

AUTO-NEIGE



SNOWMOBILE

**MANUEL
DU CONDUCTEUR**

ET LISTE DE PIÈCES DE
RECHANGE



**OPERATOR'S
MANUAL**

AND SPARE PARTS LIST

FABRIQUÉ PAR

MANUFACTURED BY

BOMBARDIER SNOWMOBILE LIMITED

L'AUTO-NEIGE BOMBARDIER LIMITÉE

VALCOURT, QUÉBEC - CANADA

**MANUEL
DU CONDUCTEUR
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MANUAL**

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**BOMBARDIER SNOWMOBILE LIMITED
L'AUTO-NEIGE BOMBARDIER LTÉE**

VALCOURT, QUEBEC

CANADA

GENERAL SPECIFICATIONS

Weight and Dimensions

Total length	17'8"
Total width	74"
Height	79"
Weight	4,500 lbs
Width center to center of tracks	58"
Road clearance	13"

Performance

Maximum speed	45 M.P.H.
Cruising speed	25 - 30 M.P.H.
Ground bearing area (approx)	4,200 sq. inch
Ground pressure (approx.)	1 lb. per sq. inch
Capacity	15 passengers or 2,500 lbs.

Engine

Make	Chrysler Ind. 313
Horse Power	188 H.P. at 4,000 R.P.M.
Number of cylinders	8
Bore	3.88"
Stroke	3.31"
Battery	12 volts
Generator	30 Amp.
Clutch	Single disc - dry
Transmission	3 forward, 1 reverse
Differential ratio	4.1 to 1

Track & Suspension

Track type	Rubber belts with steel cross links
Track belt	Endless, rubber and fabric reinforced with steel cable
Tires	4.50 x 16 — 4 plies
Rear suspension	8 independent wheels
Front suspension	Skis and adaptable wheels
Ski dimensions	60" x 12"

Frame & Body

Frame	Toboggan type entirely enclosed
Body	All steel

Miscellaneous

Fuel tank capacity	13 imp. gals.
Cooling system capacity	4 imp. gals.
Crankcase capacity	1 imp. gal.
Oil filter capacity	1 qt. imp.
Differential capacity	2 1/2 qts. imp.
Transmission HD	3 pints imp.

PRINCIPALES CARACTÉRISTIQUES

Poids & Dimensions

Longueur totale	17'8"
Largeur totale	74"
Hauteur	79"
Poids	4,500 lbs.
Largeur centre à centre des chenilles	58"
Chassis au sol	13"

Rendement

Vitesse maximum	45 M.H.
Vitesse de route	25 à 30 M.H.
Surface portante (approx.)	4,200 po. car.
Pression au sol (approx.)	1 lb. par po. car.
Capacité	15 passagers ou 2,500 lbs

Moteur

Marque	Chrysler Ind. 313
Puissance	188 C.V. à 4,000 T/M.
Nombre de cylindres	8
Alésage	3.88"
Course	3.31"
Batterie	12 volts
Génératrice	30 Amp.
Embrayage	Disque unique, sec.
Transmission	3 vitesses avant, 1 arrière
Rapport du différentiel	4.1 à 1

Voie et Suspension

Chenilles	Courroies de caoutchouc et maillons croisés en acier.
Courroies de chenilles	Sans fin, caoutchouc et canevas, renforcées de câbles d'acier.
Pneus	4.50 x 16 — 4 plis
Suspension arrière	8 roues indépendantes
Suspension avant	Skis et roues adaptables
Dimensions des skis	60" x 12"

Chassis et carrosserie

Chassis	Genre toboggan entièrement fermé
Carrosserie	Tout acier

Divers

Capacité du réservoir de carburant	13 gals imp.
Capacité du système de refroidissement	4 gals imp.
Capacité du carter	1 gal. imp.
Capacité du filtre d'Huile	1 pi. imp.
Capacité du différentiel	2 1/2 pi. imp.
Transmission HD	3 chopines.

OPERATION

General Information

The attention given to the maintenance and lubrication of the snowmobile determines to a large extent its performance and efficiency. It is important that the information and recommendations given in this manual be studied and followed.

The various models of snowmobiles all have the same general characteristics. The chassis is of the toboggan type and the principal mechanical parts are inside, sheltered from snow and ice. The rear suspension has coil springs and independent wheels which assure an even distribution of the load and contributes to the comfort of the passengers even on rough roads. The front suspension is also on coil springs with shock absorbers assuring riding comfort together with easy and positive driving.

Instrument Panel

The instrument panel comprises the following items: the ignition switch, the headlight switch, the ammeter, temperature gauge, speedometer, oil pressure gauge, fuel gauge, windshield wiper switch, dome light switch, heater switch and starter switch.

Control

The control parts are the following: clutch pedal, brake pedal, accelerator pedal, dimming light switch, and gearshift lever.

Starting the Engine

Place the transmission gearshift lever in neutral and depress the clutch pedal to release the engine of the transmission load. Turn the ignition key to the right and press on the starter switch. After the engine has started, let it run a few minutes at idle speed, so that all the moving parts will be properly lubricated before running the engine under load. Check all the gauges before moving off.

When the temperature is extremely cold, use grade 5W engine oil in the crankcase.

The door at the rear of the snowmobile is for controlling the air which is drawn through the radiator to cool the engine. When fully opened, it gives maximum cooling. When the temperature is extremely cold, it can be adjusted so that the engine will be maintained at normal operating temperature.

OPÉRATION

Information Générale

L'attention apportée à l'entretien et à la lubrification de l'auto-neige détermine, dans une grande mesure son rendement et son efficacité. Il est important que les informations et les recommandations données dans ce manuel soient étudiées et suivies.

Les différents modèles d'auto-neige ont les mêmes caractéristiques générales. Le chassis est du genre traîneau et les principales pièces mécaniques sont à l'intérieur et à l'abri des intempéries. La suspension arrière, avec ressorts en spiral et roues indépendantes, assure une égale distribution de la charge et contribue au confort des passagers, même sur les routes raboteuses. La suspension avant est également sur ressorts en spiral avec amortisseurs de chocs assurant solidité et confort tout en permettant une conduite facile et positive.

Tableau de Bord

Le tableau de bord comprend les item suivants: clé d'allumage, commutateur de lumières avant, ampèremètre, jauge de température, indicateur de vitesse, jauge de pression d'huile, jauge de carburant, commutateur de l'essui-glace, commutateur de la lumière intérieure, commutateur de la chaufferette, commande du démarreur.

Contrôle

Les appareils de contrôle sont les suivants: pédale de débrayage, pédale du frein, pédale de l'accélérateur, interrupteur pour phares de rencontre et levier de contrôle de la boîte de vitesses.

Mise en marche du Moteur

Le levier de contrôle de la boîte de vitesses doit être au point mort, et la pédale de débrayage pressée pour enlever la charge de la boîte de vitesses sur le moteur. Tournez la clé d'allumage et pressez sur la commande du démarreur. Lorsque le moteur est en marche, il doit être laissé au ralenti pour quelques minutes afin que les pièces soient suffisamment lubrifiées avant d'accentuer la vitesse du moteur. Vérifiez tous les instruments et jauge avant de mettre le véhicule en marche.

Lorsque la température est extrêmement froide, employez de l'huile d'une viscosité 5W dans le moteur.

La porte arrière de l'auto-neige contrôle la circulation de l'air à travers le radiateur et doit être tirée à l'extrémité arrière pour obtenir le meilleur refroidissement. Lorsque la température est extrêmement froide, la porte arrière peut être ouverte plus ou moins pour que le moteur soit maintenu à une température normale.

The life of an engine depends to a large extent on the care it receives during the first 500 to 1,000 miles of operation. A new engine has very close fitting parts and a thin film of lubricant prevents excessive wear on the moving parts. Driving a new engine at high speed will create an extremely high temperature on the frictional surfaces with the danger of breaking down this oil film between the moving parts and causing permanent damage to the engine. It is therefore important not to drive in excess of 18 to 20 miles an hour for the first 500 miles of operation.

During the next 1,000 miles, the speed may be gradually increased after which it can be run at maximum speed.

Operation & Driving

The ratio between the engine and the tracks being considerably reduced, second speed can ordinarily be used to put the vehicle in motion, except on steep grades. Driving a snowmobile is somewhat different from driving an automobile. On soft surfaces, it does not present any difficulties. However, on hard surfaces, such as ice or cement, turning is more difficult. To make a turn on such surfaces, approach the turn at a moderately high speed, turn the skis in the required direction and release the accelerator pedal suddenly; by doing so, the compression of the engine will act as a brake bringing more weight to bear on the skis; the runner shoes will bear more heavily against the asperities of the surface and will help to make the desired turn.

To cross a difficult place, gear down so as to have plenty of power in reserve as steady movement without the momentary halt necessary for gear changing is preferable as it reduces the risk of spinning the tracks in the snow. If the tracks start spinning, release the accelerator somewhat and this may enable the snowmobile to cross without further spinning. If the tracks continue to spin, do not wait till they start digging in the snow but back up and start over.

Changing gear is done easily. If shifting is difficult, check the adjustment of the clutch pedal or the control rods of the gearshift lever.

Changing from skis to wheels on the front suspension can be done quite rapidly if the instructions given below are followed. Jack up the front part of the vehicle until the skis are about one inch above the ground. Remove the spindle nut and washer and the bolts which are at the top of the ski bracket. The ski and support bracket can then be removed in one piece. Install the wheel, the bearings, the nut and adjust the bearings.

La durée d'un moteur dépend pour une grande part du soin qu'il reçoit durant les premiers 500 à 1,000 milles d'usage. Les pièces mobiles d'un moteur neuf ont très peu de dégagement entre elles et un très mince filet de lubrifiant prévient l'usure excessive des pièces lorsqu'elles sont en mouvement. Un moteur neuf qui opère à haute vitesse développe une très haute température sur les surfaces où il y a de la friction et il peut en résulter que le film d'huile sur les pièces en mouvement se brise occasionnant un dommage permanent au moteur. Il est important de ne pas conduire l'appareil à une vitesse au dessus de 18 - 20 milles à l'heure jusqu'à ce que le véhicule ait parcouru les premiers 500 milles.

Pendant les 1,000 milles suivants, la vitesse peut être augmentée graduellement après quoi la vitesse maximum peut être atteinte.

Opération et Conduite

Le rapport du moteur aux chenilles étant considérablement réduit, la deuxième vitesse est ordinairement employée pour mettre le véhicule en marche, excepté sur une pente accentuée. La méthode de conduite d'un auto-neige est quelque peu différente de celle d'une automobile. Sur des surfaces molles, elle n'offre aucune difficulté, cependant sur des surfaces dures telles que la glace ou le ciment, le virage est un peu plus difficile. Pour effectuer un virage sur de telles surfaces, tournez les skis et relâchez soudainement l'accélérateur. La compression du moteur agit alors comme frein ce qui a pour effet de reporter plus de poids sur les skis. La lisse du ski appuiera plus fortement contre les aspérités de la surface et aidera à effectuer le virage désiré.

Pour traverser un endroit difficile, se rendre compte en premier lieu de la nature du terrain à traverser et changer de vitesse avant de tenter de le traverser afin d'avoir une bonne réserve de puissance. L'endroit pourra ensuite être traversé sans perdre trop de vitesse et cela diminuera le risque de faire glisser les chenilles dans la neige. Si les chenilles commencent à glisser, relâchez l'accélérateur un peu, ce qui dans certains cas permettra à l'auto-neige de traverser l'obstacle sans glisser davantage. Si le glissement continue, ne pas attendre que les chenilles creusent dans la neige mais reculer et recommencer.

Le changement de vitesse se fait sans employer beaucoup de force. S'il est difficile, vérifiez l'ajustement du disque d'embrayage ou les tiges de contrôle de la boîte de vitesses.

Le changement du ski aux roues sur la suspension avant de l'auto-neige est une opération rapide si les instructions données plus bas sont suivies. Lorsqu'un cric est disponible, soulevez la partie avant du véhicule jusqu'à ce que le ski soit éloigné d'un pouce du plancher. Enlevez l'écrou de l'essieu, les rondelles ainsi que les boulons installés au support supérieur. Le ski et support pourront ensuite être enlevés d'une seule pièce. Installez la roue, les coussinets, rondelles et ajustez les coussinets.

MAINTENANCE INSTRUCTIONS

To obtain the maximum efficiency from a snowmobile, it is necessary to inspect it every day it is in operation. By doing so, any minor defects may be discovered and corrected before they result in serious damage or failure. We give in this booklet our recommendations for daily and weekly check ups and a lubrication schedule. We strongly recommend that these instructions be studied and followed by the operator of the snowmobile.

Ski & Front Suspension

To replace the runner shoe part no. B-1001, jack up the front of the snowmobile, remove the nuts which hold the runner shoe and remove the worn runner shoe front end first. Install the new runner shoe rear end first and by tightening the nut the front end will come in position. Install the nut on the front end and tighten it. When a runner shoe is replaced, it is time to check the condition of the ski assembling bolts, tighten them or replace them if necessary.

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

Installation and Adjustment of the Tracks

The installation of a track can be made as follows:

A/ Loosen the adjusting screw nut and tube leaving only about four threads on the adjusting screw.

B/ Install the track on the sprocket gear first. Jack up the rear part of the snowmobile until all the wheels are off the ground; install the track on the top of all the wheels and force it over the rear wheel to slide it in position. To remove the track, release the adjusting screw and pull the track off the rear wheel.

Each track is adjustable independently by means of a screw, which operates the adjuster unit of the rear wheel. To obtain the correct tension of the track, loosen the adjusting screw lock nut and with an open end wrench of 1-5/16" or an adjustable wrench, tighten or loosen the adjusting screw to obtain the proper tension of the track, which is correct when the track can be raised by hand about 2" to 3" above the second wheel from the front.

If the track is too tight, it will cause premature wear of the sprocket. If the track is not tight enough, it may fall down when making a sharp turn. After the tracks have been adjusted, lock the adjusting screw nut with a wire.

INSTRUCTIONS D'ENTRETIEN

Pour obtenir le maximum de rendement, il est nécessaire que l'auto-neige soit inspecté chaque jour qu'il est en opération. Ainsi, toute défectuosité pourra être découverte et réparée avant qu'il en résulte de sérieux dommages. Nous donnons dans ce volume les recommandations pour vérifications quotidiennes et hebdomadaires et une cédule de lubrification. Il est fortement recommandé que ces instructions soient conservées et suivies par l'opérateur de l'appareil.

