OPERATOR'S MANUAL

SNOWBLOWERS

SB1174 SB1184 SB1194

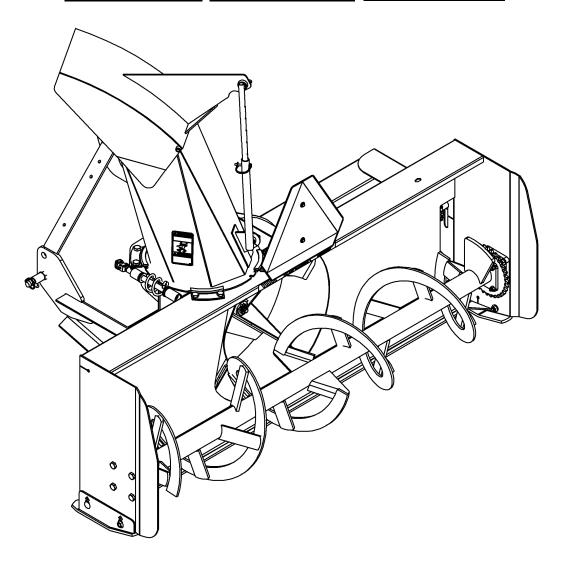




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SPECIFICATIONS

Features and Specifications	SB1174	SB1184	SB1194
Working Width	74"	84"	94"
Transport Width	74"	84"	94"
Working Height	26"	34"	34"
Length	47 3/4"	55 3/8"	55 3/8"
Single/Dual Auger	Single	Single	Single
Auger Diameter	15"	20"	20"
Auger Flighting Thickness	5/16"	3/8"	3/8"
Impeller Diameter	24"	27 1/2"	27 1/2"
Impeller Width	9"	10 1/2"	10 1/2"
Impeller Shaft Diameter	1 3/8"	40 mm (1 9/16")	40 mm (1 9/16")
Number of Impeller blades	4	4	4
Roller Chain	60	60	60
Drive sprocket (# of teeth)	10	10	10
Driven sprocket (# of teeth)	32	32	32
Chain idler	Manual adjustment	Manual adjustment	Manual adjustment
Gearbox Manufacturer	Comer	Comer	Comer
Gearbox Description	Model T-281A	Model T-27D	Model T-27D
Tractor RPM	540	540	540
Impeller RPM	540	540	540
Auger RPM	170	170	170
PTO Manufacturer	Comer	Comer	Comer
PTO Description	40	50	60
Skid Shoe	Adjustable	Adjustable	Adjustable
Skid Shoe Material	High carbon steel	High carbon steel	High carbon steel
End Plate Thickness	3/16"	3/16"	3/16"
Back Plate Thickness	11ga	11ga	11ga
Impeller Housing Thickness	11ga	11ga	11ga
Impeller Blade Thickness	1/4"	3/8"	3/8"
Side Panel Bottom Thickness	3/16"	3/16"	3/16"
Cutting Edge	Welded	Welded	Welded
Cutting Edge Dimension	3/8" x 2"	1/2" x 3"	1/2" x 3"
Chute Base	Standard	Standard	Standard
Parking Stand	Standard	Standard	Standard
Hitch Category	Cat. 1 & 2	Cat. 1 & 2	Cat. 2 only
	ASAE Compatible	ASAE Compatible	ASAE Compatible
Quick Hitch Compatibility	Cat. 1 only	Cat. 1 & 2	Cat. 2 only
HP Requirements - min-max (hp)	20-50	35-90	35-90
Operating Weight (lbs)-hyd. rot. & defl.	715	1130	1182
Shipping Weight (lbs)	628	1060	1021
Approx. Set-up Time (min.) *	35	35	35
Chute Deflector Adjustment (standard)	Manual	Manual	Manual
Onate Donostor Flaguerinom (etamaara)	Hydraulic - cylinder (2"x8")	Hydraulic - cylinder (2"x8")	Hydraulic - cylinder (2"x8")
	including hoses and tips	including hoses and tips	including hoses and tips
Chute Deflector Adjustment (option)	Electric - 8" actuator - 1000 lbs.	Electric – 8" actuator - 1000 lbs.	Electric – 8" actuator - 1000 lbs.
·	including hardware, switch, and	including hardware, switch, and	including hardware, switch, and
	electric cable.	electric cable.	electric cable.
Chuto Potation	Manual - worm gear w/ handle.	Manual - worm gear w/ handle.	Manual - worm gear w/ handle.
Chute Rotation	Hydraulic - cylinder (2"x8") including bracket, hoses, and tips	Hydraulic - cylinder (2"x8") including bracket, hoses, and tips	Hydraulic - cylinder (2"x8") including bracket, hoses, and tips
Churt			
Chute	Two-part	Two-part	Two-part

^{*} With manual rotation

INTRODUCTION

TO THE PURCHASER

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before operation.

This manual has been prepared to assist the owner and operators in the safe operation and suitable maintenance of the implements. The information was applicable to products at the time of manufacture and does not include modifications made afterwards.

Read and understand this operator's manual before attempting to put an implement into service. Familiarize yourself with the operating instructions and all the safety recommendations contained in this manual and those labeled on the implements and on the tractor. Follow the safety recommendations and make sure that those with whom you work follow them.

Illustrations

The illustrations may not necessarily reproduce the full detail and the exact shape of the parts or depict the actual models, but are intended for reference only

Direction Reference

Right Hand and Left Hand are determined by those seen by the conductor standing behind the equipment.

The Dealer is responsible for warranty registration of the unit you have purchased. To assist your dealer in handling your needs, please record hereafter the model number and serial number of your implement and tractor. It is also advisable to supply them to your insurance company. It will be helpful in the event that an implement or tractor is lost or stolen.

MODEL:		
OFDIAL NUMBER :		
SERIAL NUMBER :		
DATE OF PURCHASE :		



SAFETY PRECAUTIONS



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

A DANGER: Indicates an imminently hazardous situation which, if not avoided, will

result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could

result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may

result in minor or moderate injury.

IMPORTANT: Indicates that equipment or property damage could result if instructions

are not followed.

NOTE: Gives helpful information.

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before operation. It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals, to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

BEFORE OPERATION

Children and Bystanders

Tragic accidents can occur if the operator is not alert to the presence of children. Children are generally attracted to machines and the work being done. Never assume children will remain where you last saw them.

- **1.** Keep children out of the operating area and under the watchful eye of another responsible adult.
- **2.** Be alert and turn machine off if children enter the work area.
- **3.** Before and when backing, look behind and look for small children.

- 4. Never carry children while operating the machine. They may fall off and be seriously injured or interfere with safe operation of the machine.
- **5.** Never allow children to play on the machine or attachment even when turned off.
- **6.** Never allow children to operate the machine even under adult supervision.
- **7.** Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.

SAFETY PRECAUTIONS - continued

NOTICE

A safe operator is the best insurance against accidents. All operators, no matter how experienced they may be, should read this Operator's Manual and all other related manuals before attempting to operate an implement. Please read the following section and pay particular attention to all safety recommendations contained in this manual and those labeled on the implements and on the tractor.

THE SNOWBLOWER

Before Operation

- Read and understand this operator's manual and tractor operator's manual. Know how to operate all controls and how to stop the unit and disengage the controls quickly.
- 2. Never wear loose, torn, or bulky clothing around the tractor and implement. It may catch on moving parts or controls, leading to the risk of accident.
- Before the snow season, thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards and other foreign objects.
- **4.** Disengage clutch and shift into neutral before starting the engine.
- **5.** Do not operate equipment in wintertime without wearing adequate winter garments.
- 6. Never attempt to make any adjustments while engine is running. Read this manual carefully to acquaint yourself with the equipment as well as the tractor operator's manual. Working with unfamiliar equipment can lead to accidents. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- **7.** Keep all shields in place and properly tighten all mounting hardware.
- Periodically, inspect all moving parts for wear and replace with authorized service parts if an excessive amount of wear is present.

- **9.** Replace all missing, illegible, or damaged safety and warning decals. See list of decals in the operator's manual.
- **10.** Do not modify or alter this equipment or any of its components, or any equipment function without first consulting your dealer.
- **11.** Keep safety decals clean of dirt and grime.

SAFETY PRECAUTIONS - continued

Snowblower Operation

- Before leaving the tractor unattended, take all possible precautions. Disengage the PTO, stop the engine and remove the ignition key. Lower the implement to the ground.
- 2. Before starting the snowblower, remove any ice that has accumulated in the auger/impeller.
- **3.** Watch carefully for foreign objects that could enter the blower while operating.
- **4.** Be sure the clutch switch/lever is in OFF position before starting engine.
- Do not put hands or feet near rotation parts. Keep clear of discharge opening at all times.
- 6. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- **7.** Adjust collector housing height to clear gravel or crushed rock surface.
- 8. Stop the engine, remove the key, and allow the rotating parts to stop before unclogging the collector/impeller housing or chute, and making any repairs, adjustments or inspections. Use only a 36" long piece of wood to unclog blower.
- **9.** If the snowblower starts to vibrate abnormally, stop the engine immediately and check for cause. Excessive vibration is generally a sign of trouble.
- **10.** Do not run the engine indoors except when starting engine and transporting attachment in or out of building. Carbon monoxide gas is colorless, odourless and deadly.
- **11.** Exercise extreme caution when changing direction on slopes. Do not attempt to operate on steep slopes.
- **12.** Never operate snowblower without guards, and other safety protective devices in place.

- **13.** Never operate snowblower near glass enclosures, automobiles, window wells, embankments, etc., without proper adjustment of snow discharge angle.
- **14.** Never operate machine at high transport speeds on a slippery surface.
- **15.** Use extra caution when backing up.
- 16. Do not direct discharge at bystanders or animals. Ejected objects may cause injury.
- **17.** Disengage power to auger/impeller when transporting or when not in use.
- **18.** Never operate the snowblower without good visibility and lighting.
- **19.** Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable noises

SAFETY PRECAUTIONS - continued

THE TRACTOR

General Information

- Read the operator's manual carefully before using tractor. Lack of operating knowledge can lead to accidents.
- Do not allow anyone but the operator to ride on the tractor. There is no safe place for extra riders

Operating the Tractor

- 1. Never run the tractor engine in a closed building without adequate ventilation, as the exhaust fumes are very dangerous.
- **2.** Never allow an open flame near the fuel tank or battery.
- Make sure the shield is installed when using a PTO-driven equipment and always replace the shield if damaged.
- **4.** Always bring the tractor to a complete stop, shut off the engine, lower the implement to the ground and remove the ignition key before leaving the tractor.
- 5. Never park the tractor on a steep slope.
- **6.** Do not attempt to operate on steep slopes.
- **7.** Use of tire chains for better traction and stability is recommended.
- **8.** Always drive the tractor at speeds compatible with safety, especially when operating over rough ground, crossing ditches, or when turning.
- **9.** Handle fuel with care, as it is highly flammable.
- **10.** Use approved fuel container.
- **11.** Never add fuel to a running engine or a hot engine.
- **12.** Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up spilled fuel.
- 13. Never allow anyone to operate the snowblower until they are thoroughly familiar with basic tractor and snowblower operation.

- 14. A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.
- **15.** Always make sure all snowblower components are properly installed and securely fastened BEFORE operation.

During Operation

- Do not allow anyone to ride on the tractor/snowblower at any time. There is no safe place for passengers on this equipment. The operator MUST sit in the tractor seat.
- **2.** Eye and hearing protection is recommended when operating the snowblower.
- **3.** Operate only during daylight hours, or when the area is well lit with bright artificial light.
- 4. Disengage the PTO (turn to "OFF"), place the transmission in neutral, set the parking brake, shut off the engine and remove the key, and make sure rotating components have stopped BEFORE leaving the operator's seat.
- Inspect the snowblower after striking any foreign object to assure that all snowblower parts are safe and secure and not damaged.

SAFETY PRECAUTIONS

MAINTENANCE

- Park the tractor/snowblower on level ground, set the parking brake, disengage the PTO, shut off the engine, remove the key, and lower the implement to the ground BEFORE making any snowblower adjustments.
- 2. To avoid injury, do not adjust, unclog or service the snowblower with the tractor engine running. Making sure rotating components have completely stopped before leaving the operator's seat
- Keep the tractor/snowblower clean. Snow and ice build-up can lead to malfunction or personal injury from thawing and refreezing in garage.
- **4.** Always wear eye protection when cleaning or servicing the snowblower.
- **5.** Do not work under any part of the tractor or snowblower, unless it is securely supported by safety stands.
- **6.** Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
- 7. Do not modify or alter this equipment or any of its components or operating functions. If you have questions concerning modifications, consult with your dealer.

TRANSPORTATION

- If the tractor/snowblower is to be driven on public roads, it must be equipped with an SMV (Slow Moving Vehicle) sign. Check local traffic codes that may apply to unit usage on public roads and highways in your area.
- **2.** Be alert for all other traffic when driving the tractor/snowblower on public roads or highways.

STORAGE

- 1. Before storing the snowblower, certain precautions should be taken to protect it from deterioration.
- **2.** Clean the snowblower thoroughly.
- 3. Make all the necessary repairs.
- 4. Replace all Safety Signs that are damaged, lost, or otherwise become illegible. If a part to be replaced has a sign on it, obtain a new safety sign from your dealer and install it in the same place as on the removed part.
- **5.** Repaint all parts from which paint has worn or peeled.
- **6.** Lubricate the snowblower as instructed under "**Lubrication**" section.
- When the snowblower is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
- **8.** Attach driveline shield safety chain around driveline by passing it over the upper hitch
- **9.** Store in a dry place.

SAFETY DECALS

Replace immediately if damaged.





5RD2500616

11111

Ø

RISQUE DE PROJECTION D'OBJETS GARDER LES MAINS, LES PIEDS ET LE VISAGE À L'ÉCART DE L'OUVERTURE.

A WARNING

THROWN OBJECTS HAZARD

KEEP HANDS, FEET AND FACE

5RD2500607



EEP HANDS OUT OF

POUR ÉVITER DES BLESSURES GRAVES:

GARDER LES MAINS ÉLOIGNÉES DE LA CHUTE LORSQUE LE MOTEUR EST EN MARCHE. •ARRÈTER LE MOTEUR AVANT DE DÉBLOQUER LA CHUTE. 573

5RD2500605

5RD2500606

SERVICING.

POUR ÉVITER DES
BLESSURESS GRAVES:
GARDER LES MAINS, LES PIEDS
ET LES VÉTMENTS ÉLOIGNÉS
DES VIS SANS FIN
ARRÈTER LE MOTEUR AVANT
DE FAIRE L'ENTRETIEN.

AVOID INJURY FROM ROTATING AUGER:

ING AWAY. OFF ENGINE BEFORE

▲ DANGER RD2500608

/////

5RD2500620

5RD2500621

5RD2500776

WARNING

EALLING OFF CAN RESULT

IN BEING RUN OVER.

TRACTOR MUST BE EQUIPPED WITH ROPS (OR ROPS CAB) AND SEAT BELT. KEEP FOLDABLE ROPS SYSTEMS IN "LOCKED UP" POSITION AT ALL TIMES

BUCKLE UP ! KEEP SEAT BELT SECURELY FASTENED.

FALLING OFF OR GOING UNDERNEATH IMPLEMENT CAN RESULT IN SERIOUS INJURY OR DEATH.

AMISE EN GARDE

TOMBER PEUT OCCASIONNER DE SE FAIRE PASSER DESSUS.

ATTACHEZ-VOUS! GARDER LA CEINTURE E SÉCURITÉ ATTACHER SÉCURITAIREMENT.

