



TITAN WORLDWIDE INC.

Ti-tan (ttn) n.

One that is gigantic in size or power. One that stands out for greatness of achievement

PHONE: 807-474-5337 FAX: 807-623-5692 EMAIL: info@titanworldwide.com WEB: www.titanworldwide.com

Material Handling Equipment Operator & Installation Manual

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Titan Worldwide Material Handling Solutions 701 Montreal Street Thunder Bay, Ontario, Canada P7E 3P2

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Introduction

Thank you for choosing Titan Material Handling Solutions. Our equipment, when used in accordance with the manual, will provide years of trouble free service.

Please read and understand this manual before attempting to install or operate equipment, failure to do so could result in severe bodily harm or damage to the equipment.

Please follow all local electrical and safety standards when installing and operating this piece of equipment.

If you have any questions regarding installation or operation please contact your nearest distributor or the factory direct. Our representatives are available to assist you.

MODEL NUMBER	
SERIAL NUMBER	
CAPACITY	
VOLTAGE	

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IDENTIFICATION

Please have the model number and serial number handy when ordering parts or requesting information on your Titan Worldwide equipment. This information is on a nameplate attached to the base frame assembly. Serial is important to identify your exact piece of equipment.

INSPECTION

A visual inspection should be made immediately upon receipt of any Titan Worldwide equipment to determine that the unit has not been damaged in transit. Any damage found must be noted on the delivery receipt. Any concealed damage that is found after delivery must be reported in writing to the delivering carrier within 48 hours of delivery. Check packing list to determine that all loose parts are with the shipment.

IMPORTANT NOTES

Every effort was made to include all information relative to the safe operation and proper maintenance of this equipment. However, due to the varying usage and other factors beyond our control, it is virtually impossible to foresee every possible event, which may arise. A certain amount of *common-sense* must therefore be employed. We strongly recommend that all operation and maintenance personnel make themselves familiar with this manual.

If any special problems arise or you have any questions regarding the safe operation or proper maintenance of the equipment, please contact your nearest distributor or a Titan Worldwide factory representative directly.

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Titan Worldwide recommends that a safety committee be established with a bi-annual review concerning the proper use of the equipment. This committee would certify each operator based on proper procedures as outlined in this manual. Other shop safety procedures would also be addressed by this committee.

The terms **NOTE**, **CAUTION** and **WARNING** have specific meanings in this manual.

NOTE: provides additional information to make a step or procedure easier or more understandable.

CAUTION: emphasizes areas where equipment damage could occur. Disregarding a **CAUTION** could result in permanent mechanical damage. However, personal injury is unlikely.

WARNING: emphasizes areas where personal injury or possibly death could occur. Mechanical damage may also occur. **Warnings** are to be taken seriously.

IMPORTANT: indicates that particular attention should be paid to the statement following it.

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INSTALLATION INSTRUCTIONS / SCISSOR STYLE EQUIPMENT

PIT INSTALLATION BASE FRAME MODELS

A) Check pit dimensions, length, width, and depth, in accordance to the approved drawings.

B) Check electrical requirements. If permanent wiring connections are used, check location of control panel and conduit location. Temporary with on - off controls will have to be provided for installation and testing purposes. If an extension cord is to be used, use one rated for 30 amps. Always check motor rotation, pump motor must turn clockwise to operate properly.

CAUTION: Operating the pump motor in the wrong direction can damage the pump. Check pump motor rotation before cycling the lift.

C) Place the lift table in the pit. Do not attempt to pick up the lift by the platform, it is hinged and will cause equipment damage. Pick up the lift table from under the base frame.

CAUTION: Picking up the lift table by the platform will cause equipment damage.

D) Make temporary electrical connections. Raise the lift table to full rise and block the scissor mechanism. Make positioning adjustments to correctly align the lift table in the pit. Adjust lift table to have an even amount of clearance around the pit edges.

