

# OPERATOR'S MANUAL

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## XPS-22 SERIES ELECTRIC MANUAL STACKER



ACTUAL PRODUCT MAY NOT  
APPEAR EXACTLY AS SHOWN

### **WARNING**

**Do not operate and / or service this product unless you have read and fully understood the entire contents of this manual. Failure to do so may result in property damage, bodily injury or death.**

***BLUE GIANT***<sup>®</sup>

ISSUE DATE: JULY 13, 2016 REV.1 (PART # 038-1010E)

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**DEALER INFORMATION**

**Name:**

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**Contact:**

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**Telephone:**

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## 1.0 RECEIPT INSPECTION

This equipment was thoroughly inspected and tested prior to leaving the factory. Before placing the equipment in service it should be thoroughly checked for damage or loss occurring in transit. If any such damage or loss is evident, a claim must be made against the carrier.

Refer to: Damage in Transit information enclosed with the packing slip.

## 2.0 INTRODUCTION

The following is intended to be a quick reference to some of the important procedures to follow while using this stacker. It is not intended to cover, or suggest that it does cover, all procedures required to be followed to ensure safe operation. Operators should be aware of and abide by all workplace safety regulations that may apply to the operation of this stacker. These laws and regulations include but are not limited to:

- Occupational Safety and Health Act (USA)
- Occupational Safety and Health Acts for Individual States (USA)
- Canadian Material Handling Regulations

In addition to these regulations, industry standards such as the American National Standards Institute (ANSI) "ASME B56.10 Safety Standard for Manually Propelled High Lift Industrial Trucks" apply to this equipment. To obtain a copy of this standard, contact the Sales Department:

American National Standards Institute (ANSI)  
1430 Broadway  
New York, NY 10018  
Telephone: 212.642.4900  
[www.ansi.org](http://www.ansi.org)

## 3.0 SAFETY SIGNS AND SAFETY MESSAGES

Improper operation can cause accidents. Don't take chances with incorrect or damaged equipment. Read and understand the procedures for safe operation and maintenance outlined in this manual. Do not hesitate to ask for help. Stay alert! Follow safety rules, regulations, and procedures. Avoid accidents by recognizing dangerous procedures or situations before they occur. Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the equipment, death, or serious injury to you or other persons may result if these messages are not followed. If warning decals are damaged, they must be replaced. Contact your Distributor for replacements.

### 3.0 SAFETY SIGNS AND SAFETY MESSAGES CON'T.

|   |
|---|
|  <b>DANGER</b>                         |
| This message indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. |

|  |
|--|
|  <b>WARNING</b>                         |
| This message indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |

|   |
|---|
|  <b>CAUTION</b>                        |
| This message indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |

|   |
|---|
| <b>IMPORTANT</b>  |
| This message is used when special precautions should be taken to ensure a correct action or to avoid damage to or malfunction of the Dock Leveler or a component. |

### 3.1 SAFETY INSTRUCTIONS

1. Do not operate this truck unless you have been trained and authorized to do so.
2. Do not ride truck and do not carry passengers.
3. Do not operate this truck until you have checked its condition (refer to “Pre-Operation Inspection” section of this manual).
4. Report the need for truck repairs to your supervisor. Do not operate truck. Neglect may cause a minor repair to become a major service problem or cause truck to become unsafe.
5. This truck is intended for use on smooth level surfaces only. Do not use on ramps or grades, rough or broken floors.
6. Do not exceed the rated capacity of the vehicle as marked on the nameplate. Do not lift with the fork tips or one fork only. Be sure load is centered on forks (along the length and width of the load) and the load center (marked on name-plate) is not exceeded.
7. Do not handle unstable or loosely stacked loads. Use special care when handling long, high or wide loads to avoid tipping, loss of load or striking personnel or objects.
8. Always look in direction of travel. Keep a clear view and when load obstructs visibility, travel with load lowered.
9. Watch swing clearance when turning near walls, racks, pillars or other obstacles.
10. Observe applicable traffic regulations and yield right of way to pedestrians.
11. Before you leave the truck, fully lower forks to ground and set parking brake.

### 4.0 PRE-OPERATION INSPECTION

|   |
|---|
|  <b>DANGER</b> |
| Disconnect battery before attempting removal of imbedded materials.                               |

Workplace safety regulations require that all trucks be inspected before each shift. Follow inspection point list to complete this check. If anything is found to be wrong with truck, then it must be taken out of operation. Do not use a truck which fails this inspection.

