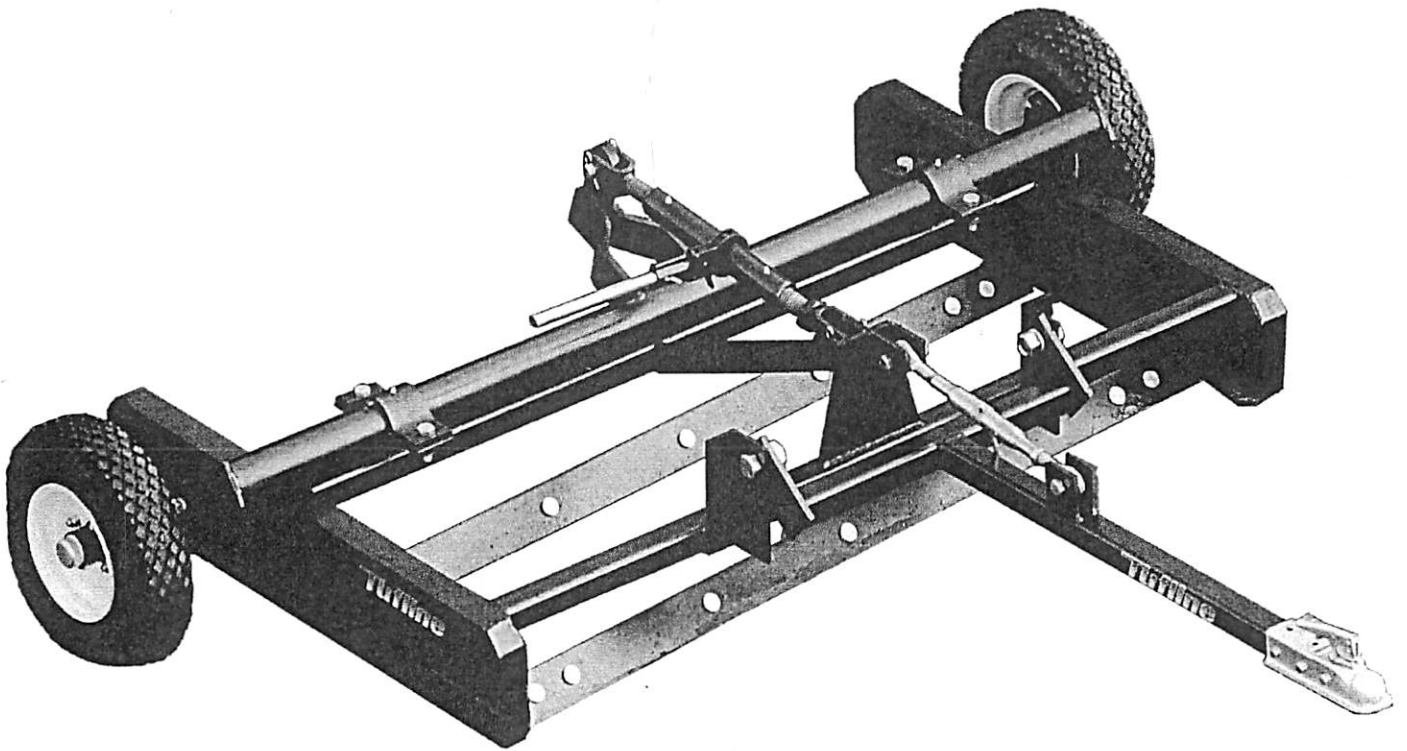


OPERATOR'S MANUAL

ATV LAND PLANE

ATVLP-48

ATVLP-60



Tuftline[®]

www.monroetuftline.com

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Tufline dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Owner's/Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration located on page 16 and mail to Tufline

TO THE OWNER:

Read this manual before operating your Tufline equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Tufline dealer has trained mechanics, genuine Tufline service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Tufline service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING** and **DANGER** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

 **WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.

 **CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT

Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.