Skis et Suspension avant

Pour remplacer la lisse ronde no de pièce B-1001, soulevez le devant de l'auto-neige à l'aide d'un cric, enlevez les écrous qui retiennent cette lisse et otez la lisse à remplacer. Placez la lisse neuve le bout arrière le premier et en serrant l'écrou le bout avant viendra en place. Posez l'écrou avant et serrez solidement. Quand la lisse ronde est remplacée, il est temps de vérifier les boulons du ski, les serrer ou les remplacer si nécessaire.

Pour démontrer le ressort avant, les amortisseurs en caoutchouc doivent être enlevés. La pièce de support atteindra ainsi son point le plus bas et le ressort pourra être enlevé en établissant une pression avec une barre de fer. Pour l'installation, renversez l'opération afin de remettre le ressort avant en position.

Installation et Ajustement des Chenilles

L'installation de la chenille peut se faire comme suit:

A/ Desserrez l'écrou et tube de la vis d'ajustement no de pièce A-4112, ne laissant environ que quatre filets vissés à la vis d'ajustement.

B/ Installez la chenille sur l'engrenage de la roue de commande, levez ensuite la partie arrière de l'auto-neige jusqu'à ce que les roues soient soulevées de terre; installez la chenille sur le dessus de toutes les roues et forcez-la par-dessus la roue arrière pour la glisser en position. Pour enlever la chenille, démontez complètement l'écrou et tube de la vis d'ajustement et tirez la chenille en bas de la roue arrière.

Chaque chenille est ajustable indépendamment au moyen d'une vis qui actionne l'unité d'ajustement de la roue arrière. Pour obtenir la tension voulue, enlevez la barre de l'écrou de la vis d'ajustement, employez une clé ouverte de 1-5/16" ou une clé ajustable, serrez ou desserrez pour obtenir la tension voulue de la chenille qui est normale quand elle peut être soulevée à la main de 2 à 3" au-dessus de la deuxième roue avant.

Wheel Bearings

To adjust the wheel bearings, rotate the wheel while tightening the axle nut until it becomes hard to turn, to be sure the bearings are tight. Then back off the axle nut $\frac{1}{4}$ of a turn and install the cotter pin. When the vehicle is jacked up, the bearings of the first three wheels can be adjusted easily. To adjust the bearings of the rear wheel, the track has to be removed in order to make a perfect adjustment.

Bogie Spindles and Springs

The bogie spindles with roller bearings are installed on cross tubes which support the rear suspension. These parts do not require much attention except lubrication and inspection. The springs are in a cage and do not require maintenance; an excessive shock or impact only may damage them. When the snowmobile is operated in slush and the temperature is below freezing point, ice may build up on the springs or on the rear suspension parts. Break off this ice, so that it will not impair the efficiency of the vehicle and cause friction on the tires.

Tires

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

Steering Mechanism

To adjust the alignment of the skis:

A/ Place the skis in a parallel position with the snowmobile.

B/ The front end of the skis should be $\frac{1}{4}$ " closer to each other than the rear end.

C/ The adjustment is made by the tie rod ends.

When the wheels are installed instead of the skis, the front part of the tires should be $\frac{1}{8}$ " closer together than the rear part.

Engine and Exhaust System

The details regarding the maintenance of the engine are given in the manual supplied by the manufacturer.

The mufflers and exhaust outlets of the snowmobile are on each side. Make a frequent check of these parts as well as the exhaust pipe gasket in order to be sure that everything is in perfect condition.

Une chenille trop tendue causera l'usure prématuée de la roue de commande. Si la chenille n'est pas serrée suffisamment, elle peut tomber lorsque l'auto-neige exécute un tournant brusque.

Lorsque les chenilles sont réajustées, barrez l'écrou de la vis d'ajustement.

Coussinets des Roues

Pour ajuster les coussinets des roues, faites tourner la roue en serrant l'écrou de l'essieu jusqu'à ce que la roue devienne difficile à tourner afin d'être assuré que les coussinets sont serrés. Reculez l'écrou de l'essieu de $\frac{1}{4}$ de tour et installez la goupille. Quand le véhicule est soulevé sur un cric, les coussinets des trois premières roues avant peuvent être ajustés facilement. Pour la roue arrière, il est préférable d'enlever la chenille pour compléter un ajustement parfait.

Essieu Coudé et Ressort

Les essieux coudés avec coussinets à rouleau sont installés sur des tubes transversaux supportant la suspension arrière. Ces pièces ne nécessitent que très peu d'attention excepté le graissage et l'inspection. Les ressorts sont dans une enveloppe et ne requièrent aucun entretien. Un choc abusif seulement peut les endommager. Lorsque l'auto-neige est employé dans une neige mélangée d'eau par une température en bas du point de congélation, de la glace peut se former autour du ressort et des pièces de suspension arrière. Il est alors nécessaire de briser et enlever cette glace qui peut nuire au rendement du véhicule et causer une friction sur les pneus.

Pneus

Pour la réparation et le remplacement des pneus, il est possible d'enlever les 3 roues avant de la suspension arrière quand le véhicule est soulevé; pour la roue arrière, il est nécessaire d'enlever la chenille.

Mécanisme de Conduite

Pour ajuster l'alignement des skis:

A/ Placez les skis en position parallèle avec l'auto-neige.

B/ La partie avant des skis doit être $\frac{1}{4}$ " plus rapprochée que l'extrémité arrière.

C/ L'ajustement est fait par le bout des tiges d'accouplement.

Lorsque les roues sont installées à la place des skis, la partie avant des pneus doit être de $\frac{1}{8}$ " de plus rapprochée que la partie arrière.

Clutch & Brake

The clutch system is inside the vehicle underneath the floor board. The adjustment of the clutch rod is made by means of nuts near the engine. It should be checked and adjusted if necessary from time to time to assure a free play of $\frac{3}{4}$ to 1" on the clutch pedal.

The snowmobile is equipped with a mechanical brake. It operates on the propeller shaft and is entirely inside the vehicle protected from snow and ice. The adjustment is made by a nut on the brake band.

Transmission and Propeller Shaft

The transmission is operated by means of rods from the controls at the front of the vehicle going to the transmission. This system is adjustable by means of clevises and adjusting nuts. Gearshifting is done by means of a control rod and a selector rod. If shifting is difficult, the adjustment of the rods can be checked at the following points:

A/ At the selector rod at the bottom of the mast jacket.

B/ At the selector rod by means of adjusting nuts on the cross shaft of the gearshift system. (At the front of the snowmobile).

C/ At both ends of the control rods by means of clevises.

Check the following points and adjust if necessary:

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

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

Differential

In a snowmobile the differential is sheltered from the usual coolant such as water, snow and fresh air, which ordinarily cool the differential of a standard motor vehicle. For this reason more attention should be given to the differential when the vehicle is used for extremely heavy duty work. To drain the differential, remove the bottom bolt of the housing cover.

Electrical

Details regarding the electrical accessories of the engine are given in the manual supplied with each vehicle.

Moteur et Système d'échappement

Les détails relatifs à l'entretien du moteur sont donnés dans le manuel fourni par le manufacturier.

Les silencieux et les tuyaux d'échappement sont de chaque côté du véhicule. Nous recommandons une vérification assez fréquente du système des silencieux ainsi que des rondelles d'étanchéité afin d'être assuré que le tout est en condition parfaite.

Disque d'embrayage et Freins

Le système d'embrayage est installé à l'intérieur du véhicule en dessous du plancher. L'ajustement des tiges se fait par les écrous installés à cette fin près du moteur. Une vérification de l'ajustement doit être faite de temps à autre pour assurer un libre jeu de $\frac{3}{4}$ " à 1" sur la pédale de débrayage.

Le système de frein employé sur l'auto-neige est mécanique. Il fonctionne sur l'arbre de commande et est entièrement à l'intérieur du véhicule protégé de la neige et de la glace. L'ajustement se fait par un écrou.

Transmission et Arbre de Commande

La boîte de vitesses employée dans l'auto-neige Bombardier est opérée au moyen de tiges partant de la boîte de vitesses jusqu'aux contrôles à l'avant de l'appareil. Ce système est ajustable au moyen de chapes et d'écrous d'ajustement. Le changement de vitesses est effectué par une tige de contrôle et une tige sélectrice. Si le changement est difficile, il faudra vérifier l'ajustement des tiges aux endroits suivants:

A/ A la tige sélectrice au bas de la colonne de conduite.

B/ A la tige sélectrice au moyen d'écrous d'ajustement sur l'axe du système de débrayage (à l'avant de l'auto-neige).

C/ Aux deux extrémités de la tige de contrôle du changement de vitesse au moyen de chapes.

Faites la vérification suivante et ajustez si nécessaire:

A/ Quand la transmission est en deuxième vitesse, la tige sélectrice doit avoir un libre jeu de $1/16$ ". Si nécessaire serrez ou desserrez l'écrou de la tige sélectrice au bas de la colonne de conduite ou les écrous sur l'axe du système de débrayage.

B/ L'ajustement de la tige de contrôle est à point quand la transmission est en vitesse arrière et un libre jeu de $1/16$ " existe entre le tube de l'arbre de conduite et la tige et douille du levier du changement de vitesses.

Protecting the Engine during Storage

In order to prevent the formation of rust inside the engine when the snowmobile is not used for a period exceeding one month, follow the recommendations given below:

A/ Remove the air filter from the carburetor. Run the engine until normal operating temperature is reached. With the engine running at fast idle, pour slowly one pint of rust preventive lubricant in the carburetor air intake. The speed of pouring should be sufficient to slow down the engine speed slightly, but without stalling it. The addition of rust preventive lubricant in this manner should take approximately one minute.

B/ Provide adequate ventilation while introducing the rust preventive as considerable smoke will be exhausted.

C/ Stop the engine as soon as the rust preventive has been added.

MEMO

Différentiel

Dans l'auto-neige le différentiel est à l'abri de l'eau, de la neige ou de l'air frais qui refroidissent le différentiel d'un véhicule moteur ordinaire. Pour cette raison plus d'attention doit être donnée à cette pièce quand le véhicule est employé pour un travail extrêmement dur. Pour vider le différentiel, il est nécessaire d'enlever le boulon au bas du couvercle de l'enveloppe.

Électricité

Les détails relatifs aux accessoires électriques du moteur sont donnés dans le manuel inclus ou fourni avec chaque véhicule.

Soins à donner au Moteur durant entreposage prolongé

Pour éviter la formation de rouille à l'intérieur du moteur, lorsque l'appareil n'est pas employé pour une période excédant un mois, suivez les recommandations suivantes:

A/ Enlevez le filtre à air du carburateur. Mettez le moteur en marche jusqu'à ce qu'une température normale soit obtenue. Alors que le moteur est en opération, videz lentement une pinte de lubrifiant préventif contre la rouille dans la prise d'air du carburateur. Videz le lubrifiant assez rapidement pour réduire la vitesse du moteur sans qu'il arrête. De cette façon l'addition du lubrifiant préventif contre la rouille prendra approximativement 1 minute.

B/ Cette opération occasionnera une fumée assez considérable et devrait être faite dans un endroit bien aéré.

C/ Arrêtez le moteur dès que le lubrifiant préventif contre la rouille a été ajouté.

MEMO

RECOMMENDED DAILY CHECK-UP

Runner Shoe

Check the condition of the runner shoe.

Tracks

Check the adjustment of the tracks, which is correct when they can be raised by hand from 2 to 3" above the second wheel from the front.

Make sure that there are no broken cross links or defective bolts.

Wheels & Suspension

Keep the tire pressure at 35 to 40 lbs.

Remove ice or any foreign body which may be on the mechanism of the rear suspension and springs causing friction on the wheels and tires.

Control System

Check the operation of the brake, clutch and accelerator pedals and the transmission control levers, etc.

Engine

Check the oil pressure gauge, the temperature gauge, the fuel gauge and the ammeter.

Make sure that there are no leaks in the fuel or oil lines and check the condition of the air filter.

Electrical System

Check the condition of the battery and the level of the electrolyte.

Cooling System

Check the level of the anti-freeze in the radiator and make sure there are no leaks. Check the adjustment of the fan belt and the opening of the rear door for the circulation of air.

VÉRIFICATION QUOTIDIENNE RECOMMANDÉE

Lisse ronde

Vérifiez la condition des lisses rondes du ski.

Chenilles

L'examen de l'ajustement de la chenille lequel est normal lorsque la chenille peut être soulevée à la main de 2 à 3" au-dessus de la deuxième roue avant.

S'assurer qu'il n'y a pas de traverses de chenilles ni de boulons défectueux ou brisés.

Roues et Suspension

Maintenir la pression des pneus à 35 - 40 lbs.

Enlevez la glace et tout corps étrangers qui pourraient nuire au mécanisme de la suspension et des ressorts.

Système de Contrôle

Vérification de l'opération des pédales de frein, de débrayage, d'accélérateur, des leviers de contrôle de la boîte de vitesses, etc.

Moteur

Vérifiez les jauge de pression d'huile, de température, de carburant et l'ampèremètre.

Assurez-vous qu'il n'y a pas de fuite de carburant ou d'huile sur les tuyaux d'alimentation et vérifiez la condition du filtreur à air.

Batterie

Examen de la condition et du niveau de l'eau dans la batterie.

Système de Refroidissement

Vérifiez le niveau de l'anti-gel dans le radiateur et les fuites possibles. Vérifiez l'ajustement de la courroie d'éventail et de l'ouverture de la porte de circulation d'air à l'arrière de l'auto-neige.

RECOMMENDED WEEKLY CHECK-UP

Mechanism of the Front Suspension

Check the ski assembling bolts and the adjustment of the bearings of the front suspension joints.

Check the condition of the shock absorbers and springs.

Steering

Tighten the steering rack housing bolts part no. A-2208 if necessary.

Tracks

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

Tighten the cross link bolts if necessary.

Sprocket

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

Wheels & Rear Suspension

Check the adjustment of the wheel bearings and the alignment of the wheels.

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

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

Tighten the differential U-bolts if necessary.

Control System

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

Engine

Valve adjustment.

Spark plugs, manifold, exhaust and cylinder head gaskets.

Bolts of the fan.

Electrical System

Clean and tighten the battery cables.

Wiring system and lights.