## 4.1 INSPECTION POINT LIST

|                                       |   |
|---------------------------------------|---|
| <p><b>SAFETY EQUIPMENT</b></p>        | <p><b>Load backrest (if equipped):</b> Is backrest in place, is there any damage which weakens it.<br/> <b>Warning decals:</b> Make sure all decals are in place and readable.<br/> <b>Master safety screen:</b> Is it in place and free of obvious damage.</p>   |
| <p><b>GENERAL OPERATION</b></p>       | <p><b>Parking brake:</b> Test brake for proper braking.<br/> <b>Lift / lower control:</b> Operate lift function to full lift height. Listen and watch for unusual sounds or jerky motions. Operate lower control until forks are fully lowered. Listen and watch for unusual sounds or jerky motions. Throughout inspection, look for signs of hydraulic fluid leaks.</p> |
| <p><b>FORKS AND FORK CARRIAGE</b></p> | <p><b>Forks:</b> Inspect for cracks, wear and alignment. Obvious damage fails inspection. Maximum allowable fork blade wear is 10% of fork back (vertical member of fork).<br/> <b>Fork carriage:</b> Carriage is part of truck to which forks attach. Inspect carriage for cracks, damage or wear.</p>   |
| <p><b>WHEELS</b></p>                  | <p>All tires must be inspected for cuts, breaks, signs of debonding (coming away from rim). Material imbedded in tires or axles must be removed (i.e. steel shavings, string, plastic wrap etc.)</p>  |

## 4.2 PRE-OPERATION INSTRUCTIONS

1. Open battery cover and check wiring harness and hydraulic hoses for damage or loose connections.
2. Open the battery compartment and check that all connections are tight. Check that batteries have not been damaged. Charge battery(s) for one shift. Refer to Battery Maintenance Instructions.
3. Refer to Safety and Operating Instructions and check that stacker operates satisfactorily.
4. Complete the Warranty Validation form included in this manual and return it to Blue Giant. Warranty may be void if warranty validation form is not completed and returned to Blue Giant.

**NOTE:** During initial cylinder assembly, hydraulic fluid is used to lubricate all components. This assembly fluid may be present, or accumulated in upper head nut portion of cylinder during break-in period or normal use. A small amount of fluid in this area is normal and should not be mistaken for cylinder seal leakage.

## 5.0 OWNER’S PURCHASE RECORD

| <b>OWNER’S PURCHASE RECORD</b><br>Please record information for future inquiries and to validate warranty. |                              |
|--|------------------------------|
| <b>Dealer:</b>   | <b>Date in Service:</b>      |
|  | <b>Number of Units:</b>      |
| <b>Owner’s Name:</b>   | <b>Order Number:</b>         |
| <b>Serial Number:</b>  | <b>Year of Construction:</b> |

## 6.0 EXCLUSION OF LIABILITY

The manufacturer assumes no liability for damage or injury to persons or property which has occurred as a result of defects or faults in the hand pallet trucks delivered or due to incorrect use. The manufacturer also assumes no liability for lost profits, operating down times, or similar indirect losses which the buyer has incurred. Damage to third parties, irrespective of its nature, is not subject to compensation.

The operating instructions are not subject to notification of amendment. The descriptions and illustrations included in our operating instructions and replacement parts list are not binding. In the interests of further development, we reserve the right to make any changes at any time to the modules, components and accessories which we deem to be expedient, or for technical reasons, while retaining the essential features of the models described here.

## 7.0 BATTERY AND CHARGER INFORMATION

 **CAUTION**

Do not operate stacker while the charge is plugged in. Failure to follow this instruction may result in damage to the stacker.

The care and maintenance of the battery is very important to efficient equipment operation and maximum battery life.

Battery electrolyte level should be checked before each charge of the battery. The level should be maintained at one-half inch above plates or just below the lower lip of the filler hole at all times. If low, add distilled water preferably at the end of the charge. Do not overfill.

Always keep vent plugs tightly in place when cleaning battery. When properly watered and charged, the battery will remain clean and dry. All that is necessary is to brush or blow off any dust or dirt which may accumulate on it.