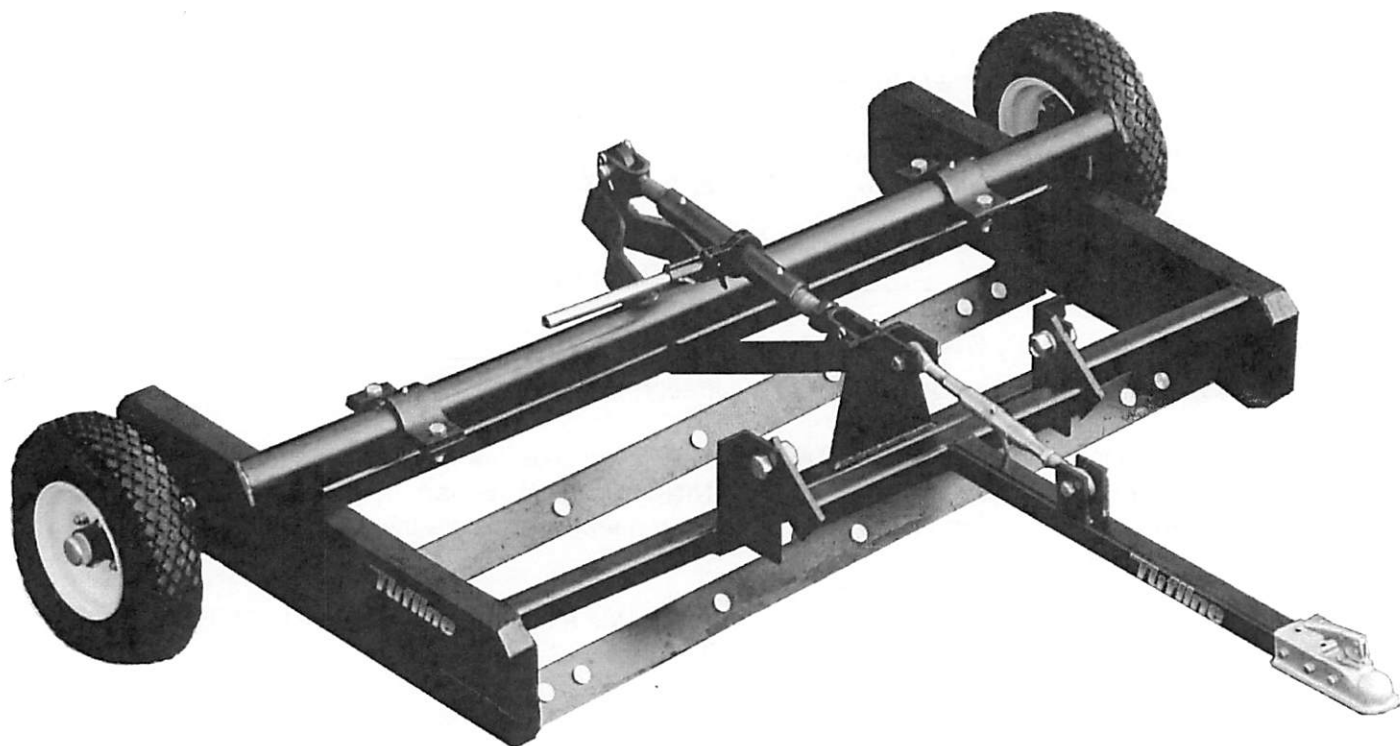
Introduction ii

OPERATOR'S MANUAL

ATV LAND PLANE

ATVLP-48

ATVLP-60

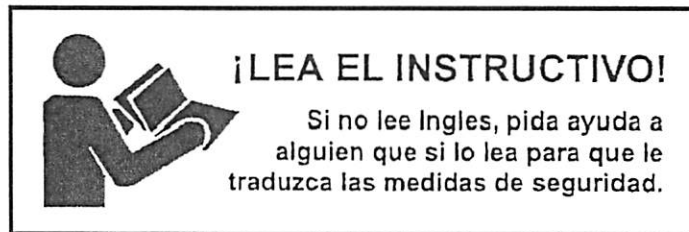


Tufline[®]

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SPECIFICATIONS

| | LP1048 | LP1060 |
|------------------------------|--------------------------|--------------------------|
| Hitch | Drawn, 1 7/8" Ball Hitch | Drawn, 1 7/8" Ball Hitch |
| Working Width | 48" | 60" |
| Working Depth | 40" | 40" |
| Shipping Weight | 445 lbs | 495 lbs |
| Approximate Operating Weight | 365 lbs | 415 lbs |
| Beam Type | Tubular 2" X 2" X 3/16" | Tubular 2" X 2" X 3/16" |
| Cutting Edges | (2) 1/4" x 3' flat | (2) 1/4" x 3' flat |
| End Plate Thickness | 3/16" | 3/16" |
| End Plate Height | 8" | 8" |
| End plate Length | 40" | 40" |

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your ATV LAND PLANE. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance.

These instructions have been compiled from field experience and engineering data. Some information may be general in nature, due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to

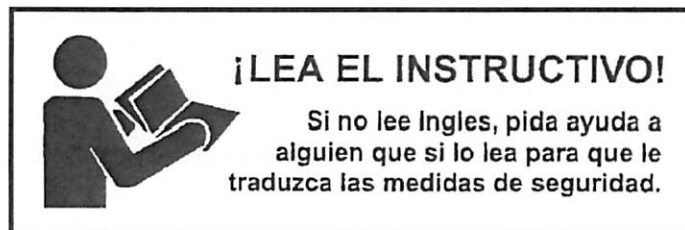
your particular situation.

The illustrations and data used in this manual were current at the time of printing. However, due to possible in line production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the ATV facing the direction of forward travel.

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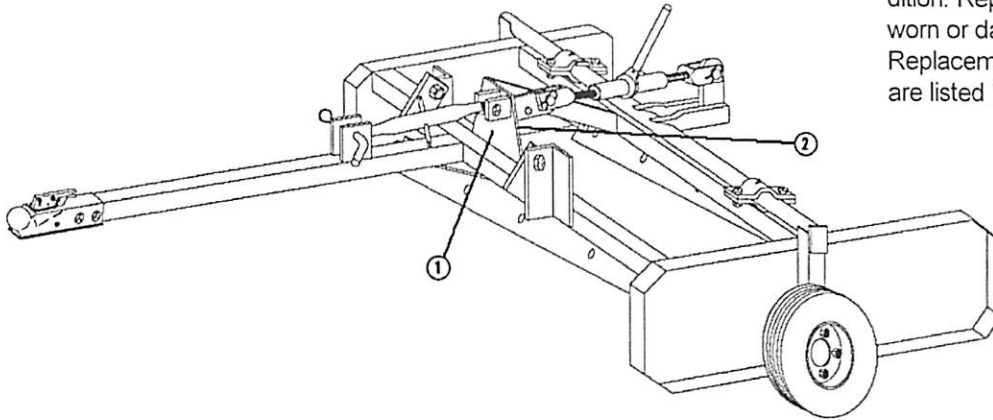


SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH

Replace Decals Immediately If Damaged!