TOMBER OU SE PLACER SOUS L'ÉQUIPEMENT PEUT OCCASIONNER DES BLESSURES GRAVE OU LA MORT

5RD2500614

SB1174

5RD655834

Before using:

-Dil level must be checked

-Fill with SAE 80W90, "AGMA 5 EP"

extreme pressure oil or equivalent

-Read instructions manual

8



ROTATING DRIVELINE CONTACT CAN CAUSE DEATH. EEP PEOPLE AND CLOTHING AW DO NOT OPERATE WITHOUT:

- ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE.
- IN PLACE.
 DRIVELINE SECURELY
 ATTACHED AT BOTH ENDS.
 DRIVELINE SHIELD TURNING
 FREELY ON DRIVELINE.

OPERATE ONLY WITH 540 RPM PTO

ARBRE DE TRANSMISSION À
CARDAN. TOUT CONTACT PEUT
CAUSER LA MORT.
TENIR LES VÉTEMENTS
ET PERSONNES À L'ÉCART.
NE PAS FAIRE FONCTIONNER

- NE PAS FAIRE FONCTIONNER
 SANS:
 METTRE EN PLACE LES PROTECTEURS
 DU TRACTEUR, DE L'ÉQUIPEMENT ET
 DE L'ARBRE À CARDAN
 AVOR FINE L'ARBRE À CARDAN
 SOLIDEMENT À CHAQUE BOUT
 CUE LES PROTECTEURS TOURNENT
 LIBREMENT SUR L'ARBRE À CARDAN UTILSER SEULEMENT SUR UNE PRISE DE FORCE DE 540 TOURS/MINUTE.

A MISE EN GARDE

TO O

NÉGLIGER DE SUIVRE LES PROCÉDURES

SÉCURITAIRES D'UTILISATION ENTRAÎNER DES BLESSURES.

VAINS, PIEDS ET VÊTEMENTS É. CIGNÉS DE CES MOTRICES

CE IÉBLOQUER LA MACHINE. DER ZEMOROTI D∵TILIBATION DÉGAGÉ DE TES PERSONNES ET ANIMAUX DER TOUS LES ECRANS PROTECTEURS EN

PI AGE
ME JAMAIS DIRIGER L'ÉVACUATION VERS DES PIETON
BÂTMENTS AUTOMOBILES, ETC
**TOLLOURS DI INISER LIN MAQUE A POUSSIÈRE DANS
UN EVVIRONNEMENT POUSSIÈRE JA.
GARDER TOUTES LES MATERES PLASTIQUES
ELOIGNES DE LA CHALEUR INTENSE ET DES FLAMM
ME JAMAIS PERMETTRE DE PASSAĞERS SUR CET
**TOLLOURS DE LA CHALEUR INTENSE ET DES FLAMM
ME JAMAIS PERMETTRE DE PASSAĞERS SUR CET
**JOHN LAMAIS PERMETTRE DE PASSAĞERS SUR LAMAIS PERMETTRE PERMETTRE DE PASSAĞERS SUR LAMAIS PERMETTRE P

WARRENT
WARS FERNETTHE DES ENFANTS OU DES
SONNES NON FORMÉTES POUR MANOEUVRER
SOUNES NON FORMÉTES POUR MANOEUVRER
EQUIPE VENT.
AS VEHICULER UN TRANSPORT TRAINÉ OU SEMIMINS LÀ PALOS 52 XMM
LEZ JAMAIS SOUS UN ÉQUIPEMENT RELEVÉ 5RD2500611

AWARNING

HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATÉ THE SKIN CAUSING SERIOUS INJURY.



ATTENTION

UN LIQUIDE HYDRAULIQUE SOUS RESSION PEUT PÉNÉTRER LA PEAL ET CAUSER DES BLESSURES SÉRIEUSES.

5RD2500400

WARNING

FAILLURE TO FOLLOW SAFE OPERATING PROCEDURES MAY RESULT IN INJURY.

INSTRUCTION IN SAFETY PRECAUTIONS IN OPERATOR'S

- MANUAL VEFERONIECTO INUST BE WORN AT ALLT MES HEEP PAIDS TEET IN DO COTHING AWAY FROM POWER CRY VIPI PART. CREEN FEROM TRACTION SEAT OLLY. STOP BHOWER BEFORE EXAMING CHERCHOR POSTIC! WAIT FOR ALL MOVEMENTS TO STOP BEFORE STARRING TO APLIANT LIBERTO E SAN CRUCKOOT FEMOMENT MEET PIER AREA OF CHERCHION, CLEAR OF ALL PRESONS AND CHAMBES. AND ANIMALS AND A VINELS. KEEP ALL CUARDS AND SHELDS IN PLACE
- NEVER DIRECT DISCHARGE TOWARD BYSTANDERS.
 BUILDING, CARS ETC.
 ALWAYS USE A DUST MASK WHEN WORKING IN DUST NO
- AQAMASIDE PROGRAMMAN AND PROMITTEISE HEAT COLORITORS MEETING MATTHIALS AWAY FROM ITTEISE HEAT MID CREDITANE INCEPT ALLOW ASSENDERS ON THE NT ALAMAS. HERER ALLOW ASSENDERS ON THE MET ALLOW ASSENDERS ON THE MET TO CHEMATE COLORITOR OF THE METING THE FOR THE ASSENT TO MED OR SEM MICHINING THE METING AND THE METING METING METING METING METING METING METING METING METING METING
- UNITS OVER 20 MPH NEVER 90 UNDERNEATH RAISED EQUIPMENT.

5RD2500610



F ENGINE BEFORE

POUR ÉVITER DES ARRÊTER LE MOTEUR AVANT DE FAIRE L'ENTRETIEN

5RD2500606

5RD2500604

TRACTOR PREPARATION

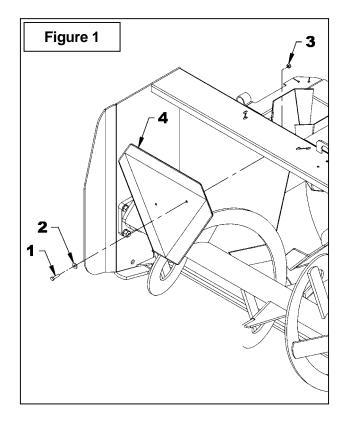
See Dealer for Tractor Preparation information.

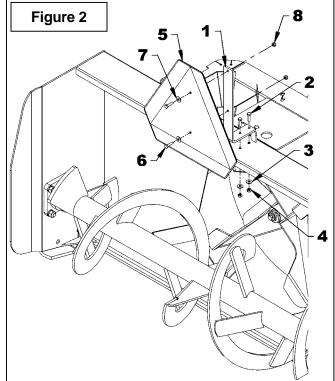
SNOWBLOWER ASSEMBLY

The snowblower is assembled at the factory however snowblower kits must be assembled. Use the present manual and lay out all parts for assembly. Separate bolts and nuts into various sizes. After assembly, torque all the bolts according to the *Torque Specification Table* on page 54.

<u>Installation of SMV Sign</u> (Figures 1-2)

- 1. Figure 1: Remove the 1/4" NC x 1" bolt, the flat washer and the 1/4" nylon insert nut (items 1-2-3) that fixes the sign (item 4) to the frame. Save the hardware.
- 2. Figure 2: Install the sign support (item 1) on the snowblower with two 1/4" NC x 1" bolts, two 1/4" flat washers and two 1/4" NC nylon insert nuts (items 2-3-4).
- **3. Figure 2:** Using the hardware previously removed, attach the SMV sign (item 5) with two 1/4" NC x 1" bolts, two flat washers and two 1/4" nylon insert nut (items 6-7-8).
- **4.** Remove the black protective film from the SMV sign.





<u>Installation of Chute and Manual Rotation Kit 5RDF0016</u> (Figures 3-4-5-6)

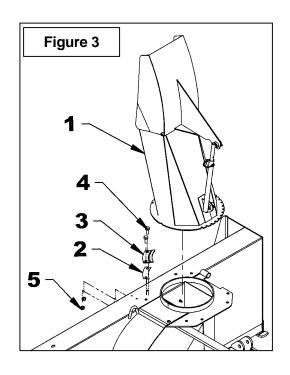
<u>NOTE</u>: The rotation handle can be installed on the right or left side of the three point hitch.

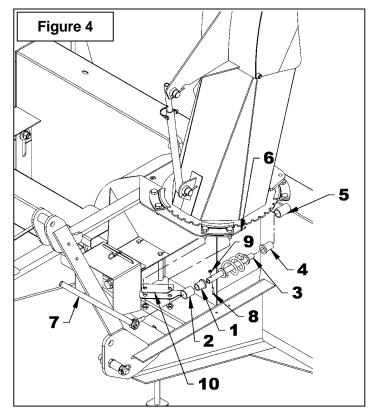
- 1. Figure 4: Insert the 1 11/16" plastic bushing (item 1) in the worm support bracket (item 2) and insert the longest end of the rotation worm (item 3).
- **2. Figure 4:** Insert the 1 5/16" plastic bushing (item 4) in the welded tube of the snowblower (item 5).
- **3. Figure 4:** Place the support (item 2) and the support spacer (item 10) under the snowblower's right upper plate (item 6).
- 4. Figure 3: Apply grease on the chute base and around the snowblower chute ring and install the chute (item 1) with the four retaining plates (item 3), four spacers (item 2), eight 1/4" x 3/4" bolts and eight serrated flange nuts (items 4-5). Tighten securely.
- 5. Figure 4: Insert the rotation tube (item 7) in the worm assembly aligning the holes, insert an Allen socket head capscrew 10-24 x 1" (item 8) making sure the screw sinks into the rotation worm and secure with a nylon insert nut (item 9).
- **6. Figure 5:** Install the rotation bracket (item 1) on the left or right arm of the three point hitch with two 3/8" NC x 1 1/4" bolts, lockwashers and nuts (items 2-3-4). Tighten firmly.
- 7. Figure 5: Attach the handle support bracket (item 5) to the rotation bracket (item 1) with a 3/4"NC x 1 1/4" bolt, lockwasher and nut (items 6-7-8) making sure to attach the brackets in the direction illustrated.

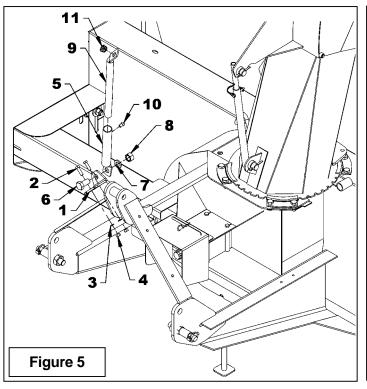
- 8. Figure 5: Insert the handle support (item 9) in the bracket (item 5) adjusting the height of the support according to your needs and secure in place with a 3/8" x 1/2" square head setscrew (item 10).
- **9. Figure 5:** Insert the grommet (item 11) in the handle support (item 9).
- **10. Figure 6:** Insert the handle (item 1) in the handle support (item 4) and in the rotation tube. Select desired length, align nearest holes and secure with the 4 mm x 80mm hairpin (item 2). Install the plastic handle (item 3).
- 11. Figure 5: Once the snowblower is attached to the tractor, adjust handle position and height to ensure comfort and safe operation. Tighten setscrew (item 10) on the handle support as well as the 3/4" x 1 1/2" bolt, 3/4" lockwasher and 3/4" nut (items 6-7-8).
- **12. Figure 6:** To insure the manual rotation functions properly, position the handle support (item 4) the closest possible to the top link mounting point of the three point hitch while making sure it does not come into contact with the operator's seat when the snowblower is fully raised.
- **13.** Tighten all bolts according to the *Torque Specification Table* on page 54.

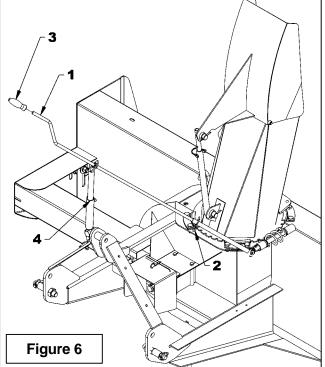


To avoid personal injury, check the full lifting range of the snowblower, to ensure that the chute rotation handle is clear of the operator's area when the snowblower is in raised position.









<u>Installation of Chute and Hydraulic Rotation Kit 5RDF0018</u> (Figures 7-8-9)

- **1. Figure 7:** Place the hole identified "POSITION" over the indentation in the housing.
- 2. Figure 7: Apply grease on the chute base and around the snowblower chute ring and install the chute with the four retaining plates (item 1), eight 1/4" x 3/4" bolts and eight serrated flange nuts (items 2-3). Do not tighten immediately.
- 3. Figure 7: Attach the rotation bracket (item 5) in the slot on the left side of the housing with a 1/2"NC x 1 1/4" hex. bolt and a 1/2" serrated flange nut (items 6-7).
- 4. Figure 7: Place the spacer ring (item 8) on the 13/16" hole of the housing; insert the pivot bushing (item 9) in the bell crank (item 10) and slide the bell crank between the flat bars of the rotation bracket (item 5).
- 5. Figure 7 SB1174: Attach the other end of the bracket (item 5) and the bell crank (item 10) in the 13/16" hole of the housing with the 3/4"NC x 4" hex. bolt, a 3/4" lockwasher and a 3/4" hex. nut (items 12-11-13) in the exact order shown. Tighten securely.
- 6. Figures 7-8 SB1184 & SB1194: Attach the other end of the bracket and the bell crank (fig. 7, items 5-10) in the 13/16" hole of the housing with the 3/4"NC x 5" hex. bolt, a 3/4" lockwasher and a 3/4" hex. nut (fig. 8, items 1-2-3) in the exact order shown. Tighten securely.
- 7. Figure 7: Grease generously both holes of the push arm (item 17) and install one end under the flat bar welded on the base of the chute and secure with a 1/2" x 1" shoulder screw, two 9/16" hole flat washer, a 3/8" hole flat washer and a 3/8"NC stover nut (items 14-18-15-16) in the exact order shown. Tighten leaving some movement to the mechanism.
- 8. Figure 7: Install the other end of the push arm (item 17) under the bell crank (item 10) and secure with a 1/2" x 1" shoulder screw, a 9/16" hole flat washer, a 3/8" hole flat washer and a 3/8"NC stover nut (items 19-18-20-21) in the exact order shown. Tighten leaving some movement to the mechanism.

- 3. Figure 7: Attach the fixed section of the cylinder (item 4) to the rotation bracket (item 5) and the sliding section to the bell crank (item 10) placing a Ø 1 1/16" flat washer (item 22) between the cylinder yoke and the top of the bell crank then secure with the cylinder pins and the circlips. Point the hydraulic ports upward as illustrated.
 - **NOTE:** The 1 1/16" flat washer (item 22) is required only if the cylinder pin rubs against the snowblower housing
- 9. Figure 9: Connect the 3/8" ends of both hoses (item 2) to the cylinder (item 1) and install a quick coupler with rubber dust cap (items 6-7) at the end of each hose.
- 10. Figure 9: Secure the hoses on the three point hitch with the hose clamp, 3/8" NC x 1 1/2" Ig bolt and 3/8" NC nylon insert nut (items 4-3-5) and attach hoses together with the nylon tie wraps (item 8) where needed.

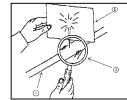


CAUTION

To avoid serious personal injury. Escaping hydraulic/ diesel fluid under pressure can penetrate the skin causing serious injury.