VÉRIFICATION HEBDOMADAIRE RECOMMANDÉE

Mécanisme de Suspension Avant

Vérifiez la tension des boulons de skis et l'ajustement des coussinets coniques des joints de suspension avant.

Vérifiez la condition de l'amortisseur de chocs et du ressort.

Conduite

Serrage des boulons no de pièce A-2208 de l'enveloppe de crémaillère de conduite, si nécessaire.

Chenilles

Examen de la condition des courroies et de l'usure des traverses de chenilles.

Serrage des boulons de traverses si nécessaire.

Roue de Commande

Examen de l'état du caoutchouc des roues de commande et serrage des boulons si nécessaire.

Roues et Suspension Arrière

Vérifiez l'ajustement des coussinets des roues et leur enlignement.

Condition des chaînes et boulons de ressorts.

Examen des écrous, rondelles d'arrêt et des coussinets à rouleaux des essieux coudés.

Serrage des crampes de l'enveloppe du différentiel.

Système de Contrôle

Vérification de l'ajustement des tiges de contrôle pour la boîte de vitesses, le disque d'embrayage, le frein et l'accélérateur.

Moteur

L'ajustement des soupapes du moteur est-il correct ?

Vérifiez le serrage des bougies, des dispositifs d'étanchéité, du système d'échappement et de la culasse du cylindre.

Les boulons de l'éventail sont-ils solides ?

Système Électrique

Nettoyage, graissage et serrage des fils de batterie si nécessaire.

Vérification du système de filage et de lumière.

LUBRICATION OF THE BOMBARDIER SNOWMOBILE

Crankcase

Check the oil level daily and add oil if necessary.

The oil should be changed at every 50 hours of operation, or 1,000 miles. Use the grade of oil recommended for the temperature in which the snowmobile operates. If the motor is not run for a period exceeding 30 days, replace the oil. (Four imperial quarts)

Air Filter

At every 2,000 miles, drain, wash and dry the filter element and refill with engine oil SAE 50 in Summer and SAE 30 in Winter.

Oil Filter

Replace the oil filter or element when making the crankcase oil change at every 200 hours of operation or 4,000 miles. An extra quart should be added when the oil filter is changed.

Distributor

A few drops of oil in each cup at every 200 hours.

Generator

A few drops of oil in each cup at every 200 hours.

Transmission

Check the level and the condition of the oil at every 50 hours. Drain, flush and refill at every 200 hours. Use two imperial quarts of transmission oil SAE 90. When the snowmobile operates in extremely cold conditions, a lighter grade of oil should be used.

Differential

Check the level and the condition of the oil at every 50 hours of operation or 1,000 miles. The capacity of the differential is 2½ imperial quarts.

We recommend extreme pressure hypoid gear lubricant SAE 80 or 90 according to the temperature.

Do not mix different kinds of hypoid lubricant; if the level is low, drain, flush with cleansing oil (not kerosene) and refill with new lubricant.

Note :

In certain cases, snowmobiles operate in regions where there is dust mixed with the snow; in such conditions, a more frequent change of oil in the crankcase and filters is necessary.

LUBRIFICATION DE L'AUTO-NEIGE BOMBARDIER

Carter

Vérifiez le niveau de l'huile dans le carter tous les jours et ajoutez la quantité nécessaire.

Le changement d'huile doit être effectué à toutes les 50 heures d'opération ou mille milles de parcours. Employez la viscosité d'huile recommandée pour le degré de température où l'appareil travaille. Si le moteur n'est pas mis en marche pour une période excédant 30 jours, remplacez l'huile. (Quatre pintes impériales).

Filtre à Air

A chaque deux mille milles de parcours, videz, lavez et asséchez l'élément filtrant et remplissez avec de l'huile à moteur SAE 50 en été et SAE 30 en hiver.

Filtre à l'Huile

Remplacez le filtre en faisant le changement d'huile du carter à toutes les deux cents heures d'opération ou quatre mille milles de parcours. Une pinte impériale additionnelle doit être ajoutée au carter lorsque le filtre est changé.

Distributeur

Quelques gouttes d'huile claire dans le graisseur à toutes les deux cents heures.

Générateur

Quelques gouttes d'huile dans chacun des graisseurs à toutes les deux cents heures.

Boîte de Vitesses

Vérifiez le niveau et la condition de l'huile à toutes les cinquante heures. Vidangez, nettoyez et remplir à toutes les deux cents heures. Employez deux pintes impériales d'huile à transmission SAE 90 pour le remplissage. Lorsque l'appareil travaille dans une région extrêmement froide, une huile plus légère peut être employée.

Carter du Différentiel

Vérification du niveau et de la condition du lubrifiant à toutes les cinquante heures d'opération ou mille milles de parcours. Deux pintes et demi impériales de lubrifiant, viscosité SAE 80 ou 90, doivent être employées suivant le degré de température où l'appareil est utilisé.

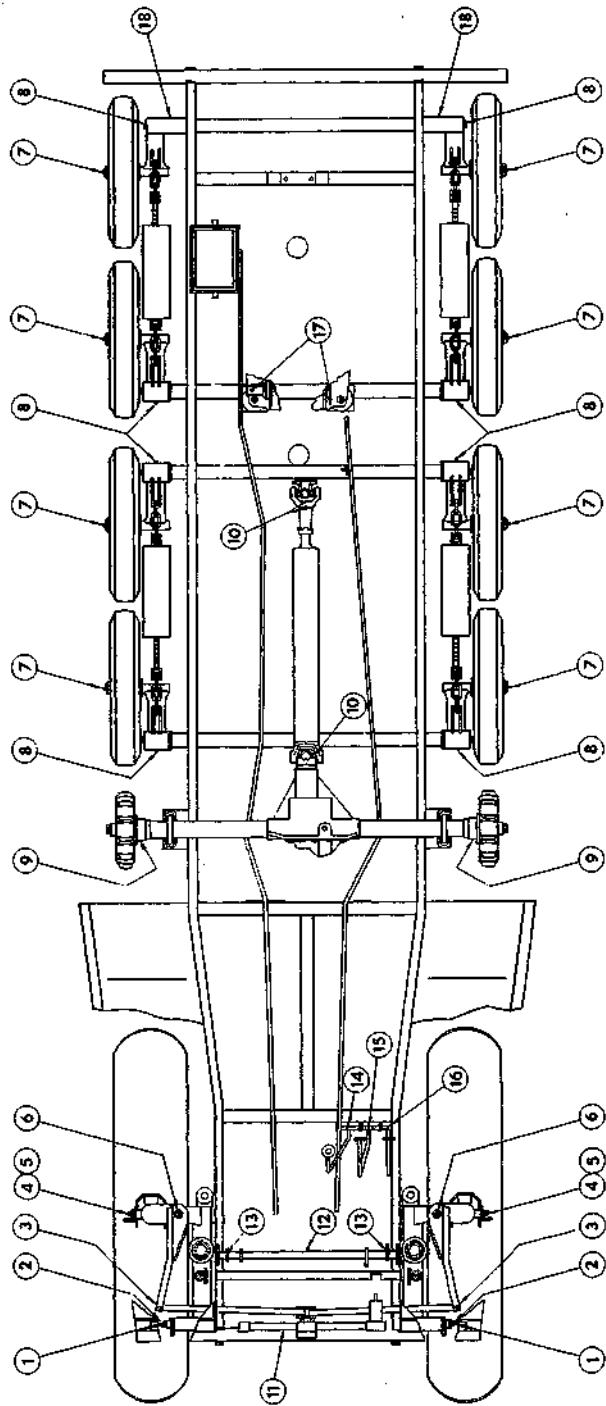
Nous recommandons le lubrifiant pour engrenage hypoid pouvant supporter des pressions extrêmes.

Ne jamais mélanger différentes sortes de lubrifiant hypoid; si le niveau est bas, videz et rincez avec de l'huile de nettoyage (jamais de pétrole) et ajoutez du lubrifiant neuf.

Note :

Dans certains cas l'auto-neige travaille sur un terrain où il y a un fort mélange de poussière avec la neige, dans ces conditions, un changement plus fréquent de l'huile des carters et des filtres devient nécessaire.

LUBRICATION CHART
GRAPHIQUE DE LUBRIFICATION



LUBRICATION CHART

SÉDULE DE LUBRIFICATION

Ref. No.:

1	Steering rack housing Support de la crémaillère de conduite	Note A
2	Knuckle arm axle Cheville du support	Note A
3	Tie rod end Bout de la tige de conduite	Note A
4	Front wheel Roue avant	Note A
5	Ski support bracket axle Cheville du ski	Note A
6	King pin Axe de conduite	Note A
7	Rear wheel Roue arrière	Note A
8	Bogie spindle Essieu coudé	Note A
9	Differential axle bearing (before serial no. 7C-5200) Coussinet des essieux du différentiel (avant no de série 7C-5200)	Note B
10	Universal joint Cardans de l'arbre de commande	Note B
11	Steering rack Crémaillère	Note D
12	Gearshift cross shaft Axe des tiges de contrôle de la boîte de vitesses	Note C
13	Gearshift cross shaft bracket Support des tiges de contrôle de la boîte de vitesses	Note D
14	Accelerator pedal Pédale de l'accélérateur	Note D
15	Brake pedal Pédale de frein	Note D
16	Clutch pedal Pédale de débrayage	Note D
17	Clutch release fork Fourchette de débrayage	Note C
18	Rear reinforcement shaft Axe de renfort arrière	Note C

NOTE A Lubricate weekly with grease gun.
Lubrifiez chaque semaine avec fusil graisseur.

NOTE B Lubricate monthly with grease gun.
Lubrifiez chaque mois avec fusil graisseur.

NOTE C Lubricate yearly with grease gun.
Lubrifiez tous les ans avec fusil graisseur.

NOTE D Lubricate yearly with oil.
Lubrifiez tous les ans avec de l'huile.

NOTES _____

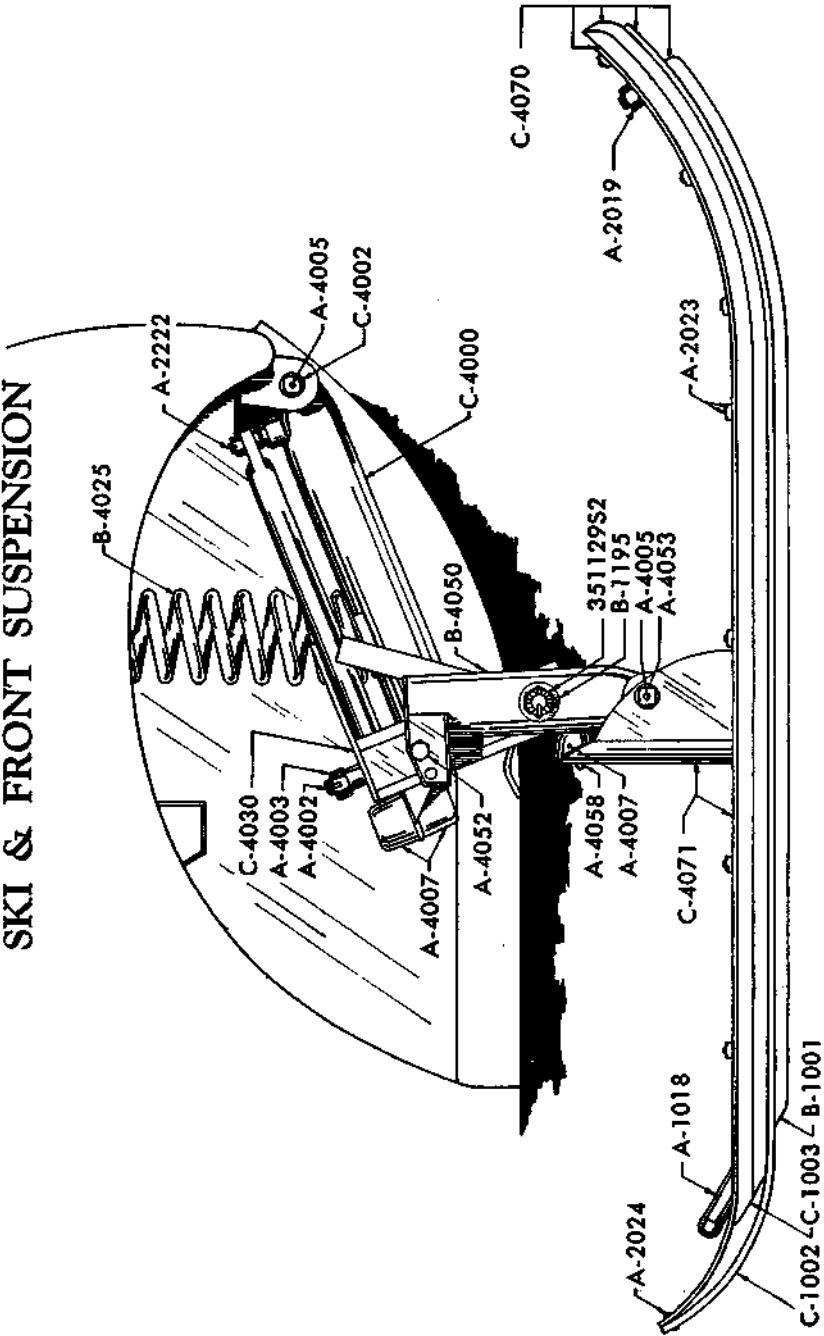
This parts list also covers the 12 and the 15 passenger snowmobiles of the C and R series respectively, manufactured in previous years. The 12 passenger snowmobile is the narrow gauge snowmobile identified by model code C and the 15 passenger is the wide gauge snowmobile identified by model code R.

SPARE PARTS LIST

LISTE DE PIÈCES DE RECHANGE

Cette liste de pièces de rechange couvre aussi les autos-neige 12 et 15 passagers de la série C et R respectivement fabriqués durant les années précédentes. L'auto-neige 12 passagers est le modèle étroit identifié par la lettre C devant le numéro du modèle et le 15 passagers est le modèle large identifié par la lettre R devant le numéro du modèle.