However, if electrolyte has spilled it should be neutralized with a solution of baking soda and water. Then rinse the battery with cool water from a low pressure hose to remove the soda and water. If battery stays wet consistently, it may be an indication of overcharging or overfilling.

The equipment is supplied with a 110 volt/1/60 cycle AC charger that when plugged into a 110 volt outlet will automatically charge the battery to its proper level.

Do not operate stacker while the charge is plugged in. Failure to follow this instruction may result in damage to the stacker.

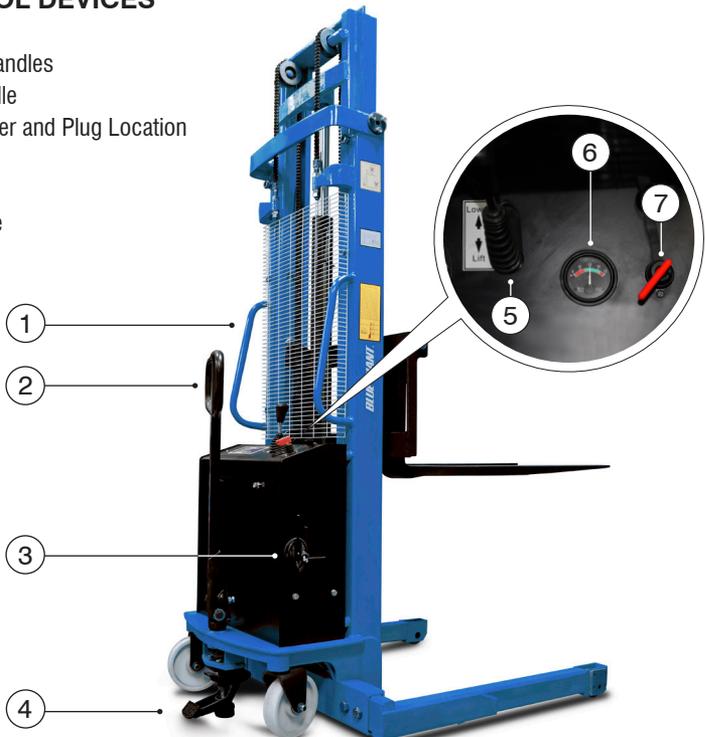
## 8.0 OPERATING INSTRUCTIONS

XPS Series Stackers (manually propelled, power lift). Refer to the photograph and instructions below to control the stacker.

|                     |  |
|---------------------|--|
| <b>TRAVEL</b>       | Securely grasp steering handles with both hands and push or pull stacker to move or position. If stacker is equipped with an optional steering handle, move and steer stacker by pushing or pulling on handle. Be sure to keep feet clear of machine at all times. |
| <b>LIFT / LOWER</b> | To raise forks, pull back on control lever. To lower forks, push forward on control lever.   |
| <b>PARKING</b>      | To engage parking brake, push down on brake actuator until lever locks in lower most position. To release brake, pull up on brake actuator.  |

## 8.1 CONTROL DEVICES

1. Positioning Handles
2. Steering Handle
3. Battery Charger and Plug Location
4. Foot Brake
5. Lift / Lower
6. Battery Gauge
7. On / Off Key



## 9.0 STRADDLE ADJUSTMENT

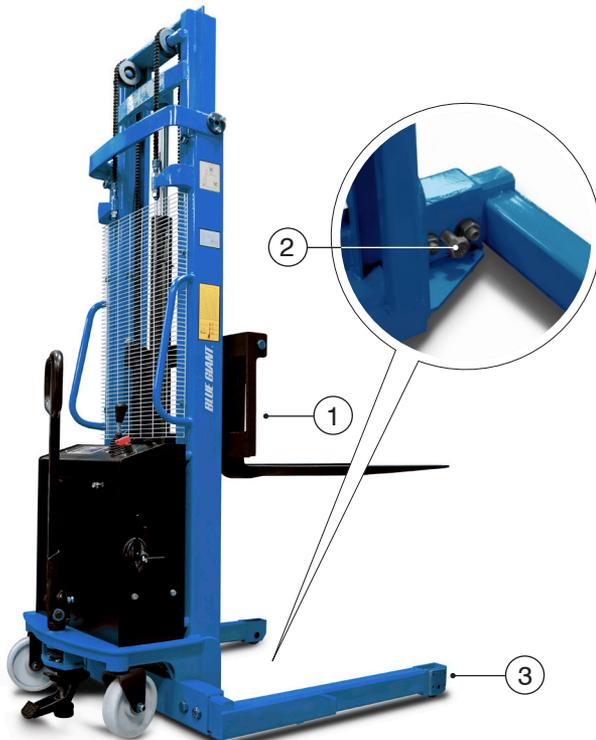
To adjust the straddles on the stacker, remove the weight of the machine from the straddles by lifting / jacking under the straddle tube. Heat the four set screws to remove any “Loctite” that was applied during assembly. Turn set screws counterclockwise to loosen tension from the straddles. Slide straddles to desired setting. Apply small amount of “Loctite” #271 to set screws and tighten. Remove lifting / jacking device.