E) Locate the pre-drilled holes on the base frame provided for lagging the lift table to the floor. Mark the drill holes, and then install the anchor bolts.

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F) Remove the blocks holding the scissor arm and lower the lift table. Check for proper height, the lift should be solid and level with the floor height. Shim to the desired height if necessary, DO NOT spot shim, shims should be the full length of the base frame. The base frame must be fully supported to prevent the frame from sagging under heavy load.

CAUTION: The base frame must be fully supported if shimming is required.

G) Make permanent electrical connections if required and cycle the lift repeatedly for 15 minutes. If unit has a single acting power pack hold the down control in for about 10-15 seconds after the lift table has bottomed out to bleed air out of the cylinders. If you are not sure of your power pack configuration consult your distributor or a Titan Worldwide factory representative. Add oil to reservoir if necessary.

CAUTION: If you have a double acting power pack, engaging the control button continually after the unit is fully raised or lowered could cause electric motor and / or hydraulic pump damage.

H) Clean area around lift table after installation. A clean installation makes a good impression, and spilled oil left in the area may be misinterpreted as a leak.

FLOOR INSTALATION BASE FRAME MODELS

A) Check area around table installation for overhead obstructions.

B) Check electrical requirements. If permanent wiring connections are used, check location of control panel and conduit location. Temporary wiring with on - off controls will have to be provided for installation and testing purposes. If an extension cord is to be used, use on rated for 30 amps. Always check motor rotation, pump motor must turn clockwise to operate properly.

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CAUTION: Operating the pump motor in the wrong direction can damage the pump. Check pump motor rotation before cycling the lift.

C) Place the lift table in the desired area. Do not attempt to pick up the lift by the platform, it is hinged and will cause equipment damage. Pick up the lift table from under the base frame.

CAUTION: Picking up the lift table by the platform will cause equipment damage.

D) Make temporary electrical connections. Raise the lift table to full rise and block the scissor mechanism. Make positioning adjustments.

E) Locate the pre-drilled holes on the base frame provided for lagging the lift table to the floor. Mark and drill holes, then install the anchor bolts.

F) Remove the blocks holding the scissor arm and lower the lift table. Check for proper height, the lift should be solid and level. Shim to the desired height if necessary. **DO NOT** spot shim; shims should be full length of the base frame. The base frame must be fully supported to prevent the frame from sagging under heavy load.

CAUTION: The base frame must be fully supported if shimming is required.

G) Make permanent electrical connections if required and cycle the lift repeatedly for 15 minutes. If unit has a single acting power pack hold the down control in for about 10-15 seconds after the lift table has bottomed out to bleed air out of the cylinders. If you are not sure of your power pack configuration consult your distributor or a Titan Worldwide factory representative. Add oil to reservoir if necessary.

CAUTION: If you have a double acting power pack, engaging the control button continually after the unit is fully raised or lowered could cause electric motor and / or hydraulic pump damage.

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H) Clean area around lift table installation. A clean installation makes a good impression, and spilled oil left in the area may be misinterpreted as a leak.

INSTALLATION INSTRUCTIONS FOR DUMPERS / TILTER EQUIPMENT

A) Check area around table installation for overhead obstructions.

B) Check electrical requirements. If permanent wiring connections are used, check location of control panel and conduit location. Temporary wiring with on - off controls will have to be provided for installation and testing purposes. If an extension cord is to be used, use one rated for 30 amps. Always check motor rotation, pump motor must turn clockwise to operate properly.

CAUTION: Operating the pump motor in the wrong direction can damage the pump. Check pump motor rotation before cycling the lift.

C) Place the dumper / tilter in the desired area. Do not attempt to pick up the unit by the dumper / tilter bin, it is hinged and will cause equipment damage. Pick up the unit up from under the base frame.

CAUTION: Picking up the bin will cause equipment damage.

D) Ensure unit is placed on a level surface. Portable units can then be cycled to remove air from system. Stationary units must be mounted before cycling to avoid possibility of tipping.