SKI & FRONT SUSPENSION



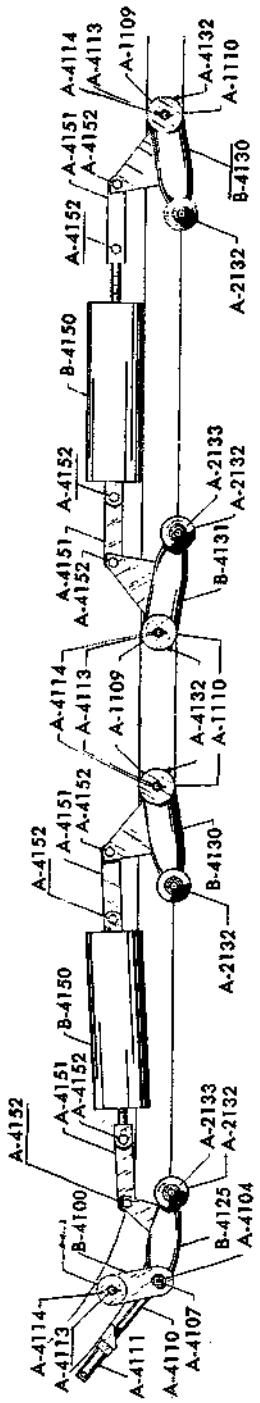
SKI & FRONT SUSPENSION

NOTE 1: Parts referred to Note 1 were used up to snowmobile serial no. with prefix 3A (before 1953).
 NOTE 2: Parts referred to Note 2 were used on and after snowmobile serial no. with prefix 3A up to serial no. 6A-4731.
 NOTE 3: Parts referred to Note 3 were used after serial no. 6A-4731.

Part No. Part Name Quantity

Part No.	Part Name	Quantity	Part No.	Part Name	Quantity
C-4000	Knuckle arm & spring seat ass'y (with cups) R.H., note 1	1	556	Grease retainer — front wheel	2
C-4000-D	Knuckle arm & spring seat ass'y (with cups) R.H., notes 2 & 3	1	A-2132	Mud excluder — wheel bearing	2
C-4001	Knuckle arm & spring seat ass'y (with cups) L.H., note 1	1	A-2133	Rubber — wheel bearing mud excluder	2
C-4001-D	Knuckle arm & spring seat ass'y (with cups) L.H., notes 2 & 3	1	351129 S2	Nut — front wheel spindle	2
C-4002	Axle — knuckle arm	2	B-1195	Thrust washer — front wheel spindle	2
A-4003	Nut — knuckle arm, axle	2	A-4032	Cotter pin — front wheel bearing	2
A-4017	Cutter pin — axle, nut	2	B-1139	Hub cap — bogie wheel (with grease fitting)	2
A-4005	Grease fitting — knuckle arm axle	2	B-4048	Bracket — ski support right hand and left hand, note 3	2
09196	Cap — knuckle arm bearing	4	A-4049	Bolt, nut & washer — ski support bracket	4
0974	Cone — knuckle arm bearing	4	B-4050	Bracket — ski support right hand, note 1	1
A-4006	Grease retainer — knuckle arm bearing	4	B-4050-D	Bracket — ski support right and left hand, note 2	2
A-4007	Rubber bumper — knuckle arm	4	B-4051	Bracket — ski support left hand, note 1	1
A-4008	Bolt, nut and washer — knuckle arm rubber bumper	4	A-4052	Bolt top & washer — ski support bracket, note 2	2
A-4002	King pin	2	09196	Cup — ski support bracket	2
A-4003	Nut — king pin	2	09074	Cone — ski support bracket	2
A-4017	Cutter pin — king pin nut	2	A-4006	Grease retainer — support bracket bearing	4
A-4005	Grease fitting — king pin	2	A-4053	Axle — ski support bracket	4
A-4019	Needle bearing — king pin, note 1	1	A-4003	Nut — ski support bracket axial	2
0974	Cone — king pin bearing, note 2 & 3	30	A-4005	Grease fitting — bracket axle	2
09196	Cup — king pin bearing, note 2 & 3	4	A-4017	Cotter pin axle nut	2
Wauber	Wauber — king pin bearing	4	A-4007	Rubber bumper — ski support bracket	2
A-4020	Spring — front coil	2	A-4058	Bolt, nut & lock washer — rubber bumper	2
B-4025	Spacer — front spring (thin)	2	A-4070	Ski assembly	2
A-4026	Spacer — steering arm ass'y L.H., note 3	1	B-1001	Shoe runner	2
A-4027	Spindle & steering arm ass'y R.H., note 1	1	C-1002	Cap — runner	2
C-4030	Spindle & steering arm ass'y R.H., note 2	1	C-1003	Support runner (wood)	2
C-4030-D	Spindle & steering arm ass'y R.H., note 3	1	C-4071	Runner and bracket (ak)	2
C-4028	Spindle & steering arm ass'y L.H., note 1	1	A-1018	Spacer tube — runner shoe	2
C-4031	Spindle & steering arm ass'y L.H., note 2	1	A-2019	Nut — runner shoe	2
C-4031-D	Spindle & steering arm ass'y L.H., note 3	1	A-2023	The bolt & nut $1\frac{1}{4}$ " x $\frac{3}{8}$ " — skid ans'y	2
C-4029	Spindle & steering arm ass'y L.H., note 1	1	A-2024	Rivet $5\frac{1}{16}$ " x $\frac{7}{8}$ " — runner cap	14
C-1114	Wheel — front	2	B-4033	Shock absorber package, notes 2 & 3	2
A-2125	Tire 4.50 x 16 — front wheel	2	A-4034	Stud, nut & washer — shock absorber, notes 2 & 3	2
A-2126	Tube 4.50 x 16 — front wheel	2	A-4035	Washer inner — bushing retainer, notes 2 & 3	2
15250	Cup — front wheel bearing inner	2	A-4036	Rubber bushing — shock absorber, notes 2 & 3	2
15112	Cone — front wheel bearing inner, note 1 & 2	2	A-4037	Washer outer — bushing retainer, notes 2 & 3	2
15118	Cone — front wheel bearing inner, note 3	2	A-4038	Nut & lock washer — shock absorber, notes 2 & 3	2
09196	Cup — front wheel bearing outer	2	A-4039	Cap — shock absorber upper tube, notes 2 & 3	2
0974	Cone — front wheel bearing outer	2			

REAR SUSPENSION



TRACK AND REAR SUSPENSION

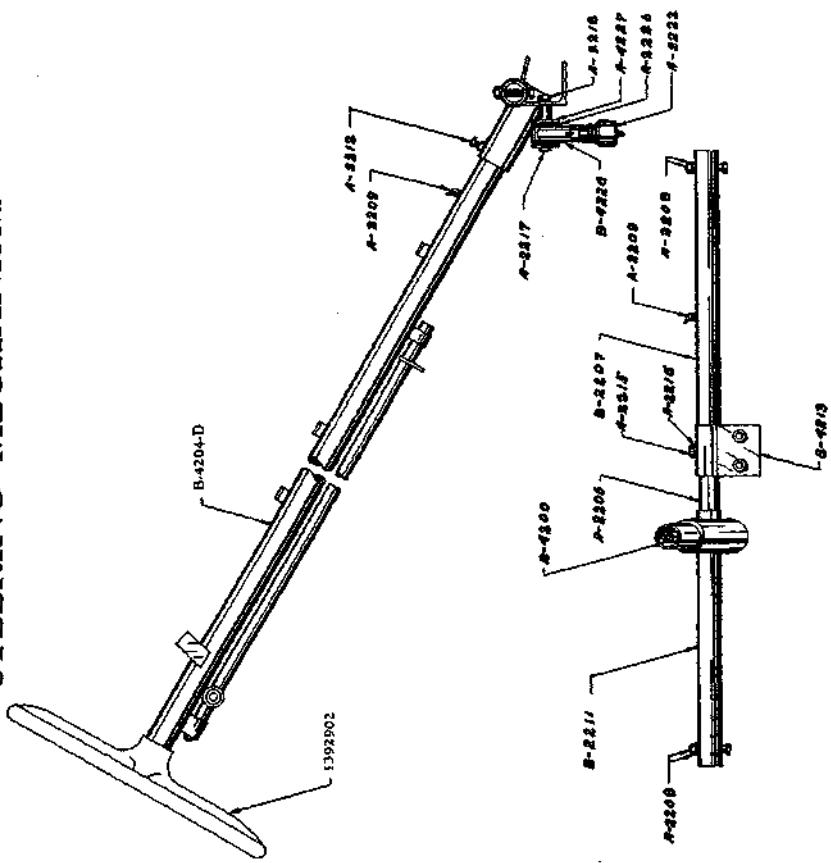
NOTE 1 : Parts referred to note 1 were used up to and including serial no. 6A-4731.

NOTE 2 : Parts referred to note 2 were used after serial no. 6A-4731.

NOTE 3 : Parts referred to note 3 are used on the 15 Pass. Snowmobile with V-8 engine.

Parts No.	Parts Name	Quantity	Parts No.	Parts Name	Quantity
C-1120-A	Track assembly (on C-1122-A belt 5 1/2")	2	B-4131	Bogie spindle assembly (Left hand front and third)	
B-1122-A	Track belt — endless 5 1/2"	4	B-4131-D	(Right hand second), note 1	3
B-1121	Cross link — Track	144	B-4131-E	Bogie spindle assembly (Left hand front and third)	3
A-1123	Cleats — Track reinforcement	1		(Right hand second), note 2	3
A-1124	Coupling assembly — Track	288		Bogie spindle assembly (Left hand front and third)	3
A-1125	Coupling — Track			(Right hand second), note 3	3
A-1126	Coupling link — Track			Stop washer — Bogie spindle, note 1 & 2	3
J-125	Bolt and nut, heavy duty — Cross link		A-1109	Stop washer — Bogie spindle, note 1 & 2	6
10121	Bolt and nut 5 1/2" x 3/8" — Track coupling	576	A-1110	Grease retainer — Bogie spindle, note 1 & 2	6
B-4100	Adjuster unit — Spindle R.H.	1	B-1111	Sleeve outer — Bogie spindle bearing, notes 1 & 2	12
B-4101	Adjuster unit — Spindle L.H.	1	B-1112	Sleeve inner — Bogie spindle bearing, notes 1 & 2	6
A-4102	Spacer — Adjuster unit	1	A-1113	Needle bearing bogie spindle, notes 1 & 2	228
A-4103	Spacer — Adjuster unit and frame (15 pass. on 7)	2	J-142	Cone Bogie spindle, note 3	3
A-4104	Axle — Adjuster unit	2	J-143	Cup bogie spindle, note 3	12
A-4003	Nut — Adjuster unit axle	2	J-212	Grease retainer outer, note 3	6
A-4017	Center pin — Adjuster unit axle nut	2	J-214	Grease retainer inner, note 3	6
A-4107	Grease fitting 1/4" 90° Axle	2	J-215	Grease retainer seal, note 3	12
09196	Cup — Adjuster unit axle bearing	2	J-179	Cross shaft nut, note 3	6
09074	Cone — Adjuster unit axle bearing	4	A-4132	Grease fitting — Bogie spindle	6
A-4006	Grease retainer — Bearing	4	B-4150	Bogie spring — without link	6
A-4110	Adjusting screw	4	A-4151	Link — Bogie spring	4
A-4111	Nut and tube — Adjusting screw	2	A-4152	Bolt 2" x 1/2" — Bogie spring and link	8
B-4112	Reinforcement — Rear suspension cross shaft (12 pass.)	2	A-4153	Nut 1/2" — Bogie spring and link	16
B-4116	Reinforcement — Rear suspension cross shaft (15 pass.)	1	C-1114	Wheel — Bogie (with cups)	16
A-4115	Reinforcement — Rear suspension cross shaft (15 pass.)	1	A-2125	Tire 4.50 x 16 — Bogie wheel	8
	note 3		A-2126	Tube 4.50 x 16 — Bogie wheel	8
A-4113	Nut — Rear suspension cross shaft	1	A-2132	Mud excluder	8
A-4114	Couter pin — Rear suspension cross shaft nut	2	A-2133	Rubber — Mud excluder	8
B-4125	Bogie spindle R.H. (Adjuster), note 1	1	J-173	Wheel seal	8
B-4125-D	Bogie spindle R.H. (Adjuster), note 2	1	15112	Cone — Bogie wheel bearing inner, note 1	8
B-4126	Bogie spindle L.H. (Adjuster), note 1	1	15118	Cone — Bogie wheel bearing inner, note 2	8
B-4126-D	Bogie spindle L.H. (Adjuster), note 2	1	15250	Cup — Bogie wheel bearing inner	8
B-4130	Bogie spindle assembly (Right hand front and third)	1	09074	Cone — Bogie wheel bearing outer	8
	(Left hand second), note 1		09196	Cup — Bogie wheel bearing outer	8
B-4130-D	Bogie spindle assembly (Right hand front and third)	3	B-1195	Thrust washer — Bogie wheel bearing	8
	(Left hand second), note 2		351129-SZ	Nut — Bogie wheel bearing	8
B-4130-E	Bogie spindle assembly (Right hand front and third)	3	A-4032	Center pin — Bogie wheel bearing nut	8
	(Left hand second), note 3		A-1139	Hub-cap — Bogie wheel with grease fitting	8
			A-4133	Rubber guard — Track	2