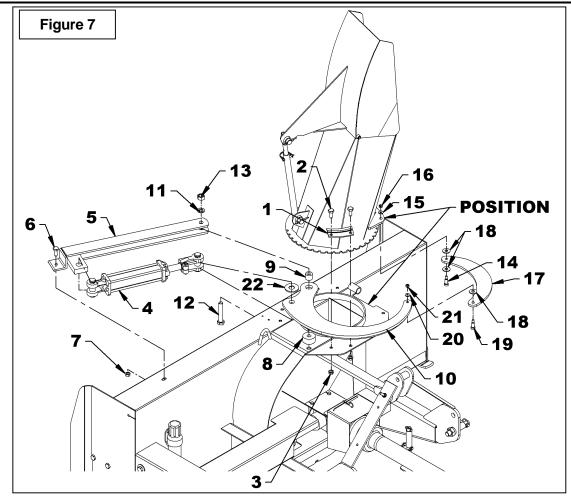
 Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.

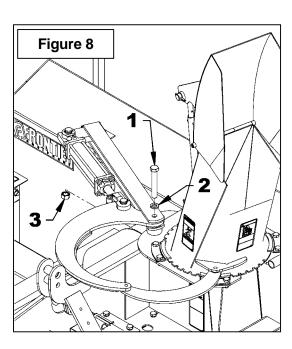


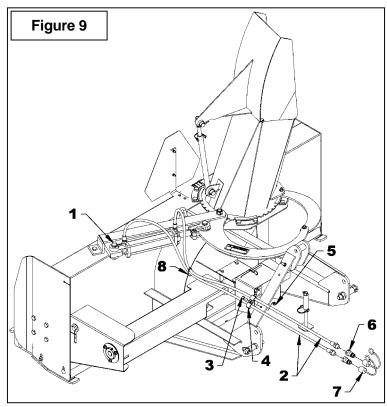


- 1. Hydraulic hose
- 2. Cardboard
- 3. Magnifying glass
- Stop engine and relieve pressure before connecting or disconnecting lines.
- Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.





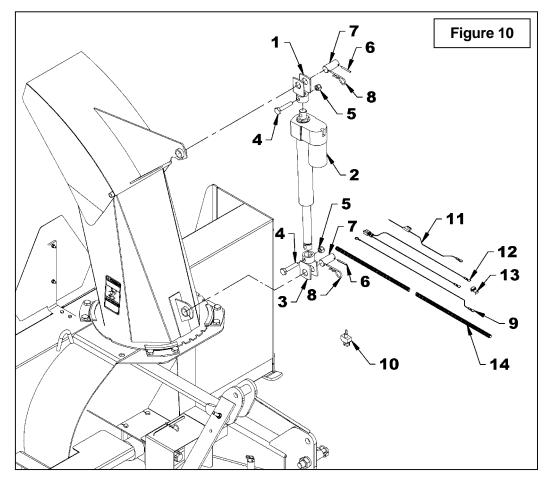


<u>Installation of Electric Deflector Kit 5RDF0021</u> (Figures 10-11-12 & Electrical Diagram)

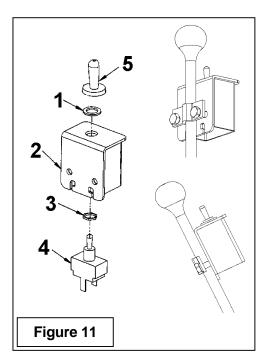
- 1. Figure 10: Install the longest clevis (item 1) on the actuator base (item 2), the shortest one (item 3) on the other end and attach with two 1/2" NC x 2 1/2" bolts and 1/2" NC nylon insert locknuts (items 4-5).
- **2. Figure 10:** Install a 3/16" x 1 3/4" spring pin (item 6) on each 1" pin (item 7).
- 3. Figure 10: Attach the actuator using the two 1" pins (item 7) and secure with 4mm x 80mm hairpins (item 8).
- **4. Figure 10 & diagram:** Connect the wires to the switch (item 10) as follows:
 - 72" black ground wire (item 9) to terminal "C" (see diagram).
 - 72" red fuse wire (item 11) to terminal "B (see diagram).
 - 360" red and black actuator wires (item 12) to terminal "A" and "D" (see diagram).

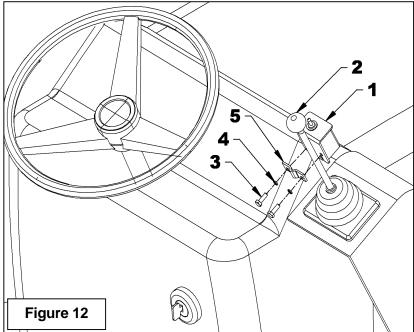
- 5. Figure 11: Insert the switch (item 4) in the switchbox (item 2), secure with the two nuts (items 1-3) supplied with the switch and screw the rubber cap (item 5) on the switch in the order shown.
- 6. Figure 12: Place the switchbox (item 1) on the lever in a position that will be comfortable when the hand is on the knob and attach with the box clamp (item 5), two 1/4"NC x 3/4" hex. bolts and two 1/4" lockwashers (items 3-4) making sure the clamp is in the right direction so the lower openings on the switchbox are not blocked.

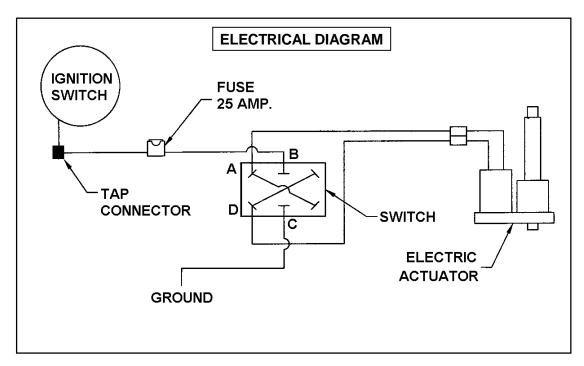
NOTE: Tighten the bolts just enough to securely fix the clamp and the switchbox on the lever. DO NOT TIGHTEN TOO MUCH so the clamp doesn't deform.



- **7. Figure 10:** Connect the ground wire's round terminal (item 9) to any grounding screw on the tractor.
- **8. Figure 10:** Connect the fuse wire (item 11) to the tractor ignition switch wire using the tap connector (item 13).
- **9. Figure 10:** Connect the actuator wires' female connector (item 12) to the electric actuator (item 2).
- **10. Figure 10:** Place the loom (item 16) around all the wires to protect them. Secure the loom using tie wraps.







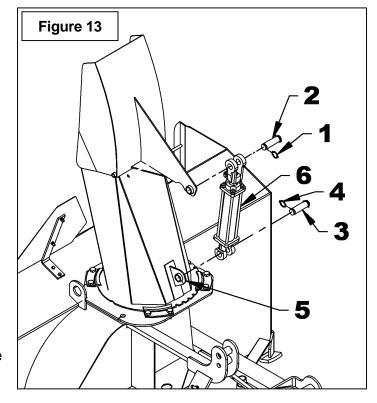
Installation of Hydraulic Deflector Kit 5RDF009

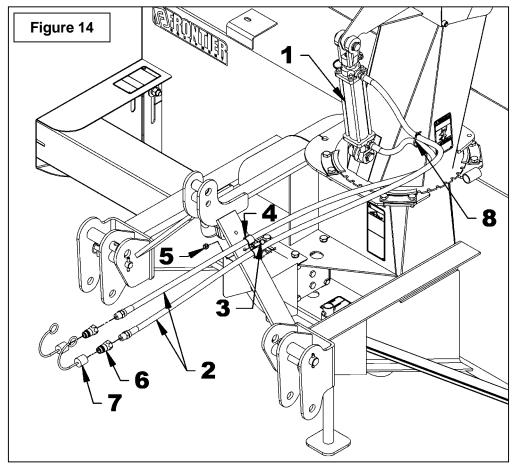
(Figures 13-14)

1. Figure 13: Remove a circlip (items 1-4) from each cylinder pin (items 2-3) and remove the pins. Placing the hydraulic ports in the position shown on figure 14, attach the fixed end of the cylinder (item 6) to the chute base (item 5) and the rod end to the upper chute bracket with the pins and circlips (items 1-2-3-4).

- 2. Figure 14 Connect the 3/8" ends of both hoses (item 2) to the cylinder (item 1) and install a quick coupler with rubber dust cap (items 6-7) at the end of each hose.
- 3. Figure 14: Secure the hoses on the three point hitch with the hose clamp, 3/8" NC x 1 1/2" Ig bolt and 3/8" NC nylon insert nut (items 4-3-5) and attach hoses together with the nylon tie wraps (item 8) where needed.

<u>Note</u>: Make sure to leave enough slack to the hoses to allow complete rotation movements.





<u>Installation of Snowblower with Three Point Hitch</u> (Figures 15-16-17)

SB1174

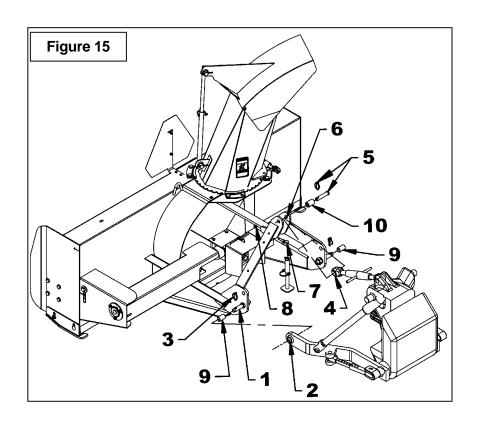
(Figure 15)

- 1. Install the two cat.1 pins (item 1) on the right and left snowblower hitches in the lower holes as shown on figure.
- 2. Category 1: Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
- **3. Category 2:** Insert the 1 1/8" OD x 1 3/4" Ig bushings (item 9) on each pin (item 1). Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
- **4. Category 1:** Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the tractor pin and linchpin (item 5 not included).
- **5. Category 2:** Insert a 1 1/4" OD x 1 7/8" Ig bushing (item 10) on the tractor pin (item 5-not included). Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the tractor pin and linchpin (item 5 not included).

- **6.** Adjust the snowblower using the tractor upper link so that the snowblower operates parallel to the ground.
- Set the tractor anti-sway turnbuckles so the snowblower does not sway. Be sure there is no contact with the tires.
- 8. Install the eyebolt (item 7) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 8).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.



SB1184

(Figures 16-17)

CATEGORY 1

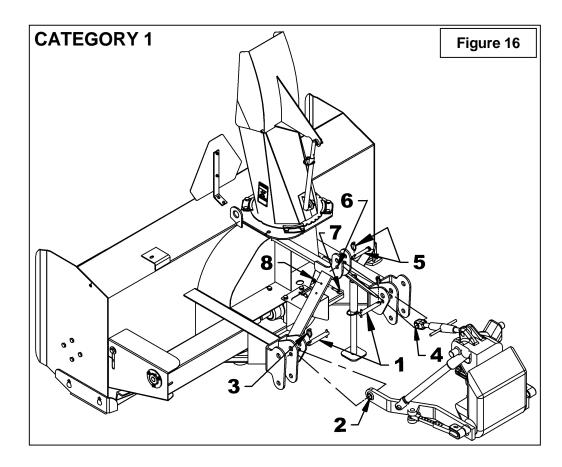
(Figure 16)

- 1. Install the two cat.1 pins (item 1) on the right and left snowblower hitches in the lower holes of the inside plates as shown on figure.
- 2. Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
- **3.** Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the pin and linchpin (item 5 not included).
- **4.** Adjust the snowblower using the tractor upper link so that the snowblower operates parallel to the ground.
- **5.** Set the tractor anti-sway turnbuckles so the snowblower does not sway making sure there is no contact with the tires.

6. Install the eyebolt (item 7) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 8).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.



SB1184 & SB1194

CATEGORY 2

(Figure 17

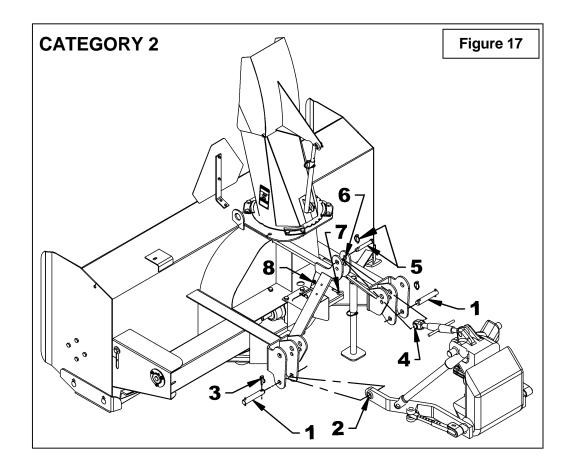
- 1. Install the two cat. 2 pins (item 1) on the right and left snowblower hitches in the lower holes of the outside plates as shown on figure.
- 2. Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
- 3. Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the tractor pin and linchpin (item 5 not included).
- **4.** Adjust the snowblower using the tractor upper link so that the snowblower operates parallel to the ground.
- **5.** Set the tractor anti-sway turnbuckles so the snowblower does not sway. Be sure there is no contact with the tires.

Install the eyebolt (item 7) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 8).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.

6.



<u>Installation of Snowblower with Quick Hitch</u> (Figures 18-19-20)

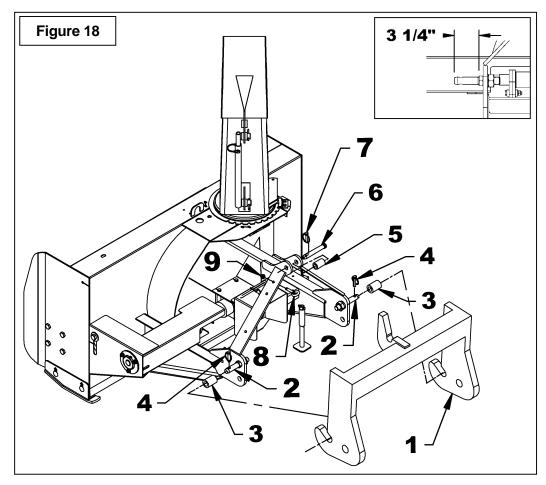
SB1174 (Figure 18)

CATEGORY 1 only

- 1. Install the two cat.1 pins (item 2) on the right and left snowblower hitches in the upper holes leaving 3 1/4" between the jam nut and the end of the pin as shown on figure.
- 2. Insert the two 2 1/8" Ig bushings (item 3) on each pin and lock in place with the two 7/16" linchpins (item 4).
- 3. Insert the 1 7/8" Ig bushing (item 5) between the upper attaching plates and lock in place with the tractor hitch pin and a 7/16" linchpin (items 6-7).
- 4. Install the eyebolt (item 8) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 9).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.



SB1184

(Figures 19-20)

CATEGORY 1

(Figure 19)

- 1. Place the two 1 1/2" x 2 1/8" Ig bushings (item 3) between upper holes of the interior and middle plates, insert the 1 1/8" x 6 1/4" Ig cat.2 pins (item 2) from the inside and lock in place with 7/16" linchpins (items 4).
- 2. Insert the 1 7/8" Ig bushing (item 5) between the upper attaching plates and lock in place with the 3/4" x 5 7/16" pin and a 7/16" linchpin (items 6-7).
- 3. Install the eyebolt (item 8) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 9).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.

SB1194

(Figure 20 only)

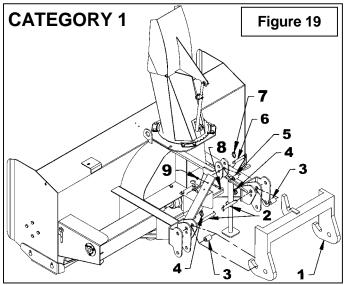
CATEGORY 2

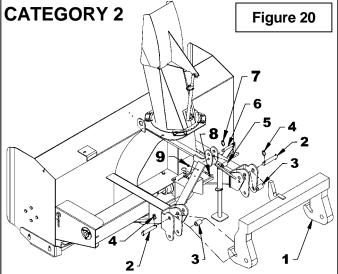
(Figure 20)

- 1. Place the two 1 1/2" x 3 3/8" Ig bushings (item 3) between upper holes of the exterior and middle plates, insert the 1 1/8" x 6 1/4" Ig cat.2 pins (item 2) from the outside and lock in place with 7/16" linchpins (items 4).
- 2. Insert the 1 7/8" Ig bushing (item 5) between the upper attaching plates and lock in place with the 3/4" x 5 7/16" pin and a 7/16" linchpin (items 6-7).
- 3. Install the eyebolt (item 8) in the upper hole of the left or right side of the three point hitch by screwing the eyebolt nut to the top and locking eyebolt in place with a 3/8" serrated flange nut (item 9).



Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 24 to 26 for instructions.





IMPORTANT:

A proper initial installation will give you years of satisfactory service on your equipment. Please read carefully following instructions that have been specially included to help you and ensure you are satisfied with your purchase.



WARNING

Unfortunately, snowblowers will be faced with forgotten or hidden objects under the snow, such as: chain, tires, stones, pieces of wood, etc. In spite of all our efforts, machines are not built to resist all those conditions.

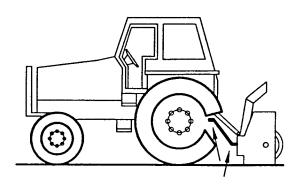
How to Determine Driveline Angles

IMPORTANT: To obtain the proper universal joint angles, it is recommended to adjust the three point hitch at the furthest point from the tractor recommended by the manufacturer

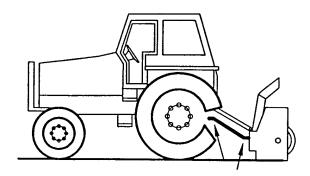
Danger: Tractors Too Big

It is dangerous to use a tractor that is too big and powerful. The tractor will always be able to overload the blower, even if the machine is already at maximum capacity. Furthermore, tractors being very high, the driveline angles will be excessive which means the universal joints will be very vulnerable and the life of the driveline will be dramatically reduced.

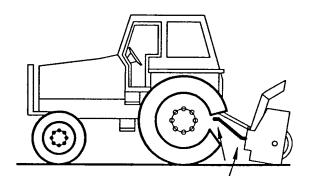
The universal joint angle is directly related with the life of driveline. In order to reduce the angle, it is necessary to increase the distance between the snowblower and the tractor.



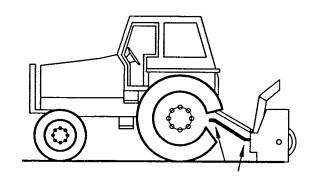
Angles of Driveline Joints Too Large
Avoid



Reasonable Angles of Driveline Joints
Acceptable



<u>Unequal Angles at Driveline Joints</u> Avoid



<u>Equal Angles at Driveline Joints</u> <u>Recommended</u>

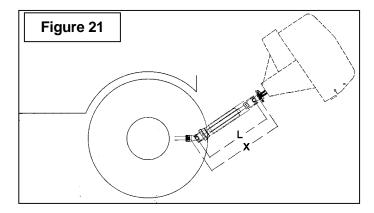
Angles at Each End of Driveline

A popular habit is to change the snowblower angle in order to obtain a better scraping effect. This practice can become harmful to the driveline since the angle at each end is unequal. This results in a fan speed variation as well as a drastic increase of load on cross and bearings. To be avoided: It is recommended to always keep tractor driveline and snowblower input shaft parallel.

Determining Driveline Length

<u>IMPORTANT</u>: Before using the equipment, make sure the driveline is not too long. At working position, the two half drivelines must intersect each other sufficiently to insure maximum efficiency but there must not be any interference.

- To determine the "L" length for your tractor model first find the "X" factor by measuring the horizontal distance between the end of the tractor's drive shaft and the end of the snowblower's driven shaft when the snowblower is in transport position as shown on Figure 21.
- Choose in the table below the "Y" factor according to the tractor category and deduct that number from "X" to determine "L" which is the center-to-center length between the universal joints.



L = X – Y				
3 PTS HITCH CATEGORY	Υ			
Cat. 1	4 1/2"			
Cat. 2	5 1/2"			

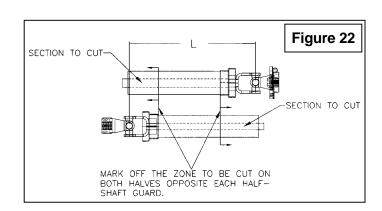
NOTE: Before cutting, make sure the two shafts intersect by at least 7 3/4" when in working position that is when the snowblower rests on the ground.

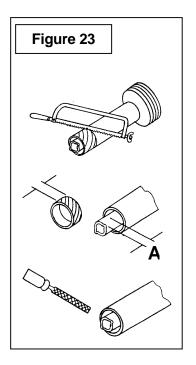
- 3. Hold the two half-shaft side by side and locate the "L" length between the two center-to-center half-shaft universal joints. Mark off the zone to be cut on both halves opposite each half-shaft guard as shown on Figure 22.
- **4.** Cut off inner and outer guard tubes as well as the inner and outer telescopic sections.
- 5. Cut the guard a second time leaving the same distance between the end of the guard and the end of the shaft as existed before. To obtain the proper distance "A" shown on Figure 23, cut the guard according to the following table:

DISTANCE A			
Male PTO Female PTO			
1 3/4"	1 1/4"		

- **6.** File down tubes and remove chips.
- **7.** Apply grease to inside of outer telescopic section.

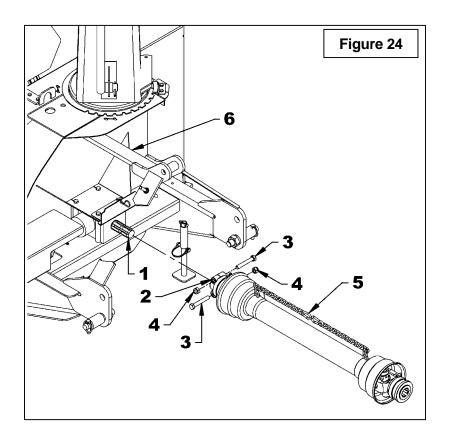
IMPORTANT: Work with fully guarded shafts only!





<u>Driveline Installation</u> (Figure 24)

- **1.** Separate the snowblower from the three point or quick hitch.
- 2. Remove paint from snowblower gearbox shaft (item 1) and grease driveline sliding surfaces and yoke (item 2).
- 3. Remove the bolts (items 3) from the driveline yoke (item 2) and slide yoke over drive shaft using the sliding action of the driveline. Make sure the driveline is well secured to the shaft by reinstalling the bolts and nuts (item 3-4) in the order shown. Tighten the bolts according to the *Torque Specification Table* on page 54.
- **4.** Attach safety chain (item 5) around the upper link (item 6) to prevent the guard from spinning.

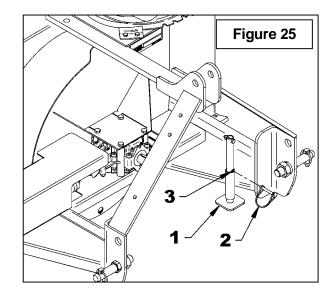


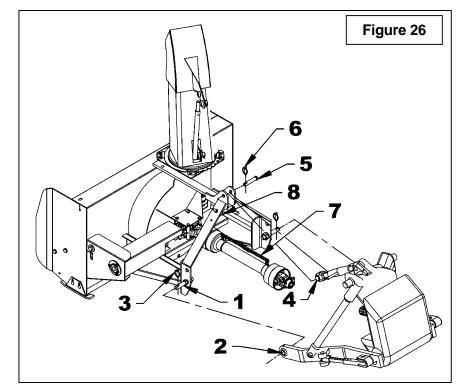
<u>Removing Snowblower from Tractor</u> (Figures 25-26-27)

Three Point Hitch

- 1. Set parking brake and turn engine off.
- 2. Figure 25: Remove the wire round lock pin (item 2), lower the parking stand (item 1) completely to the ground to release all pressure from the three-point and reinsert the wire round lock pin in the lower hole (item 3).
- **3. Figure 26:** Detach upper link (item 4) by removing linchpin and pin (items 6-5).
- **4. Figure 26:** Disconnect driveline from tractor and attach the driveline safety chain (item 7) to the three point hitch eyebolt (item 8).
- 5. Figure 26: Carefully detach lower links (items 2) from hitch pins (item 1) by removing linchpins (items 3), loosen anti-sway turnbuckles and slowly back tractor away from the snowblower.

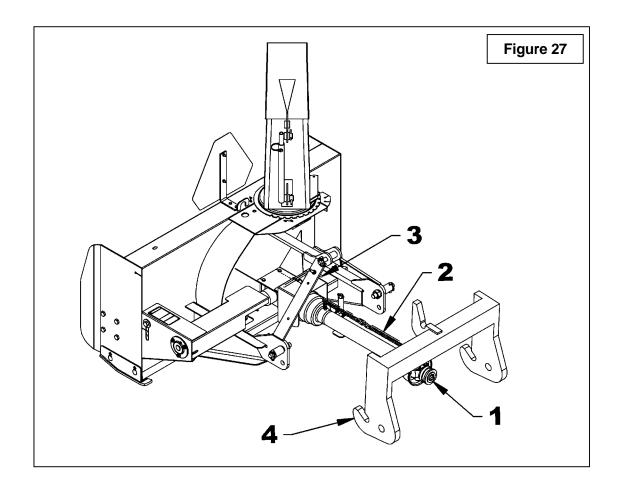
<u>IMPORTANT</u>: To avoid damages to the snowblower, retorque all bolts after the first 10 hours of operation.





Quick Hitch

- 1. Set parking brake and turn engine off.
- 2. Figure 25: Remove the wire round lock pin (item 2), lower the parking stand (item 1) and reinsert the wire round lock pin in the lower hole (item 3).
- 3. Figure 27: Disconnect driveline (item 1) from tractor and attach the driveline safety chain (item 2) to the three point hitch eyebolt (item 3).
- **4. Figure 27:** Slowly back the tractor away to release quick hitch (item 4) from the snowblower.



OPERATION

GENERAL PREPARATION

- Read the operator's manual carefully before using the tractor and snowblower. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- **2.** Make sure the snowblower is clear of snow before engaging the driveline.
- **3.** Make sure the auger and fan operate freely.
- Check the oil level in the worm Gearbox and if necessary, add 80W90 SAE gear oil, AGMA 5EP oil or equivalent.
- Check the two shear bolts, one on the driving shaft, and the one on the PTO, for proper tightness.
- **6.** Adjust so that the snowblower skid shoes run level.
- **7.** Wear adequate winter outer garments while operating equipment.

OPERATING CONTROLS

Work and Travel Speed

Working ground speed will depend on the depth and density of the snow to be cleared. Normally, ground speed will range from 4 to 7 MPH for light, dry snowfalls 3 to 6 inches, and 1 to 3 MPH for heavy, wet or drifted snow. To transport, disengage the drive shaft and raise the snowblower to full transport height.

Raising and Lowering the Snowblower

Move the three point lever on right hand side of seat down or forward to lower, and up or rearward to raise.



To avoid personal injury, be sure the tractor engine is off, the drive shaft disengaged, and all movement has stopped before making an adjustments.

ADJUSTMENTS

<u>Reduction Chain Tension Adjustment</u> (Figure 28)

The premature wear of the chain may be caused by tension being too tight. It is therefore important not to tighten chain to its maximum.

- To adjust the tension on the drive chain, loosen the bolt (item 1), securing the idler sprocket to the snowblower housing.
- To tighten the chain, lower the bolt. Leave approximately 1/8" deflection in one span of the chain. Retighten securely the bolt holding the idler sprocket.

<u>Skid Shoe Adjustment</u> (Figure 28)

Adjust the skid shoes so that the snowblower runs level and according to the surface conditions so that stones are not thrown with the snow.

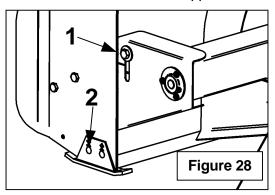
Adjust both skid shoes to the same height to keep the cutting edge level and adjust upwards for smooth surfaces.

Loosen skid shoe bolts (item 2) and adjust according to instructions below, and securely tighten bolts:

Clearance between cutting edge and surface:

- Paved surface: Insert bolts in lower hole.
- Uneven or gravel surface: Insert bolts according to distance needed: 1/2" - middle hole

1" - upper hole



Manual Deflector Adjustment

Set the angle of deflection according to the distance the snow must be thrown. To set the deflector angle, remove the adjusting pipe hairpin and adjust the adjusting rod to the desired deflector angle. Secure with the adjusting pipe hairpin.

OPERATION

SNOW REMOVAL METHODS

When removing snow, do not use the snowblower as a dozer blade to push snow. Let the snowblower work its way through deep drifts. If the speed of your tractor is too fast, the snowblower may become overloaded and clog. For best results, raise the snowblower and remove a top layer of snow. A second pass with the snowblower will remove the remaining snow.

<u>IMPORTANT</u>: Use full RPM power when removing wet, sticky snow. Low RPM power will tend to clog the chute.

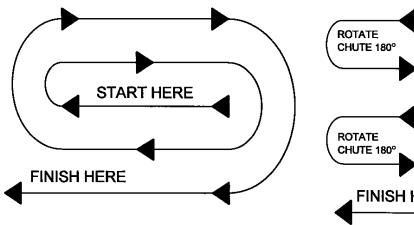


Do not use hands or feet to unclog chute. Do not attempt to clear clogged chute of snow while tractor engine is running. If the chute clogs, disengage the drive shaft, shut off the tractor engine, remove the ignition key, wait for all movement to stop, and then clear the snow from the chute.

A definite pattern of operation is required to thoroughly clean the snow area. These patterns will avoid throwing snow in unwanted places as well as eliminating a second removal of snow

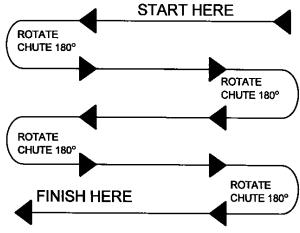
DISCHARGE SNOW BOTH SIDES

PATTERN 1



DISCHARGE SNOW BOTH SIDES

PATTERN 2



DISCHARGE SNOW THIS SIDE ONLY

Where it is possible to throw the snow to the left and right (above), as on a long driveway, it is advantageous to start in the middle. Plow from one end to the other, throwing snow to both sides without changing the direction of the discharge guide If the snow can only be thrown to one side of the driveway or sidewalk (above), start on the opposite side. At the end of the first pass, rotate the discharge guide 180 degrees for the return pass. At the end of each succeeding pass, rotate the discharge guide 180 degrees to maintain direction of throw in the same area.

MAINTENANCE

MAINTENANCE

Shearbolts

Check the shearbolts indicated on the figure below at frequent intervals for proper tightness to be sure the blower is in safe working condition. If the shearbolts need replacement, use the following parts only:

Drive shaft:

Shearbolt hex. 5/16" NC x 1 3/4" gr.5, incl. nut. Part # 5RD665547.

Driveline:

SB1174

Shearbolt M8 x 1.25 x 50mm gr. 6.6 and nut. Part # 5RD4700060 .

SB1184 & SB1194

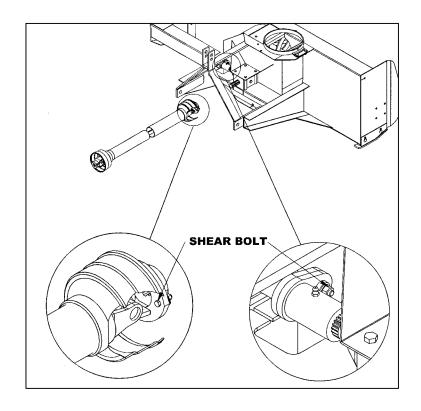
Shearbolt M10 x 1.5 x 55 mm gr. 8.8 and nut. Part # 5RD657199.