WARNING: Cycling of stationary units before mounting to floor could cause unit to tip over resulting in personal injury and equipment damage.

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E) Locate the pre-drilled holes on the base frame provided for lagging the dumper / tilter table to the floor. Mark and drill holes, then install the anchor bolts.

F) The dumper / tilter should be solid and level. Shim to the level if necessary. DO NOT spot shim; shims should be full length of the base frame. The base frame must be fully supported to prevent the frame from sagging under heavy load.

CAUTION: The base frame must be fully supported if shimming is required.

G) Make permanent electrical connections if required and cycle the lift repeatedly. If unit has a single acting power pack hold the down control in for about 10-15 seconds after the dumper / tilter has bottomed out to bleed air out of the cylinders. If you are not sure of your power pack configuration consult your distributor or a Titan Worldwide factory representative. Add oil to reservoir if necessary.

CAUTION: If you have a double acting power pack, engaging the control button continually after the unit is fully raised or lowered could cause electric motor and / or hydraulic pump damage.

CHARACTERISTICS

Most hydraulic operated scissor lift tables, dumpers and tilters come complete with a self-contained power. These power units are either mounted inside the base frame or are remotely mounted separate from the equipment entirely. These power units usually consist of an intermittent duty electric motor, directly coupled to a pump, and a control valve assembly. This compact package is reliable, easily accessible and reduces maintenance costs to a minimum.

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Never operate a pump more than a couple of seconds without pumping oil. This applies to low oil conditions, improper motor rotation, or running the pump against the pressure relief valve after the lift is fully raised against the physical hard stops, overloaded beyond capacity, or operating with pinched or obstructed hydraulic lines.

LOADING

Titan Worldwide equipment have the load capacity stamped on a tag that is attached to the base frame assembly assembly. The relief valve in the power unit is pre-set at the factory for the rating of the lift table. Damage to the lift table may occur if the rated capacity is overloaded.

The lift table should be evenly loaded whenever possible. The end or side load capacity is reduced by 2% for every ½ inch extension from the center.

OPERATION

All Titan Worldwide equipment with factory supplied power units are provided with a relief valve that is set at the factory for the maximum safe capacity of the scissor lift. The motor is attached to a positive displacement pump which draws hydraulic fluid from a reservoir to in turn operate a hydraulic actuator which activates the unit. Depressing and holding the down push-button will energize a solenoid valve which allows the oil in the cylinder to return to the reservoir through a flow control valve. The flow control valve permits the lift to lower smoothly and at a controlled speed when loaded or unloaded. Notify your supervisor if the lift displays any hydraulic oil leaks or malfunctions in any way. Do not load or unload the unit whenever it is in motion. Make sure the unit has fully stopped before unloading. Always place loads in the center of the unit ensuring that they are evenly distributed. Obey all warning labels.

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- A) Know your equipment and controls, read the O&M Manual.
- B) Keep the work surfaces and elevating mechanisms clean and clear of debris.
- C) Stay alert, pay attention to the operation of the unit.
- D) Pay attention to overhead obstructions when operating a lift unit.
- E) Make sure fellow workers are aware that you are starting the equipment, make sure everyone is clear.
- F) Check operation daily. Contact your supervisor if the unit malfunctions.
- G) Never exceed the rated load of the equipment. Make sure loads are disbursed on the unit evenly and do not hang over any edges.
- H) Portable units must be on a firm, level surface when operating.
- I) Never allow unqualified or unauthorized personnel to operate the equipment.
- J) Never allow anyone to ride the equipment. Keep area under the platform clear of personnel when in a raised position.
- K) Always check clearances above, below and on all sides before operating the equipment.
- I) If the platform or any other part of the lift becomes entangled with an adjacent structure, do not attempt to free the lift with the controls. Get help.