Check that all safety decals are installed and in good condition. Replace if decals are worn or damaged. Replacement Part numbers are listed here.



①

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- Read Operator's Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions. Manuals are available from your selling dealer.
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from power unit seat only.
- Do not operate on public roadway.
- Stop engine, remove key and set brake before dismounting power unit.
- Never allow children or untrained persons to operate equipment.
- Do not operate towed or semi-mounted units over 20MPH.
- Stand clear of machine when in operation or when it is being raised or lowered.

**FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT
IN INJURY OR DEATH.**

TL15635

TUFLINE

MODEL # _____

SERIAL # _____

TUFLINE MANUFACTURING COMPANY, INC.
COLUMBUS, MS
662-328-8347

②



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from selling dealer.) Failure to follow instructions or safety rules can result in serious injury or death.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Never allow children or untrained persons to operate equipment.
- Train all new personnel and review instruction's frequently with existing workers. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

PREPARATION

- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy,

rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Power unit, when applicable, must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- 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.

TRANSPORTATION

- Always comply with all state and local laws governing highway safety and lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate or transport on steep slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Do not operate or transport equipment while under the influence of alcohol or drugs. Consult your doctor about operating this machine while taking prescription medications.

OPERATION

- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of

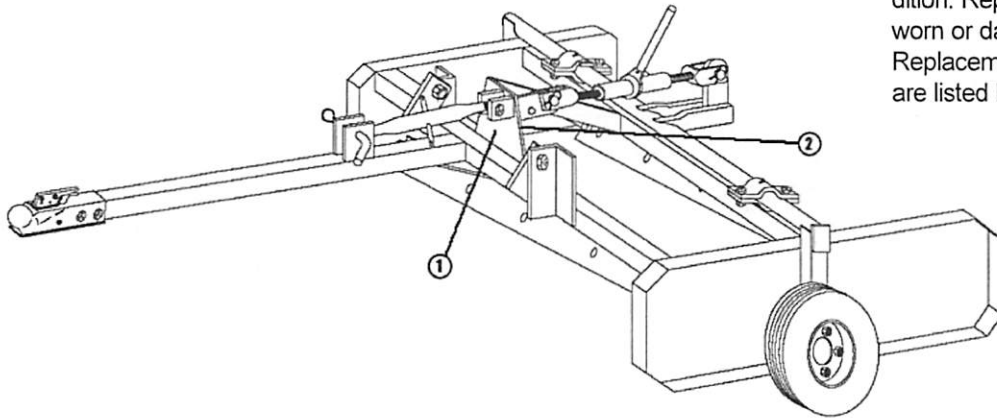
Safety Rules continued on the next page

SAFETY & INSTRUCTIONAL DECALS

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Check that all safety decals are installed and in good condition. Replace if decals are worn or damaged. Replacement Part numbers are listed here.



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- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from power unit seat only.
- Do not operate on public roadway.
- Stop engine, remove key and set brake before dismounting power unit.
- Never allow children or untrained persons to operate equipment.
- Do not operate towed or semi-mounted units over 20MPH.
- Stand clear of machine when in operation or when it is being raised or lowered.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

TL15635

TUFLINE

MODEL # _____

SERIAL # _____

TUFLINE MANUFACTURING COMPANY, INC.
COLUMBUS, MS
662-328-8347

②



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety Rules continued from the previous page

OPERATION (cont'd)

the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Always comply with all state and local laws governing highway safety and lighting and marking requirements.
- Operate only in daylight or good artificial light.
- Keep bystanders away from equipment.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Power unit, when applicable, must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Never allow riders on power unit or attachment.
- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.
- Do not operate or transport on steep slopes.
- Do not stop, start, or change directions suddenly on slopes. Always operate down slopes;

never across the face.

- Use extreme care and reduce ground speed on slopes and rough terrain.
- Keep alert and watch the front as well as the rear when operating.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Before leaving operator's seat, put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

MAINTENANCE

- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- When performing maintenance or repairs make sure the equipment is in the lowered position. Failure to do so can cause serious injury or death.

Safety Rules continued on the next page



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety Rules continued from the previous page

MAINTENANCE(cont'd)

- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Before leaving operator's seat put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.
- Never perform service or maintenance with engine running.
- Keep all persons away from operator control

area while performing adjustments, service, or maintenance.

- Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

STORAGE

- Block equipment securely for storage.
- Keep children and bystanders away from storage area.



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety Rules continued from the previous page

OPERATION (cont'd)

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MAINTENANCE

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- When performing maintenance or repairs make sure the equipment is in the lowered position. Failure to do so can cause serious injury or death.

