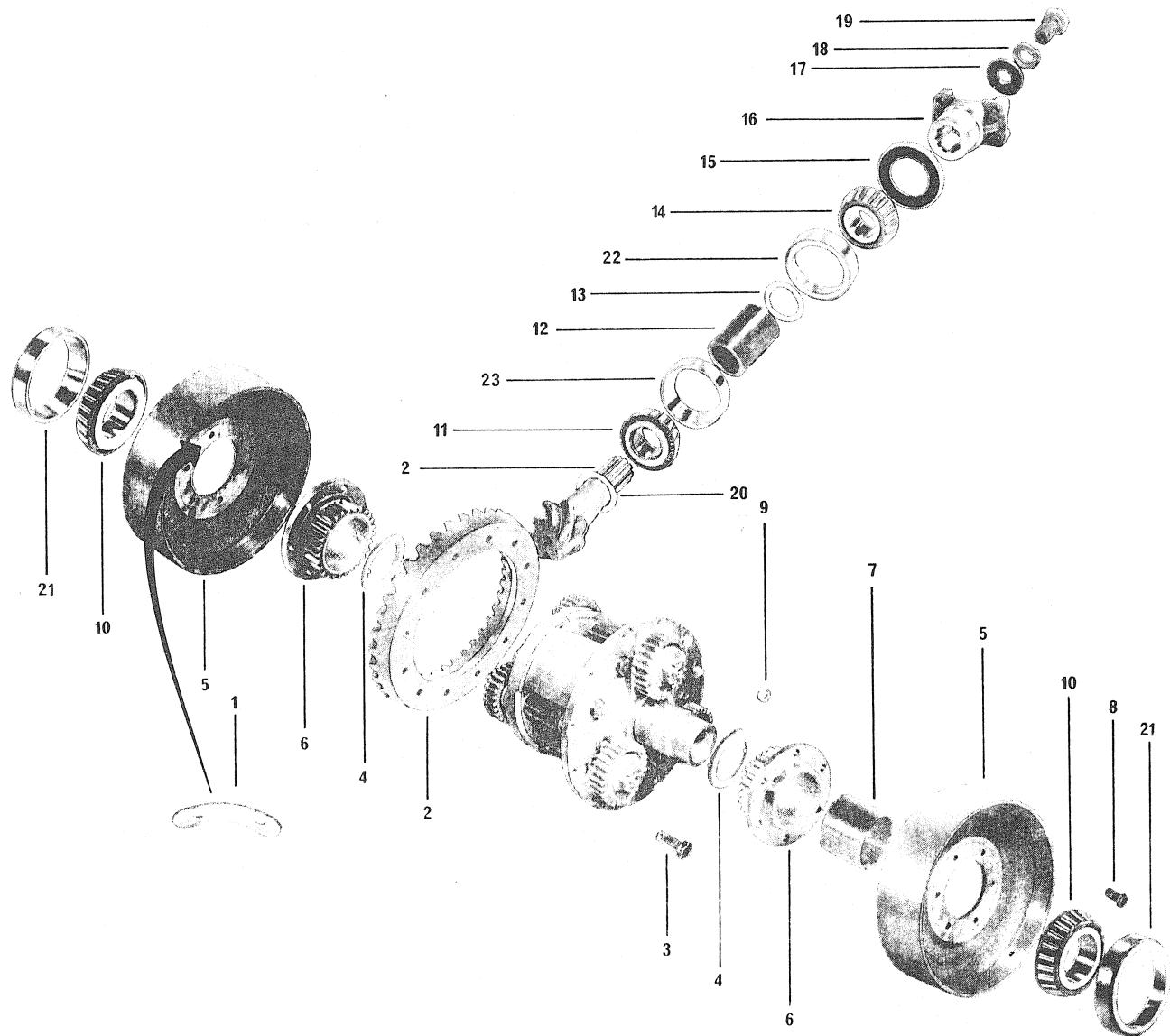
SECTION 08/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

DIFFERENTIAL

MUSKEG "S" CARRIER

DIFFERENTIEL



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 08/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

DIFFERENTIAL

MUSKEG "S" CARRIER

DIFFERENTIEL

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	608 0060	Lock - brake drum bolt.....	6
2	103 1002	Set - crown gear & pinion.....	1
3	309 8018	Bolt - crown gear.....	12
4	608 0013	Washer - brake drum gear & thrust..	2
5	608 0002	Drum - steering brake.....	2
6	608 0011	Gear - brake drum (with bushing)...	2
7	105 6001	Bushing - brake drum gear.....	2
8	309 8008	Bolt.....	12
9	389 8004	Nut.....	12
10	105 0025	Cone - differential carrier bearing	2
11	105 0027	Cone - drive pinion bearing.....	1
12	608 0003	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 0009	Shim .015".....	As req'd
13	608 0063	Shim .020".....	As req'd
13	608 0007	Shim .036".....	As req'd
14	105 0029	Cone - drive pinion bearing.....	1
15	106 3002	Seal - pinion gear housing oil.....	1
16	103 1004	Yoke - pinion.....	1
17	608 0008	Washer - pinion flange 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 adjuster.....	2
22	105 0028	Cup - bearing.....	1
23	105 0026	Cup - bearing.....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

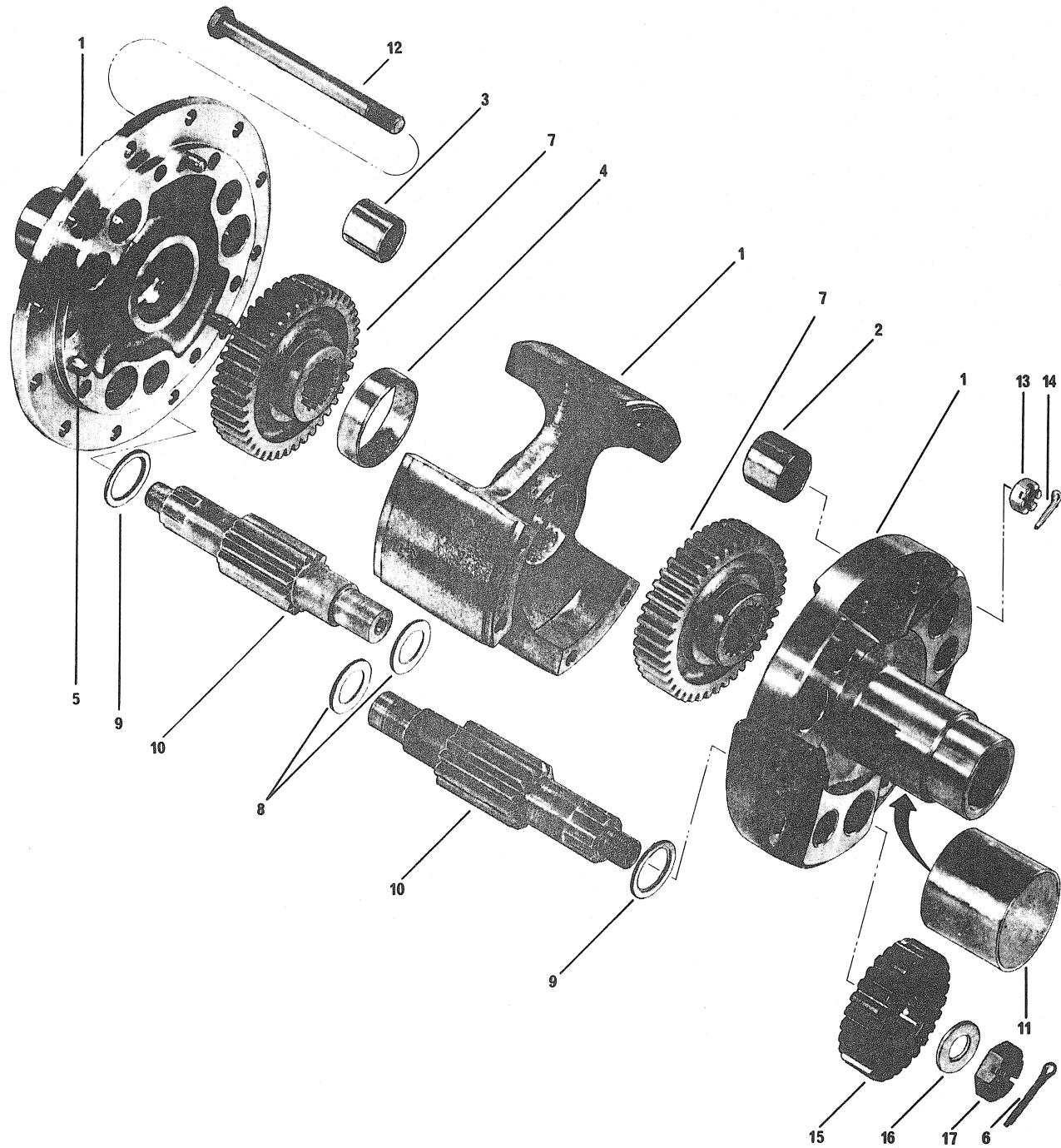
SECTION 08/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

DIFFERENTIAL

MUSKEG "S" CARRIER

DIFFERENTIEL



LITHO'D IN CANADA

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

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
1	682 0022	Ass'y - differential center & side cases (with bushings).....	1
2	105 6003	Bushing - pinion gear (large).....	6
3	105 6002	Bushing - pinion gear (small).....	6
4	105 6007	Bushing - center & side case.....	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 - differential planetary thrust.....	6
10	608 0026	Gear - differential pinion.....	6
11	608 0076	Sleeve.....	2
12	309 8015	Bolt - differential gear case.....	6
13	381 2028	Nut - gear case bolt.....	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