### WARNING

The spread between the straddle legs must not be:

- Less than 25% of the stackers maximum lift
- More than 50" (1270mm)

1. Adjustable Forks
2. Set Screws
3. Adjustable Straddle



## 10.0 PLANNED MAINTENANCE PROGRAM

Planned Maintenance is a Program in which inspection, minor adjustments and lubrication are performed on a schedule and systematic basis. A solid PMP program should incorporate a method of record keeping which enables you to better determine PMP schedules and enables you to track the maintenance cost per machine.

An effective PMP program should incorporate two procedures:

1. A pre-operation check by the driver or maintenance personnel at the beginning of each shift.
2. A planned maintenance routine based on operating hours, with the interval being determined by operating conditions.

Records will tell you how often PMP should be done. If an operation is clean and / or involves low operating time per day, a PMP interval can be extended. If an operation is extremely dirty and / or involves high operating time per day, the PMP interval may have to be reduced. Thus the PMP interval can be tailored to answer the needs of the operation.

If the PMP is religiously followed, needs for repair, major adjustment and component replacement will be discovered automatically and such work will be done as needed.

The PMP Objective:

1. To reduce costly unscheduled downtime.
2. Reduce maintenance costs.
3. Increase equipment productivity.
4. Above all, to increase personal safety of operators and other personnel.

Inspection intervals outlined are for normal conditions. More frequent inspections are necessary for adverse conditions such as: temperature extremes, several operators, dusty atmosphere, etc.