Safety Rules continued on the next page

DEALER INSTRUCTIONS

Pre-Assembly

Tongue Assembly

Ref. Figure 1, Page 11

Remove the two 1" x 2 ½" grade 5 bolts (part# 10012) from the main frame (either part# 15615 or 15581). Attach the tongue (part# 15587) to the main frame (15615 or 15581) with the two bolts (part# 10012) just removed. Tighten bolts with a 1" lock nut (10332). DO NOT OVERTIGHTEN because this is a pivot point for leveling the land plane. Once tightened, remove the adjustment pin (part# 9690) from the tongue (part# 15587) and attach the tongue turnbuckle (part# 15532).

Dealer Checklist

(Dealer's Responsibility)

Inspect the equipment thoroughly after assembly to be certain it is set up properly before delivering it to the customer. The following check list is a reminder of points to inspect.

Check off each item if it is found satisfactory or after proper adjustment is made.

____ Check that all safety decals are installed and in good condition. Replace if damaged.

____ Check all bolts to be sure they are tight.

____ Check that all cotter pins and safety pins are properly installed.

____ It is important for the dealer to visually check and make sure all parts are in tact prior to delivery to customer.

____ Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.

____ Show customer how to make adjustments.

____ Present Owner's/Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.

____ Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.

____ Explain to customer the potential crushing hazards of going underneath raised equipment. Instruct customer that service work does not require going underneath unit and never to do so.

____ Complete the Warranty Registration located on the Frontier website.

Operation

The ATV LAND PLANE is designed to be for all-terrain utility vehicles and lawn and garden tractors only. Do not over heat power source. Make sure your vehicle has adequate power and is capable of pulling this implement.

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

The operator is responsible for the safe operation of this equipment. The operator must be properly trained. Operators should be familiar with the equipment, the power unit, and all safety practices before starting operation. Read the safety rules and safety decals on pages 2-6.

Owner should check and tighten all hardware after the first hour of operation. The break in stage of your new ATV GRADER BLADE can cause minimal loosening of hardware. Please see Bolt Torque Chart (page 10) for proper torque information.

WARNING

- Power unit, when applicable, must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed.

Keep foldable ROPS systems in "locked up"

position at all times.

- Never allow children or untrained persons to operate equipment.

- Keep bystanders away from equipment.

- NEVER GO UNDERNEATH EQUIPMENT.

Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Service work does not require going underneath.

- Read Manual for service instructions or have service performed by a qualified dealer.

- Stop power unit and implement immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

Owner/Operator Pre-Operation Checklist (Owner's/Operator's Responsibility)

____ Review and follow all safety rules and safety decal instructions on page 2 through page 5.

____ Check that equipment is properly and securely attached to power unit.

____ Check that all safety decals are installed and in good condition. Replace if damaged.

____ Check that all hardware is properly installed and secured.

____ Do not allow riders on power unit or attachment.

____ Make sure, when applicable, power unit ROPS or ROPS CAB and seat belt are in good condition. Keep seat belt securely fastened during operation.

DEALER INSTRUCTIONS

Pre-Assembly

Tongue Assembly

Ref. Figure 1, Page 11

Remove the two 1" x 2 1/2" grade 5 bolts (part# 10012) from the main frame (either part# 15615 or 15581). Attach the tongue (part# 15587) to the main frame (15615 or 15581) with the two bolts (part# 10012) just removed. Tighten bolts with a 1" lock nut (10332). **DO NOT OVERTIGHTEN** because this is a pivot point for leveling the land plane. Once tightened, remove the adjustment pin (part# 9690) from the tongue (part# 15587) and attach the tongue turnbuckle (part# 15532).

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___ Check all bolts to be sure they are tight.

___ Check that all cotter pins and safety pins are properly installed.

___ It is important for the dealer to visually check and make sure all parts are in tact prior to delivery to customer.

___ Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.

___ Show customer how to make adjustments.

___ Present Owner's/Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.

___ Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.

___ Explain to customer the potential crushing hazards of going underneath raised equipment. Instruct customer that service work does not require going underneath unit and never to do so.

___ Complete the Warranty Registration located on the Frontier website.

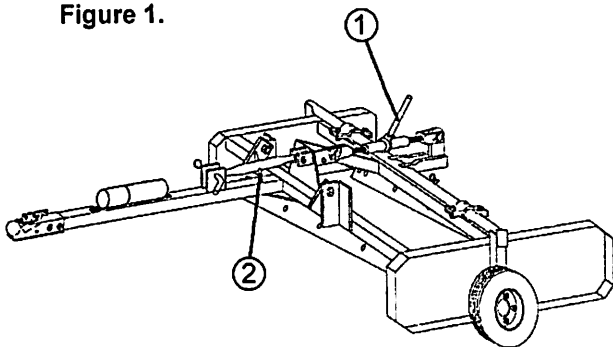
Land Plane Set Up and Use

WARNING

- Always comply with all state and local laws governing highway safety and lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate or transport on steep slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Do not operate or transport equipment while under the influence of alcohol or drugs. Consult your doctor about operating this machine while taking prescription medications.
- Before connecting the land plane be sure your power unit has a 1 7/8" ball connection. Make sure the ball coupler fully locks.
- When connecting the land plane to your power unit use caution and back up at a slow rate of speed. Keep bystanders clear of the utility vehicle and land plane.