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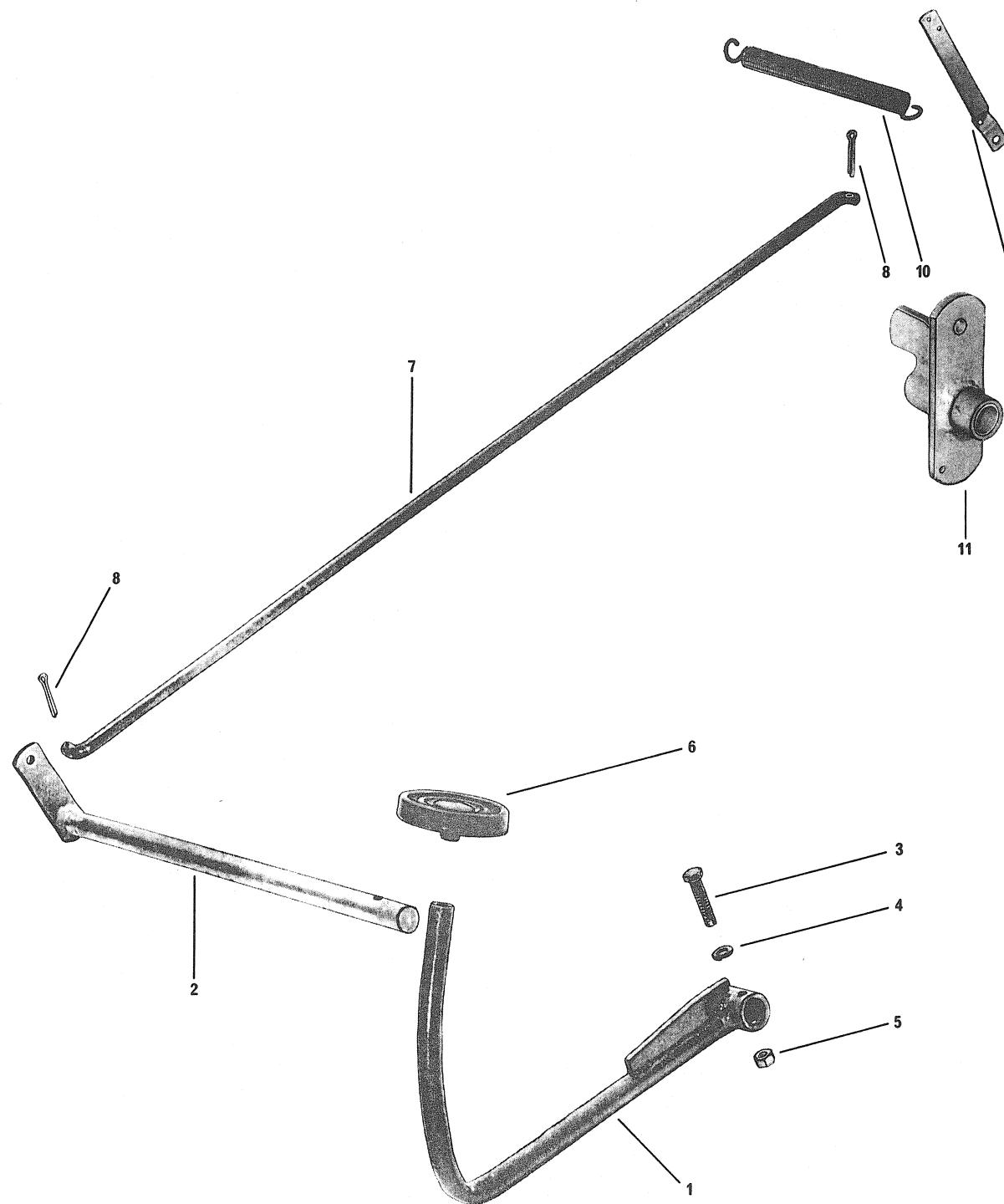
SECTION 08/6 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

CLUTCH

MUSKEG "S" CARRIER

EMBRAYAGE



BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

CLUTCH

MUSKEG "S" CARRIER

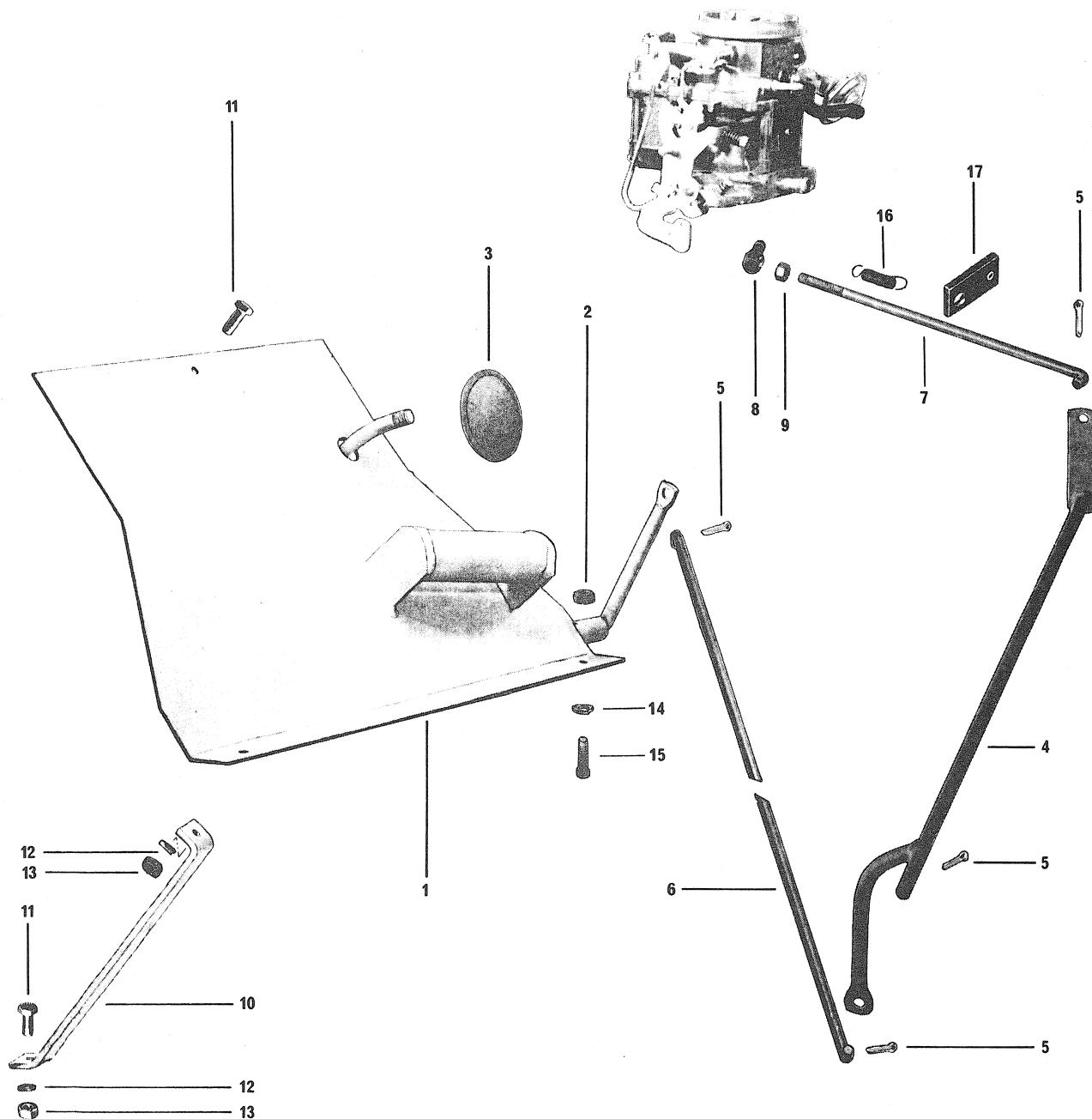
EMBRAYAGE

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	VEHICLE
			6 CYL.	8 CYL.
1	609 0019	Pedal - clutch.....	1	1
2	609 0020	Shaft - cross.....	1	1
3	300 0045	Bolt.....	1	1
4	392 0022	Lockwasher.....	1	1
5	380 6022	Nut.....	1	1
6	670 0901	Pad - pedal.....	1	1
7	609 0021	Rod - clutch.....	1	-
7	609 0022	Rod - clutch.....	-	1
8	371 0011	Pin - cotter.....	2	2
9	609 0025	Bracket - clutch return spring.....	1	1
10	607 0015	Spring - return.....	1	1
11	609 0024	Lever - release fork.....	1	1
	102 6056	Screw - clutch pressure plate.....	8	6
	102 6005	Ass'y - disc (4 speed trans.).....	1	1
	102 6029	Ass'y - bearing & sleeve release...	2	1
	102 6007	Spring - release bearing pull back.	1	1
	102 6055	Screw - clutch release pull back...	1	1
	102 6042	Flange (clutch release fork).....	1	1
	102 6059	Fork.....	1	1
	102 6009	Ass'y - clutch cover & pressure plate.....	1	-
	102 6017	Lever - release.....	1	-
	102 6006	Bearing - clutch release.....	1	-
	102 6053	Ass'y - disc (3 speed).....	1	-
	102 6046	Ass'y - disc (3 speed).....	-	1
	101 6002	Spring - clutch pressure.....	8	8
	102 6011	Strut - clutch release lever.....	4	4
	102 6049	Ass'y - clutch cover & pressure plate.....	-	1

THROTTLE

MUSKEG "S" CARRIER

ACCELERATEUR



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 10/1 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

THROTTLE

MUSKEG "S" CARRIER

ACCELERATEUR

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			6 CYL.	8 CYL.
1	610 0015	Pedal - throttle & toe board.....	1	1
2	380 7022	Nut.....	2	2
3	610 0016	Pad - throttle pedal.....	1	1
4	610 0020	Shaft - throttle cross.....	1	-
4	610 0021	Shaft - throttle cross.....	-	1
5	371 0011	Pin - cotter.....	4	4
6	610 0017	Rod - throttle (pedal to cross shaft).....	1	-
6	610 0018	Rod - throttle (cross shaft to carburetor).....	-	1
7	610 0062	Rod - throttle (pedal to cross shaft).....	1	-
7	610 0023	Rod - throttle (cross shaft to carburetor).....	-	1
8	610 0012	Swivel.....	1	1
9	380 6019	Nut.....	1	1
10	610 0066	Brace - toe board.....	1	1
11	300 0001	Bolt.....	2	2
12	392 0019	Lockwasher.....	2	2
13	380 6019	Nut.....	2	2
14	390 0022	Lockwasher.....	2	2
15	300 0043	Bolt.....	2	2
16	610 0010	Spring - throttle rod return.....	1	1
17	610 0024	Bracket - return spring.....	1	1
	114 0101	Ass'y - hand throttle wire & housing	1	1
	610 0025	Ass'y - throttle wire bracket.....	1	1