Provide adequate blocking before working under the snowblower when in the raised position.

Driveline

IMPORTANT: When the snowblower is not used for more than two weeks, perform driveline maintenance and always store it in a dry place, away from bad weather conditions.

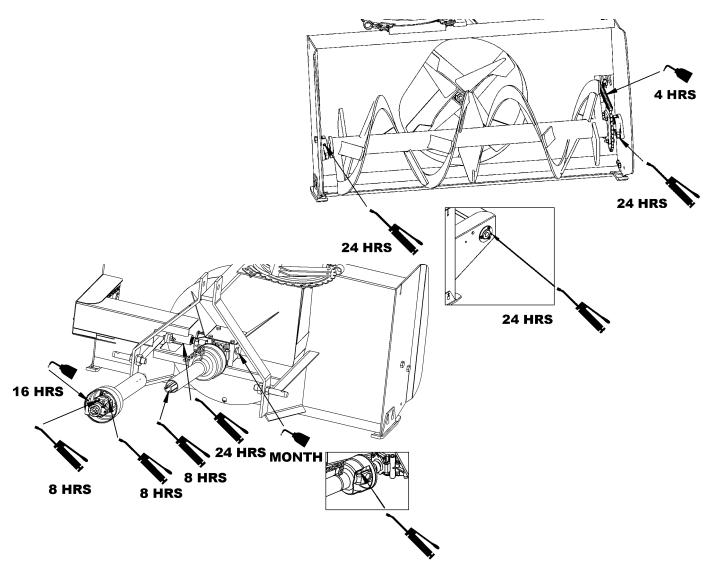


MAINTENANCE

LUBRICATION

Use oil or a grease gun and lubricate as follows:

DESCRIPTION	INTERVAL	LUBRICATION REQUIRED
Driveline	8 hours	Grease each universal joint. Separate the sliding parts and cover each one of them with grease
	16 hours	Oil the push pins
Chain	4 hours and after each operation	Lubricate with chain lube
Drive Shaft	24 hours of operation	Grease fitting on shear plate
Gearbox	Every month	Check oil level. If needed, add AGMA 5EP extreme pressure oil, SAE 80W90 gear oil or equivalent.
	Once a year	Replace oil
Bearing	24 hours of operation	Grease each auger bearing



MAINTENANCE

DRIVELINE TROUBLESHOOTING

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
QUICK-DISCONNECT YOKE	 Quick-disconnect pin tight or completely seized. Quick-disconnect pin damaged (broken or bent) Quick-disconnect pin damaged in the locking portion. 	 Quick-disconnect pin dirty (insufficient maintenance). Quick-disconnect pin defective (forced engagement, incorrect handling) Excessive shaft length. Axial loads too high. 	 Clean, oil and follow service instructions. Replace quick-disconnect pin. Shorten shaft length (cut both telescopic tubes as well as shield and remove burrs). Replace quick-disconnect pin. Clean and grease telescopic tubes, and replace both tubes, if necessary. Replace quick-disconnect pin.

Note: Quick-disconnect pins must be cleaned and greased every 16 hours.

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
YOKE	Yoke ears deformation	 Excessive shaft length. Axial loads too high. Excessive working angle and torque. 	 Shorten shaft length (cut both telescopic tubes as well as shields and remove burrs). Replace defective yokes. Clean and grease telescopic tubes, and replace both tubes, if necessary. Replace defective yokes. Verify compatibility between shaft and working conditions (torque vs. angle). Disengage tractor driveline during cornering or when lifting or lowering the implement. Change to a larger driveline size. Replace defective yokes.
	Yoke ears distorted.	Overload caused by high starting and peak torques.	 Engage driveline more carefully. Use appropriate safety devices. Replace defective yokes.
	Yoke ears worn or pounded.	Excessive working angle.	 Avoid excessive working angle. Disengage tractor driveline during cornering. Replace defective yokes.

MAINTENANCE

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
CROSS KIT	Cross arms broken.	 Extreme torque peak or shock load. Axial loads too high. 	 Use appropriate safety device. Change to a larger driveline size. Shorten driveline shaft. Replace defective cross bearings.
	 Bearing caps turning in their cross journal. Overheated bearing caps. 	 Excessive continuous torque and/or excessive working angle. Inadequate greasing. 	 Verify compatibility between shaft and working conditions. Carefully follow greasing instructions. Replace defective cross bearings.
	Accelerated wear of cross kit.	 Excessive continuous torque and/or excessive working angle. Inadequate greasing. 	 Verify compatibility between shaft and working conditions. Carefully follow greasing instructions. Replace defective cross bearings.

Note: Cross bearings must be greased every 8 working hours.

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
TELESCOPIC TUBES	Telescopic tubes failure or twisting.	 Extreme torque peak or shock load. Short tube engagement. 	 Use appropriate safety device. Change to a larger driveline size. Replace the driveline drive shaft with one having adequate length. Replace defective tubes.
	Accelerated wear of telescopic tubes.	 Extreme load when sliding. Short tube engagement. Inadequate greasing. Dirt 	 Change to a driveline with rilsan coated inner tube. Replace the driveline with one having adequate length. Carefully follow greasing instructions. Replace defective tubes.

Note: Telescopic tubes must be cleaned and greased every 8 working hours.

MAINTENANCE

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
SHIELD	Excessive wear of shield bearings.	 Insufficient lubrication. Incorrect chain mounting. Shield interfering with implement. 	 Follow lubrication instructions. Mount chain to allow maximum angularity. Avoid contact of the shields with fixed parts of the machine or tractor. Replace shield bearings.
	Chain moving or failure.	Shield interfering with implement. Incorrect chain mounting.	 Avoid contact of the shields with fixed parts of the machine or tractor. Mount chain to allow maximum angularity. Replace defective parts.
	Shield cone damaged.	 Shield cone in contact with components on the tractor and/or implement. Excessive angularity. 	 Eliminate interference between Shield cones and any part on the tractor and/or implement. Avoid excessive angle during cornering or when lifting or lowering the implement. Replace damaged Shield cones.
	Shield tubes damaged (deformed and split at one side).	 Shields in contact with components on the tractor and/or implement. Shield tubes overlap too short or no overlap at all with extended driveline. 	 Eliminate interference between Shield cones and any part on the tractor and/or implement. Replace damaged tubes. Adjust Shield tubes length with longer tubes.

Note: Shield bearings must be greased every 8 working hours.

INTRODUCTION

All parts are illustrated in "exploded views" which show the individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Reference Number" (REF) column, and are followed by the description and quantity required.

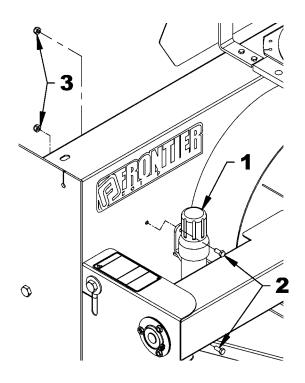
Right Hand and Left Hand are determined by those seen by the conductor standing behind the equipment.

The manufacturer reserves the rights to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or the product or products themselves, without any liability or obligation.

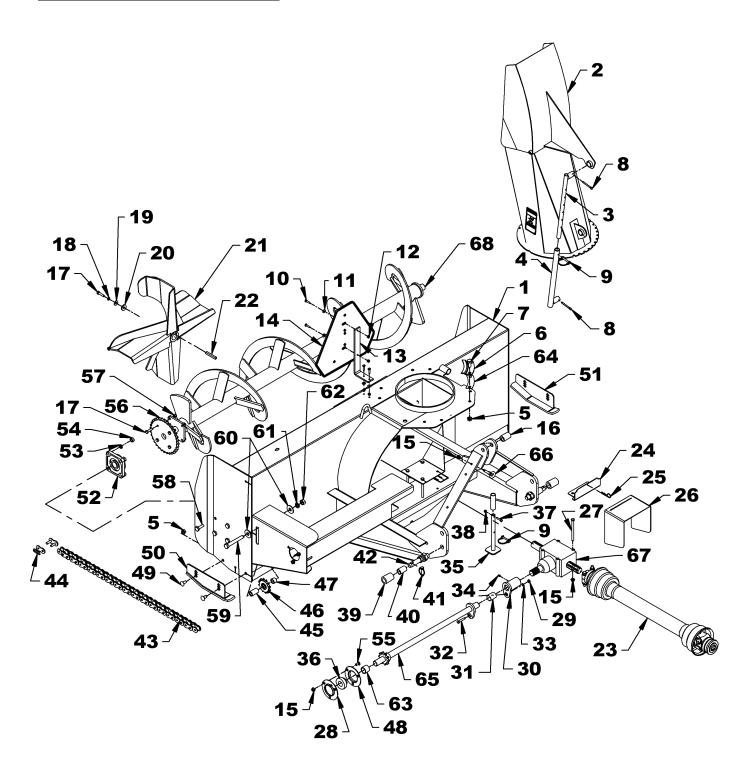
The parts listed here are available through your local dealer.

MANUAL HOLDER - ALL MODELS

REF.	DESCRIPTION	QTY	Part#
1	Manual holder	1	5RD4200030
2	Bolt hex. 5/16" NC x 3/4" lg gr. 5, PTD	2	5RD0100018
3	Nut nylon insert 5/16" NC, PTD	2	5RD1000005



SNOWBLOWER - SB1174



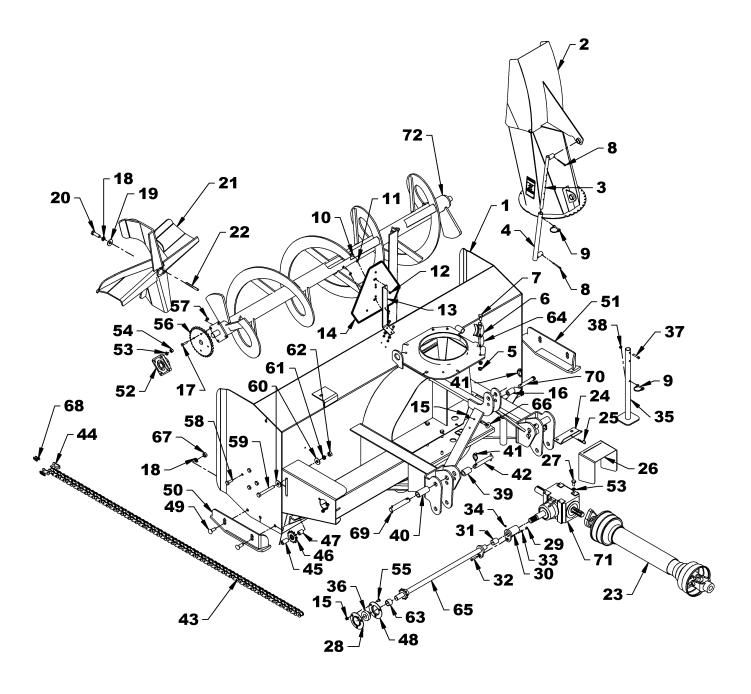
SNOWBLOWER - SB1174

REF.	DESCRIPTION	QTY	Part#
1	Housing	1	
2	Chute assembly (including adjustment tube and rod)	1	5RD668101
3	Adjustment rod	1	5RD654074
4	Adjustment tube	1	5RD654076
5	Serrated flange nut 1/2" NC PTD	12	5RD0900046
6	Retaining plate	4	5RD654197
7	Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD	8	5RD0100069
8	Cotter pin Ø1/4" x 2" PTD	4	5RD1500022
9	Round wire lock pin 1/4" x 2" PTD	2	5RD1900006
10	Bolt hex. 1/4" NC x 1" gr.5 PTD	4	5RD0100004
11	Flat washer 1/4" (5/16" dia. hole) PTD	4	5RD1400002
12	Nylon insert locknut 1/4" NC PTD	4	5RD1000003
13	S.M.V. sign support	1	5RD668109
14	S.M.V. reflective sign	1	5RD4200029
15	Serrated flange nut 3/8" NC PTD	8	5RD0900035
16	Bushing 1 1/4" OD x 1 7/8" lg	1	5RD668058
17	Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD	5	5RD0100040
18	Lockwasher 3/8" PTD	1	5RD1200004
19	Flat washer 3/8"	1	5RD1400003
20	Fan washer	1	5RD661554
21	Fan	1	5RD668966
22	Key 3/8" x 3/8" x 2 3/4" lg	1	5RD654174
23	Driveline Series 40	1	5RD4700159
	Driveline Series 50 - serial #: XFSB11X080102 to XFSB11X080406	1	5RD662194
24	Driveline shield bracket	1	5RD668097
25	Hairpin 3mm x 65mm lg PTD	1	5RD1800004
26	Driveline shield	1	5RD668057
27	Bolt hex. 3/8" NC x 5" gr.5 PTD	4	5RD0100051
28	Flange, 3 holes with grease fitting and groove	1	5RD4300015
29	Nut hex. 5/16" NC PTD	1	5RD0900002
30	Shear plate	1	5RD666257
31	Oilite bushing	1	5RD4300056
32	Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut	1	5RD665547
33	Lockwasher 5/16" PTD	1	5RD1200003
34	Grease fitting 1/4" NF	1	5RD654106
35	Parking stand	1	5RD668053
36	Bearing 1 1/8" with setscrew and grease system	1	5RD4300040
37	Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD	1	5RD0100005
38	Nylon insert hex. nut 1/4" NC PTD	1	5RD1000003
39	Bushing 1.5 OD x 2 1/8" lg PTD	2	5RD668059
40	Bushing 1 1/8" OD x 1 3/4" lg PTD	2	5RD4600045
41	Linchpin 7/16" PTD	2	5RD1900003
42	Hitch pin 7/8" x 5 1/2" lg Cat. 1	2	5RD654196
43	Chain #60 x 78 links		5RD654009
44	Connecting link #60	1	5RD654839
	3		

SNOWBLOWER - SB1174

REF.	DESCRIPTION	QTY	Part#
45	Spacer ring .656"ID x 1.760 x 1" ext.	1	5RD668093
46	Idler sprocket 60A12	1	5RD3300022
47	Spacer ring .656"ID x .807 x 1" ext.	1	5RD667777
48	Flange, 3 holes with grease groove	1	5RD4300014
49	Bolt carriage 1/2" NC x 1" lg gr.5 PTD	4	5RD0300022
50	Left adjustable skid shoe	1	5RD666254
51	Right adjustable skid shoe	1	5RD666255
52	Flange bearing 1 1/4" hole, 4 holes	2	5RD4300001
53	Lockwasher 1/2" PTD	8	5RD1200006
54	Nut hex. 1/2" NC PTD	8	5RD0900006
55	Bolt carriage 3/8" NC x 3/4" Ig	3	5RD0300007
56	Sprocket 60A32	1	5RD654167
57	Nylon insert nut 3/8" NC gr.5 PTD	4	5RD1000006
58	Bolt hex. 1/2" NC x 1 1/2" lg gr.5 PTD	8	5RD0100070
59	Bolt hex. 5/8" NC x 4 1/2" lg gr.5 PTD	1	5RD0100104
60	Flat washer 5/8" (11/16" dia. hole)	2	5RD1400008
61	Lockwasher 5/8" PTD	1	5RD1200007
62	Nut hex. 5/8" NC gr.5 PTD	1	5RD0900007
63	Spacer ring 1 3/32" lg	1	5RD667015
64	Spacer	4	5RD668549
65	Driving shaft	1	5RD666272
66	Eyebolt 3/8" NC x 4" lg inc. nut	1	5RD0400027
67	Gearbox	1	5RD663485
68	Auger	1	5RD666271