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- M. Never attach wire, cable or similar items to the platform.
- N. Never alter, remove or substitute any item which would reduce the overall weight or stability of the lift.
- O. Never allow anyone to tamper with or service the lift when it is in the raised position without properly blocking the scissor arm mechanism.

GENERAL MAINTENANCE

Periodic inspections are essential to proper maintenance. A checklist with routine inspection points listed is provided as a guide to assist personnel in completing inspections and preventative maintenance.

ROUTINE MAINTENANCE

All routine maintenance should be performed monthly. The unit should be in the lowered position and the power should be turned off and locked out following a standard lock out tag out procedure.

- A) Check the oil level in the lift, add if necessary. Check with your dealer for recommended hydraulic oil.
- B) A general mechanical inspection of the unit should be completed noting any worn or broken parts. Broken parts should be replaced before returning the unit to operation. Any worn parts should be brought to the attention of your supervisor.

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- C) Check the hydraulic or air lines and fittings for leaks. Tighten or replace as necessary.
- D) Check electrical wiring for damage. Replace immediately if worn or damaged.
- E) Bearings without grease points are permanently lubricated and require no servicing. Bearing or hinge point with grease points provided should be serviced.
- F) Inspect the swivel casters for wear or cracks. Lubricate if needed.
- G) Clean area in and around lift so that it is free of foreign objects and debris.
- H) Air bag units should be inspected for cracked or worn air bag assemblies.
- I) As part of a regular maintenance program hydraulic lift should have the hydraulic oil removed and replaced with new oil once per year. Where the system is deemed to be high cycle the oil should be replaced twice per year.

CAUTION: All servicing should be done by qualified personnel who are familiar and understand all of the information provided in the O& M Manual.

ORDERING REPLACEMENT PARTS.

- 1) Standard replacement parts for each lift are provided by part number, and lift model. Consult as built drawings in this manual for references.
- 2) All key parts are identified and must be replaced with original equipment components.

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- 3) Warranties will be voided where original equipment components are not used.
- 4) When ordering the replacement parts be sure to include the serial number and model number of the lift you are requesting replacement parts for.
- 5) Contact your nearest distributor or the factory for all your replacement parts requirements.

QUALITY CONTROL

Your Titan Worldwide equipment has been inspected prior to testing to ensure each of the components, the installation of said components, including all welding procedures, electrical, and hydraulics meet or exceed all Canadian and ANSI standards.

Welding: Approved
Electrical: Approved
Hydraulics: Approved
Painting: Approved

This unit has been tested

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TERMS AND CONDITIONS

1. Parties. Titan Worldwide, will be referred to as " Seller" and the person or company purchasing as indicted on the front hereof will be referred to as " Buyer" . All materials, goods, or work described on the front hereof, regardless of type, will be referred to as " Products" .

2. Price Adjustments; Payment. The prices stated herein do not include any sales, use or other taxes unless so stated specifically. Such taxes will be added to invoice prices in those instances in which Seller is required to collect them from Buyer; provided, however, that if Seller does not collect any such taxes and is later asked by or required to pay such to any taxing authority, Buyer will make such payment to seller or, if requested by Seller, directly to such taxing authority. At Seller's option, prices may be adjusted to reflect any increase in the costs of Seller resulting from state, federal or local legislation, or any charge in the rate charge of classification or any carrier.

Unless otherwise specified by Seller, all prices are F.O.B Seller's factory or warehouse from which shipment is made and payment will be net/cash 30 days from date of invoice. Invoices unpaid and past due will be subject to a service charge on the unpaid balance at an interest rate equal to the lesser of eighteen percent (18%) per annum or the maximum allowable interest rate under applicable law, and Buyer shall be responsible and liable for all expenses incurred by Seller in collection, including reasonable attorney's fees.

3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages of any kind resulting from any delay. Regardless of the manner of shipment, title to any Products and risk of loss or damage thereto shall pass to Buyer upon tender to the carrier at the factory or warehouse of Seller, except its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyer's request beyond the respective dates indicated will be made except on terms that will indemnify Seller against all loss and additional expense, including, but not limited to demurrage, handling, storage and insurance charges.