BOMBARDIER LTD/LTEE

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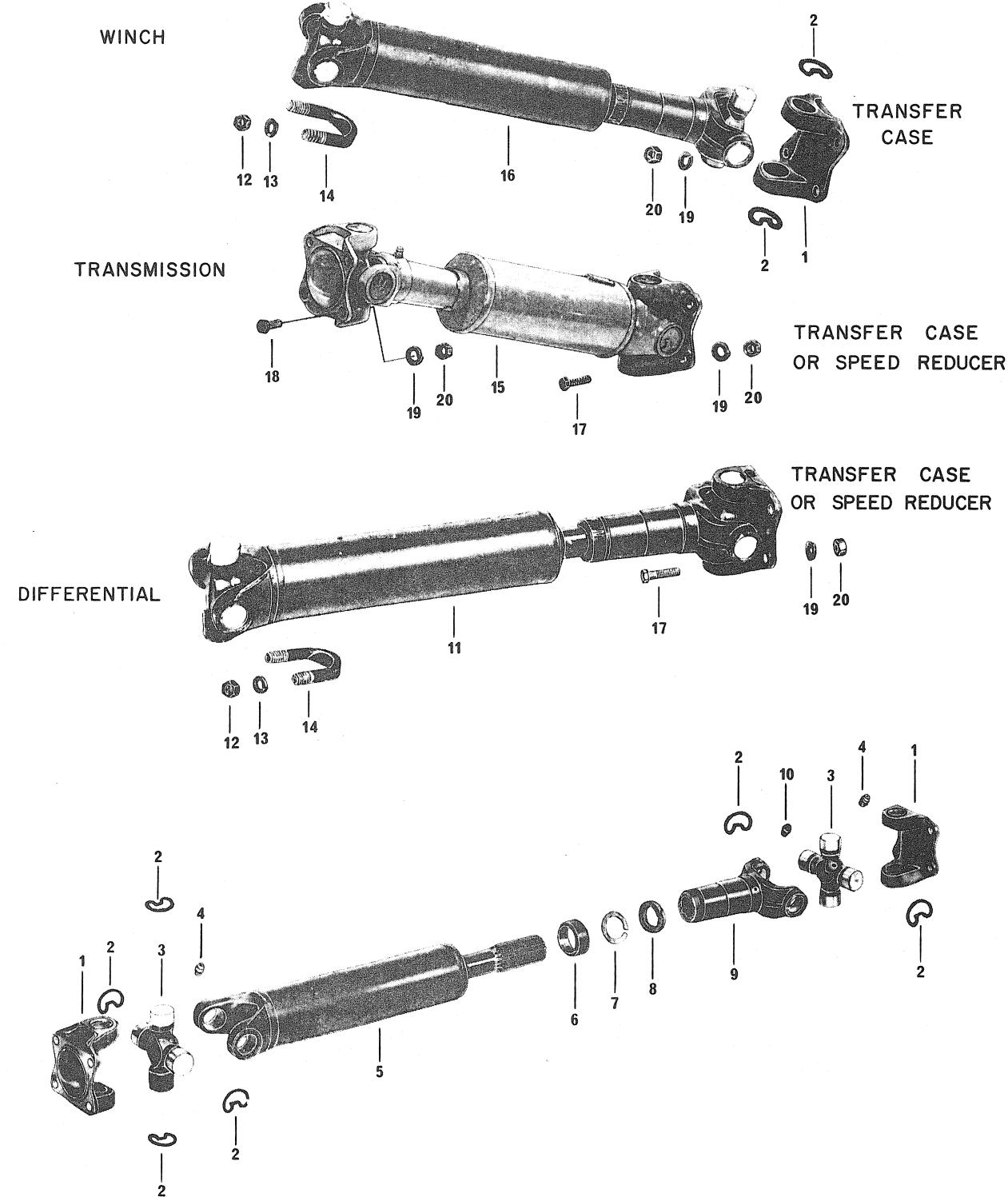
SECTION 10/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

PROPELLER SHAFT

MUSKEG "S" CARRIER

ARBRE DE COMMANDE



REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
1	103 0009	Flange - yoke.....	3
1	103 0008	Flange - companion (to transmission)	1
2	103 0047	Ring - snap.....	20
3	103 0007	Kit - journal & bearing with snap ring.....	4
3	103 0045	Kit - journal & bearing with snap ring (use on propeller shaft #611 0014).....	2
4	408 2001	Fitting - grease.....	6
5	103 0090	Ass'y - shaft (use on propeller shaft #103 0010).....	1
5	103 0089	Ass'y - shaft (use on propeller shaft #103 0011).....	1
5	611 0032	Ass'y - shaft (use on propeller shaft #611 0014).....	1
5	103 0044	Ass'y - shaft (use on propeller shaft #103 0033).....	1
6	103 0060	Cap - dust.....	3
7	103 0061	Washer - steel.....	3
8	103 0059	Washer cork.....	3
9	103 0013	Slip joint (use on propeller shaft #103 0010 & 103 0033).....	2
9	103 0051	Slip joint (use on propeller shaft #103 0011).....	1
9	103 0058	Slip joint (use on propeller shaft #611 0014).....	1
10	108 2005	Fitting - grease.....	3
11	611 0014	Ass'y - propeller shaft (tr. case or speed reducer to diff.).....	1
12	380 6024	Nut.....	8
13	392 0024	Lockwasher.....	8
14	103 0029	"U" bolt.....	4
15	103 0011	Ass'y - propeller shaft (3 speed trans. to tr. case or sp. reducer)	1
15	103 0010	Ass'y - propeller shaft (4 speed trans. to tr. case or sp. reducer).	1
16	103 0120	Ass'y - propeller shaft (tr. case to winch).....	1
17	300 0124	Bolt.....	8
18	102 4055	Bolt (4 speed trans. model).....	4
18	102 4044	Bolt (3 speed trans. model).....	4
19	392 0026	Lockwasher.....	16
20	380 6026	Nut.....	12
21	102 4056	Nut (4 speed trans. model).....	4
21	102 4054	Nut (3 speed trans. model).....	4
Note: All the listed items are identical for the 3 propeller shafts assemblies except when specified.			

BOMBARDIER LTD/LTEE

ENGINE

MUSKEG "S" CARRIER

MOTEUR

PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.	QTY PER VEHICLE 8 CYL.
100 3003	Engine V-8.....	-	1
100 2004	Engine - 6 cyl.....	1	-
107 3001	Hose - oil pan drain (multiple 12").....	As req'd	As req'd
108 8004	Clamp - hose.....	2	2
617 0311	Support - winch 6 cyl.....	1	-
617 0312	Support - winch 8 cyl.....	-	1
300 0083	Bolt.....	1	1
300 0081	Bolt.....	13	13
392 0024	Lockwasher.....	14	14
380 6024	Nut.....	14	14
300 0133	Bolt (front motor support).....	2	2
661 2006	Spacer (front motor support).....	2	2
670 1203	Rubber - spacer (front motor support)....	2	2
661 2005	Insulator (front motor support).....	2	2
612 0023	Washer (front motor support).....	4	2
612 0009	Bracket - mounting right hand (rear).....	1	-
612 0011	Bracket - mounting left hand (rear).....	1	-
392 0028	Lockwasher.....	4	-
300 4153	Bolt.....	4	-
391 0027	Flat washer (rear).....	2	2
380 6026	Nut (rear).....	4	4
300 0087	Bolt (rear).....	2	2
612 0007	Plate - rear motor insulator.....	-	2
670 1206	Rubber - rear insulator.....	-	2
670 1205	Rubber - insulator motor support.....	-	2
387 2024	Nut (rear).....	2	2
612 0025	Plate - rear insulator.....	2	-
670 1204	Rubber - rear insulator.....	2	-
108 0001	Fitting.....	1	-
661 2003	Pipe - oil filter.....	1	-
661 2012	Bracket - oil filter.....	1	-
661 2010	Pipe - oil suction.....	-	1
102 9269	Gasket - oil pan.....	-	1
661 2002	Pan - oil.....	-	1
661 2013	Cover - left hand valve.....	-	1
102 9033	Belt - fan.....	1	-
107 9007	Belt - fan.....	-	1
661 6003	Fan.....	1	1
102 9097	Fan.....	1	1
661 5002	Bracket - alternator 6 cyl.....	1	-
661 5003	Bracket - alternator 8 cyl.....	-	1
615 0065	Adjuster - alternator bracket.....	1	-
615 0069	Adjuster - alternator bracket.....	-	1
324 9132	Bolt.....	1	1
300 4041	Bolt.....	1	1
392 0022	Lockwasher.....	1	1
101 8009	Screw & washer.....	1	1
615 0006	Bolt - alternator.....	-	1
387 2024	Nut.....	-	1
661 5015	Strap - alternator adjuster.....	1	-
661 5014	Strap - alternator adjuster.....	-	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

ENGINE

MUSKEG "S" CARRIER

MOTEUR

PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL. 8 CYL.
399 8004	Washer.....	- 9
300 4095	Bolt.....	- 1
108 0019	Cock - drain (block engine).....	1 1
108 7030	Coupling.....	1 -
661 2001	Pan - oil.....	1 -
108 0003	Colk - oil pan drain.....	1 1
110 9008	Ass'y - hoof governor.....	1 -
102 3191	Ass'y - velocity governor.....	- 1
102 3001	Stud - carburetor retainer.....	- 4
102 3094	Gasket - carburetor.....	- 2
661 2019	Ass'y - automatic choke.....	- 1
101 9007	Gasket - air filter.....	1 -
102 3045	Filter - air.....	1 -
101 9006	Gasket - air filter.....	- 1
102 3079	Filter -air.....	- 1

ENGINE (OIL FILTER)