SNOWBLOWER - SB1184 & SB1194



<u>SNOWBLOWER - SB1184 & SB1194</u>

Housing	REF.	DESCRIPTION	QTY	Part#	
A Adjustment tube Adjustment tube Serrated flange nut 1/2" NC PTD Solt hex. 1/2" NC x 1 1/4" gr.5 PTD Solt hex. 1/2" NC x 1 1/4" gr.5 PTD Solt hex. 1/2" PTD Solt hex. 1/2" PTD Solt hex. 1/2" PTD Solt hex. 1/2" PTD Solt hex. 1/4" NC x 1" gr.5 PTD Solt hex. 1/4" NC PTD Solt hex. 3/6" NC X 1 1/2" gr.5 PTD Solt hex. 3/6" NC X 1 1/2" gr.5 PTD Solt hex. 3/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/2" gr.5 PTD Solt hex. 5/6" NC X 1 1/4" gr.5 PTD Solt hex. 5/6" NC X 1 1/4" gr.5 PTD Solt hex. 5/6" NC X 1 1/4" gr.5 PTD Solt hex. 1/2" NC X 1" gr.5 PTD Solt he	1_	Housing	1		
4 Adjustment tube 5 Serrated flange nut 1/2" NC PTD 8 SRD090046 6 Retaining plate 7 Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD 8 SRD0100069 8 Cotter pin Ø1/4" x 2" PTD 9 Round wire lock pin 1/4" x 3" x	2	Chute assembly (including adjustment tube and rod)	1	5RD668101	
5 Serrated flange nut 1/2" NC PTD 8 5RD0900046 6 Retaining plate 4 5RD654197 7 Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD 8 5RD0100069 8 Cotter pin Ø1/4" x 2" PTD 2 5RD1500022 9 Round wire lock pin 1/4" x 2" PTD 2 5RD1900002 10 Bolt hex. 1/4" NC x 1" gr.5 PTD 4 5RD0100002 11 Flat washer 1/4" (5/16" dia. hole) PTD 4 5RD100002 12 Nylon insert locknut 1/4" NC PTD 4 5RD100002 13 S.M.V. sign support 1 5RD68090 14 S.M.V. sign support 1 5RD0400029 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" Ig 1 5RD0900035 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD100009 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" NC x 1 1/2" gr.5 PTD serial #. XFSB11X080103 to XFSB11X080531 1 5RD0100095 21 </td <td>3</td> <td>Adjustment rod</td> <td>1</td> <td>5RD654074</td>	3	Adjustment rod	1	5RD654074	
6 Retaining plate 4 SRD654197 7 Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD 8 SRD0100069 8 Cotter pin Ø/1/4" x 2" PTD 2 SRD1900022 9 Round wire lock pin 1/4" x 2" PTD 2 SRD1900006 10 Bolt hex. 1/4" NC x 1" gr.5 PTD 4 SRD0100006 11 Flat washer 1/4" (S/16" dia. hole) PTD 4 SRD1000003 13 S.M.V. sign support 4 SRD100003 14 S.M.V. sign support 1 SRD668090 14 S.M.V. reflective sign 1 SRD09000035 15 Serrated flange nut 3/8" NC PTD 4 SRD09000035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 SRD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 SRD0100004 18 Lockwasher 5/8" PTD 1 SRD1400002 20 Bolt hex. 5/8" NC x 2 1"/2" gr.5 PTD - serial #. XFSB11X080103 to XFSB11X080531 1 SRD01000093 21 Fan - serial #. XFSB15080013 to XFSB11X080531 1 SRD668967 <td>4</td> <td>Adjustment tube</td> <td>1</td> <td>5RD654076</td>	4	Adjustment tube	1	5RD654076	
7 Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD 8 SRD0100069 8 Cotter pin 0/1/4" x 2" PTD 2 SRD1500020 9 Round wire lock pin 1/4" x 2" PTD 2 SRD1900006 10 Bolt hex. 1/4" NC x 1" gr.5 PTD 4 SRD0100004 11 Flat washer 1/4" (5/16" dia. hole) PTD 4 SRD1400002 12 Nylon insert locknut 1/4" NC PTD 4 SRD1400003 13 S.M.V. sign support 1 5RD668090 14 S.M.V. reflective sign 1 5RD668090 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" Ig 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100093 21 Fan 1 5RD0100093 22 Key 3/8" x 3/8" x 4" Ig 1 5RD668058 24 Fan - serial # XFSB11X080103 to XFSB11X080531 1 5RD4500075 25 Key 3/8" x 3/8"	5	Serrated flange nut 1/2" NC PTD	8	5RD0900046	
8 Cotter pin Ø1/4" x 2" PTD 2 5RD1500022 9 Round wire lock pin 1/4" x 2" PTD 2 5RD190006 10 Bolt hex. 1/4" KC x 1" gr.5 PTD 4 5RD100006 11 Flat washer 1/4" (5/16" dia. hole) PTD 4 5RD1000003 12 Nylon insert locknut 1/4" NC PTD 4 5RD1000003 13 S.M.V. sign support 1 5RD668090 14 S.M.V. sign support 1 5RD4200029 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 17/8" Ig 1 5RD68058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100004 18 Lockwasher 5/8" PTD 1 5RD1200007 19 Flat washer 5/8" PTD 1 5RD1100008 20 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100095 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD6684378 22 Key 3/8" x 3/8" x 4" Ig	6	Retaining plate	4	5RD654197	
9 Round wire lock pin 1/4" x 2" PTD 10 Bolt hex. 1/4" NC x 1" gr.5 PTD 2 5RD1900006 10 Bolt hex. 1/4" NC x 1" gr.5 PTD 3 FD01000004 11 Flat washer 1/4" (5/16" dia. hole) PTD 4 5RD1000003 12 Nylon insert locknut 1/4" NC PTD 4 5RD1000003 13 S.M.V. sign support 1 5RD680809 14 S.M.V. reflective sign 1 5RD4200029 15 Serrated flange nut 3/8" NC PTD 4 5RD090035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 5 5RD1400002 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 20 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD 21 5RD0100095 21 Fan 22 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 22 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 23 Driveline Series 60 - SB1184 24 Driveline Series 60 - SB1184 25 Driveline Series 60 - SB1194 26 Driveline Series 60 - SB1194 27 Bolt hex. 5/6" NC x 1 3/4" gr.5 PTD 88 5RD0662538 28 Flange, 3 holes with grease fitting and groove 1 5RD066257 31 Olitte bushing 32 Flange 1,14" NF 34 FRD662541 35 Lockwasher 5/16" PTD 36 FRD030005 36 Bearing 1 1/8" with setscrew and grease system 37 Bolt hex. 1/4" NC x 1 1/4" gr.5 PTD 37 FRD0430005 38 Bolt hex. 1/4" NF 1 5RD668091 39 Bolt hex. 1/4" NF 31 FRD663091 30 Bolt hex. 1/4" NF 31 FRD663091 31 FRD66300005	7	Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD	8	5RD0100069	
10 Bolt hex. 1/4" NC x 1" gr.5 PTD 4 5RD0100004 11 Flat washer 1/4" (6/16" dia. hole) PTD 4 5RD1400002 12 Nylon insert locknut 1/4" NC PTD 4 5RD1400003 13 S.M.V. sign support 1 5RD68690 14 S.M.V. reflective sign 1 5RD420029 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" Ig 1 5RD68058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD0100095 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 21 Fan 1 5RD680697 22 Key 3/8" X 3/8" x 2 2 3/4" Ig 1 5RD640003 21 Fan - serial # XFSB11X080103 to XFSB11X080531 1 5RD663967 22 Key 3/8" x 3/8" x 2 2 3/4" Ig serial # XFSB11X080531 1 5RD654174 23 Driveline Series 60 - SB1184 serial # XFSB11X080103 to XFSB11X080531 1 <td< td=""><td>8</td><td>Cotter pin Ø1/4" x 2" PTD</td><td>2</td><td>5RD1500022</td></td<>	8	Cotter pin Ø1/4" x 2" PTD	2	5RD1500022	
11 Flat washer 1/4" (5/16" dia. hole) PTD 4 5RD1400002 12 Nylon insert locknut 1/4" NC PTD 4 5RD1000003 13 S.M.V. sign support 1 5RD668090 14 S.M.V. reflective sign 1 5RD668090 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD0100093 20 Bolt hex. 5/8" NC x 2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD664378 23 Driveline Series 60 - SB1184 1 5RD662474 23 Driveline Series 60 - SB1184 1 5RD662538 Driveline Series 60 - SB1194 1 5RD662538 Driveline Shield bracket 1 5RD66253 24 Driveline s	9	Round wire lock pin 1/4" x 2" PTD	2	5RD1900006	
12 Nylon insert locknut 1/4" NC PTD 4 5RD1000003 13 S.M.V. sign support 1 5RD668090 14 S.M.V. reflective sign 1 5RD4200029 15 Serrated flange nut 3/8" NC PTD 4 5RD900035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD-serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100095 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 22 Key 3/8" x 3/8" x 4" lg 1 5RD664378 1 5RD664378 22 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 60 - SB1184 1 5RD662194 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538	10	Bolt hex. 1/4" NC x 1" gr.5 PTD	4	5RD0100004	
13 S.M.V. sign support 1 5RD668090 14 S.M.V. reflective sign 1 5RD4200029 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" Ig 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD0100095 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 21 Fan 1 5RD0100095 21 Fan - serial #: XFSB11X080103 to XFSB11X080103 to XFSB11X080531 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 Key 3/8" x 3/8" x 4" Ig 1 5RD664075 Key 3/8" x 3/8" x 2 3/4" Ig - serial #: XFSB11X080103 to XFSB11X080531 1 5RD6654174 23 Driveline Series 50 - SB1184 1 5RD662144 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 24 Driveline shield bracket 1 5RD662538 25 Hairpin 3	11	Flat washer 1/4" (5/16" dia. hole) PTD	4	5RD1400002	
14 S.M.V. reflective sign 1 5RD4200029 15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" NC x 2" gr.5 PTD 1 5RD0100093 20 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 22 Key 3/8" x 3/8" x 4" lg 1 5RD664378 22 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD662538 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Shield bracket 1 5RD662538 24 Driveline shield bracket 1 5RD662538 25 Hairpin 3mm x 65mm lg PTD 1 5RD160005 26	12	Nylon insert locknut 1/4" NC PTD	4	5RD1000003	
15 Serrated flange nut 3/8" NC PTD 4 5RD0900035 16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD664378 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD668967 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD664378 1 5RD668067 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 1 5RD654174 23 Driveline Series 60 - SB1184 1 5RD662538 1 5RD662538 24 Driveline Shield bracket 1 5RD662538 1 5RD668057 1 5RD668057	13	S.M.V. sign support	1	5RD668090	
16 Bushing 1 1/4" OD x 1 7/8" lg 1 5RD668058 17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD0140008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD66378 1 5RD66378 22 Key 3/8" x 3/8" x 4" lg 1 5RD66378 1 5RD664378 24 Driveline Series 50 – SB1184 1 5RD662194 1 5RD662538 Driveline Series 60 – SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 1 5RD662538 Driveline shield bracket 1 5RD668253 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD668459 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100006 <td>14</td> <td>S.M.V. reflective sign</td> <td>1</td> <td>5RD4200029</td>	14	S.M.V. reflective sign	1	5RD4200029	
17 Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD 4 5RD0100040 18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100093 21 Fan 1 5RD68967 Fan - serial #. XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD654378 22 Key 3/8" x 3/8" x 2 3/4" lg - serial #. XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD652194 Driveline Series 60 - SB1184 serial #. XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 - SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD662538 25 Hairpin 3mm x 65mm lg PTD 1 5RD668449 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove	15	Serrated flange nut 3/8" NC PTD	4	5RD0900035	
18 Lockwasher 5/8" PTD 5 5RD1200007 19 Flat washer 5/8" PTD 1 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100093 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 2 3/4" Ig - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD662194 Driveline Series 60 - SB1194 1 5RD662538 24 Driveline Shield bracket 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD4300056 31 Oilite bushing <td>16</td> <td>Bushing 1 1/4" OD x 1 7/8" lg</td> <td>1</td> <td>5RD668058</td>	16	Bushing 1 1/4" OD x 1 7/8" lg	1	5RD668058	
19 Flat washer 5/8" PTD 1 5RD1400008 20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD64500075 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD662174 23 Driveline Series 50 - SB1184 1 5RD662194 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 - SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD662538 24 Driveline shield bracket 1 5RD1800004 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29	17	Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD	4	5RD0100040	
20 Bolt hex. 5/8" NC x 2" gr.5 PTD 1 5RD0100095 Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531 1 5RD0100093 21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD4500075 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD662194 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Shield bracket 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD68057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD666557 31 Oilite bushing 1 5RD665547 32 <td>18</td> <td></td> <td>5</td> <td>5RD1200007</td>	18		5	5RD1200007	
Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531	19	Flat washer 5/8" PTD	1	5RD1400008	
Bolt hex. 5/8" NC x 1 1/2" gr.5 PTD - serial #: XFSB11X080103 to XFSB11X080531	20	Bolt hex. 5/8" NC x 2" gr.5 PTD	1	5RD0100095	
21 Fan 1 5RD668967 Fan - serial #: XFSB11X080103 to XFSB11X080531 1 5RD664378 22 Key 3/8" x 3/8" x 4" lg 1 5RD4500075 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD662194 Driveline Series 60 - SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 - SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD666257 31 Oilite bushing 1 5RD666257 32 Shear plate 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD665547 34 Grease fitting 1/4" NF 1 5RD668091 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005			1	5RD0100093	
22 Key 3/8" x 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD4500075 Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 - SB1184 1 5RD662194 Driveline Series 60 - SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD662538 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD666257 31 Oilite bushing 1 5RD666257 31 Oilite bushing 1 5RD665547 32 Shearbolt 5/16" NC x 1 3/4" gr.5, incl. nut 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005 <	21		1	5RD668967	
Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 – SB1184 1 5RD662194 Driveline Series 60 – SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 – SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD668091 34 Grease fitting 1/4" NF 1 5RD668091 35 Parking stand 1 5RD4300040 <td co<="" td=""><td></td><td>Fan - serial #: XFSB11X080103 to XFSB11X080531</td><td>1</td><td>5RD664378</td></td>	<td></td> <td>Fan - serial #: XFSB11X080103 to XFSB11X080531</td> <td>1</td> <td>5RD664378</td>		Fan - serial #: XFSB11X080103 to XFSB11X080531	1	5RD664378
Key 3/8" x 3/8" x 2 3/4" lg - serial #: XFSB11X080103 to XFSB11X080531 1 5RD654174 23 Driveline Series 50 – SB1184 1 5RD662194 Driveline Series 60 – SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 – SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD668091 34 Grease fitting 1/4" NF 1 5RD668091 35 Parking stand 1 5RD4300040 <td co<="" td=""><td>22</td><td>Key 3/8" x 3/8" x 4" lg</td><td>1</td><td>5RD4500075</td></td>	<td>22</td> <td>Key 3/8" x 3/8" x 4" lg</td> <td>1</td> <td>5RD4500075</td>	22	Key 3/8" x 3/8" x 4" lg	1	5RD4500075
23 Driveline Series 50 – SB1184 1 5RD662194 Driveline Series 60 – SB1184 serial #: XFSB11X080103 to XFSB11X080531 1 5RD662538 Driveline Series 60 – SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD6654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005			1	5RD654174	
Driveline Series 60 – SB1194 1 5RD662538 24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD668091 35 Parking stand 1 5RD68091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	23		1	5RD662194	
24 Driveline shield bracket 1 5RD668449 25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD6554106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005		Driveline Series 60 – SB1184 serial #: XFSB11X080103 to XFSB11X080531	1	5RD662538	
25 Hairpin 3mm x 65mm lg PTD 1 5RD1800004 26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005		Driveline Series 60 – SB1194	1	5RD662538	
26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	24	Driveline shield bracket	1	5RD668449	
26 Driveline shield 1 5RD668057 27 Bolt hex. 1/2" NC x 1" gr.5 PTD 8 5RD0100068 28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	25	Hairpin 3mm x 65mm lg PTD	1	5RD1800004	
28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	26		1	5RD668057	
28 Flange, 3 holes with grease fitting and groove 1 5RD4300015 29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	27	Bolt hex. 1/2" NC x 1" gr.5 PTD	8	5RD0100068	
29 Nut hex. 5/16" NC PTD 1 5RD0900002 30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	28		1	5RD4300015	
30 Shear plate 1 5RD666257 31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	29		1	5RD0900002	
31 Oilite bushing 1 5RD4300056 32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	30		1	5RD666257	
32 Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut 1 5RD665547 33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005	31		1	5RD4300056	
33 Lockwasher 5/16" PTD 1 5RD1200003 34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005			1		
34 Grease fitting 1/4" NF 1 5RD654106 35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005			1	5RD1200003	
35 Parking stand 1 5RD668091 36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005		Grease fitting 1/4" NF	1		
36 Bearing 1 1/8" with setscrew and grease system 1 5RD4300040 37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005			1		
37 Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD 1 5RD0100005		9	1		
•			1		
			1		