## 10.1 INSPECTION INTERVALS

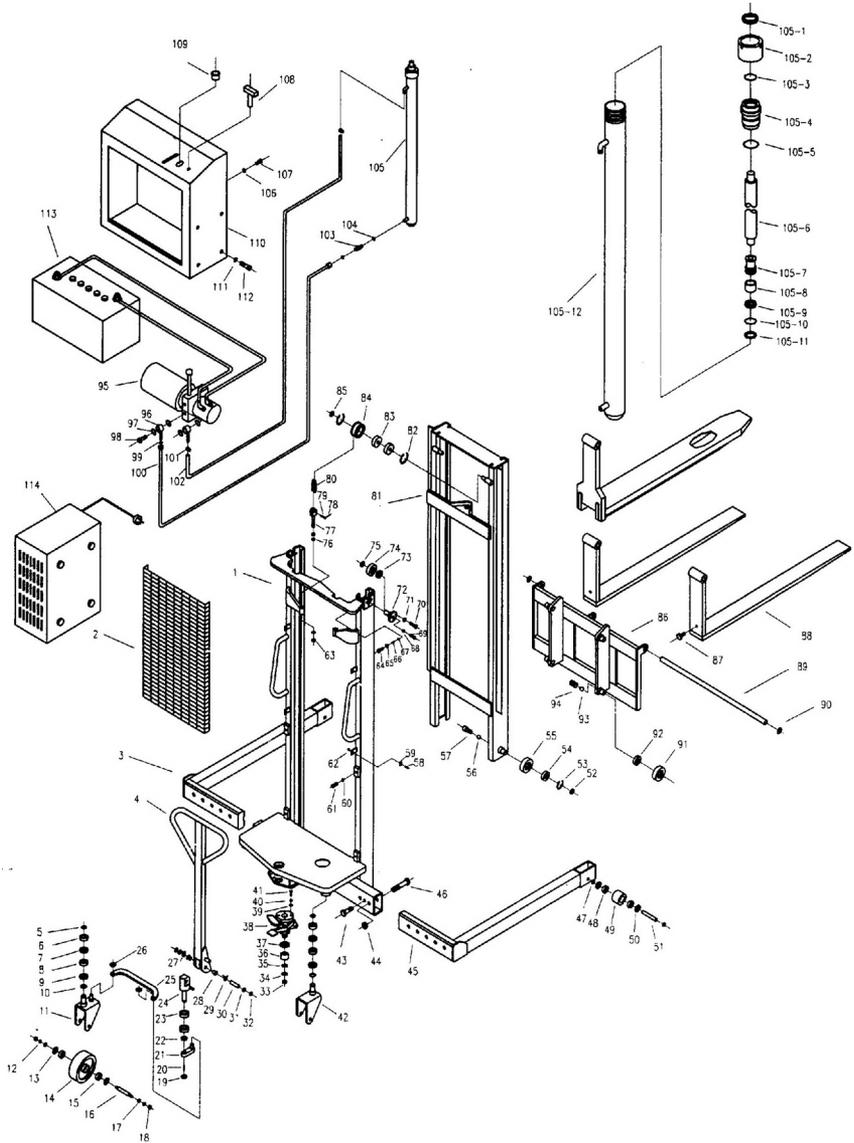


### WARNING

Disconnect the battery before attempting inspection or service.

|   |   |
|---|---|
| <p><b>DAILY</b></p>   | <ul style="list-style-type: none"> <li>• Operating Controls</li> <li>• Battery</li> </ul>   |
| <p><b>QUARTERLY</b></p>   | <ul style="list-style-type: none"> <li>• Electrical Systems</li> <li>• Hydraulic Systems</li> <li>• Mechanical Parts</li> </ul>   |
| <p><b>LUBRICATION</b><br/>(based on single shift, normal usage)</p> | <p><b>Every Month:</b><br/>Apply engine oil (SAE 10) to all pivot points including the lifting chains. Lubricate the mast channels with a good quality grease (Valvoline #614 or equivalent).</p> <p><b>Every 6 Months:</b><br/>Check oil level in the hydraulic power pack. Remove breather cap and add approved oil until oil is level with bottom of filler hole (be sure lift is in the fully lowered position). Clean and reinstall the breather cap.</p> <p>The hydraulic oil should be changed after the truck has been in service for three months then every six months thereafter. Remove reservoir, discard used oil and clean reservoir. Clean and inspect the strainer on the fluid pick up tube. Reinstall reservoir and add oil until oil is level with bottom of filter hose (be sure the lift is in the fully lowered position). Use only good quality hydraulic oil with a viscosity equivalent to SAE 10 or SAE 20 hydraulic oils.</p> <p><b>Approved Oils:</b><br/>Esso Polar 32; Shell Tellus 29; Gulf Harmony 48AW or Dextron II transmission fluid or equal.</p> |

11.0 ASSEMBLY DRAWING



## 11.1 PARTS LIST

| DRAWING REF NO. | PART NO.   | QTY | DESCRIPTION                    |
|-----------------|------------|-----|--------------------------------|
| 1               | 7001221001 | 1   | Frame                          |
| 2               | 7001221002 | 1   | Net Cover                      |
| 3               | 7001221003 | 1   | Left Leg                       |
| 4               | 7001221004 | 1   | Handle                         |
| 5               | 7001221005 | 2   | Snap Ring                      |
| 6               | 7001221006 | 2   | Bearing 6006-2Z                |
| 7               | 7001221007 | 2   | Spacing Bush                   |
| 8               | 7001221008 | 2   | Tapered Roller Bearing 32006X2 |
| 9               | 7001221009 | 2   | Push Cover                     |
| 10              | 7001221010 | 2   | Snap Ring                      |
| 11              | 7001221011 | 1   | Left Rear Wheel Rack           |
| 12              | 7001221012 | 2   | Washer                         |
| 13              | 7001221013 | 2   | Spacing Bush                   |
| 14              | 7001221014 | 2   | Steer Wheel                    |
| 15              | 7001221015 | 4   | Bearing 6204-2Z                |
| 16              | 7001221016 | 2   | Axle Pin                       |
| 17              | 7001221017 | 2   | Washer                         |
| 18              | 7001221018 | 2   | Nut                            |
| 19              | 7001221019 | 1   | Snap Ring                      |
| 20              | 7001221020 | 1   | Pin                            |
| 21              | 7001221021 | 1   | Crank Unit                     |
| 22              | 7001221022 | 1   | Spacing Bush                   |
| 23              | 7001221023 | 2   | Bearing 6205-2Z                |
| 24              | 7001221024 | 1   | Steering Axle                  |
| 25              | 7001221025 | 1   | Connecting Lever               |
| 26              | 7001221026 | 2   | Snap Ring                      |
| 27              | 7001221027 | 1   | Left Torsional Spring          |