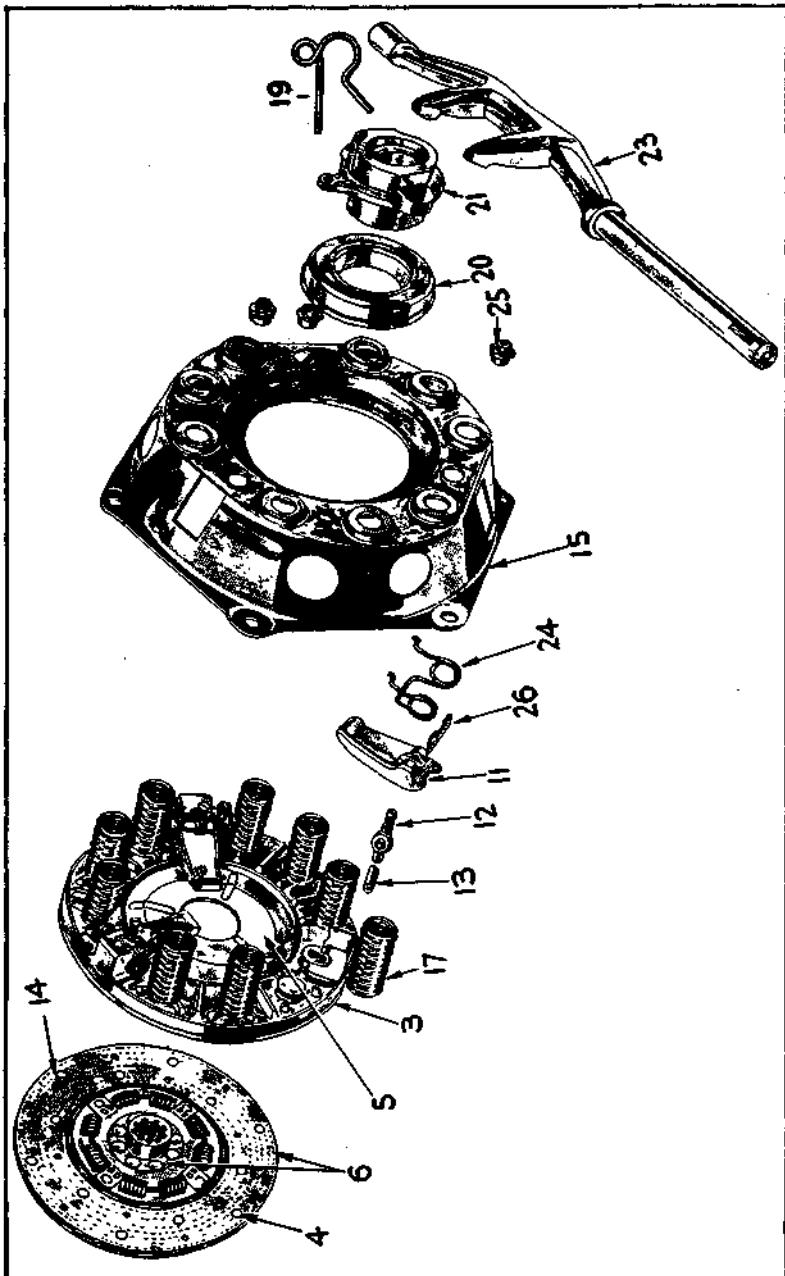
STEERING MECHANISM



STEERING MECHANISM

Parts No.	Parts Name	Quantity	Parts No.	Parts Name	Quantity
1392902	Wheel-steering	1	A-4205	Nut lock washer $\frac{1}{4}$ " — Mast jacket bolt	2
1787433	Horn button	1	A-2206	Rack-steering	1
657953	Retainer plate-lower	1	B-2207	Housing-steering rack	1
669811	Retainer plate-upper	1	A-2208	Bolt nut and lockwasher $\frac{3}{8}$ " — steering rack housing	2
1390694	Spring-horn button	1	A-2209	Grease fitting — steering rack housing	1
657955	Horn button lock wire	1	A-2210	Bushing — steering rack housing	2
670009	Spring base	1	B-2211	Housing — steering pinion and rack	1
175013	Nut-steering wheel	1	A-2212	Cap screw and nut — Mast jacket and rack housing lock	1
657484	Insulator — cable	1	B-4213	Bracket — steering rack and tie rod control	1
611897	Contact — cable	1	A-2215	Cap screw — bracket and steering rack lock	1
611898	Connector — horn cable to chassis wiring	1	A-2216	Lock washer — bracket and steering rack lock	1
B-4200	Steering shaft pinion and bearing ass'y	1	A-2217	Cap screw — bracket and tie rod	2
B-4201	Cable ass'y — horn button to wiring harness	1	A-2218	Nut $\frac{3}{8}$ " — bracket and tie rod	2
A-1205	Pinion — steering shaft	1	B-4220	Tie rod — steering R.H. and L.H. (12 pass) ..	2
A-2201	Bearing — steering shaft	1	B-4225	Tie rod — steering R.H. & L.H. (15 pass) ..	2
A-2202	Bushing — steering shaft bearing retainer (steel)	1	A-2226	Rubber bushing — steering tie rod	2
A-2203	Bushing upper — steering shaft	1	A-2225	Steel bushing — steering tie rod	2
B-4204-D	Mast jacket — steering	1	A-4227	Retainer plate — steering tie rod	2
A-4203	Bolt — mast jacket to panel	2	A-2222	End assembly — steering tie rod	2
			A-2223	Clamp — steering tie rod	2
			A-2224	Bolt nut and lock — steering tie rod clamp ..	2

CLUTCH



CLUTCH AND BRAKE

NOTE 1 : Parts referred to note 1 were used up to and including Serial no. 6B-4999

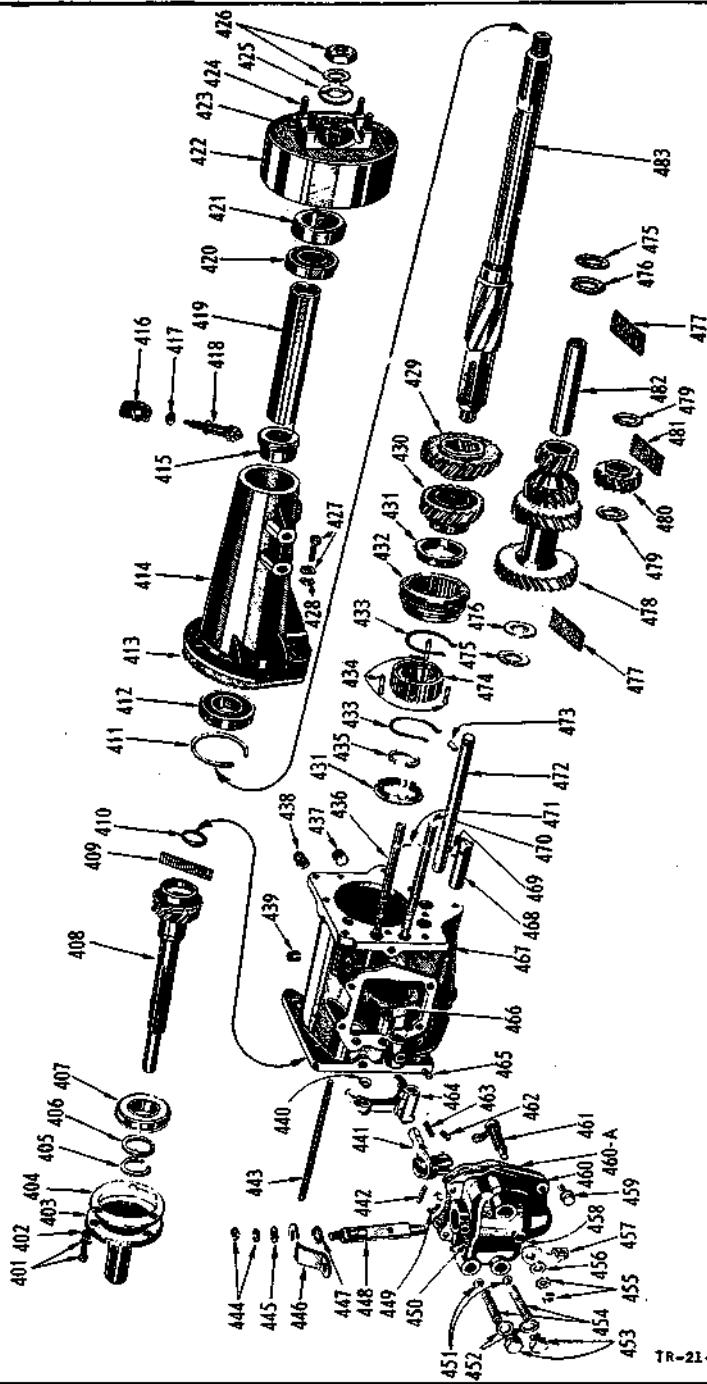
NOTE 2 : Parts referred to note 2 were used after Serial No. 6B-4999

NOTE 3 : Parts referred to note 3 were used after Serial No. 9A-5419

NOTE 4 : Parts referred to note 4 were used on the 15 passenger Snowmobile with V-8 engine.

Parts No.	Parts Name	Ref. No	Parts No.	Parts Name	Ref. No.
1610466	Clutch housing ass'y, note 1	3	314293	Release lever eye bolt & nut	25
1568143	Clutch housing ass'y, notes 2 & 3		1731516	Release lever eye bolt & nut, note 4	25
1786423	Clutch housing ass'y, note 4		619446	Release lever strut, notes 1, 2 & 3	26
1142472	Pressure plate, notes 1 & 2	3	1730075	Release lever strut, note 4	26
1266025	Pressure plate, note 3		866039	Housing pan, note 1	
1785878	Pressure plate, note 4		1394633	Housing pan, notes 2 & 3	
121573	Disc facing rivets	4	1501704	Housing pan, note 4	
1268713	Disc ass'y, notes 1 & 2	6	857766	Clutch cover & pressure plate ass'y, note 1	
1669296	Disc ass'y, notes 3 & 4	6	1265946	Clutch cover & pressure plate ass'y, note 2	
1271905	Release lever, note 1	11	1266023	Clutch cover & pressure plate ass'y, note 3	
683963	Release lever, notes 2, 3 & 4	11	1785876	Clutch cover & pressure plate ass'y, note 4	
619463	Release lever pin	13	B-4400	Pedal — Clutch, note 1	
697498	Disc facing, notes 1 & 2	14	B-4400-D	Pedal — Clutch, notes 2, 3 & 4	
623886	Disc facing, notes 3 & 4	14	A-2403	Pad — Clutch pedal	
855518	Cover, notes 1, 2 & 3	15	B-4401	Rod — Clutch, note 1	
1785877	Cover, note 4	15	B-4401-D	Rod — Clutch, notes 2, 3 & 4	
670103	Pressure spring, note 1	17	A-4402	Return spring — Clutch rod	
634753	Pressure spring, notes 2 & 3	17	A-4402	Adjuster — Clutch rod	
1406504	Pressure spring (white - 6 required), note 4	17	A-4403	Pin — Adjuster clutch rod	
855521	Pressure spring (lavender - 3 required), note 4	17	A-4405	Lock nut — Clutch rod adjuster	
671915	Release bearing pull back spring, note 1	19	A-4408	Clutch release fork lever (12 pass.), note 2	
573318	Release bearing pull back spring, notes 2, 3 & 4	19	A-4409	Clutch release fork lever (15 pass.), notes 2, 3 & 4	
658998	Release bearing, note 1	20	B-4410	Pedal — Brake	
1664510	Release bearing, notes 2, 3 & 4	20	A-2403	Pad — Brake pedal	
862859	Release bearing & sleeve ass'y, note 1	21	B-4411	Rod — Brake, note 1	
1799260	Release bearing & sleeve ass'y, notes 2, 3 & 4	21	B-4411-D	Rod — Brake, notes 2, 3 & 4	
B-4406	Release fork, note 1	23	A-4412	Clevis — Brake rod	
A-4406-1	Release fork (15 Pass.), notes 2, 3 & 4	23	A-4413	Nut — Brake rod clevis	
A-4407	Release fork (12 Pass.), note 2	24	A-4414	Bolt & nut — Clevis to Brake Bracket	
622915	Release lever spring	24	A-4415	Adjuster brake rod spring	
			A-4416	Return spring — Brake rod	

TRANSMISSION



TR-21-4

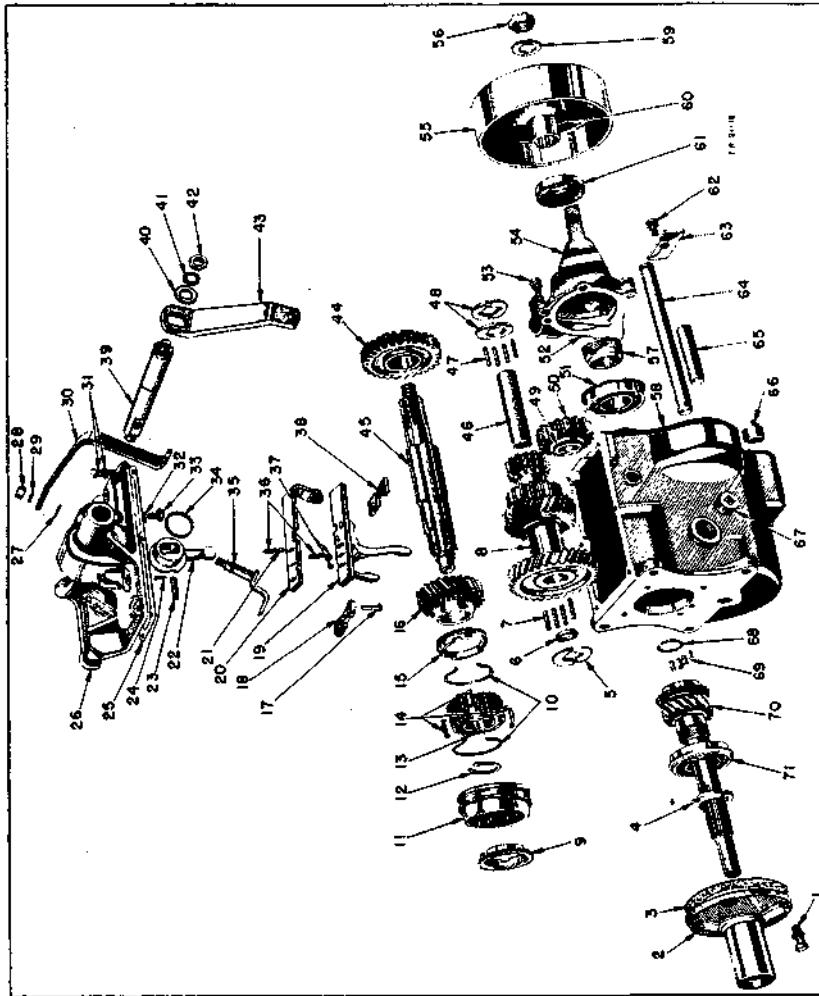
USED ON SNOWMOBILES BEFORE SERIAL No. 6B-5000