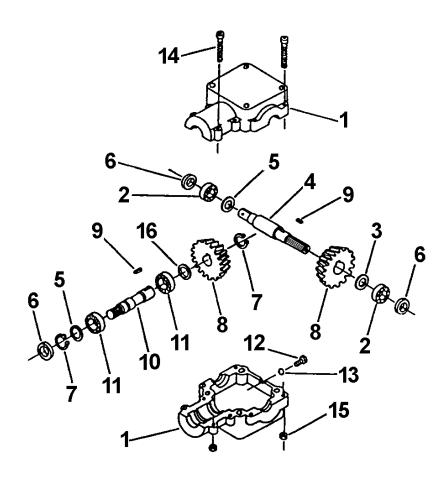
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<u>SNOWBLOWER - SB1184 & SB1194</u>

REF.	DESCRIPTION	QTY	PART#
39	Bushing 1.5 OD x 2 1/8" lg PTD	2	5RD668059
40	Bushing 1 1/2" lg x 3 3/8" lg PTD	2	5RD668553
41	Linchpin 7/16" PTD	3	5RD1900003
42	Hitch pin Cat. 1	2	5RD4600043
43	Chain #60 x 90 links	1	5RD662447
44	Connecting link #60	1	5RD654839
45	Spacer ring 1 3/4" lg	1	5RD668093
46	Idler sprocket 60A12	1	5RD3300022
47	Spacer ring .656"ID x 1.51 lg x 1" ext.	1	5RD668094
48	Flange, 3 holes with grease groove	1	5RD4300014
49	Bolt carriage 1/2" NC x 1" lg gr.5 PTD	4	5RD0300022
50	Left adjustable skid shoe	1	5RD666287
51	Right adjustable skid shoe	1	5RD666288
52	Flange bearing 1 1/4" hole, 4 holes	2	5RD4300001
53	Lockwasher 1/2" PTD	16	5RD1200006
54	Nut hex. 1/2" NC PTD	8	5RD0900006
55	Bolt carriage 3/8" NC x 3/4" lg PTD	3	5RD0300007
56	Sprocket 60A32	1	5RD654167
57	Nylon insert nut 3/8" NC gr.5 PTD	4	5RD1000006
58	Bolt hex. 1/2" NC x 1 1/2" lg gr.5 PTD	8	5RD0100070
59	Bolt hex. 5/8" NC x 5" lg gr.5 PTD	1	5RD0100105
60	Flat washer 5/8" (11/16" dia. hole)	2	5RD1400008
61	Lockwasher 5/8" PTD	1	5RD1200007
62	Nut hex. 5/8" NC gr.5 PTD	1	5RD0900007
63	Spacer ring 1 3/32" lg	1	5RD667015
64	Spacer	4	5RD668549
65	Driving shaft – SB1184	1	5RD668046
	Driving shaft – SB1194	1	5RD668476
66	Eyebolt 3/8" NC x 4" lg inc. nut	1	5RD0400027
67	Nut hex. 5/8" NC PTD	4	5RD0900007
68	Half link #60	1	5RD654025
69	Hitch pin 1 1/8" x 6 1/4" lg Cat. 2	2	5RD4600042
70	Hitch pin 3/4" x 5 7/16" lg Cat. 1	1	5RD4600051
71	Gearbox	1	5RD662195
72	Auger – SB1184	1	5RD666278
	Auger – SB1194	1	5RD666250

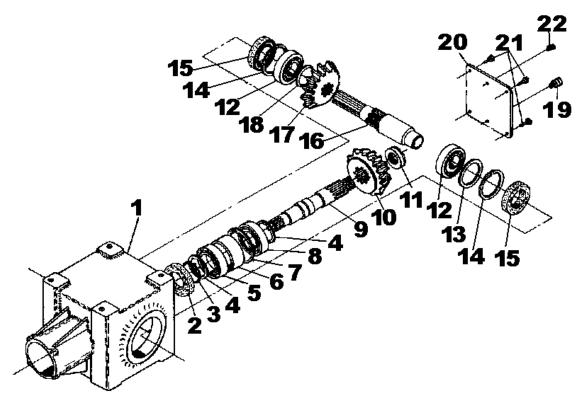
GEARBOX 5RD663485 FOR SB1174

REF.	DESCRIPTION	QTY	PART#
1	Casing	2	5RD659848
2	Bearing	2	5RD659844
3	Shim	1	5RD656649
4	Input shaft	1	5RD664663
5	Shim	2	5RD659855
6	Oil seal	3	5RD659852
7	Snap ring	2	5RD656652
8	Gear	2	5RD662236
9	Parallel key	2	5RD659850
10	Output shaft	1	5RD659853
11	Bearing	2	5RD659844
12	Plug	1	5RD659847
13	O-ring	1	5RD661144
14	Allen socket head cap screw M8 x 1.25mm x 55mm - 8.8.	8	5RD0800032
15	Stover locknut M8 x 1.25mm - 8	8	5RD0900063
16	Shim	1	5RD659854



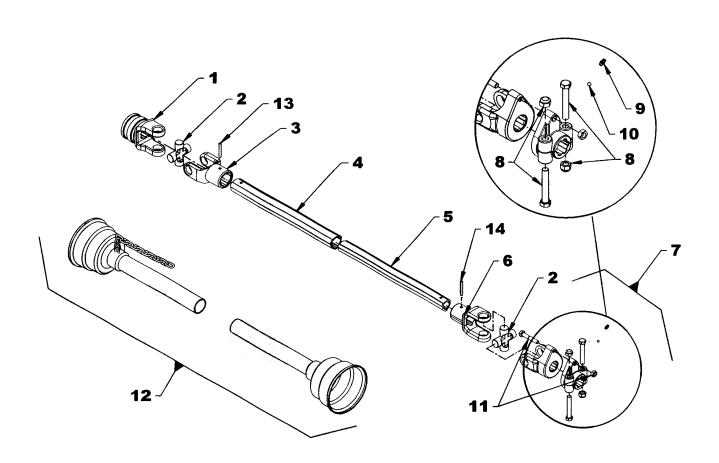
GEARBOX 5RD662195 FOR SB1184 & SB1194

Ref.	DESCRIPTION	QTY	PART#
1	Casing	1	5RD656640
2	Seal kit 35 x 72 x 10	1	5RD659845
3	External retaining ring	1	5RD656652
4	Spacer	2	5RD656649
5	Bearing flange	1	5RD659844
6	Spacer	1	5RD656648
7	Internal retaining ring	1	5RD656654
8	Bearing flange	1	5RD656647
9	Shaft	1	5RD656651
10	Gear	1	5RD656645
11	External retaining ring	1	5RD656646
12	Bearing flange	2	5RD656641
13	Spacer	1	5RD656644
14	Internal retaining ring	2	5RD656642
15	Seal kit 40 x 80 x 12	2	5RD656643
16	Shaft	1	5RD662212
17	Gear	1	5RD656657
18	Spacer	1	5RD661146
19	Plug	1	5RD656662
20	Cover	1	5RD656660
21	Bolt hex. M10 x 14 gr.8.8	4	5RD656659
22	Plug 3/8" NPT	2	5RD655259



DRIVELINE 5RD4700159 FOR SB1174 serial #: XFSB11X090001 and up

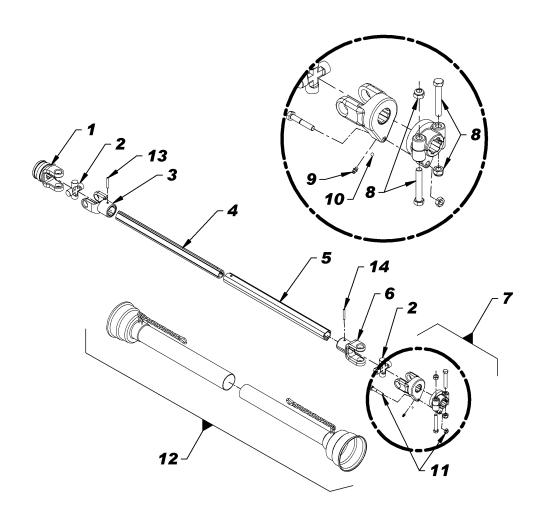
г#	PART#	QTY	DESCRIPTION	Ref.
764	5RD660764	1	Yoke ass'y	1
0765	5RD660765	2	Journal cross	2
3189	5RD663189	1	Yoke for female tube	3
0160	5RD4700160	1	Female tube	4
0161	5RD4700161	1	Male tube	5
3193	5RD663193	1	Yoke for male tube	6
0058	5RD4700058	1	Yoke ass'y	7
2199	5RD662199	2	Shear bolt M12 x 1.25 x 70 with nut	8
3129	5RD 663129	1	Grease fitting	9
3163	5RD 663163	23	Ball Ø1/4"	10
00060	5RD 4700060	1	Shear bolt 8mm x 1.25 x 50 gr.5.8 and nut	11
0164	5RD4700164	1	Protector and chain	12
00061	5RD 4700061	1	Pin for outer tube	13
00062	5RD 4700062	1	Pin for inner tube	14
319 219 312 316 0006 016	5RD66319 5RD470005 5RD66219 5RD 66312 5RD 66316 5RD 470006 5RD470016	1	Yoke for male tube Yoke ass'y Shear bolt M12 x 1.25 x 70 with nut Grease fitting Ball Ø1/4" Shear bolt 8mm x 1.25 x 50 gr.5.8 and nut Protector and chain Pin for outer tube	6 7 8 9 10 11 12 13



DRIVELINE 5RD662194 FOR SB1184 serial #: XFSB11X090001 and up

AND FOR SB1174 serial #: XFSB11X080102 to XFSB11X080406

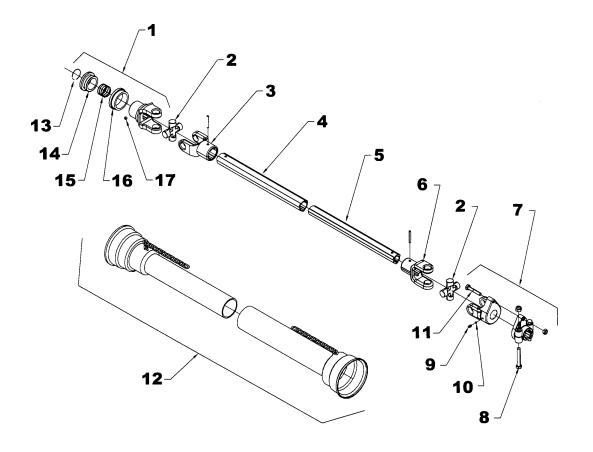
Ref.	DESCRIPTION	QTY.	PART#
1	Push pin yoke assembly	1	5RD657209
2	Journal cross	2	5RD657200
3	Outer yoke	1	5RD663119
4	Outer tube	1	5RD663123
5	Inner tube	1	5RD663124
6	Inner yoke	1	5RD663126
7	Yoke and hub assembly	1	5RD662198
8	Bolt and nut	2	5RD662199
9	Grease fitting	1	5RD663129
10	Ball Ø14"	23	5RD663163
11	Shear bolt M10 x 1.5 x 60mm gr. 6.8 PTD and nut	1	5RD663149
12	Shields with safety chain	1	5RD657221
13	Pin for male tube	1	5RD663125
14	Pin for female tube	1	5RD663120



DRIVELINE 5RD662538

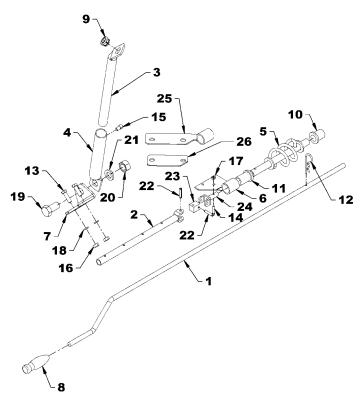
FOR SB1184 serial #: XFSB11X080103 to XFSB11X080531 and for SB1194

REF.	DESCRIPTION	QTY	PART#
1	Quick disconnect yoke assembly - slide collar	1	5RD4700083
2	Universal joint kit	2	5RD663134
3	Outer yoke	1	5RD663136
4	Outer tube	1	5RD663140
5	Inner tube	1	5RD663142
6	Inner yoke	1	5RD663144
7	Yoke and hub assembly	1	5RD663145
8	Bolt and nut	2	5RD662199
9	Grease fitting	1	5RD663148
10	Ball	24	5RD663162
11	Shear bolt and nut, M10 x 1.5 x 55 mm gr. 8.8 PTD	1	5RD657199
12	Shields with safety chain	1	5RD663150
13	Outer circlip	1	5RD4700084
14	Sliding sleeve collar	1	5RD4700085
15	Spring	1	5RD4700086
16	Fixed sleeve	1	5RD4700087
17	Ball 1/2"	3	5RD4700088



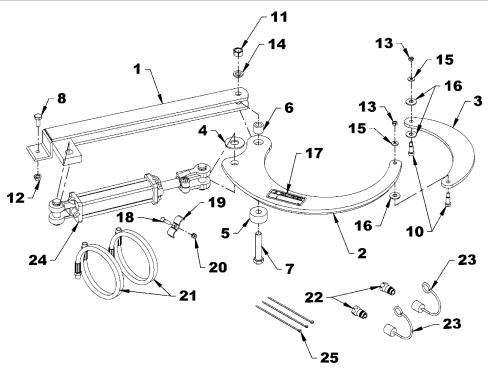
5RDF0016 - MANUAL ROTATION

REF.	DESCRIPTION	QTY	PART#
1	Handle	1	5RD664902
2	Rotation tube	1	5RD660188
3	Handle support	1	5RD660187
4	Handle support bracket	1	5RD660269
5	Rotation worm	1	5RD659161
6	Worm support bracket for SB1148-SB1154 & SB1164	1	5RD659145
7	Bracket	1	5RD660388
8	Plastic handle	1	5RD656797
9	Plastic grommet	1	5RD657390
10	Plastic bushing 1 5/16"	1	5RD657335
11	Plastic bushing 1 11/16"	1	5RD657336
12	Hairpin 4mm x 80mm	1	5RD1800002
13	Bolt hex. 3/8"NC x 1 1/4" PTD	2	5RD0100039
14	Allen socket head capscrew 10-24 x 1" PTD	1	5RD0800009
15	Square head setscrew 3/8" x 1/2" PTD	1	5RD0600006
16	Nut hex. 3/8" NC PTD	2	5RD0900003
17	Nylon insert locknut 10-24 PTD	1	5RD1000002
18	Lockwasher 3/8" PTD	2	5RD1200004
19	Bolt hex. 3/4"NC x 1 1/2" PTD	1	5RD0100115
20	Nut hex. 3/4" NC PTD	1	5RD0900008
21	Lockwasher 3/4" PTD	1	5RD1200008
22	Roll pin 1/4" x 1 1/4" lg PTD	2	5RD1600015
23	Universal block	1	5RD658193
24	Rotation yoke	1	5RD659595
25	Worm support bracket (for SB1174 & SB1184 only)	1	5RD668477
26	Spacer	1	5RD668092