**11.1 PARTS LIST CON'T.**

| DRAWING REF NO. | PART NO.   | QTY | DESCRIPTION            |
|-----------------|------------|-----|------------------------|
| 28              | 7001221028 | 2   | Oil Less Bearing       |
| 29              | 7001221029 | 1   | Right Torsional Spring |
| 30              | 7001221030 | 1   | Axle Pin               |
| 31              | 7001221031 | 2   | Washer                 |
| 32              | 7001221032 | 2   | Snap Ring              |
| 33              | 7001221033 | 1   | Nut                    |
| 34              | 7001221034 | 1   | Spring Washer          |
| 35              | 7001221035 | 1   | Plane Washer           |
| 36              | 7001221036 | 1   | Rubber Pad             |
| 37              | 7001221037 | 1   | Push Cover             |
| 38              | 7001221038 | 1   | Stopper                |
| 39              | 7001221039 | 4   | Plane Washer           |
| 40              | 7001221040 | 4   | Spring Washer          |
| 41              | 7001221041 | 4   | Bolt                   |
| 42              | 7001221042 | 1   | Right Rear Wheel Rack  |
| 43              | 7001221043 | 2   | Bolt                   |
| 44              | 7001221044 | 2   | Nut                    |
| 45              | 7001221045 | 1   | Right Leg              |
| 46              | 7001221046 | 4   | Bolt                   |
| 47              | 7001221047 | 4   | Snap Ring              |
| 48              | 7001221048 | 4   | Bearing 6204-2Z        |
| 49              | 7001221049 | 2   | Load Wheel             |
| 50              | 7001221050 | 4   | Spacing Bush           |
| 51              | 7001221051 | 2   | Axle Pin               |
| 52              | 7001221052 | 2   | Snap Ring              |
| 53              | 7001221053 | 2   | Snap Ring              |
| 54              | 7001221054 | 2   | Bearing 6206           |

**11.1 PARTS LIST CON'T.**

| DRAWING REF NO. | PART NO.   | QTY | DESCRIPTION  |
|-----------------|------------|-----|--------------|
| 55              | 7001221055 | 2   | Roller       |
| 56              | 7001221056 | 2   | Steel Bead   |
| 57              | 7001221057 | 4   | Bolt         |
| 58              | 7001221058 | 4   | Bolt         |
| 59              | 7001221059 | 4   | Flat         |
| 60              | 7001221060 | 4   | Washer       |
| 61              | 7001221061 | 4   | Bolt         |
| 62              | 7001221062 | 4   | Nut          |
| 63              | 7001221063 | 2   | Nut          |
| 64              | 7001221064 | 2   | Bolt         |
| 65              | 7001221065 | 2   | Nut          |
| 66              | 7001221066 | 2   | Spring       |
| 67              | 7001221067 | 2   | Steel Bead   |
| 68              | 7001221068 | 2   | Steel Bead   |
| 69              | 7001221069 | 4   | Bolt         |
| 70              | 7001221070 | 6   | Bolt         |
| 71              | 7001221071 | 6   | Washer       |
| 72              | 7001221072 | 2   | Bearing Seat |
| 73              | 7001221073 | 2   | Bearing      |
| 74              | 7001221074 | 2   | Roller       |
| 75              | 7001221075 | 2   | Snap Ring    |
| 76              | 7001221076 | 2   | Nut          |
| 77              | 7001221077 | 2   | Chain Joint  |
| 78              | 7001221078 | 2   | Split Cotter |
| 79              | 7001221079 | 2   | Chain Pin    |
| 80              | 7001221080 | 2   | Chain        |
| 81              | 7001221081 | 1   | Inner Mast   |