Connect the land plane to the 1 7/8" ball hitch on your power unit and find a level place near where you will be working. Using the wheel carriage turn-

Figure 1.



buckle (Figure 1, #1), lower your land plane about 1" off of the ground. Check and see if the front cutting blade is higher or lower than the rear cutting

blade. Using the tongue turnbuckle (Figure 1, #2), raise or lower the the rear cutting blade to level it with the front cutting blade. After beginning your work you can adjust the tongue turnbuckle (Figure 1, #2) to make the front cutting blade cut more or less than the rear to create the desired effect to properly level your working area.

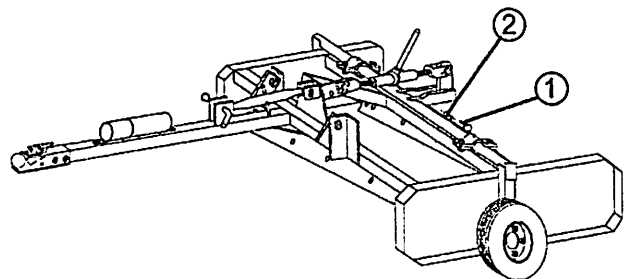
NOTE: If you purchased a land plane with an electric lift acuator the above also applies except the electric lift acuator will replace the wheel carriage turnbuckle.

NOTE: In some cases, you may notice a strain on your power unit. If this is the case, use your wheel carriage as a depth control by lowering the wheel carriage using the wheel carriage turnbuckle (Figure 1, #1).

Transport

To transport your land plane, remove the lynch pin (Figure 2, #1) from the wheel carriage transport lock (Figure 2, #2). Raise the wheel carriage using the wheel carriage turnbuckle until you can insert the lynch pin into the wheel carriage transport lock in the locked position.

Figure 2.



IMPORTANT: If you purchased a land plane with an electric actuator it is very important that you always properly lock the wheel carriage before transporting your land plane. Failure to do so will damage your actuator and void your warranty.

Owner Service

WARNING

- **NEVER GO UNDERNEATH EQUIPMENT.** Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- Service work does not require going underneath.

WARNING

- Read Manual for service instructions or have service performed by a qualified dealer.

CAUTION

The information in this section is written for operators who possess basic mechanical skills. If you need help, your dealer has trained service technicians available. For your protection, read and follow the safety information in this manual.

WARNING

- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower all raised components to the ground, set parking brake, stop engine, remove key, and unfasten seat belt.

CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

Lubrication

Lubricate the following every 50 hours:

Wheel hubs (part# 11978) Figure 1, one on each hub

Wheel carriage wear cuffs (part# 15576) Figure 1, one on each cuff

Wheel carriage turnbuckle (part# 15005) Figure 1, one on each end

Check all nuts for proper torque periodically. Please see bolt torque chart (page 10) for proper torque information.

Storage

When storing your land plane make sure the unit is placed on level ground and clear of any obstructions. Use caution when disconnecting the land plane from your utility vehicle.

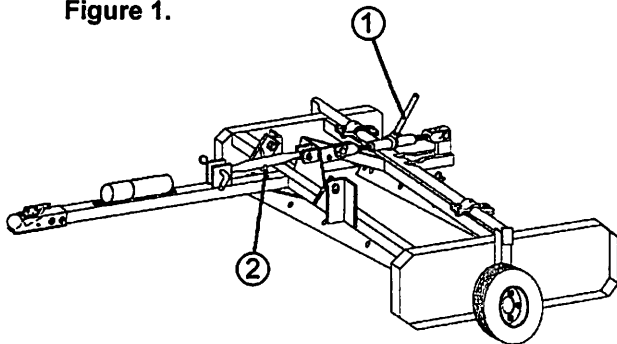
Land Plane Set Up and Use

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- When connecting the land plane to your power unit use caution and back up at a slow rate of speed. Keep bystanders clear of the utility vehicle and land plane.

Connect the land plane to the 1 7/8" ball hitch on your power unit and find a level place near where you will be working. Using the wheel carriage turn-

Figure 1.



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blade. Using the tongue turnbuckle (Figure 1, #2), raise or lower the the rear cutting blade to level it with the front cutting blade. After beginning your work you can adjust the tongue turnbuckle (Figure 1, #2) to make the front cutting blade cut more or less than the rear to create the desired effect to properly level your working area.

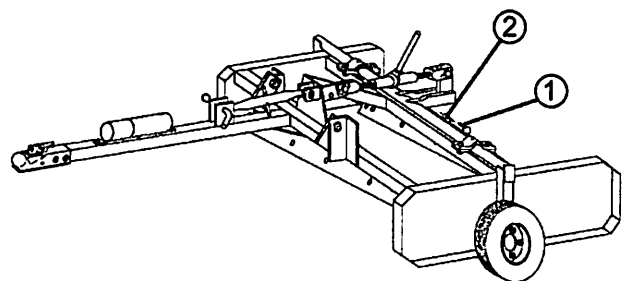
NOTE: If you purchased a land plane with an electric lift acuator the above also applies except the electric lift acuator will replace the wheel carriage turnbuckle.