MUSKEG "S" CARRIER

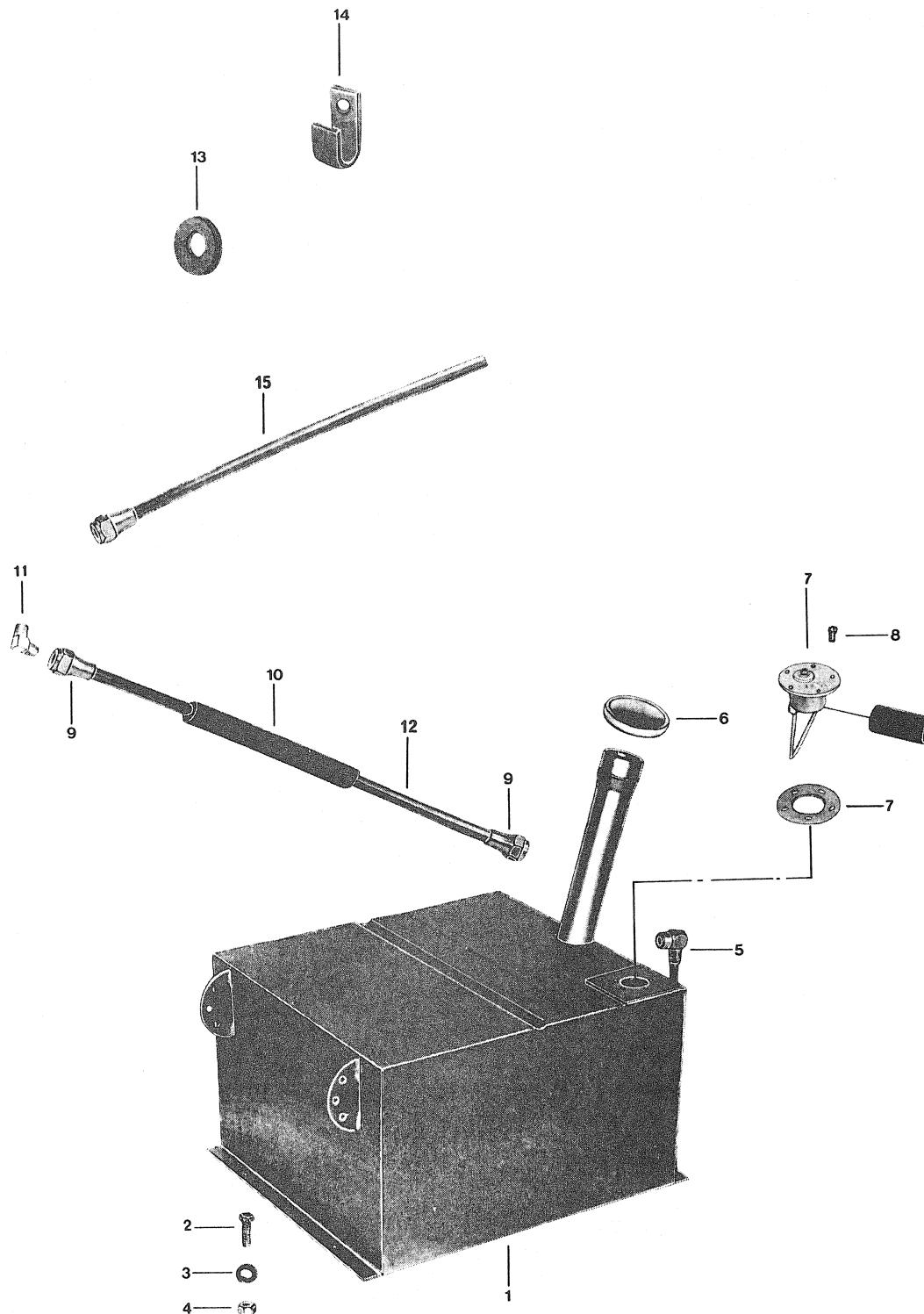
MOTEUR
(FILTREUR A L'HUILE)

PART NO.	DESCRIPTION	QTY PER VEHICLE 8 CYL.
102 9109	Gasket - oil filter cover.....	1
102 9506	Cover - oil filter.....	1
102 9507	Bolt - oil filter center.....	1
102 9509	Washer - fibre.....	1
102 9508	Block - oil filter.....	1
102 2055	"O" ring.....	1
102 9510	Pipe - male.....	1
108 4005	Elbow 90°	1
617 0601	Bracket - oil filter (less cab).....	1
114 0031	Filter - (complete).....	1
114 0032	Element - oil filter.....	1
300 0041	Bolt (oil filter).....	4
392 0022	Lockwasher (oil filter).....	4
380 7022	Nut (oil filter).....	4
391 0023	Washer (oil filter).....	4
108 5024	Elbow 90°	1
108 5030	Pipe - male.....	1
626 0327	Ass'y - high pressure hose (34" L.).....	1
626 0200	Ass'y - high pressure hose (42" L.).....	1

FUEL

MUSKEG "S" CARRIER

CARBURANT



LITHO'D IN CANADA

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

APRIL, 1970.

FUEL

MUSKEG "S" CARRIER

CARBURANT

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	CAR	BUR
			6 CYL.	8 CYL.	
1	613 0020	Tank - fuel.....	1	1	
2	300 0001	Bolt.....	4	4	
3	392 0019	Lockwasher.....	4	4	
4	380 6019	Nut.....	4	4	
5	613 0002	Elbow - fuel tank outlet.....	1	1	
6	114 0010	Cap - fuel tank.....	1	1	
7	110 0026	Gauge & gasket - fuel tank.....	1	1	
8	321 6061	Bolt.....	5	5	
9	108 0020	Nut - flared.....	2	2	
10	107 5003	Protector (multiple 12").....	As req'd	As req'd	
11	108 0001	Fitting (fuel line to pump elbow)...	-	1	
12	613 0016	Ass'y - fuel line (tank to pump)....	1	-	
12	613 0017	Ass'y - fuel line (tank to pump)....	-	1	
13	670 2603	Grommet.....	1	1	
14	613 0027	Bracket - fuel line.....	-	1	
15	613 0029	Ass'y - fuel line (pump to filter)..	-	1	

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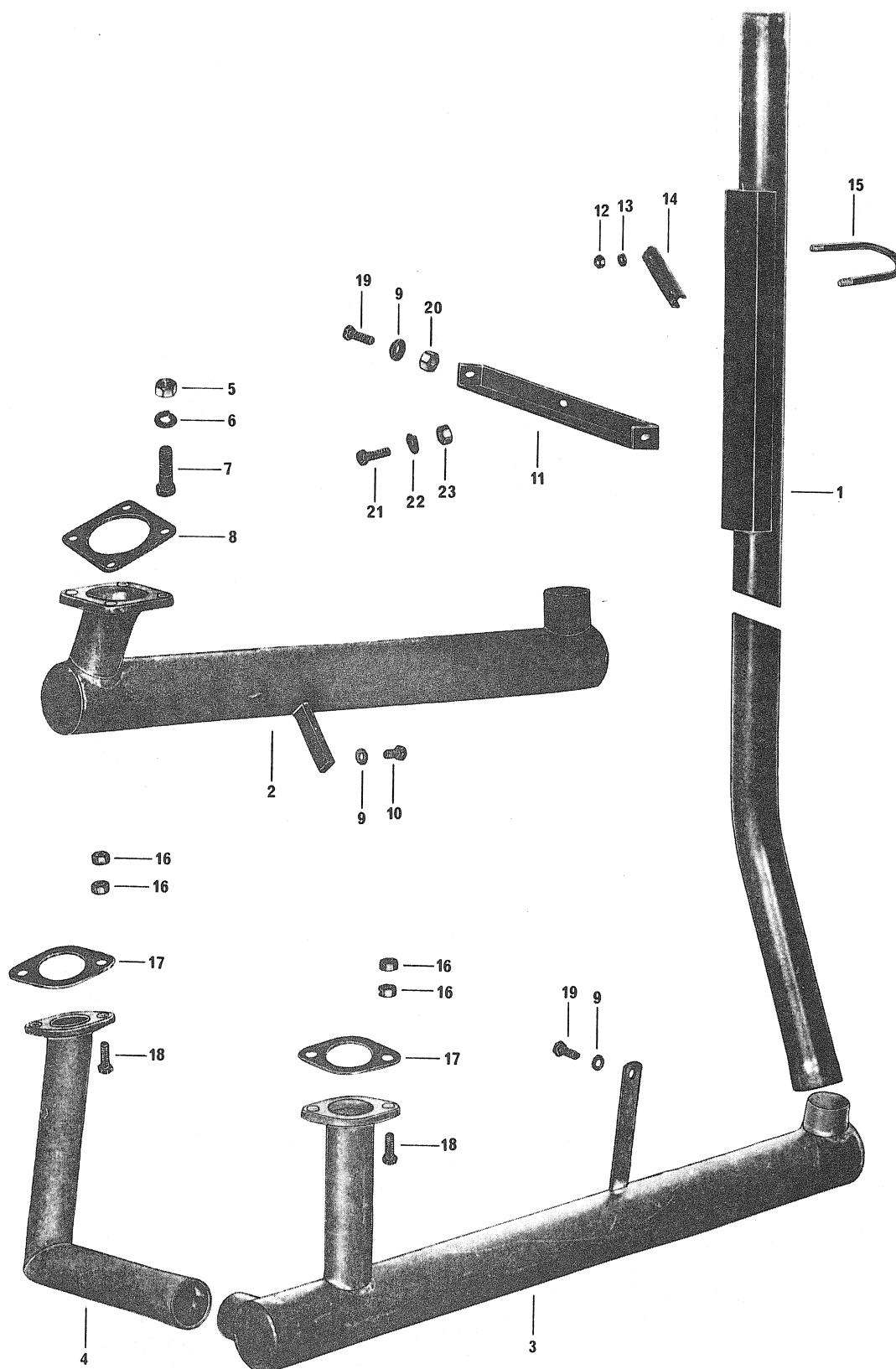
SECTION 13/2 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

EXHAUST

MUSKEG "S" CARRIER

ECHAPPEMENT



BOMBARDIER LTD/LTEE

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

LITHO'D IN CANADA

APRIL 1970.