4. Warranty. Seller warrants its Products to be free from defects in material and workmanship under normal and proper use in accordance with instructions of Seller for a period of one year from the date of shipment to Buyer. Seller's liability under such warranty or in connection with any other claim relating to the Products shall be limited to the repair, or at Seller's option, the replacement or refund of the purchase price, of any Products or parts or components thereof which are returned to Seller freight prepaid and which are defective in material or workmanship. Products or parts or components thereof which are repaired or replaced by Seller will be returned to Buyer freight collect.

This warranty is not intended to cover consumer products, as defined in the Magnuson-Moss Warranty Federal Trade Commission Improvement Act, 15 U.S.C Sections 2301 - 12, which are purchased by Buyer for purposes other than resale. If Buyer is not intending to resell the Products, and if the Products are consumer products as defined in the Magnuson-Moss Act, the foregoing warranty, but not the limitation of Seller's liability, shall be null and void.

EXCEPT AS EXPRESSLY STATED ABOVE, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR USE OR OTHERWISE, ON THE PRODUCTS, OR ON ANY PARTS OR LABOR FURNISHED DURING THE SALE, DELIVERY OR SERVICING OF THE PRODUCTS.

Titan Worldwide is not to be held responsible for conditions and expenses resulting from the unauthorized modifications to or use of unauthorized accessories to this system. Warranty does not extend to cover damage of failure of the components found to be a result of unauthorized modifications or use of unauthorized accessories. Consult the factory before modifying any lift or jack component.

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortage will be allowed unless such shortages are reported to Seller within 10 days after delivery. No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case of an alleged breach of warranty, within 60 days after the date within the warranty period on which the defect is or should have been discovered by Buyer.

Any lawsuit or other action based upon breach of this contract or upon any other claim arising out of this sale (other than an action by Seller for any amount due to Seller by Buyer) must be commenced within one year from the date of the tender of delivery by Seller or, in the case of action based upon an alleged breach of warranty, within one year from the date within the warranty on which the defect is or should have discovered by Buyer.

6. LIMITATION OF LIABILITY. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE DELIVERY, NON-DELIVERY, SERVICING USE OR LOSS OF THE USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN THOUGH SELLER HAS BEEN NEGLIGENT. IN THE EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

7. Contingencies. Seller shall not be liable for any default or delay in performance if caused, directly or indirectly, by acts of God; war; force of arms; fire; the elements; riot; labour disputes; picketing or regulation; delay in transportation facilities; shortage or breakdown of or inability to obtain or non-arrival of any labour, material or equipment used in the manufacture on the Products; failure of any party to perform any contract with Seller relative to the production of the Products; or from any cause whatsoever beyond Seller's control, whether or not such cause be similar to those enumerated. Seller shall promptly notify Buyer of the happening of any such contingency and of the contemplated effect thereof on the manufacture and delivery of the Products.

8. Loss of Buyer's Property: Patent, Trademark, or Copyright Infringement, Etc. Seller shall not be liable for, and shall have no duty to provide insurance against, any damage or loss to any goods or materials of Buyer which are used by Seller in connection with this order. Where any Product is manufactured from patterns, plans, drawings, or specifications furnished by Buyer. Buyer shall indemnify Seller against and save Seller harmless from all loss, damage, and expense arising out of any suit or claim against Seller for infringement of any patent, trademark, or copyright because of Seller's manufacture of such Product or because of the use or sale of such Product by any person. Upon Seller's request Buyer shall appear in and assume the defence of the litigation.

9. Seller's Specifications, Technical Data, Etc. Any specifications, drawings, plans, notes, instructions, engineering notices or technical data of Seller furnished to Buyer shall be deemed to be incorporated herein by reference the same as if fully set forth. Seller shall at all times retain title to all such documents, and Buyer shall not disclose such to any party other than Seller or a party duly authorized by Seller. Upon Seller's request Buyer shall promptly return to Seller all such documents and copies thereof.