NOTE: In some cases, you may notice a strain on your power unit. If this is the case, use your wheel carriage as a depth control by lowering the wheel carriage using the wheel carriage turnbuckle (Figure 1, #1).

Transport

To transport your land plane, remove the lynch pin (Figure 2, #1) from the wheel carriage transport lock (Figure 2, #2). Raise the wheel carriage using the wheel carriage turnbuckle until you can insert the lynch pin into the wheel carriage transport lock in the locked position.

Figure 2.



IMPORTANT: If you purchased a land plane with an electric actuator it is very important that you always properly lock the wheel carriage before transporting your land plane. Failure to do so will damage your actuator and void your warranty.

SAE TORQUE CHART

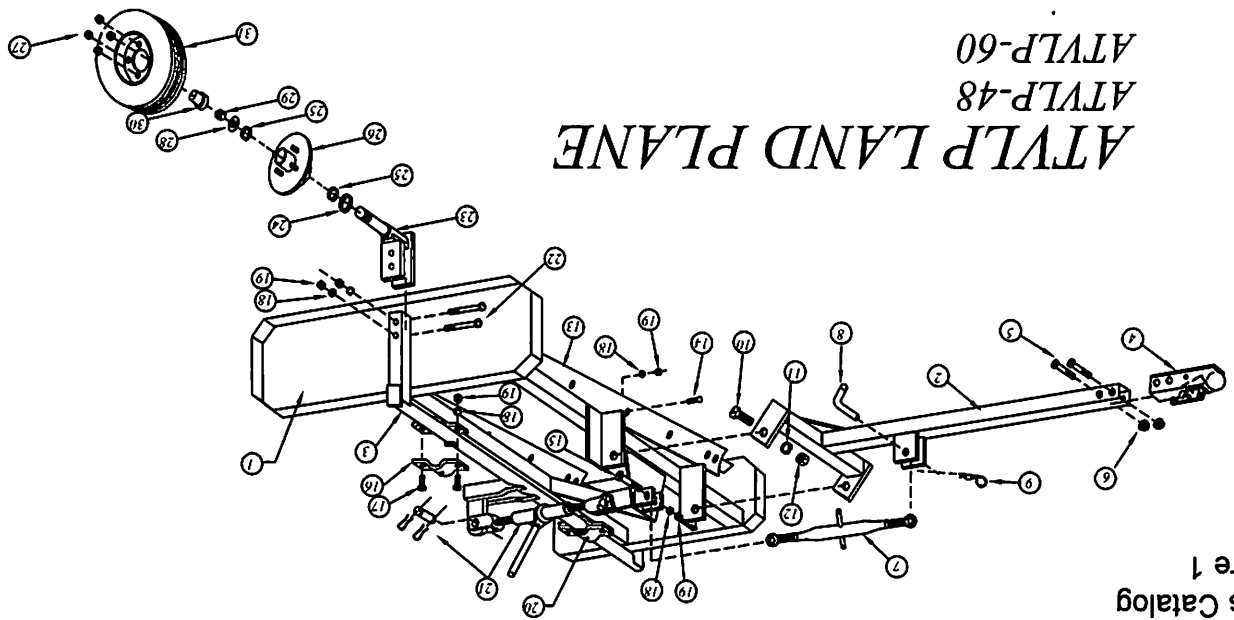
NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE bolts.

THIS IS STANDARD FOR SAE GUIDE FOR ALL MONROE TUFLINE IMPLEMENTS

| Diameter (inches) | Wrench Size | MARKING ON HEAD | | | | | |
|----------------------|----------------|-----------------|-----|--------|-----|--------|------|
| | | SAE 2 | | SAE 5 | | SAE 8 | |
| | | Lbs-ft | N-m | Lbs-ft | N-m | Lbs-ft | N-m |
| 1/4" | 7/16" | 6 | 8 | 10 | 13 | 14 | 18 |
| 5/16" | 1/2" | 12 | 17 | 19 | 26 | 27 | 37 |
| 3/8" | 9/16" | 23 | 31 | 35 | 47 | 49 | 67 |
| 7/16" | 5/8" | 36 | 48 | 55 | 75 | 78 | 106 |
| 1/2" | 3/4" | 55 | 75 | 85 | 115 | 120 | 163 |
| 9/16" | 13/16" | 78 | 106 | 121 | 164 | 171 | 232 |
| 5/8" | 15/16" | 110 | 149 | 170 | 23 | 240 | 325 |
| 3/4" | 1-1/8" | 192 | 261 | 297 | 403 | 420 | 569 |
| 7/8" | 1-5/16" | 306 | 416 | 474 | 642 | 669 | 907 |
| 1" | 1-1/2" | 467 | 634 | 722 | 979 | 1020 | 1383 |