EXHAUST

MUSKEG "S" CARRIER

ECHAPPEMENT

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE	
			6 CYL.	8 CYL.
1	614 0020	Pipe - exhaust (less cab).....	1	-
1	614 0053	Pipe - exhaust (less cab).....	-	1
1	614 0015	Pipe - exhaust.....	1	-
1	614 0016	Pipe - exhaust.....	-	1
2	614 0013	Muffler.....	1	-
3	614 0012	Muffler.....	-	1
4	614 0017	Muffler - pipe right hand.....	-	1
5	389 8001	Nut.....	4	-
6	392 0024	Lockwasher.....	4	-
7	300 0085	Bolt.....	4	-
8	102 1023	Gasket - muffler.....	1	-
9	392 0022	Lockwasher.....	3	3
10	300 4041	Bolt.....	1	-
11	617 0327	Stiffener (less cab).....	1	1
12	380 6019	Nut.....	2	2
13	392 0019	Lockwasher.....	2	2
14	614 0033	Bracket - "U" bolt.....	1	1
15	614 0021	"U" bolt.....	1	1
16	389 8002	Nut.....	-	8
17	102 1016	Gasket.....	-	2
18	300 0126	Bolt.....	-	4
19	300 0041	Bolt.....	2	3
20	380 6022	Nut.....	2	2
21	300 0120	Bolt (less cab).....	1	1
22	392 0026	Lockwasher (less cab).....	1	1
23	380 6026	Nut (less cab).....	1	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

ELECTRICAL (DASH)

MUSKEG "S" CARRIER

SYSTEME ELECTRIQUE
(TABLEAU DE BORD)

PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.
110 1002	Switch (headlamp, wiper, dome lamp, rear L.)	4
110 1001	Switch - ignition.....	1
101 8001	Button - starter push.....	1
110 0016	Ammeter.....	1
110 0019	Gauge - temperature.....	1
110 0003	Gauge - fuel.....	1
110 0011	Gauge - oil.....	1
110 0029	Meter - hour (12 volts).....	1
110 9001	Breaker - circuit.....	1
321 6061	Bolt.....	3
392 0014	Lockwasher.....	3
385 7013	Nut.....	3
109 5014	Ass'y - wire (oil gauge to fuel & temp. gauge).....	1
109 5013	Ass'y - wire (circuit breaker to ammeter).....	1
661 5005	Ass'y - wire (circuit breaker to ignition & starter switch).....	1
661 5006	Ass'y - wire (circuit breaker to head lamp switch).....	1
661 5005	Ass'y - wire (circuit breaker to dome light & back-up light switch).....	1
661 5011	Ass'y - wire (hour meter ground wire).....	1
661 5006	Ass'y - wire (ignition switch to wiper switch).....	1
661 5012	Ass'y - wire (ignition switch to hour meter).....	1
109 4006	Ass'y - wiring harness.....	1
102 8159	Regulator - voltage.....	1
321 6061	Bolt.....	2
399 9001	Flat washer.....	2
392 0014	Lockwasher.....	2
385 7013	Nut.....	2
320 1060	Bolt.....	1
392 0014	Lockwasher.....	1

PART NO.	DESCRIPTION	QTY PER VEHICLE 8 CYL.
110 0016	Ammeter.....	1
110 0019	Gauge - temperature.....	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
385 7013	Nut.....	1
102 8159	Regulator - voltage.....	1
321 6061	Bolt.....	2
399 9001	Flat washer.....	2
392 0014	Lockwasher.....	2
385 7013	Nut.....	2
661 5005	Ass'y - wire (circuit breaker to ignition to start).....	2
109 5013	Ass'y - wire (circuit breaker to ammeter).....	1
109 5014	Ass'y - wire (oil gauge to fuel & temp. gauge).....	1
661 5012	Ass'y - wire (ignition switch 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 (ignition switch to wiper switch).....	1
615 0013	Ass'y - wire (circuit breaker to dome light switch).....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

ELECTRICAL (ENGINE)

MUSKEG "S" CARRIER

SYSTEME ELECTRIQUE
(MOTEUR)

PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.
110 0022	Gauge - temperature.....	1
110 0014	Gauge - oil pressure.....	1
612 0024	Tube - oil gauge extension.....	1
102 8163	Cover - alternator terminal.....	1
391 0021	Flat washer.....	1
392 0019	Lockwasher.....	1
380 9019	Nut.....	1
365 0002	Bolt.....	1
392 0014	Lockwasher.....	1
109 5002	Cable - battery.....	2
107 5001	Protector - cable (multiple 12").....	As req'd
392 0022	Lockwasher.....	2
380 9022	Nut.....	2
392 0014	Lockwasher.....	1
380 7013	Nut.....	1
617 0157	Plate - battery base.....	1
670 1502	Insulator - battery shock.....	1
110 3002	Battery.....	1
615 0008	Bracket - battery.....	1
300 0008	Bolt.....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
615 0004	Bracket - battery (less cab).....	1

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

ELECTRICAL (ENGINE)

MUSKEG "S" CARRIER

SYSTEME ELECTRIQUE
(MOTEUR)

PART NO.	DESCRIPTION	QTY PER VEHICLE 8 CYL.
615 0036	Ass'y - wire (resistor to coil).....	1
102 8163	Cover - terminal cover.....	1
391 0021	Flat washer.....	1
392 0019	Lockwasher.....	1
380 9019	Nut.....	1
365 0002	Bolt.....	1
392 0014	Lockwasher.....	1
102 8111	Switch - solenoid.....	1
321 6100	Screw - machine.....	2
392 0019	Lockwasher.....	2
380 9019	Nut.....	2
109 5002	Cable- battery.....	2
107 5001	Protector (battery cable (multiple 12"))..	As req'd
392 0022	Lockwasher.....	2
380 9022	Nut.....	2
392 0014	Lockwasher.....	1
380 7013	Nut.....	1
617 0157	Plate - battery base.....	1
670 1502	Insulator - battery shock.....	1
110 3002	Battery.....	1
615 0008	Bracket - battery.....	1
300 0008	Bolt.....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
300 4003	Bolt.....	4
380 9019	Nut.....	2
615 0004	Bracket - battery (less cab).....	1
102 8162	Ass'y - alternator V-8.....	1
110 0014	Gauge - oil pressure.....	1
203 4002	Bushing - reducer.....	1
110 0030	Gauge - temperature.....	1
109 5001	Cable (solenoid to starter).....	1
391 0023	Flatwasher (with cable).....	1

LITHO'D IN CANADA

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

APRIL 1970.

ELECTRICAL
(LIGHT & WIPER)

MUSKEG "S" CARRIER

SYSTEME ELECTRIQUE
(LUMIERE & ESSUIE-GLACE)

PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
360 4081	Bolt.....	3
615 0020	Housing - headlamp.....	3
615 0012	Seat - headlamp.....	3
670 1501	Support - headlamp rubber (front).....	2
392 0024	Lockwasher (rear).....	1
391 0029	Flatwasher (front).....	2
385 1024	Nut.....	3
107 9005	Grommer - rubber.....	3
615 0037	Ass'y - wire (headlamp switch to headlamp left hand).....	1
615 0035	Ass'y - wire (headlamp switch to headlamp, right hand).....	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 - headlight.....	3
321 6063	Bolt.....	3
385 1013	Nut.....	3
110 6008	Ass'y - dome lamp (12 volts).....	1
392 0014	Lockwasher.....	2
321 6061	Bolt.....	2
409 0002	Terminal.....	2
409 0001	Connector - snap.....	1
110 7010	Motor - wiper.....	1
661 5010	Ass'y - wire (wiper switch 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

PART NO.	DESCRIPTION	QUANTITY PER VEHICLE
409 6016	Wire - 12 gal. red (multiple 12").....	As req'd
264 4003	Wire - 12 gal. yellow (multiple 12").....	As req'd
409 6025	Wire - 14 gal. red (multiple 12").....	As req'd
264 4006	Wire - 14 gal. black (multiple 12").....	As req'd
109 5041	Wire - 14 gal. orange (multiple 12").....	As req'd
409 6021	Wire - 16 gal. black (multiple 12").....	As req'd
409 6019	Wire - 1y gal. yellow/red stripped (multiple 12").....	As req'd
409 6022	Wire - 16 gal. yellow (multiple 12").....	As req'd
409 6020	Wire - 16 gal. brown (multiple 12").....	As req'd
409 6018	Wire - 16 gal. red (multiple 12").....	As req'd
409 6028	Wire - 16 gal. red/white stripped (multiple 12").....	As req'd
109 5030	Wire - 16 gal. white (multiple 12").....	As req'd
109 5025	Wire - 16 gal. green (multiple 12").....	As req'd
409 6010	Wire - 18 gal. white (multiple 12").....	As req'd
109 5042	Wire - 18 gal. yellow/red stripped (multiple 12").....	As req'd
109 5044	Wire - 18 gal. orange (multiple 12").....	As req'd
109 5045	Wire - 18 gal. violet (multiple 12").....	As req'd

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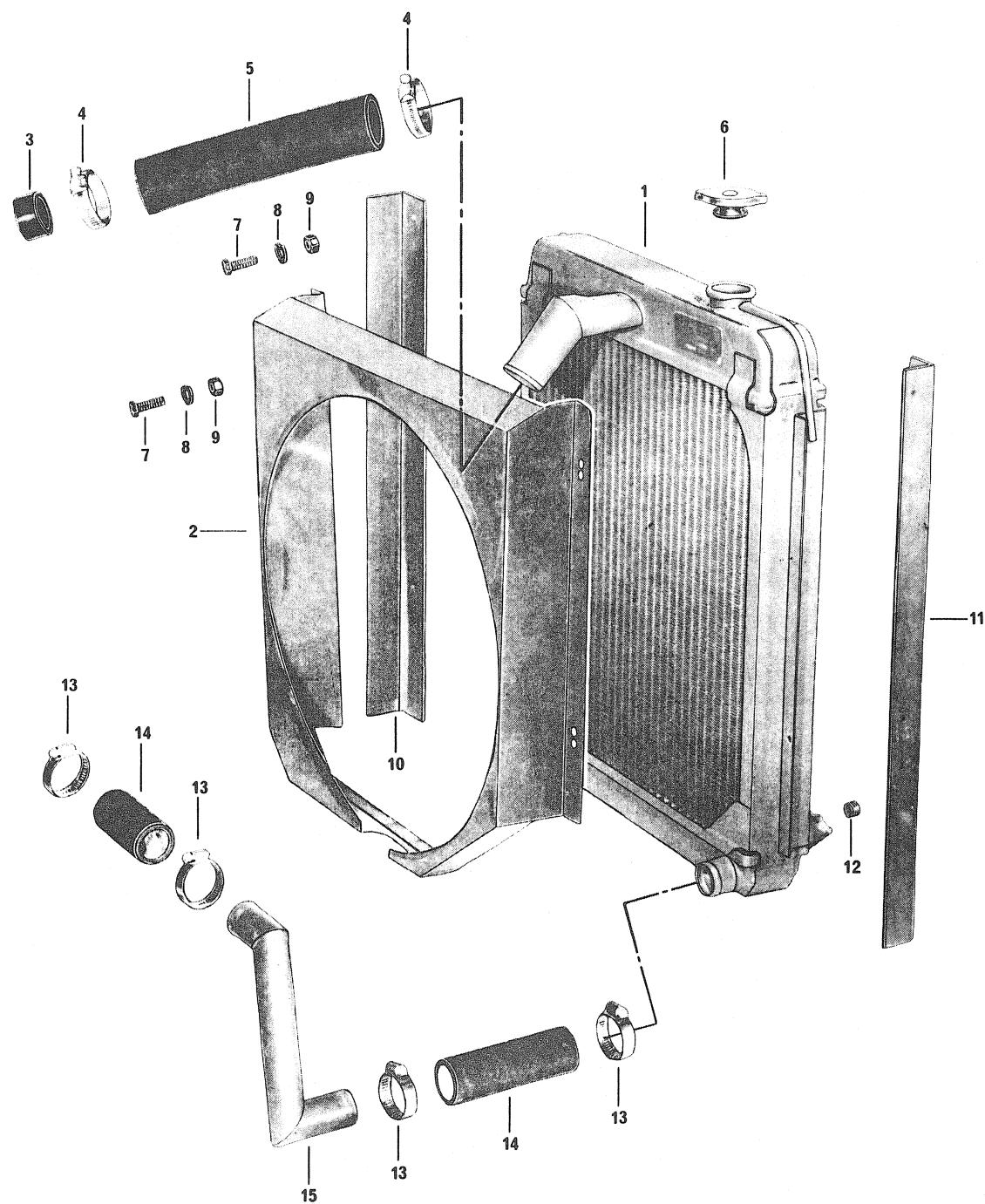
SECTION 15/6 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