TRANSMISSION

Used on Snowmobiles before Serial No. 6B-5000

Part No.	Parts Name	Ref. No.	Parts Name	Ref. No.	Parts Name	Ref. No.	Parts Name	Ref. No.	Parts Name	Ref. No.
122017	Pinion Bearing retainer Screw	401	Mainshaft flange nut and lockwasher	426	Gearshift lever nut and lockwasher	455	Gearshift Selector lever	426	Gearshift Selector lever nut and lockwasher	455
670946	Retainer Screw Groundet	402	Case extension screw	427	Selector lever nut plain washer	456	Selector lever	427	Selector lever	456
670945	Pinion Bearing retainer consist of: 3 = 186078 Main drive Pinion or gear bolt upper	403	Case extension lockwasher	427	Gearshift Selector lever	457	Selector shaft seal — Cam	428	Gearshift Selector lever	457
1 = 1631808	Transmission drive	404	Case extension screw grommet	428	Selector shaft seal — Cam	458	Gearshift housing Stud	429	Selector shaft seal — Cam	458
601130	Retainer gasket	404	Sliding gear low and reverse	429	Gearshift housing	459	Gearshift housing	430	951780	459
601131	Retainer gasket	404	Second speed gear	430	Gearshift housing gasket	460	Gearshift housing	431	9513855	460
631823	Pinion Bearing snap ring (thin)	405	Synchronizer stop sleeve ass'y	432	Selector cam and shaft saw'y	460A	Selector cam and shaft saw'y	432	851801	460A
631824	Pinion Bearing snap ring (medium)	405	Clutch sleeve	432	Gearshift for lock	461	Gearshift lever return spring	432	863389	461
631825	Pinion Bearing snap ring (thick)	405	Synchronizer spring (in Pack.)	433	Gearshift lever — second and direct	462	Gearshift fork — second and direct	433	9512273	462
640532	Pinion Bearing snap ring (extra thick)	405	Synchronizer shifting plate (in Pack.)	434	Gearshift fork — lock screw	464	Gearshift fork — lock screw	434	95126267	464
631877	Pinion Bearing washer	406	Clutch gear snap ring (thin)	435	Gearshift fork — low and reverse	465	Gearshift fork — low and reverse	435	1118247	465
619167	Drive Pinion Bearing	407	Clutch gear snap ring (medium)	435	Transmission case	466	Transmission case	435	1486116	466
851864	Drive Pinion	408	Clutch gear snap ring (thick)	435	Reverse idler gear shaft	468	Reverse idler gear shaft	435	6311869	468
605007	Mainshaft Pilot Bearing rollers	409	Clutch gear snap ring (extra thick)	435	Idler gear shaft key	469	Idler gear shaft key	435	103905	469
601108	Mainshaft Pilot Bearing snap ring	410	Gear shift rail — low and reverse	436	Gearshift rail second and direct	470	Gearshift rail second and direct	436	1314052	470
640280	Mainshaft rear Bearing snap ring (thin)	411	Transmission filler plug	437	Gearshift rail interlock	471	Gearshift rail interlock	437	851431	471
631809	Mainshaft rear Bearing snap ring (medium)	411	Transmission drain plug	438	Counterhaft key	472	Counterhaft key	438	1118247	472
631810	Mainshaft rear Bearing snap ring (thick)	411	Gearshift rail interlock plug	439	Clutch gear — sliding	473	Clutch gear — sliding	439	1486116	473
640531	Mainshaft rear Bearing snap ring (extra thick)	411	Gearshift rail plug	440	Countershaft gear thrust washer —	474	Countershaft gear thrust washer —	440	1115595	474
1631718	Mainshaft rear Bearing	412	Gearshift lever — rail shifter	441	Oilite (thin)	475	Oilite (thin)	441	6058804	475
1468518	Case extension gasket	413	Gearshift lever pin	442	Counterhaft gear thrust washer —	475	Counterhaft gear thrust washer —	442	6011277	475
851880	Case extension	414	Guide rail	443	Oilite	476	Oilite	443	863389	476
851489	Speedometer drive gear	415	Guide rail seal	444	Countershaft gear thrust washer —	476	Countershaft gear thrust washer —	444	601128	476
1114949	Speedometer pinion sleeve	416	Gearshift operating lever nut	444	Countershaft gear thrust washer	477	Countershaft gear thrust washer	444	601129	477
652841	Speedometer pinion oil seal	417	Gearshift operating lever	444	Plate steel	477	Plate steel	444	691823	477
652842	Speedometer drive pinion	418	Gearshift operating lever nut plain	445	Reverse idler gear	478	Reverse idler gear	445	665924	478
851469	Mainshaft Bearing spacer	419	Gearshift lever shaft	446	Countershaft gear	478	Countershaft gear	446	951244	478
1140261	Case extension Bearing	420	Gearshift lever shaft lock spring	447	Reverse idler gear	479	Reverse idler gear	447	665927	479
670752	Case extension oil seal	421	Gearshift lever pin lock spring	448	Idler gear	480	Idler gear	448	665927	480
112386	Hand Brake drum	422	Gearshift shaft lock screw	449	(22 required)	481	(22 required)	449	691812	481
1321325	Mainshaft flange	423	Gearshift Selector ball spring	450	Countershaft Bearing spacer	482	Countershaft Bearing spacer	450	851488	482
123639	Propeller shaft Bolt	424	Gearshift Selector screw	451	Transmission mainshaft	483	Transmission mainshaft	451	946170	483
684748	Mainshaft flange washer	425	Gearshift Selector ball spring	452	Transmission to clutch housing		Transmission to clutch housing	452	122279	
									120263	

TRANSMISSION (3 Speed) HEAVY DUTY



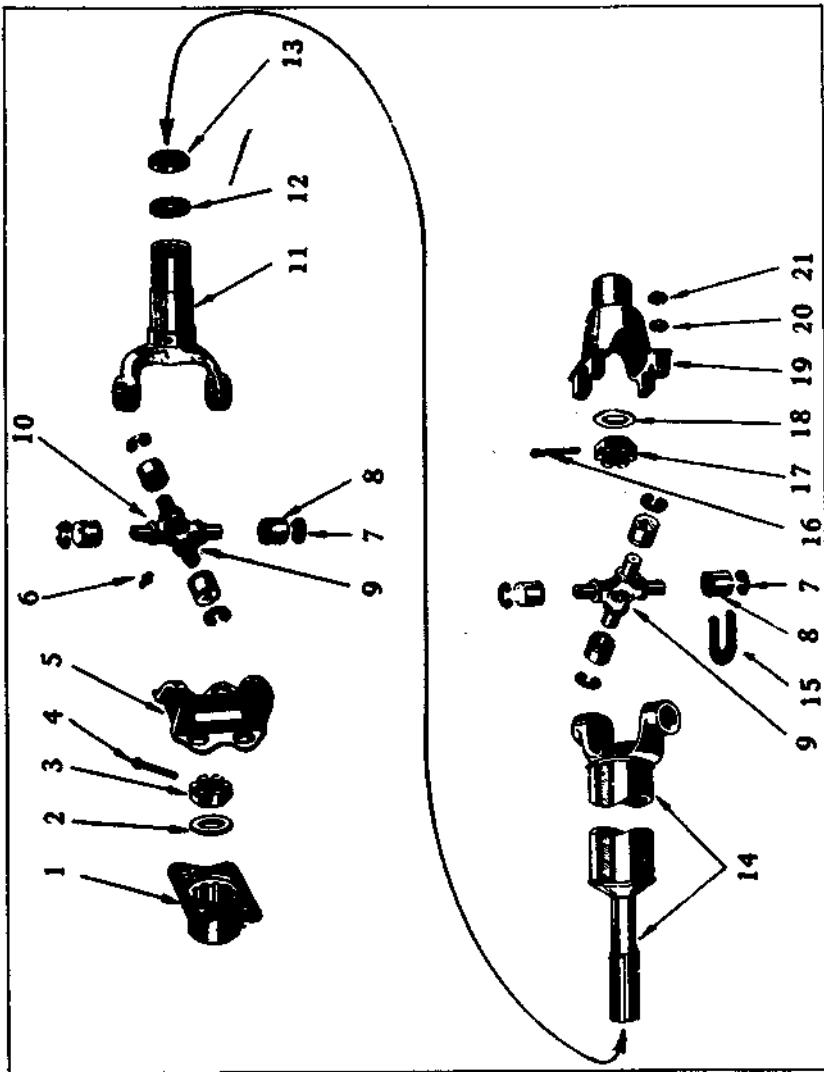
USED IN SNOWMOBILES STARTING AT AND AFTER SERIAL No. 6B-5000

TRANSMISSION (3 Speed) HEAVY DUTY

Used in Snowmobiles starting at and after Serial No. 6B-50000

Part No.	Part Name	Ref. No.	Parts Name	Ref. No.
S-401	Pinion bearing retainer screw & washer	1	S-435 Cam and shaft assembly	35
S-402	Drive pinion bearing retainer	2	S-436 Rail selector ball spring	36
S-403	Drive pinion bearing retainer gasket	3	S-437 Rail interlock ball	37
S-404	Drive pinion bearing lock nut	4	S-438 Gearshift rail retainer rear	38
S-405	Countershift thrust washer	5	S-439 Gearshift shaft	39
S-406	Countershift bearing spacer	6	S-440 Gearshift outer lever plain washer	40
S-407	Countershift bearing	7	S-441 Gearshift outer lever lockwasher	41
S-408	Countershift gear	8	S-442 Gearshift outer lever nut	42
S-409	Synchronizer stop ring	9	S-443 Gearshift outer lever	43
S-410	Spring and plate package	10 &	S-444 First and reverse gear	44
S-411	Clutch gear sleeve	11	S-445 Mainshaft	45
S-412	Clutch gear snap ring thin	12	S-446 Countershift bearing spacer	46
S-412-1	Clutch gear snap ring medium		S-447 Countershift bearing	47
S-412-2	Clutch gear snap ring thick		S-448 Countershift end washers	48
S-412-3	Clutch gear snap ring extra thick		S-449 Reverse idler gear bushing	49
S-413	Clutch gear	13	S-450 Reverse idler gear	50
S-415	Synchronizer stop ring	15	S-451 Mainshaft bearing rear	51
S-416	Second speed gear	16	S-452 Brake support gasket	52
S-417	Rail retainer rivet	17	S-453 Brake support screw	53
S-418	Gearshift rail retainer front	18	S-454 Bearing retainer	54
S-419	Second and direct shift rail	19	S-456 Mainshaft flange nut	56
S-420	First and reverse shift rail	20	S-457 Speedometer drive gear	57
S-421	Rail selector ball	21	S-458 Transmission case	58
S-422	Gearshift lever inner	22	S-459 Mainshaft flange nut washer	59
S-423	Lever pin	23	S-460 Mainshaft flange	60
S-424	Lever retainer spring	24	S-461 Mainshaft bearing oil seal	61
S-425	Gearshift housing gasket	25	S-462 Lockplate screw and washer	62
S-426	Gearshift housing	26	S-463 Countershift and idler shaft lock plate	63
S-427	Cam and shaft snap ring	27	S-464 Countershift	64
S-428	Selector lever nut	28	S-465 Idler gear shaft	65
S-429	Selector lever nut lockwasher	29	S-466 Case drain plug	66
A-4525	Selector lever	30	S-467 Case filler plug	67
S-431	Housing screw & lockwasher	31	S-468 Mainshaft pilot bearing snap ring	68
S-432	Gearshift shaft screw lockwasher	32	S-469 Mainshaft pilot bearing rollers	69
S-433	Gearshift shaft screw	33	S-470 Drive pinion	70
S-434	Inner lever pin lock spring	34	S-471 Drive pinion bearing	71

PROPELLER SHAFT AND UNIVERSAL JOINT

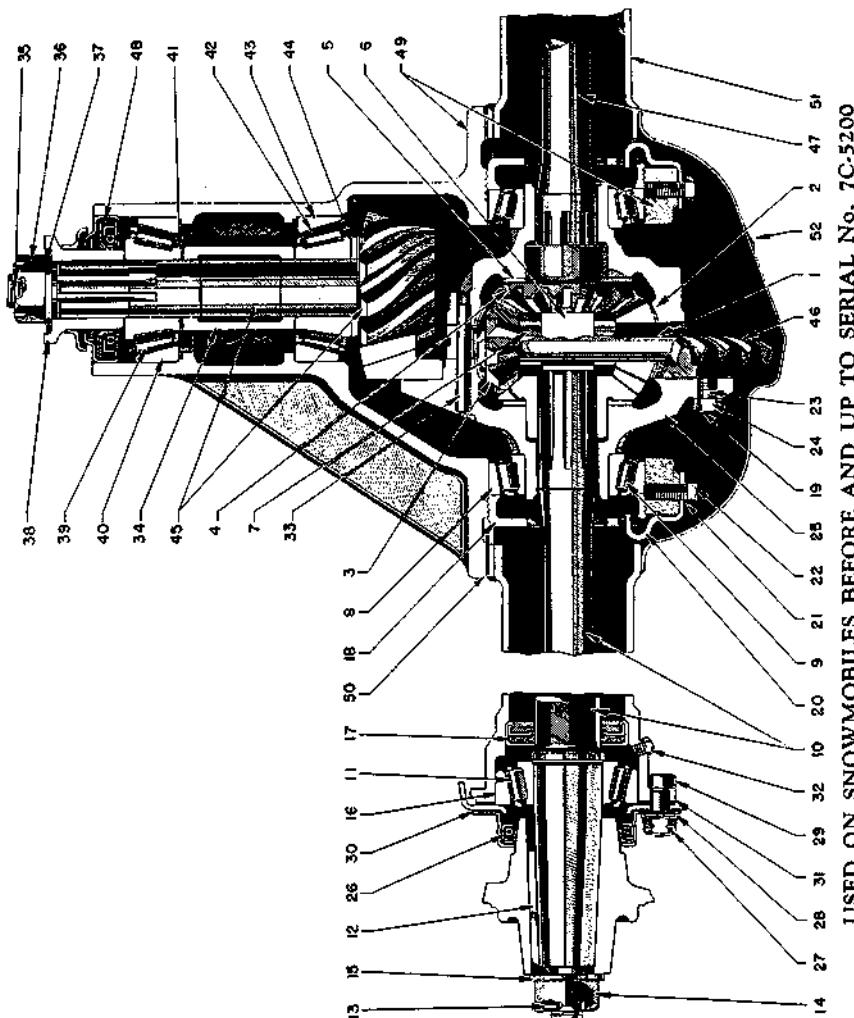


TRANSMISSION PROPELLER SHAFT

NOTE 1: Parts referred to note 1 were used up to and including Serial no. 6B-4999.
 NOTE 2: Parts referred to note 2 were used after Serial no. 6B-4999.