11 Parts Catalog

| REF. # | PART # | DESCRIPTION |
|--------|--------|---|
| 1 | 15581 | MAIN FRAME WELDMENT |
| 2 | 15587 | TONGUE WELDMENT |
| 3 | 15590 | WHEEL CARRIAGE WELDMENT |
| 4 | 15508 | 1 7/8" BALL COUPLER |
| 5 | T-892 | 3/8" X 3" GR.5 HEX BOLT |
| 6 | 12899 | 3/8" FLANGE LOCK NUT |
| 7 | 15322 | SMALL TURNBUCKLE |
| 8 | 9690 | ADJUSTMENT PIN, 5/8" |
| 9 | 9979 | COTTER HAIR PIN |
| 10 | 15239 | 1" X 2" GR. 5 HEX BOLT |
| 11 | T-34 | LOCKWASHER, 1" |
| 12 | T-28 | UNC HEX NUT, 1" |
| 13 | 15579 | CUTTING EDGE, 60" |
| 14 | 15589 | CARRIAGE BOLT, 5/8" X 1 3/4" GR2 |
| 15 | 9973 | HEX BOLT, 5/8" X 3" GR.5 |
| 16 | 15576 | WEAR CUFF (TOP) |
| 17 | 10322 | HEX BOLT, 5/8" X 1 1/2" GR. 5 |
| 18 | T-24 | LOCKWASHER, 5/8" |
| 19 | T-22 | UNC HEX NUT, 5/8" |
| 20 | T-9 | GREASE FITTING, 1/8" |
| 21 | 15005 | TURNBUCKLE ASSY. |
| 22 | T-743 | HEX BOLT, 5/8" X 4" GR.8 |
| 23 | 15002 | SPINDLE WELDMENT |
| 24 | 11980 | SEAL, 1 15/16" O.D. X 1 1/4" I.D. |
| 25 | 11981 | BEARING, 1" (L44543) |
| 26 | 11978 | HUB ASSY, 4-BOLT, 2 7/16" PILOT |
| 27 | T-23 | LUG NUT, 1/2" NF. |
| 28 | 11983 | FLAT WASHER, 13/16" I.D. X 1 7/16" O.D. |
| 29 | T-567 | CASTLE NUT, 3/4" NF. |
| 30 | 11985 | HUB CAP, 2" O.D. |
| 31 | 11977 | WHEEL & TIRE ASSY. |
| N/A | 14634 | SAFETY DECALS (6) |
| N/A | 12585 | TUFLINE DECAL, 15" |
| N/A | 12584 | TUFLINE DECAL, 8" |
| N/A | 15624 | ASSEMBLY & OPERATORS MANUAL |



Parts Catalog
Figure 1

SAE TORQUE CHART

NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE bolts.

THIS IS STANDARD FOR SAE GUIDE FOR ALL MONROE TUFLINE IMPLEMENTS

| Diameter (inches) | Wrench Size | MARKING ON HEAD | | | | | |
|----------------------|----------------|-----------------|-----|--------|-----|--------|------|
| | | SAE 2 | | SAE 5 | | SAE 8 | |
| | | Lbs-ft | N-m | Lbs-ft | N-m | Lbs-ft | N-m |
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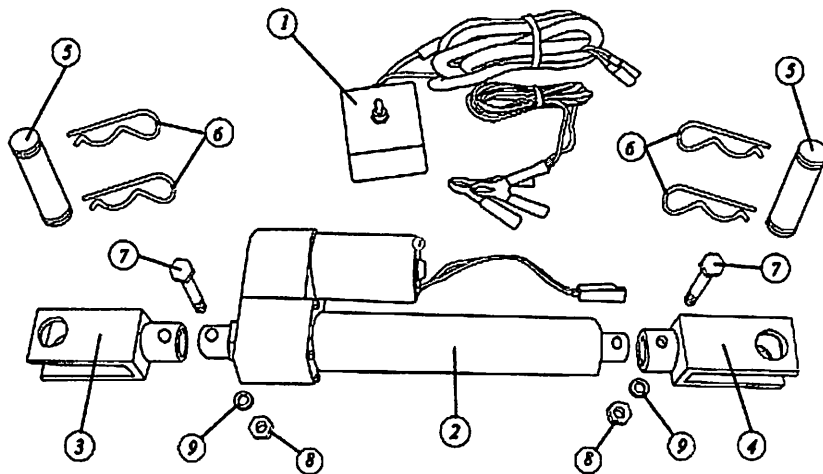
Optional Equipment Electric Actuator Kit

An electric actuator kit can be mounted on the ATV LAND PLANE.;P to allow control of the wheel carriage from your power unit. When attaching the actuator to the disc, place the motor end toward the front of the unit and the shaft toward the rear. The motor should be facing upward. Once the actuator is set, the power cord should be connected to the power unit's battery with the clips. Connect the red clip to the positive post and connect the black clip to the negative post. Find a convenient location on the power unit

and mount the switch with the cable ties provided. Once the actuator and switch are in place, please use the remaining cable ties to fasten the excess poser cord so it does not drag the ground or come in contact with any pinch points that may cut or damage the wiring.

Note: When disconnecting the land plane from the power unit, be sure to disconnect the power cord. FAILURE TO DO SO COULD CAUSE DAMAGE TO YOUR DISC OR POWER UNIT!