COOLING

MUSKEG "S" CARRIER

REFROIDISSEMENT



LITHO'D IN CANADA

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

APRIL 1970.

COOLING

MUSKEG "S" CARRIER

REFROIDISSEMENT

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE 6 CYL.	QTY PER VEHICLE 8 CYL.
1	114 0014	Radiator.....	1	1
1	114 0025	Radiator - tropical.....	1	1
2	617 0143	Shroud - radiator.....	1	1
3	670 1601	Reducer - hose.....	-	1
4	108 8001	Clamp - hose.....	2	2
5	107 4008	Hose - radiator (upper).....	1	-
5	616 0045	Hose - radiator (upper).....	-	1
6	114 0011	Cap - radiator.....	1	1
7	300 0001	Bolt.....	8	8
8	392 0019	Lockwasher.....	8	8
9	380 6019	Nut.....	8	8
10	617 0119	Bracket - left hand radiator.....	1	-
10	617 0120	Bracket - left hand radiator.....	-	1
11	617 0117	Bracket - right hand radiator.....	1	-
11	617 0118	Bracket - right hand radiator.....	1	-
12	108 7061	Plug.....	1	1
13	108 8007	Clamp - hose.....	4	4
14	107 4004	Hose - radiator (lower).....	2	-
14	107 4001	Hose - radiator (lower).....	-	2
15	616 0003	Hose - radiator metal.....	1	-
15	616 0005	Hose - radiator metal.....	-	1
	102 9368	Thermostat - 180° - 8 cyl.....	-	1
	102 9499	Thermostat - 180° - 6 cyl.....	1	-

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

BODY

MUSKEG "S" CARRIER

CARROSSERIE

PART NO.	DESCRIPTION	QTY PER VEHICLE
		ALL MODELS
680 0187	Ass'y - cab (with door, glass, light)....	1
617 0260	Door - left hand (W/O handle & window)....	1
617 0256	Door - right hand (W/O handle & window)....	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" L.....	28
111 0006	Glass - windshield.....	2
107 7001	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" L.....	17
390 4001	Rivet 1/8" dia. X .290" L.....	8
681 0048	Ass'y - right hand door glass.....	1
617 0265	Frame - right hand door glass.....	1
321 7001	Screw	2
385 8007	Nut.....	2
617 0184	Clip - retaining right hand.....	1
079 0007	Tape - cotton.....	As req'd
111 1001	Glass (door).....	2
681 0049	Ass'y - left hand door glass.....	1
617 0267	Frame - left hand door glass.....	1
321 7001	Screw.....	2
385 8007	Nut.....	2
617 0255	Clip - retaining left hand.....	1
371 0034	Pin - cotter.....	4
300 8084	Bolt (cab).....	2
300 0081	Bolt (cab).....	8
392 0024	Lockwasher (cab).....	10
380 6024	Nut (cab).....	10
300 0123	Bolt (cab).....	2
392 0026	Lockwasher (cab).....	2
380 6026	Nut (cab).....	2
300 0041	Bolt (cab).....	2
392 0022	Lockwasher (cab).....	2
380 7022	Nut (cab).....	2
680 0206	Ass'y - right hand door stop.....	1
617 0407	Stop - right hand door.....	1
617 0106	Rubber - door stop.....	2
324 8064	Bolt.....	4
392 0014	Lockwasher.....	4
385 7013	Nut.....	4
399 8002	Washer.....	4

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

PART NO.	DESCRIPTION	QTY PER VEHICLE
		ALL MODELS
680 0207	Ass'y - left hand door stop.....	1
617 0105	Stop - left hand door.....	1
300 0001	Bolt.....	2
392 0019	Lockwasher.....	2
380 6019	Nut.....	2
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	Chain & rod - pull.....	2
617 0270	Rubber - pull rod & chain.....	2
362 9103	Bolt.....	2
681 0068	Ass'y - seat R.H. - L.H.....	2
617 0077	Seat - (frame only).....	2
114 0038	Pad - backrest cushion.....	2
517 0023	Leatherette - backrest cushion.....	2
617 0079	Cushion - seat (with leatherette).....	2
617 0087	Leatherette - cushion seat.....	2
300 0044	Bolt (seat to frame).....	4
380 7022	Nut (seat to frame).....	8

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

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

APRIL 1970.

BODY

MUSKEG "S" CARRIER

CARROSSERIE

PART NO.	DESCRIPTION	QTY PER VEHICLE	
		6 CYL.	8 CYL.
617 0021	Cowling - front (less cab).....	1	1
300 0081	Bolt.....	2	2
392 0024	Lockwasher.....	2	2
380 6024	Nut.....	2	2
300 0084	Bolt.....	2	2
392 0024	Lockwasher.....	2	2
380 6024	Nut.....	2	2
617 0147	Plate - transmission cover.....	1	1
300 0001	Bolt.....	2	2
392 0019	Lockwasher.....	2	2
380 6019	Nut.....	2	2
617 0129	Guard - steering lever front.....	1	1
300 0001	Bolt.....	2	2
392 0019	Lockwasher.....	2	2
380 6019	Nut.....	2	2
617 0110	Dash.....	1	-
617 0164	Dash.....	-	1
500 4003	Bolt.....	4	4
380 9019	Nut.....	4	4
300 0001	Bolt.....	2	2
391 0021	Flat washer.....	2	2
392 0019	Lockwasher.....	2	2
380 6019	Nut.....	2	2
617 0150	Guard - radiator top air.....	1	-
617 0396	Guard - radiator top air.....	-	1
617 0395	Guard - radiator bottom.....	-	1
300 0001	Bolt.....	2	4
392 0019	Lockwasher.....	2	4
617 0108	Grill - radiator.....	1	1
300 0045	Bolt.....	2	2
392 0022	Lockwasher.....	2	2
617 0171	Door - radiator top (with clamp).....	1	1
108 8003	Clamp.....	1	1
390 4021	Rivet.....	2	2
617 0172	Pin - hinge.....	2	2
371 0011	Pin - cotter.....	2	2
617 0125	Box - tool.....	1	1
300 0041	Bolt.....	3	3
392 0022	Lockwasher.....	3	3
380 7022	Nut.....	3	3
617 0126	Door - tool box.....	1	1
371 0123	Pin - cotter.....	1	1
617 0112	Door - right hand engine side.....	1	-
617 0114	Door - left hand engine side.....	1	-
617 0115	Door - left hand engine side.....	-	1
617 0113	Door - right hand engine side.....	-	1
617 0165	Door - engine top.....	-	1
617 0166	Pin - hinge.....	-	1
371 0011	Pin - cotter.....	-	1
321 6061	Bolt.....	4	4
617 0128	Cover - ventilator.....	2	-

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LITHO'D IN CANADA

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

APRIL 1970.

BODY

MUSKEG "S" CARRIER

CARROSSERIE

PART NO.	DESCRIPTION	QTY PER VEHICLE	CARROSSERIE
		6 CYL.	8 CYL.
392 0014	Lockwasher.....	4	-
385 7013	Nut.....	4	-
386 3019	Nut - wing.....	4	4
617 0073	Cap - drain plug.....	2	2
670 1704	Rubber - drain plug.....	2	2
617 0074	Screw - drain plug.....	2	2

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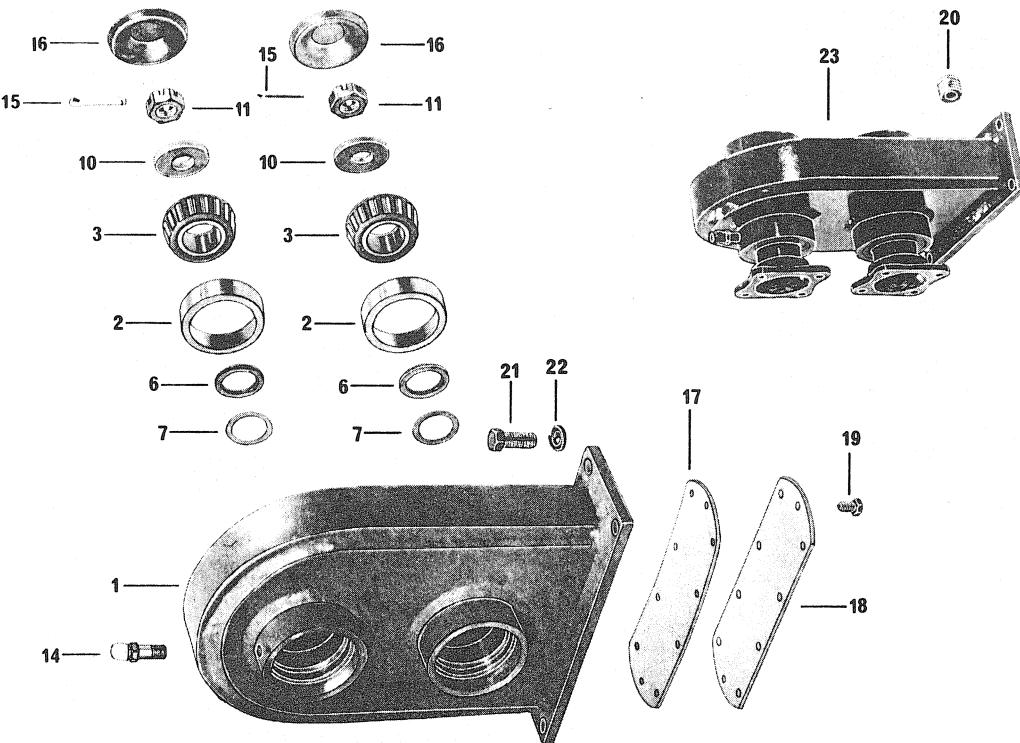
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1st MODEL (ISSUE 1)

APRIL 1970.