Parts No.	Parts Name	Ref. No.	Parts No.	Parts Name	Ref. No.
1321325	Transmission mainshaft flange	1	A-4501	Knob gearshift lever	
684748	Mainshaft flange washer	2	B-4502	Lever gearshift	
426099	Mainshaft flange nut	3	B-4503	Tube and socket — gearshift	
119209	Mainshaft flange nut cotter pin	4	A-4504	Fulcrum pin — gearshift	
1122682	Propeller shaft companion flange or yoke	5	A-4505	Nut — fulcrum pin	
103347	Universal joint cross nipple	6	A-4506	Spring fulcrum pin	
604595	Cross bushing retainer	7	A-4510	Gearshift rod — Steering to cross shaft	
1122680	Cross bushing and roller ass'y	8	A-4511	Adjusting rod selector (Steering to cross shaft)	
• 1516852	Universal joint repair package	9	A-4512	Nut — selector adjusting rod	
604594	Cross seal	10	C-4513	Cross shaft ass'y gearshift 12 Pass.	
604595	Cross seal retainer	10	C-4507	Cross shaft ass'y gearshift 15 Pass.	
1122675	Sliding yoke ass'y	11	B-4514	Bracket — gearshift cross shaft	
604596	Sliding yoke dust seal	12	A-4515	Bolt, nut and lockwasher — gearshift cross	
1122677	Sliding yoke cap	13		shaft bracket	
C-1310	Propeller shaft incl. U-Joint, note 1	14	A-4005	Grease fitting — cross shaft	
C-1310-D	Propeller shaft incl. U-Joint, note 2	14	B-4516	Rod — gearshift control, note 1	
1122683	Rear axle drive Pinion flange U-Bolt	15	B-4516-D	Rod — gearshift control, note 2	
119209	Pinion flange nut cotter pin	16	A-4517	Clevis — gearshift control rod	
53553	Pinion flange nut	17	A-4518	Lock nut — gearshift control rod clevis	
308466	Pinion flange nut washer	18	B-4519	Rod gearshift selector, note 1	
1270196	Pinion flange	19	B-4519-D	Rod gearshift selector, note 2	
120214	Pinion flange U-bolt lockwasher	20	A-4520	Nut gearshift selector rod	
1203968	Pinion flange U-bolt	21	A-4521	Return spring — gearshift selector rod	

DIFFERENTIAL AND CARRIER ASSEMBLY



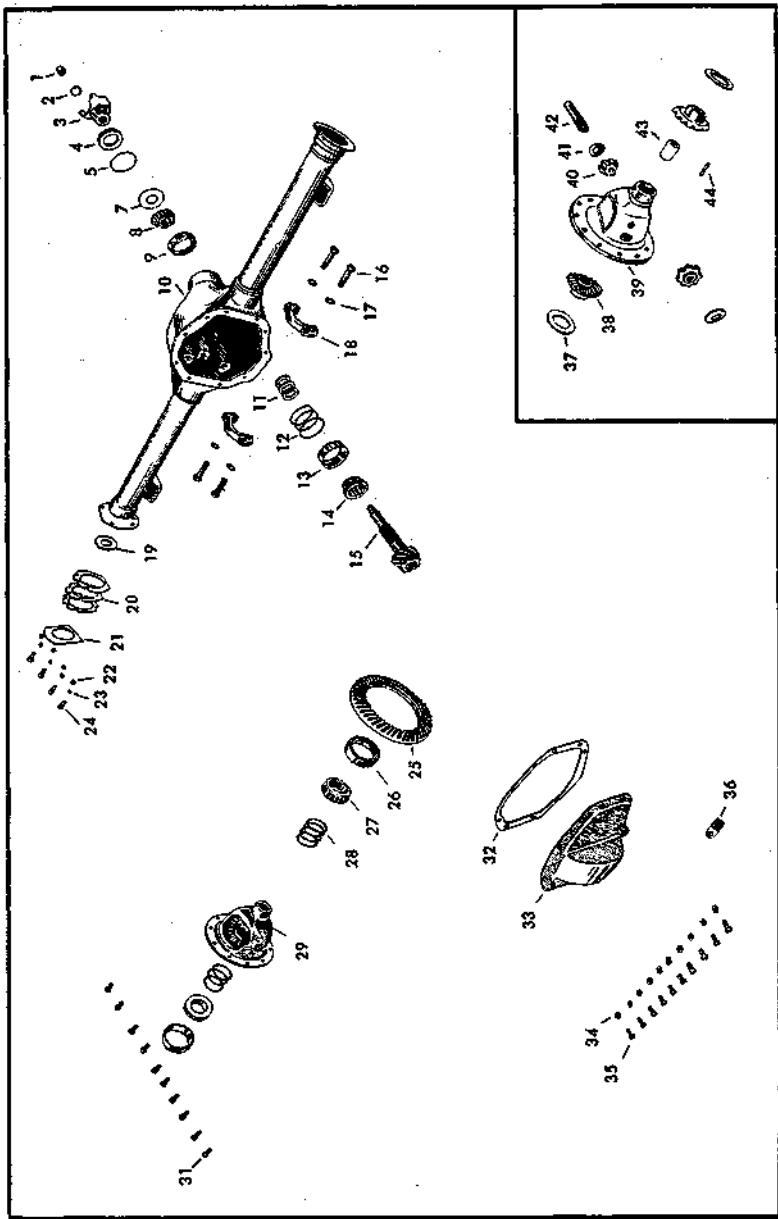
DIFFERENTIAL AND DRIVE SPROCKET

NOTE 1: Parts referred to note 1 were used up to and including Serial no. with prefix 3B. (1953).

NOTE 2: Parts referred to note 2 were used starting at and after Serial no. with prefix 3C. (1953).

Part No.	Part Name	Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name	Ref. No.
664480	Shaft - Differential pinion	1	1064856	Oil seal (outside) - Axle drive shaft bearing	(12 Pass.)	303856	Washer - Axle drive pinion rear bearing	44
664479	Thrust washer - Differential pinion	2	686700	Rear wheel hub (12 Pass.) note 1	26	Washer (thick) - Axle drive pinion rear bearing	44	
664478	Pinion - Differential	3	1118868	Rear wheel hub (15 Pass.) note 1	303857	Washer (thin) - Axle drive pinion rear bearing	44	
664477	Side gear - Differential	4	10302	Rear wheel hub bolts	1192394	Axle drive gear and pinion set 4.1 to 1	44	
633587	Thrust washer - Differential side gear	5	860681	Nut - Rear wheel brake support to axle housing bolt	27	Oil seal - Axle drive pinion bearing carrier and cap ass'y - Axle drive pinion	45	
654492	Thrust block - Axle drive shaft	6	120382	Lock washer - Rear wheel brake support to axle housing bolt not Bolt - Rear wheel brake support to axle housing	28	Gasket - Axle drive Pinion carrier Housing - Differential (12 Pass.)	49	
663607	Spacer - Axle drive shaft thrust block	7	854472	Gasket - Axle drive shaft bearing oil seal, retainer plate	29	Housing - Differential (15 Pass.)	50	
693403	Cup - Differential bearing	8	952557	Adjusting shim (thin) - Axle drive shaft bearing	30	Plug housing cover	51	
698404	Cone - Differential bearing	9	1137203	Adjusting shim (medium) - Axle drive shaft bearing	31	Carrier ass'y Differential (4.1 to 1)	52	
698137	Shaft - Axle drive (12 Pass.)	10	681320	Adjusting shim (medium-thick) - Axle drive shaft bearing	31	Vent Plug - Rear axle housing	53	
C-46600	Shaft - Axle drive (12 Pass.)	10	681322	Adjusting shim (extra-thick) - Axle drive shaft bearing	31	U-Bolt - Differential housing	54	
2780	Cone - Axle drive shaft bearing (15 Pass.)	11	1118149	Grease fitting - Axle bearing	32	Nut - Differential housing U-Bolt Retainer plate - Drive axle bearing	54	
25877	Cone - Axle drive shaft bearing (12 Pass.)	11	103399	Lock pin - Differential pinion shaft	33	A-4610	U-Bolt - Differential housing	54
1118149	Key - Axle drive shaft	12	530553	Spacer - Axle drive pinion bearing	34	A-4608	Retainer plate and oil seal ass'y	55
Cotter pin - Axle drive shaft nut	13	A-4601	Couter - Axle pin - Axle drive pinion flange nut	35	A-4607	(15 Pass.)	55	
103399	Nut - Axle drive shaft nut	14	141210	Conter - Axle pin - Axle drive pinion flange nut	35	B-4625	Hub - Differential axle (15 Pass.)	55
508552	Nut - Axle drive shaft nut	15	661483	Conter - Axle pin - Axle drive pinion flange nut	36	B-4626	Hub - Differential axle (12 Pass.)	55
2775	Cup - Axle drive shaft bearing (15 Pass.)	16	119209	Washer - Axle drive pinion flange nut	37	B-4627	Hub - Differential axle ratio 4.89 to 1 note 2	55
26621	Cup - Axle drive shaft bearing (12 Pass.)	16	533553	Flange - Axle drive pinion flange nut	38	C-4614	Drive sprocket (12 Pass. & 13 Pass.) note 1	55
1119897	Oil seal assembly - Axle drive shaft (inside) (15 Pass.)	17	1270196	Cone - Axle drive pinion front bearing	39	A-2614	Bolt long - Drive sprocket note 1	55
1119896	Oil seal assembly - Axle drive shaft (inside) (12 Pass.)	17	697714	Cup - Axle drive pinion front bearing	39	C-4615	Lining sprocket rubber note 1	55
601864	Adjuster - Differential bearing	18	698413	Adjusting shim (thin) - Axle drive pinion front bearing	40	A-4620	Bolt nut & washer sprocket lining note 1	55
123369	Nut - Axle drive gear bolt	19	688739	Adjusting shim (thick) - Axle drive pinion front bearing	41	A-4621	Washer - Sprocket lining bolt note 1	55
302247	Lock - Screw assembly Differential bearing adjuster	20	688739	Adjusting shim (thin) - Axle drive pinion front bearing	41	B-4630	Flange - Hub (15 Pass.) and differential ratio 4.89 to 1 note 2	55
122017	Lock - Screw assembly Differential bearing adjuster	20	688741	Adjusting shim (thick) - Axle drive pinion front bearing	41	B-4631	Flange - Hub (12 Pass.) note 2	55
663481	Bolt - Axle drive gear	22	698415	Cone - Axle drive pinion rear bearing	42	A-4633	Bolt & Nut - Hub and flange	55
663482	Lock - Axle drive gear bolt nut	23	698413	Cup - Axle drive pinion rear bearing	43	C-4635	1 3/4" x 5/16" note 2	55
1142005	Cage - Differential	24					All rubber note 2	55
1409902	Oil seal (outside) - Axle drive shaft bearing (15 Pass.)	26						55

DIFFERENTIAL ASSEMBLY



USED ON SNOWMOBILES STARTING AT SERIAL NO. 7C-5200

DIFFERENTIAL AND DRIVE SPROCKET

Used on 12 and 15 passenger snowmobiles starting at and after serial number 7C-5200

Parts No.	Ref. No.	Parts Name	Ref. No.	Parts No.	Ref. No.	Parts Name	Ref. No.	Parts No.	Ref. No.	Parts Name	Ref. No.	Parts No.	Ref. No.	Parts Name	Ref. No.	Parts No.	Ref. No.	Parts Name	Ref. No.				
A-4641		Nut drive pinion	1	A-4672		Cone — differential bearing	27	A-4673		Shim — differential adjusting .003	28	A-4673-1		Shim — differential adjusting .005	28	A-4673-2		Shim — differential adjusting .010	28	A-4673-3		Shim — differential adjusting .030	28
A-4642		Washer — drive pinion nut	2	A-4674		Case and gears assembly — differential	29	A-4675		Screw — drive gear	31	B-4676		Gasket — gear carrier cover	31	C-4678		Cover — gear carrier assembly	32	A-4679		Washer — gear carrier cover screw lock	33
B-4643		End yoke — universal joint ass'y	3	A-4680		Screw — gear carrier cover	34	A-4681		Tag — ratio	35	A-4682		Washer — differential side gear thrust	36	B-4683		Gear — differential side	37	C-4684		Mate — differential pinion	39
A-4644		Seal — drive pinion leather oil seal	4	A-4685		Washer — differential pinion mate thrust	41	A-4686		Shaft — differential pinion mate	42	A-4687		Spacer — axle shaft	42	A-4688		Pin — pinion mate shaft lock	44	C-4689		Axle shaft 12 passenger	44
A-4645		Gasket — drive pinion leather oil seal	5	A-4690		Cone — axle shaft bearing	45	A-4691		Cup — axle shaft bearing	46	A-4692		Key — axle shaft	47	A-4693		Nut — axle shaft	47	A-4694		Vent plug	47
A-4647		Slinger — drive pinion oil	6	A-4695		Drain plug	47	A-4696		Hub — drive axle	48	B-4627		Flange — drive axle hub	48	B-4630		Sprocket — rubber	48	C-4635		Bolt and nut — sprocket	48
A-4648		Cone — drive pinion front bearing	7	J-156		Bolt and nut — sprocket	48																
A-4649		Cup — drive pinion front bearing	8																				
C-4650		Housing assembly 12 passenger	9																				
A-4651		Housing assembly 15 passenger	10																				
A-4652		Shim — drive pinion adj. front .003	10																				
A-4652-1		Shim — drive pinion adj. front .005	11																				
A-4652-2		Shim — drive pinion adj. front .010	11																				
A-4652-3		Shim — drive pinion adj. front .030	11																				
A-4653		Shim — drive pinion adj. rear .003	12																				
A-4653-1		Shim — drive pinion adj. rear .005	12																				
A-4653-2		Shim — drive pinion adj. rear .010	12																				
A-4654		Cup — drive pinion rear bearing	13																				
A-4655		Cone — drive pinion rear bearing	14																				
C-4656		Crown & pinion gear set ratio 4.09 to 1 .. 15 & 25	15																				
C-4657		Crown & pinion gear set ratio 4.88 to 1 .. 15 & 25	16																				
A-4660		Screw — differential bearing cap	17																				
A-4661		Washer — differential bearing cap screw lock	17																				
B-4662		Cap — differential bearing	18																				
A-4663		Retainer plate and seal ass'y	21																				
A-4664		Seal — axle shaft outer	21																				
A-4665		Seal — axle shaft inner	19																				
A-4666		Shim — axle shaft bearing adjusting	20																				
A-4668		Nut — brake disc screw	22																				
A-4669		Washer — brake disc screw nut lock	23																				
A-4670		Screw — brake disc	24																				
A-4671		Cup — differential bearing	26																				

ENGINE - FUEL and EXHAUST SYSTEM

NOTE 1 : Parts referred to Note 1 were used on Snowmobiles with 6 cylinder industrial 251 engine.