10. Buyer's Obligation: Rights of Seller. If Seller shall at any time doubt Buyer's financial responsibility, Seller may demand adequate assurance of the due performance or decline to make any further shipments except upon receipt of cash payment in advance or security. If Seller demands adequate assurance of due performance and the same is not forthcoming within 10 days after the date of Seller's demand, Seller may, at its option, (i) continue to defer further shipments within 10 days of this order and/or any other order from Buyer which until adequate assurance is received, or (ii) cancel this order and/or any other order from Buyer which have been accepted by Seller and recover damages. If Buyer fails in any way to fulfill the terms and conditions on the front or back hereof, Seller may defer further shipments until such default is corrected or cancel this order and recover damages. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owing to Seller by Buyer.

11. Cancellations. After acceptance by Seller's, orders shall not be subject to cancellation by Buyer except with Seller's consent and upon terms that will indemnify Seller against all direct, incidental and consequential loss or damage.

12. Limitation on Assignment. Neither party may assign any of its rights or obligations hereunder without the prior written consent of the other except that Seller shall have the right to assign to any company with which it is affiliated or to any corporation into which it shall be merged, with which it shall be consolidated, or by which it, or all or substantially all of assets, shall be acquired.

13. FLSA, OSHA Compliance. Seller certifies that any Products which are manufactured by Seller will be produced in compliance with all applicable requirements of Section 12 of the Fair Labour Standards Act, as amended, of Sections 204(c), (d), 301-305, 401-403 and 501 of the Fair Labour Standards Act Amendments of 1966 and of regulations and orders of the United States Department of Labour issued under Section 501 thereof, and of Section 5 (a) of the Occupational Safety and Health Act of 1970, as applicable to the manufacture of such Products.

14. Equal Opportunity Clause. This clause applies only in the event that the Products are to be used in whole or in part for the performance of government contracts and where the dollar value of said Products exceeds, or may in any one year exceed, 10,000:

"in connection with the performance of work under this contract the contractor (subcontractor) agrees not to discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The aforesaid provision shall include, but not be limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor (subcontractor) agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this non-discrimination clause.

"The provisions of the Equal Opportunity Clause, as promulgated by Executive Order 11246 dated September 24, 1965, as amended, are incorporated herein by reference."

15. Other Rights or Remedies. Except as otherwise provided herein, any rights or remedies granted hereunder to either party shall be in addition to, and not in lieu of, any other rights or remedies of such party at law or in equity.

16. Entire Agreement. This document contains the entire agreement between Seller and Buyer and constitutes the final, complete and exclusive expression of the terms of the agreement, all prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter hereof being merged herein. By way of illustration and not limitation, Buyer's order shall be deemed to incorporate, without exception, all the terms and conditions hereof notwithstanding any order form of Buyer containing additional or contrary terms or conditions, unless Buyer shall have expressly advised Seller to the contrary in a writing apart from such order form, and no acknowledgment by Seller of, or any such additional or contrary terms or conditions. In the event of a written request by Buyer for additional or contrary terms or conditions, then, such modifications may only be made in these terms and conditions by a written instrument signed by one of Seller's officers.

17. Severability. In the event that any provision hereof shall violate any applicable statute, ordinance, or rule of law, such provision shall be ineffective to the extent of such violation without invalidating any other provision hereof.

18. Quotations. Quotations furnished by Seller are not intended as and shall not be construed as constituting an offer to Buyer. Any quotation of Seller is subject to, and shall not become binding upon Seller until (i) actual receipt by Seller of Buyer's written order based on all the terms and conditions stated herein, without qualification, within 30 days after the date hereof, and (ii) Seller's written acceptance of such order at its main office in Thunder Bay, Ontario.