**11.1 PARTS LIST CON’T.**

| DRAWING REF NO. | PART NO.    | QTY | DESCRIPTION             |
|-----------------|-------------|-----|-------------------------|
| 82              | 7001221082  | 4   | Snap Ring               |
| 83              | 7001221083  | 4   | Bearing 6205            |
| 84              | 7001221084  | 2   | Carrier Wheel           |
| 85              | 7001221085  | 2   | Snap Ring               |
| 86              | 7001221086  | 1   | Fork Arm Carrier        |
| 87              | 7001221087  | 2   | Adjustable Bolt         |
| 88              | 7001221088  | 2   | Fork Arm                |
| 89              | 7001221089  | 1   | Pilot                   |
| 90              | 7001221090  | 2   | Snap Ring               |
| 91              | 7001221091  | 4   | Roller                  |
| 92              | 7001221092  | 4   | Bearing 6206            |
| 93              | 7001221093  | 4   | Steel Bead              |
| 94              | 7001221094  | 4   | Bolt                    |
| 95              | 7001221095  | 1   | Motor Pump              |
| 96              | 7001221096  | 1   | Adjustable Pipe Fitting |
| 97              | 7001221097  | 4   | Composite Washer        |
| 98              | 7001221098  | 2   | Link Bolt               |
| 99              | 7001221099  | 1   | O-Ring                  |
| 100             | 7001221100  | 1   | Input Oil Pipe          |
| 101             | 7001221101  | 2   | Clamp                   |
| 102             | 7001221102  | 1   | Output Oil Pipe         |
| 103             | 7001221103  | 1   | Connector               |
| 104             | 7001221104  | 1   | Composite Washer        |
| 105             | 7001221105  | 1   | Cylinder                |
| 105-1           | 70012211051 | 1   | Dust Seal Ring          |
| 105-2           | 70012211052 | 1   | Top Nut                 |
| 105-3           | 70012211053 | 1   | O-Ring                  |

**11.1 PARTS LIST CON'T.**

| <b>DRAWING REF NO.</b> | <b>PART NO.</b> | <b>QTY</b> | <b>DESCRIPTION</b>     |
|------------------------|-----------------|------------|------------------------|
| 105-4                  | 70012211054     | 1          | Gilding Bush           |
| 105-5                  | 70012211055     | 1          | O-Ring                 |
| 105-6                  | 70012211056     | 1          | Piston Rod             |
| 105-7                  | 70012211057     | 1          | Piston                 |
| 105-8                  | 70012211058     | 1          | Supporting Ring        |
| 105-9                  | 70012211059     | 1          | Yx Seal Ring           |
| 105-10                 | 70012211060     | 1          | O-Ring                 |
| 105-11                 | 70012211061     | 1          | Snap Ring              |
| 105-12                 | 70012211062     | 1          | Cylinder Body          |
| 106                    | 7001221106      | 2          | Washer                 |
| 107                    | 7001221107      | 2          | Bolt                   |
| 108                    | 7001221108      | 1          | Key To Electric Switch |
| 109                    | 7001221109      | 1          | Volt Meter             |
| 110                    | 7001221110      | 1          | Electrical Box         |
| 111                    | 7001221111      | 4          | Nut                    |
| 112                    | 7001221112      | 4          | Bolt                   |
| 113                    | 7001221113      | 1          | Battery                |
| 114                    | 7001221114      | 1          | Charger                |



## 12.1 TO ORDER PARTS

For prompt service when ordering parts, please provide the following information to your local distributor.

1. Model and serial number of the vehicle
2. Part number, description and quantity
3. Shipping instructions

When in doubt as to part required, provide a sketch or the used part as a sample.

### Record Here For Future Reference:

---

Date into Service:

---

Model Number:

---

Serial Number:

---

Distributor:

---

### FOR SPARE PARTS CONTACT BLUE GIANT

TEL: 1.800.USA.BLUE / 905.457.3900

FAX: 1.888.378.5781 / 905.450.6555

**BLUE GIANT**<sup>®</sup>  
BLUE GIANT EQUIPMENT CORPORATION

**Corporate** 85 Heart Lake Road South  
Brampton, ON, Canada L6W 3K2  
t 905.457.3900 f 905.457.2313

**USA** 6350 Burnt Poplar Road  
Greensboro, NC 27409  
[www.BlueGiant.com](http://www.BlueGiant.com)

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