IMPORTANT: WHEN TRANSPORTING UNIT THE TURNBUCKLE SHOULD BE USED INSTEAD OF THE ELECTRICAL ACTUATOR. FAILURE TO DO SO WILL DAMAGE YOUR ACTUATOR AND VOID YOUR WARRANTY!



| Ref.# | Part # | Description | Qty. |
|-------|--------|-----------------------------------|------|
| 1 | 15332 | SWITCH WIRING HARNESS | 1 |
| 2 | 15336 | ELECTRIC ACTUATOR | 1 |
| 3 | 15627 | ELECTRIC ACTUATOR FRONT EXTENSION | 1 |
| 4 | 15628 | ELECTRIC ACTUATOR REAR EXTENSION | 1 |
| 5 | 15532 | 1 PIN" | 2 |
| 6 | 9979 | HAIR PIN CLIP | 4 |
| 7 | 13361 | HEX BOLT, 1/2 X 2 1/4" GR.5" | 2 |
| 8 | T-25 | LOCK WASHER, 1/2",2" | 2 |
| 9 | T-26 | HEX NUT, 1/2",2" | 2 |

Parts Table 12

WARRANTY

Please enter information below and save for future reference:

Date Purchase: _____ From (Dealer): _____

Model Number: _____ Serial Number: _____

Monroe-Tufline Manufacturing Co., Inc. ("Monroe-Tufline") 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 SIX (6) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of Monroe-Tufline, 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 Monroe-Tufline, a Monroe-Tufline authorized dealer or distributor, and/or a Monroe-Tufline authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through Monroe-Tufline.

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.

Monroe-Tufline makes no warranty, express or implied, with respect to cutting edges, shanks, tires or other parts or accessories not manufactured by Monroe-Tufline. Warranties for these items, if any, are provided separately by their respective manufacturers.

Monroe-Tufline's obligation under this Warranty is limited to, at Monroe-Tufline's option, the repair or replacement, free of charge, of the product if Monroe-Tufline, 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 Monroe-Tufline 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.** Monroe-Tufline shall complete such repair or replacement within a reasonable time after Monroe-Tufline 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. MONROE-TUFLINE MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MONROE-TUFLINE SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE (EXCEPT WHERE PROHIBITED BY LAW).

Monroe-Tufline shall not be liable for any incident or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Monroe-Tufline'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. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Monroe-Tufline.

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

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, Monroe-Tufline, 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. For warranty services, contact your selling dealer.

13 Warranty

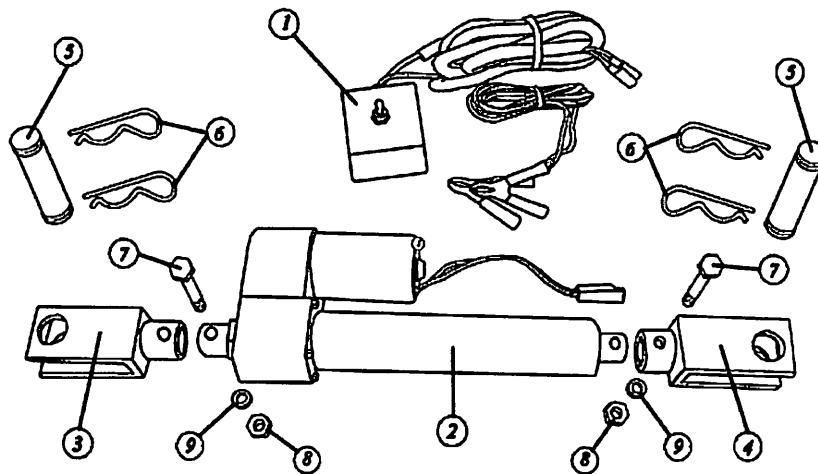
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| 9 | T-26 | HEX NUT, 1/2",2" | 2 |

Parts Table 12

WARRANTY FOR PARTS

Monroe-Tufline Manufacturing Co., Inc. ("Monroe-Tufline") 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 Monroe-Tufline, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

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 a third party purchaser in any way. There are no third party beneficiaries of this Warranty.

Monroe-Tufline's obligation under this Warranty is limited to, at Monroe-Tufline's option, the repair or replacement, free of charge, of the product if Monroe-Tufline, 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 product must be returned to Monroe-Tufline 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.** Monroe-Tufline shall complete such repair or replacement within a reasonable time after Monroe-Tufline 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.**

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Monroe-Tufline shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, Monroe-Tufline 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 Monroe-Tufline's ability to obtain materials or manufacture replacement parts.

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

For warranty services, contact your selling dealer.

Warranty For Parts 14

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Warranty For Parts14

NOTES: _____

FILL OUT REGISTRATION CARD BELOW AND MAIL TO:

MONROE TUFLINE
Attn; Owner Registration
PO BOX 7755
Columbus, MS 39705

OWNER WARRANTY REGISTRATION

NAME _____ ADDRESS / CITY / STATE _____

DEALER NAME _____ CITY / STATE _____

DATE OF PURCHASE _____ MODEL # _____ SERIAL # _____

COMMENTS _____

PART NO.
15624

Tufline[®]

MONROE TUFLINE MFG. CO., INC.

PO BOX 7755 / 2219 TUFLINE LANE

COLUMBUS, MS 39705-0004

(662)328-8347

www.monroetufline.com

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NOTES: _____

FILL OUT REGISTRATION CARD BELOW AND MAIL TO:

MONROE TUFLINE
Attn; Owner Registration
PO BOX 7755
Columbus, MS 39705

.....

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