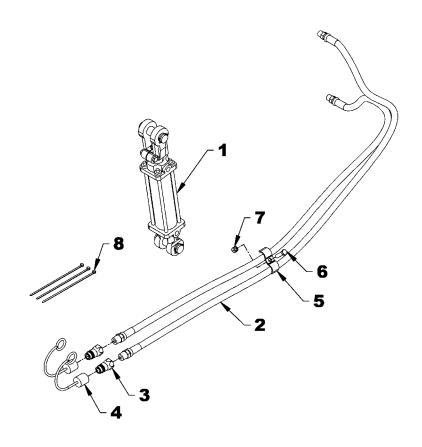
5RDF0018 - HYDRAULIC ROTATION

1 Rotation bracket 1 5RD664475 2 Bell crank 1 5RD664473 3 Push arm 1 5RD664474 4 Flat washer 1 1/16" hole PTD 1 5RD1400013 5 Spacer ring 1 5RD664477 6 Pivot bushing 5RD664476 7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100069 9 Bolt hex. 3/4" NC PTD 1 5RD0900008 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD110003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 9/16" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006	REF.	DESCRIPTION	QTY	PART#
3 Push arm 1 5RD664474 4 Flat washer 1 1/16" hole PTD 1 5RD1400013 5 Spacer ring 1 5RD664477 6 Pivot bushing 5RD664476 7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 9/16" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 <td< td=""><td>1</td><td>Rotation bracket</td><td>1</td><td>5RD664475</td></td<>	1	Rotation bracket	1	5RD664475
4 Flat washer 1 1/16" hole PTD 1 5RD1400013 5 Spacer ring 1 5RD664477 6 Pivot bushing 5RD664476 7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 9/16" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD660440 20 Nut nylon insert 3/8 NC PTD	2	Bell crank	1	5RD664473
5 Spacer ring 1 5RD664477 6 Pivot bushing 5RD664476 7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD09000046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 9/16" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD3700143 22 Quick coupler 1/2-14 NPT male	3	Push arm	1	5RD664474
6 Pivot bushing 5RD664476 7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD600440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD664898 24 Cyl	4	Flat washer 1 1/16" hole PTD	1	5RD1400013
7 Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only) 1 5RD0100124 8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD60440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD66489 24 Cylinder 2" X 6" inc. pins 1 5RD3900025	5	Spacer ring	1	5RD664477
8 Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD 1 5RD0100069 9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900025 5eal kit 1 <td>6</td> <td>Pivot bushing</td> <td></td> <td>5RD664476</td>	6	Pivot bushing		5RD664476
9 Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only) 1 5RD0100126 10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900025	7	Bolt hex. 3/4" NC x 4", gr. 5 PTD (For SB1174 only)	1	5RD0100124
10 Shoulder screw 1/2" x 1" lg 3/8"NC 2 5RD664578 11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD66480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900025	8	Bolt hex. 1/2" NC x 1 1/4", gr. 5 PTD	1	5RD0100069
11 Nut hex. 3/4" NC PTD 1 5RD0900008 12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900225 Seal kit 1 5RD3900205	9	Bolt hex. 3/4" NC x 5", gr. 5 PTD (For SB1184 only)	1	5RD0100126
12 Nut serrated flange 1/2" NC PTD 1 5RD0900046 13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900225 Seal kit 1 5RD3900205	10	Shoulder screw 1/2" x 1" lg 3/8"NC	2	5RD664578
13 Stover nut hex 3/8" NC PTD 2 5RD1100003 14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	11	Nut hex. 3/4" NC PTD	1	5RD0900008
14 Lockwasher 3/4" PTD 1 5RD1200008 15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	12	Nut serrated flange 1/2" NC PTD	1	5RD0900046
15 Flat washer 3/8" hole PTD 2 5RD1400003 16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	13	Stover nut hex 3/8" NC PTD	2	5RD1100003
16 Flat washer 9/16" hole PTD 3 5RD1400006 17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	14	Lockwasher 3/4" PTD	1	5RD1200008
17 Decal "Danger" 1 5RD664548 18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	15	Flat washer 3/8" hole PTD	2	5RD1400003
18 Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD 1 5RD0100040 19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	16	Flat washer 9/16" hole PTD	3	5RD1400006
19 Hose clamp 1 5RD660440 20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	17	Decal "Danger"	1	5RD664548
20 Nut nylon insert 3/8 NC PTD 1 5RD1000006 21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	18	Bolt hex. 3/8" NC x 1 1/2", gr. 5 PTD	1	5RD0100040
21 Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM 2 5RD3700143 22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	19	Hose clamp	1	5RD660440
22 Quick coupler 1/2-14 NPT male 2 5RD656480 23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	20	Nut nylon insert 3/8 NC PTD	1	5RD1000006
23 Dust cap for male quick coupler 2 5RD664898 24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	21	Hose 3/8" x 92" lg 3/8" NPT RM x 1/2" NPT RM	2	5RD3700143
24 Cylinder 2" X 6" inc. pins 1 5RD3900022 Seal kit 1 5RD3900205	22	Quick coupler 1/2-14 NPT male	2	5RD656480
Seal kit 1 5RD3900205	23	Dust cap for male quick coupler	2	5RD664898
	24	Cylinder 2" X 6" inc. pins	1	5RD3900022
25 Tio wrong 9" v 4.9 mm		Seal kit	1	5RD3900205
25 Tile Wraps 6 X 4.6 Milli 5 SKD2 100003	25	Tie wraps 8" x 4.8 mm	3	5RD2100003



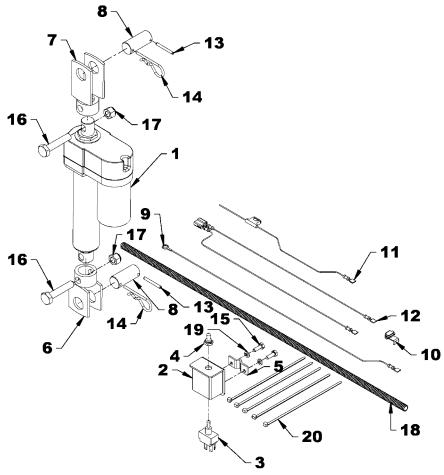
5RDF0009 - HYDRAULIC DEFLECTOR

REF.	DESCRIPTION	QTY	PART#
1	Cylinder 2" X 8" inc. pins	1	5RD3900022
	Seal kit	1	5RD3900205
2	Hose 3/8" x 108" lg 3/8" NPT RM x 1/2" NPT RM	2	5RD3700145
3	Female quick coupler 1/2" NPT male	2	5RD656480
4	Dust cap	2	5RD664898
5	Hose clamp	1	5RD660440
6	Bolt 3/8" NC x 1 1/2" lg PTD	1	5RD0100040
7	Nut nylon insert 3/8" NC PTD	1	5RD0900003
8	Tie wraps 8" x 4.8 mm black	3	5RD2100003



5RDF0021- ELECTRIC DEFLECTOR

REF.	DESCRIPTION	QTY	PART#
1	Electric actuator	1	5RD662983
2	Switch box	1	5RD667557
3	Switch	1	5RD663383
4	Rubber cap	1	5RD658666
5	Box clamp	1	5RD667558
6	Clevis – rod end	1	5RD666049
7	Clevis – fixed end	1	5RD666050
8	Pin 1"	2	5RD666057
9	Ground wire 72" (black)	1	5RD666054
10	Tap connector	1	5RD656665
11	Fuse wire 72" (red)	1	5RD666055
12	Actuator wire	1	5RD666056
13	Spring pin 3/16" x 1 3/4" black	2	5RD1600009
14	Hairpin 4mm x 80mm, PTD	2	5RD1800002
15	Bolt hex. 1/4" NC x 3/4" PTD	4	5RD0100003
16	Bolt hex. 1/2"NC x 2 1/2", PTD	2	5RD0100076
17	Nylon insert locknut 1/2"NC, PTD	2	5RD1000011
18	Loom 3/8" x 420"	1	5RD666053
19	Lockwasher 1/4" PTD	2	5RD1200002
20	Tie wraps 8" lg x 4 mm	5	5RD2100003



WARRANTY

Please enter information below and save for future reference:	
Date Purchase:	From (Dealer):
Model Number:	Serial Number:

RAD TECHNOLOGIES INC. ('RAD") warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER for private use. The applicable warranty period for commercial or rental use shall be NINETY (90) DAYS from the date of purchase. This Warranty will apply if notified to RAD within thirty (30) days after such defect is discovered.

As it relates to gearbox components only, warranty period shall be TWENTY-FOUR (24) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER for private use. The applicable warranty period for commercial or rental use shall be TWELVE (12) MONTHS from the date of purchase.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of RAD, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than RAD, a RAD authorized dealer or distributor, and/or a RAD authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. Such items include, but are not limited to belts, discs, knives, tines, stone guards, tires, slip clutches, blades, tine holders, skid shoes, and cutting edges. This Warranty also does not cover repairs made with parts other than those obtainable through RAD.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

RAD makes no warranty, express or implied, such as but not limited to: clutches, universal joints, knives, hydraulic components, chains, bearings, tires, belts and other trade accessories not manufactured by RAD. Warranties for these items, if any, are provided separately by their respective manufacturers in conjunction with RAD.

RAD's obligation under this Warranty is limited to, at RAD's option, the repair or replacement, free of charge, of the product if RAD, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. Such parts shall be provided by the selling dealer to the user during regular working hours. If requested, the product must be returned to RAD with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. RAD shall complete such repair or replacement within a reasonable time after RAD receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. RAD MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND RAD SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE (EXCEPT WHERE PROHIBITED BY LAW).

RAD shall not be liable for any incident or consequential losses, personal injuries or death, private property loss, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, misuse, strict liability in tort or any other legal theory. RAD's obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Without limiting the generality of the foregoing, RAD specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply, which may directly affect RAD's ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, RAD, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

This Warranty is subject to the warranty registration being submitted within sixty (60) days after purchase. For warranty services, contact your selling dealer.

WARRANTY

REPLACEMENT PARTS WARRANTY

RAD TECHNOLOGIES INC. ("RAD") warrants its parts to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the part(s) to the original purchaser.

Replacement or repair parts installed in the equipment covered by warranty are warranted for ninety (90) days from date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later.

Under no circumstances will this Warranty apply in the event that the product the parts are installed in, in the good faith opinion of RAD, has been subjected to improper operation, improper maintenance, misuse, or accident. This Warranty does not cover normal wear or tear, or normal maintenance items. Such items include, but are not limited to belts, discs, knives, tines, stone guards, tires, slip clutches, blades, tine holders, skid shoes, and cutting edges. This Warranty also does not cover repairs made with parts other than those obtainable through RAD.

This Warranty is extended solely to the original purchaser of the replacement part. Should the original purchaser sell or otherwise transfer the product to a third party, this Warranty does not transfer to a third party purchaser in any way. There are no third party beneficiaries of this Warranty.

RAD's obligation under this Warranty is limited to, at RAD's option, the repair or replacement, free of charge, of the replacement part if RAD, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The selling dealer shall provide such parts to the user during regular working hours. If requested the replacement part must be returned to RAD with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. RAD shall complete such repair or replacement within a reasonable time after RAD receives the defective part THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. RAD MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND RAD SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE (EXCEPT WHERE PROHIBITED BY LAW).

RAD shall not be liable for any incident or consequential losses, personal injuries or death, private property loss, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, misuse, strict liability in tort or any other legal theory.

RAD's obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Without limiting the generality of the foregoing, RAD specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply, which may directly affect RAD's ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, RAD, its authorized dealer, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

For warranty services, contact your selling dealer.

TORQUE SPECIFICATION TABLE

GENERAL SPECIFICATION TABLE

Use the following torques when special torques are not given

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly sidulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

SEE Grade No.			2 5			8							
BOLT HEAD IDENTIFICATION MARKS AS PER GRADE NOTE: MANUFACTURING MARKS WILL VARY.				\supset		\Leftrightarrow \Leftrightarrow		\longleftrightarrow		\bigcirc			
			Tor	que			Tor	que			Tor	que	
BOLT	SIZES	Pound	s-Foot	Newton	ıs-Meter	Pound	s-Foot	Newton	s-Meter	Pound	ls-Foot	Newton	s-Meter
Inches	Millimeters	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
1/4	6.35	5	6	6.8	8.13	9	11.0	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42.0	47.5	57.0	45	54	61.0	73.2
7/16	11.11	25	30	40.7	47.4	54	64.0	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96.0	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132.0	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1 1/8	25.58	-	-	-	-	800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1 1/4	31.75	-	•	-	-	1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1 3/8	34.93	-	•	•	-	1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1 1/2	38.10	-	-	-	-	1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

METRIC BOLT TORQUE SPECIFICATIONS

				Coarse thre	ad				Fine Thread		
Size of	Condo No	Pitch	Pound	ls-Foot	Newton	s-Meter	Pitch mm	Pound	ls-Foot	Newtor	s-Meter
screw	screw Grade No.	mm	MIN.	MAX.	MIN.	MAX.		MIN.	MAX.	MIN.	MAX.
M6	4T (4) 7T (7) 8T (8) (1)	1.0	3.6 5.8 7.2	5.8 9.4 10	4.9 7.9 9.8	7.9 12.7 13.6	-	- - -		-	-
M8	4T 7T 8T	1.25	7.2 17 20	14 22 26	9.8 23 27.1	19.0 29.8 35.2	1.0	12 19 22	17 27 31	16.3 25.7 29.8	23.0 36.6 42
M10	4T 7T 8T	1.5	20 34 38	25 40 46	27.1 46.1 51.5	33.9 54.2 62.3	1.25	20 35 40	29 47 52	27.1 47.4 54.2	39.3 63.7 70.5
M12	4T 7T 8T	1.75	28 51 57	34 59 66	37.9 69.1 77.2	46.1 79.9 89.4	1.25	31 56 62	41 68 75	42 75.9 84	55.6 92.1 101.6
M14	4T 7T 8T	2.0	49 81 96	56 93 109	66.4 109.8 130.1	75.9 126 147.7	1.5	52 90 107	64 106 124	70.5 122 145	86.7 143.6 168
M16	4T 7T 8T	2.0	67 116 129	77 130 145	90.8 157.2 174.8	104.3 176.2 196.5	1.5	69 120 140	83 138 158	93.5 162.6 189.7	112.5 187 214.1
M18	4T 7T 8T	2.0	88 150 175	100 168 194	119.2 203.3 237.1	136 227.6 262.9	1.5	100 177 202	117 199 231	136 239.8 273.7	158.5 269.6 313
M20	4T 7T 8T	2.5	108 186 213	130 205 249	146.3 252 288.6	176.2 277.8 337.4	1.5	132 206 246	150 242 289	178.9 279.1 333.3	203.3 327.9 391.6

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