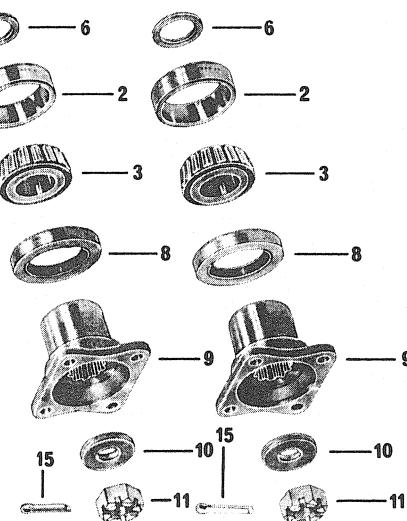
TRANSFER CASE

MUSKEG "S" CARRIER

BOITIER DE TRANSFERT



SPEED REDUCER
REDUCTEUR DE VITESSE



TRANSFER CASE

MUSKEG "S" CARRIER

BOITIER DE TRANSFERT

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
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 (36 teeth).....	1
5	623 0013	Gear - drive (44 teeth optional)...	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 (57 teeth).....	1
13	623 0024	Gear - driven (49 teeth optional) ..	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 (ratio 1.6 to 1).....	1
23	680 0035	Ass'y - speed reducer (ratio 1.1 to 1 (optional).....	1

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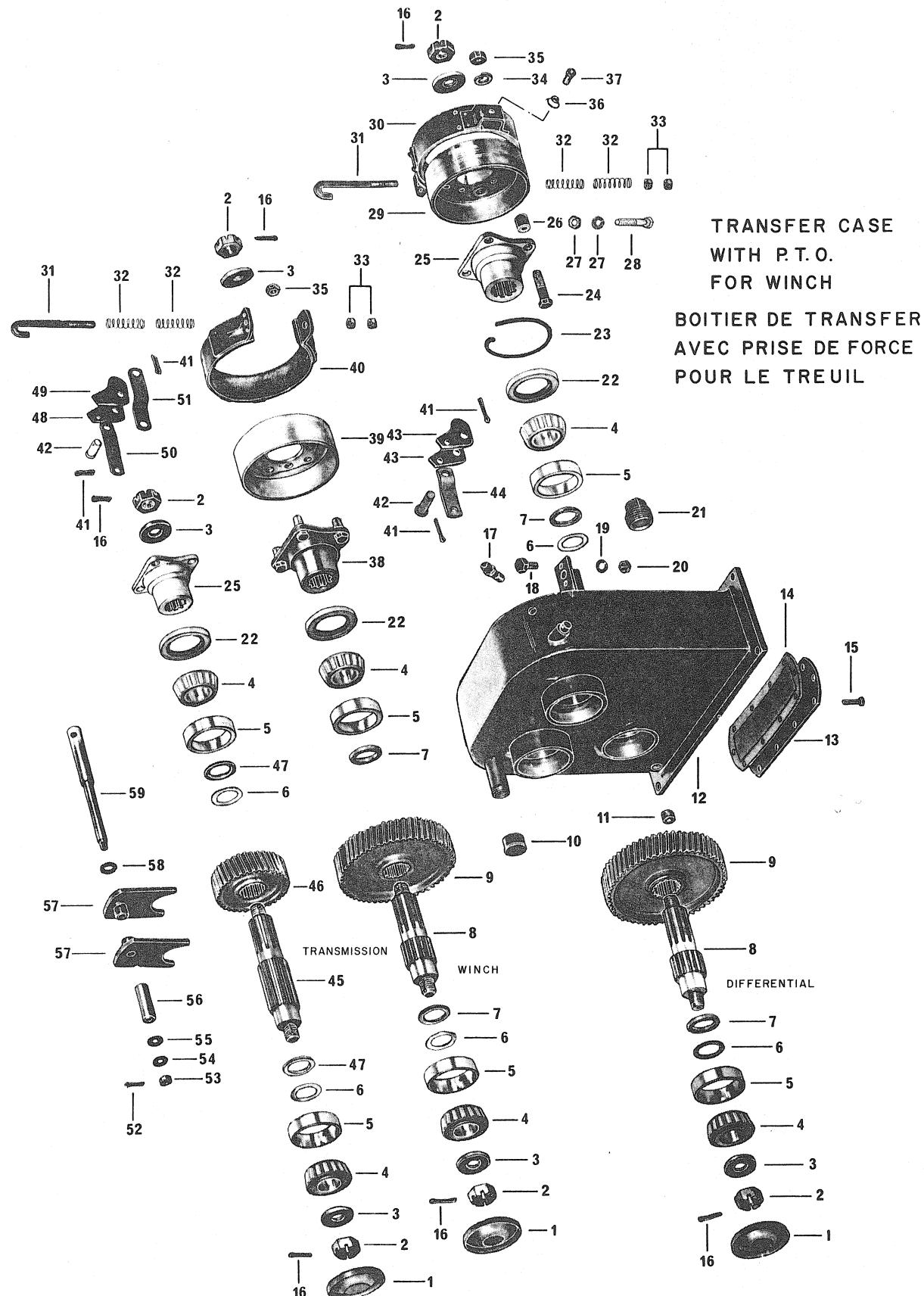
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 SECTION 23/2 - 1st PRINT
 1st MODEL (ISSUE 1)

APRIL 1970.

TRANSFER CASE

MUSKEG "S" CARRIER

BOITIER DE TRANSFERT



LITHO'D IN CANADA

BOMBARDIER LTD/LTEE
SECTION 23/3 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSFER CASE

MUSKEG "S" CARRIER

BOITIER DE TRANSFERT

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
	680 0033	Ass'y - transfer case standard.....	1
	680 0269	Ass'y - transfer case (less drum for winch).....	1
	680 0145	Ass'y - transfer case (double out put on auxiliary shaft).....	1
	680 0292	Ass'y - transfer case (double out put on trans. shaft).....	1
	680 0293	Ass'y - transfer case (double out put on trans. & auxiliary shaft)...	1
1	632 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
8	601 0055	Shaft - double out driven gear.....	1
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 2003	Flange - winch brake drum.....	1
39	660 4008	Drum - brake.....	1
40	660 4009	Band & lining brake.....	1
41	371 0031	Pin - cotter.....	4

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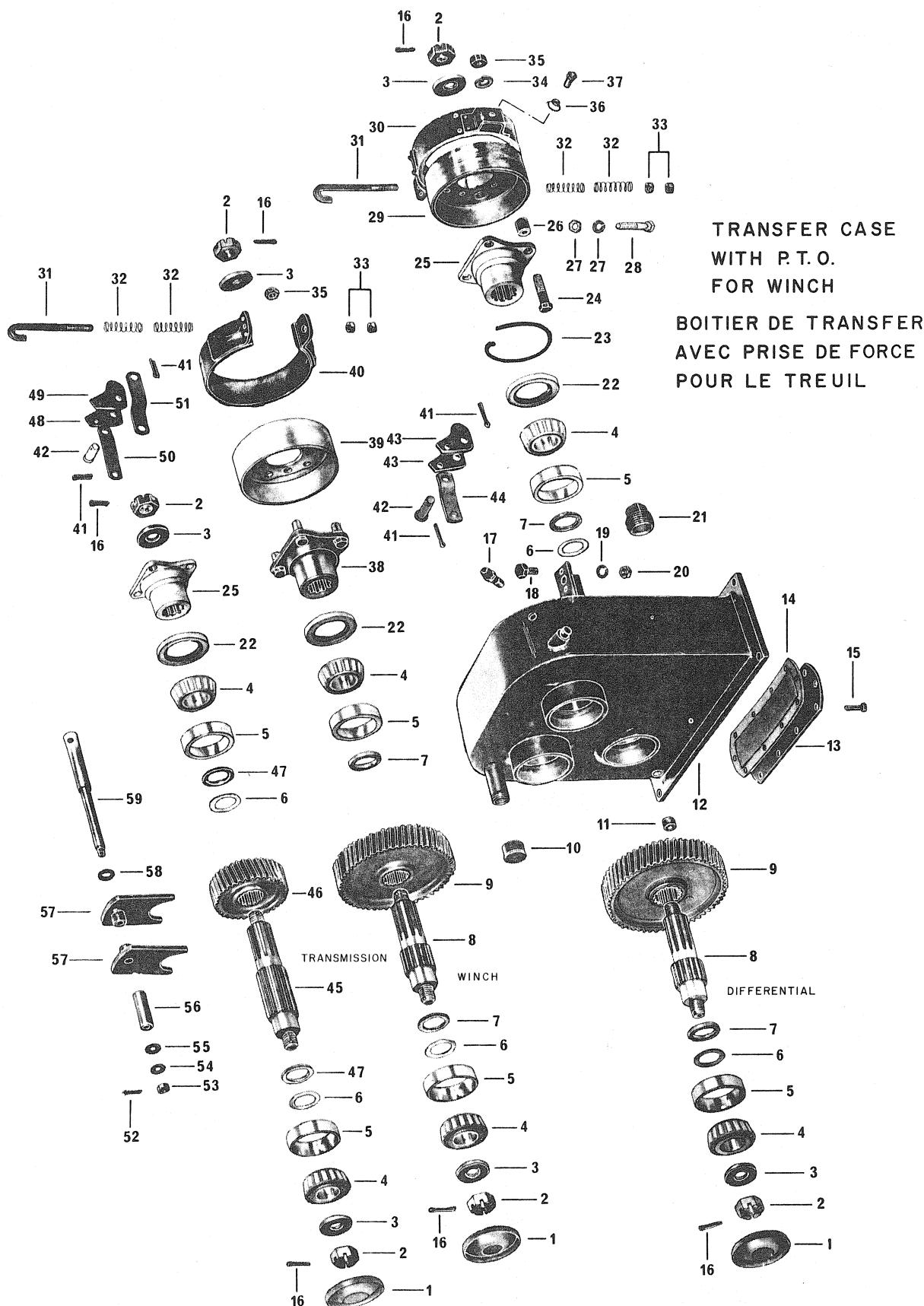
SECTION 23/4 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

TRANSFER CASE

MUSKEG "S" CARRIER

BOITIER DE TRANSFERT



LITHO'D IN CANADA

BOMBARDIER LTD/LTÉE
 SECTION 23/5 - 1st PRINT
 1st MODEL (ISSUE 1)

APRIL 1970.

REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
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
45	623 0035	Shaft - double out driven gear.....	1
46	623 0012	Gear - drive.....	1
47	623 0036	Spacer.....	2
48	101 2003	Cam - lever brake.....	1
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

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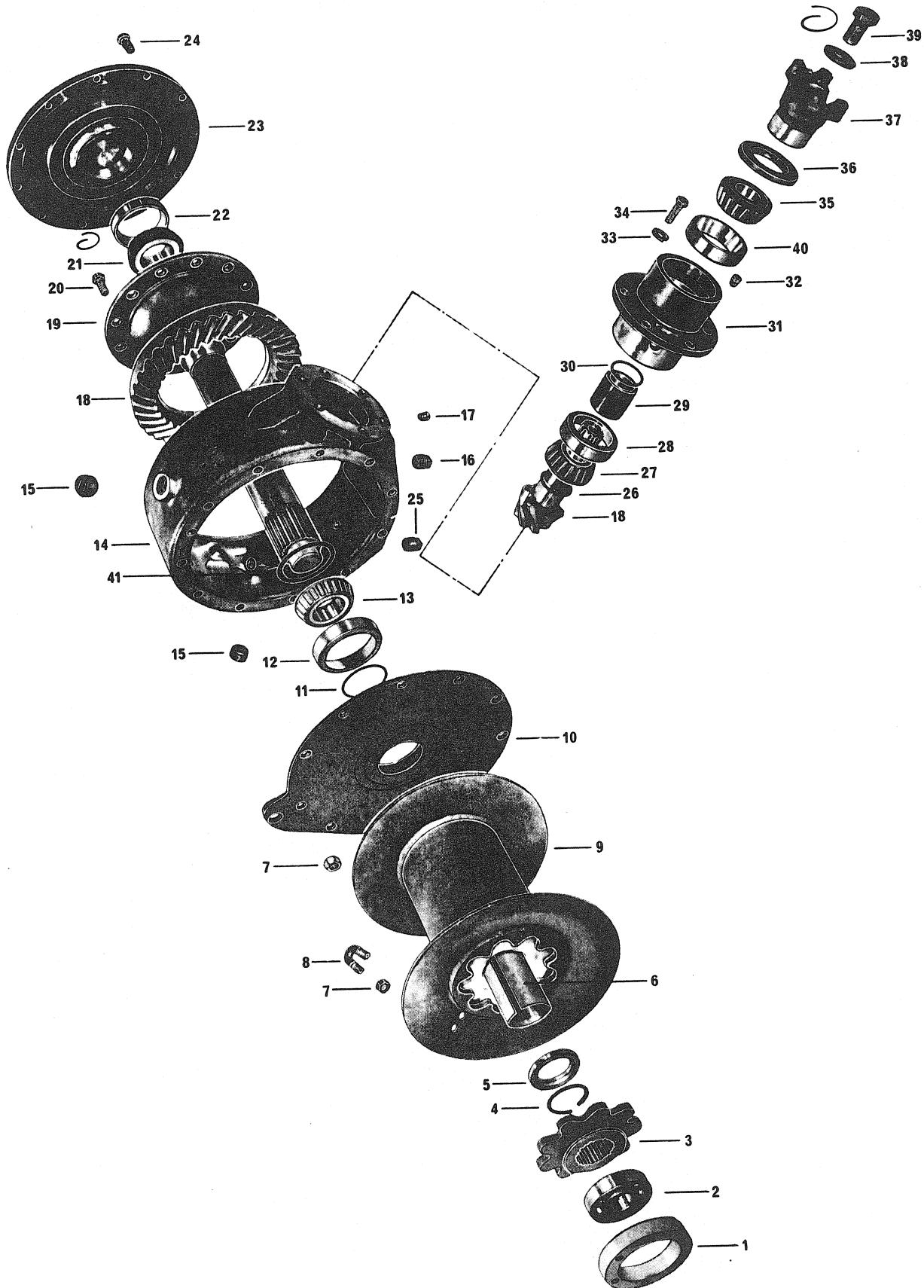
SECTION 23/6 - 1st PRINT
1st MODEL (ISSUE 1)

APRIL 1970.

WINCH

MUSKEG "S" CARRIER

TREUIL



REF. NO.	PART NO.	DESCRIPTION	QTY PER VEHICLE
			ALL MODELS
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	Lockwire - 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" N.P.T.....	2
16	108 7061	Plug - 1/8" N.P.T.....	1
17	108 0012	Plug - 1/4" N.P.T.....	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" N.P.T.....	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" CARRIER

OUTIL

PART NO.	DESCRIPTION	QTY PER VEHICLE
		ALL MODELS
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 1006	Manual - parts & operators (bombardier)...	1

LITHO'D IN CANADA

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

APRIL 1970.

DECAL

MUSKEG "S" CARRIER

DECALQUE

PART NO.	DESCRIPTION	QTY PER VEHICLE ALL MODELS
180 5001	Bombardier (sprocket).....	1
114 0128	Bombardier.....	1
114 0122	Muskeg.....	1
114 0125	"S".....	1
114 0084	Plate - identification.....	1

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MISCELLANEOUS 1 - 1st PRINT
(ISSUE 1)

APRIL 1970.

HOSE CLAMP

MUSKEG "S" CARRIER

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.....

BOMBARDIER LTD/LTEE

LITHO'D IN CANADA

MISCELLANEOUS 2 - 1st PRINT
(ISSUE 1)

APRIL 1970.

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' center line
Fording depth	30"

DRIVE TRAIN

Brake	Drum on drive shaft.
Suspension	Flexible with tandem arms that 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 wire.
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
Speed Reducer	Ratio 1.58 to 1
Differential	Controlled type ratio 5.83 to 1
Clutch	Single disc, dry 12".
Transmission	3-speed forward 1 reverse or 4-speed forward 1 reverse
Engine	Chrysler V-8 Ind. 318 or 6 cyl. 251.
Transfer case	Ratio 1.58 to 1

GENERAL INFORMATION

DATA PLATE

This plate is located to 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...

INDEX

	PAGE NO.	PAGE NO.	
A			
Accelerator.....	17	Dimmer switch.....	4
Accelerator.....	5	Disassemble differential assembly.....	18
Access to differential.....	18	Drive pinion gear inspection...	20
Adjustment of the clutch rods.	17	Drive sprocket.....	14
Adjustemnt of the control levers.....	17	Drive train.....	1
Adjustment of the tracks.....	15	Driving.....	12
Adjustment of wheel bearings..	17		
Alternator.....	7		
Ammeter.....	3		
Assemble the drive pinion....	22	Electrical system.....	7
Assemble and install steering brake drum.....	22	Electrical system.....	13
		Electrical system.....	14
		Engine.....	13
		Engine.....	14
		Every 100 hours.....	11
		Every 300 hours.....	11
B			
Battery.....	7		
Brake.....	1		
Brake.....	5		
Brake.....	17		
Brake drum gear bushing re- placement.....	19		
C			
Check crown gear and pinion backlash.....	22		
Clutch.....	5		
Controls.....	3		
Control system.....	13		
Control system.....	14		
Coolant recommendations.....	8		
Cooling system.....	8		
Cooling system.....	13		
Crown gear replacement.....	19		
D			
Daily recommendations. Every 10 hrs.....	11		
Data plate.....	2		
Differential.....	11		
Differential assembly inspec- tion.....	18		
Differential case center bushing replacement.....	19		
Differential reassembly.....	20		
Dimensions.....	1		
E			
Fan belt.....	8		
Flooded engine.....	12		
Fuel.....	6		
Fuel.....	9		
Fuel gauge.....	3		
F			
4-speed gearshift (BOMBARDIER winch).....	6		
4-speed gearshift lever.....	5		
3-speed gearshift.....	6		
General.....	1		
General.....	13		
General information.....	2		
G			
Heater and defroster switch (optional).....	3		
Hour-meter.....	3		
H			
Ignition switch.....	3		
Install the axle to differential pinion - gear in the differential case.....	20		
I			

	PAGE NO.		PAGE NO.
Install center case in differential case.....	20	Spark plugs.....	7
Install differential pinion gears.....	20	Speed reducer.....	6
Install planetary gears.....	21	Speedometer.....	4
Install upper part of differential case.....	21	Starter button.....	3
Installation of differential axles.....	15	Starting procedure.....	12
Instructions for repairing the differential assembly.....	18	Steering.....	5
Instrument panel.....	4	Steering brake drum repair.....	20
 L		Suspension.....	13
Light switches.....	3	Suspension.....	14
Lubricant chart.....	10	 T	
Lubrication.....	11	Tachometer.....	4
 M		Technical vehicle information..	3
Maintenance and repairs.....	13	Temperature gauge.....	3
Method of draining motor and radiator.....	9	Thermostat.....	9
MUSKEG "S" specifications.....	1	To reinstall the track.....	15
 O		Track.....	13
Oil pressure gauge.....	3	Tracks.....	14
Operating instructions.....	12	Track removal.....	14
Operating levers.....	5	 W	
Owner responsibility.....	2	Weekly lubrication.Every 50 hrs	11
 P		Wheels and tires.....	13
Performance.....	1		
Pre-delivery service.....	2		
Pre-start check.....	12		
 R			
Radiator.....	8		
Recommendations for weekly check-ups.....	14		
Repairs.....	14		
Replacement of sprockets.....	15		
Replacement of wheels or tires	16		
 S			
Safety tips.....	6		

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