NOTE 2 : Parts referred to Note 2 were used on Snowmobiles with V-8 industrial 313 engine.

N.B. — For engine component parts, See Chrysler Industrial Engines Maintenance and Parts Manual.

Parts No.	Parts Name	Quantity
A-4300	Insulator — engine support at fan, note 1	1
A-4305	Insulator — engine support at fan, note 2	1
A-4301	Retainer — Engine support insulator, note 1	1
A-4302	Washer — Engine support insulator, note 1	2
A-4303	Bolt & Nut — Engine support	1
B-4310	Insulator ass'y — Engine support at transmission, note 1..	2
1404336	Insulator ass'y — Engine support at transmission, note 2..	2
A-4311	Washer — Engine support insulator, note 1	2
A-4312	Bolt & nut — Engine support insulator, note 1	2
C-4314	Muffler assembly — (12 Pass.), note 1	1
C-4315	Muffler assembly — (15 Pass.), note 1	1
C-4308	Muffler R.H., note 2	1
C-4309	Muffler L.H., note 2	1
A-4316	Gasket — Exhaust pipe	2
A-4317	Bolt, nut and washer — Manifold to exhaust pipe	4
A-4318	Hole plate — Muffler outlet	2
A-4319	Spring — Muffler outlet hole plate	2
B-4324	Fuel tank assembly — 12 Pass., 15 Pass. with V-8 engine	1
B-4325	Fuel tank assembly — 15 Pass., note 1	1
A-2309	Cap — Fuel tank	1
A-4326	Rubber insulator — Fuel tank filler tube	1
A-4327	Bolt, nut & washer — Fuel tank	2
A-2320	Outlet and elbow ass'y — Fuel tank (inc. 69 x 5A)	1
A-4328	Line — Fuel tank to pump (without fitting)	1
A-2322	Elbow — Line to fuel pump (69 x 5)	1
A-4334	Throttle lever & bracket ass'y	1
A-4335	Lever — Accelerator rod to carburetor	1
A-4336	Swivel — Accelerator rod to lever	1
A-4336-D	Swivel clips	1
A-4337	Return spring — Accelerator rod	1
A-4338	Bracket — Accelerator rod return spring	1
B-4339	Rod — Accelerator	1
B-4340	Pedal assembly — Accelerator	1

ELECTRICAL

NOTE 1 : Parts referred to note 1 were used up to and including Serial no. 10A-5520.

NOTE 2 : Parts referred to note 2 were used after Serial no. 10A-5520.

Parts No.	Parts Name	Quantity
A-2700	Battery, note 1	1
A-2700-12	Battery 12 volts, note 2	1
C-2701	Battery bracket (removable part) (15 Pass.), note 1	1
C-4701	Battery bracket (removable part) (12 Pass.), note 1	1
C-2701-12	Battery bracket, note 2	1
A-2702	Bolts, nuts, washers — Battery bracket	2
A-4711	Cable ground — Battery, note 1	1
A-4702	Cable negative — Battery to starter (12 Pass.), note 1	1
A-4702-1	Cable negative — Battery to starter (15 Pass.), note 1	1
J-565-A	Cable positive — Battery, note 2	1
J-566-A	Cable negative — Battery, note 2	1
A-4712	Cable — Starter switch to Starter, note 2	1
B-4703	Headlamp assembly, note 1	2
B-4703-12	Headlamp assembly, note 2	1
A-2704	Sealed beam — Headlamp, note 1	2
A-2704-12	Sealed beam — Headlamp, note 2	1
B-2705	Housing seat — Headlamp	2
B-2706	Ring — Headlamp housing	2

Parts No.	Parts Name	Quantity
A-2707	Bolt, nut & lock — Headlamp housing ring	2
A-4708	Bolt, nut & lock — Headlamp	2
A-2709	Connector — Headlamp	2
A-2710	Clip — Headlamp connector	6
A-2712	Dimmer switch assembly	1
A-2713	Switch assembly — Headlamp	1
A-2714	Cable — Headlamp & ignition switch to circuit breaker	1
A-2715	Circuit breaker assembly, note 1	1
A-2715-12	Circuit breaker assembly, note 2	2
A-2716	Bolt, nut & washer — Circuit breaker	1
A-2717	Cable — Circuit breaker to dome lamp switch	1
A-2718	Cable circuit breaker to ammeter	1
A-2719	Dome lamp assembly, note 1	1
A-2719-12	Dome lamp assembly, note 2	1
A-2720	Bulb — Dome lamp, note 1	1
A-2720-12	Bulb — Dome lamp, note 2	1
A-2721	Glass — Dome lamp	1
A-2722	Switch — Dome lamp	1
A-2723	Cable — Switch to dome lamp	1
A-2725	Bulb — Dash lamp, note 1	2
A-2725-12	Bulb — Dash lamp, note 2	2
A-4726	Tail lamp assembly, note 1	2
A-4726-12	Tail lamp assembly, note 2	2
A-4727	Glass — Tail lamp	2
A-2728	Bulb — Tail lamp, note 1	2
A-2728-12	Bulb — Tail lamp, note 2	2
A-2729	Ignition switch assembly	1
A-2730	Cable — Ignition switch to gauges	1
A-2731	Cable — Ignition to wiper switch	1
A-2732	Switch — Electric windshield wiper	1
A-2733	Cable — Wiper switch to wiper	1
B-2734	Wiper assembly — Electric windshield, note 1	1
B-2734-12	Wiper assembly — Electric windshield, note 2	1
B-2735	Motor — Electric windshield wiper, note 1	1
B-2735-12	Motor wiper — Electric windshield wiper, note 2	1
A-2736	Arm — Electric windshield wiper	1
A-2737	Blade — Electric windshield wiper	1
B-2738	Ammeter assembly	1
B-2739	Temperature gauge assembly (dash), note 1	1
J-593-A	Temperature gauge assembly (dash), note 2	1
B-2740	Temperature gauge assembly (engine), note 1	1
J-594-A	Temperature gauge assembly (engine), note 2	1
B-2741	Oil gauge assembly (dash), note 1	1
J-560-A	Oil gauge assembly (dash), note 2	1
B-2742	Oil gauge assembly (engine), note 1	1
J-561-A	Oil gauge assembly (engine), note 2	1
B-2743	Fuel gauge assembly (dash), note 1	1
J-557-A	Fuel gauge assembly (dash), note 2	1
B-2744	Fuel gauge assembly (tank), note 1	1
J-558-A	Fuel gauge assembly (tank), note 2	1
A-2745	Gasket fuel gauge (tank)	1
B-2746	Screw — Fuel gauge to tank	6
B-2747	Horn assembly, note 1	1
B-2747-12	Horn assembly, note 2	1
B-2748	Relay assembly — Horn, Note 1	1
B-2748-12	Relay assembly — Horn, note 2	1
A-2749	Bolt, nut, washer — Horn to support	2
G-2751	Speedometer assembly	1
A-4752	Cable — Speedometer	1
A-4753	Housing — Speedometer cable	1
A-2754	Glass — Speedometer	1
A-4755-D	Wiring harness ass'y, note 1	1
A-4755-A	Wiring harness ass'y, note 2	1
A-4756	Switch — Heater	1
A-4757	Cable — Ignition to heater switch	1
C-4759	Motor — Heater, note 1	1

Parts No.	Parts Name	Quantity
C-4759-12	Motor — Heater, note 2	1
B-4760	Nut — Heater motor	2
B-4761-A	Impeller — Heater	1
B-4762-D	Core — Heater	1
C-4763	Casing — Heater	1
A-4764	Bolt & nut — Heater casing	4
B-4765	Duct — Heater to Defroster	2
A-4766	Bolt, nut washer — Heater to defroster outlet	4
A-4767	Outlet duct — Heater 42"	2
A-4767-D	Outlet duct — Heater 21"	2
A-4768	Hose $\frac{3}{8}$ " — Heater (specify length)	
A-4769	Clamp — Heater hose	8
A-4780	Starter button-Dash	1
A-2750-12	Voltage divider for gauges, note 1	1
J-1327	Voltage regulator for gauges, note 2	1

COOLING SYSTEM

Parts No.	Parts Name	Quantity
C-4800	Radiator assembly	1
A-4805	Bolt, nut, washer — Radiator mounting	4
A-2801	Cap — Radiator	1
A-4806	Drain cock — Radiator	1
B-4808	Hose (Upper) — Radiator	1
B-4809	Reducer — Radiator hose (used with V-8 engine)	1
A-2804	Clamp (Upper) — Radiator	2
A-4810	Metal hose — Radiator	1
A-4811	Hose (Lower motor) — Radiator	1
A-4812	Hose (Lower) — Radiator	1
B-2806	Clamp (Lower) — Radiator hose	4

BODY

NOTE 1: Parts referred to note 1 were used up to and including Serial no 6A-4999.

NOTE 2: Parts referred to note 2 were used after Serial no 6A-4999.

NOTE 3: Parts referred to note 3 were used before and up to Serial no. with prefix 3B (1953).

NOTE 4: Parts referred to note 4 were used starting at and after Serial no. with prefix 3B (1953).

Parts No.	Parts Name	Quantity
B-4900	Glass — Windshield 44" x 16" (12 Pass.)	1
B-4901	Glass — Windshield 58" x 16" (15 Pass.)	1
B-4901-1	Glass — Windshield 59" x 16" (15 Pass.)	1
B-4902	Weatherstrip — Windshield glass (12 Pass.)	1
B-4903	Weatherstrip — Windshield glass (15 Pass.)	1
C-4905	Door — Right hand	1
C-4906	Door — Left hand	1
A-4909	Hinge — Door	10
A-4910	Spacer washer — Door hinge	12
A-4911	Nut — Door hinge	12
C-4915	Glass and frame ass'y — Door window R.H., note 3	1
C-4915-D	Glass and frame ass'y — Door window R.H., note 4	1
C-4921	Glass and frame ass'y — Door window L.H., note 3	1
C-4921-D	Glass and frame ass'y — Door window L.H., note 4	1
B-4916	Glass — Door window	2
B-4917	Frame — Door window R.H., note 3	1
B-4917-D	Frame — Door window R.H., note 4	1
B-4922	Frame — Door window L.H., note 3	1
B-4922-D	Frame — Door window L.H., note 4	1
A-4918	Retaining clip — Door window	2
A-4919	Weatherstrip — Door window	2
A-4920	Weatherstrip — Door	2
B-4925	Door catch ass'y (Side door), note 4	1
B-4925	Door catch ass'y (Front door R.H.), note 3	1
B-4925-D	Door catch ass'y (Front door R.H.), note 4	1

Parts No.	Parts Name	Quantity
B-4926	Door catch ass'y (Front door L.H.), note 3	1
B-4926-D	Door catch ass'y (Front door L.H.), note 4	1
B-4928	Rubber tube — Door catch chain, note 3	3
A-4927	Chain — Door catch, note 3	2
A-4929	Handle — Outside front door, note 4	2
A-4930	Handle — Door (Side door), note 4	1
A-4930	Handle door (Front door), note 3	2
A-4931	Escutcheon — Door handle	3
A-4932-D	Door retainer — Front	2
A-4933	Bolt, nut and washer — Door retainer chain	2
A-4934	Door pull	2
A-4935	Handle — Inside front door, note 4	2
A-4936	Retainer Screw — inside handle	2
C-4940	Instrument panel assembly (12 Pass.)	1
C-4941	Instrument panel assembly (15 Pass.)	1
C-4945	Toe and Floor board ass'y (12 Pass.)	1
C-4946	Toe and floor board ass'y (15 Pass.)	1
C-4942	Bracket — Front seat support	1
B-4947	Bolt — Front seat support	2
B-4948	Rear floor board ass'y, note 1	1
B-4948-D	Rear floor board ass'y (12 Pass.), note 2	1
C-4949	Rear floor board ass'y, note 1	1
C-4949-D	Rear floor board ass'y (15 Pass.), note 2	1
B-4950	Transmission service cover (12 Pass.)	1
B-4951	Transmission service cover (15 Pass.)	1
B-4955	Front seat less cushion	2
B-4956	Cushion front seat (with cover)	2
B-4957	Back cushion front seat (with cover)	2
B-4958	Cover only — Front seat cushion	2
B-4959	Cover only — Back cushion front seat	2
C-4960	Cushion — Rear side seat L.H. (with cover)	1
C-4961	Cushion — Rear side seat R.H. (with cover)	1
C-4962	Cover only — Rear side seat R.H.	1
C-4963	Cover only — Rear side seat L.H.	1
C-4964	Back — Side seat R.H. (with cover)	1
C-4965	Back — Side seat L.H. (with cover)	1
C-4966	Cover only — Back side seat R.H.	1
C-4967	Cover only — Back side seat L.H.	1
B-4968	Cushion — Rear central seat (with cover) (12 Pass.)	1
B-4969	Cushion — Rear central seat (with cover) (15 Pass.)	1
B-4970	Cover only — Rear central seat (12 Pass.)	1
B-4971	Cover only — Rear central seat (15 Pass.)	1
B-4972	Back cushion — Rear central seat (with cover) (12 Pass.)	1
C-4973	Back cushion — Rear central seat (with cover) (15 Pass.)	1
C-4974	Cover only — Rear central seat (12 Pass.)	1
C-4975	Cover only — Rear central seat (15 Pass.)	1
C-4976	Side loading door R.H.	1
A-4977-D	Retainer chain — Side loading door	1
C-4980	Door — Motor compartment R.H.	1
C-4981	Door — Motor compartment L.H.	1
A-4913	Hinge — Motor compartment door	
A-4982	Handle — Motor compartment door	2
A-4931	Escutcheon — Motor compartment door	2
A-4983	Latch — Motor compartment door R.H.	1
A-4984	Latch — Motor compartment door L.H.	1
A-4985	Lever — Motor compartment door latch	2
A-4986	Spring — Motor compartment door latch	2
C-4987	Door — Rear	1
C-4987-A	Door — Rear (used on Snowmobile with V-8 engine)	
A-4912	Hinge — Rear door	2
B-4988	Door — Valve service	1
B-4989	Glass — Side window (round 12")	6
A-4990	Retainer side window rubber (12")	6
B-4991	Glass — Side window (round 10")	2
A-4992	Retainer — Side window rubber (10")	2

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