

OPERATOR'S MANUAL

EPT-55 HAND PALLET TRUCK



ACTUAL PRODUCT MAY NOT APPEAR EXACTLY AS SHOWN



WARNING

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

BLUE GIANT[®]

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TABLE OF CONTENTS

| | | |
|------|--|----|
| 1.0 | SAFETY PROCEDURES | 3 |
| 2.0 | EXCLUSION OF LIABILITY | 3 |
| 3.0 | OWNER'S PURCHASE RECORD | 4 |
| 4.0 | WARRANTY | 4 |
| 5.0 | CHECK SHIPMENT BEFORE ASSEMBLY AND/OR USE | 5 |
| 5.1 | LOADING SPECIFICATION | 5 |
| 5.2 | MAXIMUM INCLINES OR DECLINE GRADES | 5 |
| 5.3 | SAFETY WITH TALL LOADS | 5 |
| 6.0 | EPT-55 HAND PALLET TRUCK SPECIFICATIONS | 6 |
| 7.0 | ASSEMBLY INSTRUCTIONS | 7 |
| 7.1 | BEFORE USE | 7 |
| 8.0 | OPERATING INSTRUCTIONS | 8 |
| 9.0 | SERVICE CHECKLIST | 9 |
| 10.0 | TROUBLESHOOTING GUIDE | 10 |
| 11.0 | HANDLE AND PUMP ASSEMBLY DRAWING | 11 |
| 11.1 | HANDLE AND PUMP ASSEMBLY PARTS LIST | 12 |
| 11.2 | FRAME ASSEMBLY DRAWING | 14 |
| 11.3 | FRAME ASSEMBLY PARTS LIST | 15 |

DEALER INFORMATION

Name:

Contact:

Telephone:

1.0 SAFETY PROCEDURES

1. Do not operate this truck unless you have been trained and authorized to do so.
2. Do not operate this truck until you have read and understood all of the safety information and instructions contained herein and on the truck.
3. Do not operate this truck until you have checked its condition. Give special attention to wheels, controls and lifting systems, including steering mechanism, guards and safety devices.
4. Report the need for truck repairs to your supervisor immediately and do not operate truck until repairs are made. Neglect may cause a minor repair to become a major service problem and cause the truck to become unsafe.
5. Do not load truck beyond capacity shown on serial name plate on truck.
6. Do not lift with the fork tips or one fork only.
7. This equipment is designed for evenly centered loads with forks completely supporting the load. Off-centering of loads can result in a dangerous operating condition and may cause damage or injury.
8. Always look in direction of travel. Use caution when visibility is obstructed by load.
9. Extreme caution must be used when handling loosely stacked/packaged loads.
10. Watch swing clearance when turning near walls, racks, pillars or other obstacles.
11. Start, stop, change direction and travel smoothly. Slow down for turns and on uneven or slippery surfaces that cause truck to slide or tip. Be aware that the truck behaves differently without a load than with a load.
12. Observe applicable traffic regulations. Yield right of way to pedestrians.
13. Do not ride on this equipment.
14. Do not carry passengers or lift personnel.
15. Before you leave the truck, fully lower lifting mechanism.

2.0 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.

3.0 OWNER'S PURCHASE RECORD

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

4.0 WARRANTY

To validate warranty on recently purchased equipment, please complete and submit your information with our online Warranty Registration at www.bluegiant.com.

For more information about Blue Giant Warranty Support, please contact your local Blue Giant Equipment dealer, representative or authorized partner near you. You may also visit www.bluegiant.com or phone 1.905.457.3900.

* Note that failure to validate warranty at the time of receipt can seriously affect the outcome of any claim.

5.0 CHECK SHIPMENT BEFORE ASSEMBLY AND/OR USE

The hand pallet truck is to be carefully checked at the manufacturer's plant before shipment. In order to ensure that no damage has occurred during transport, the hand pallet truck should be checked upon receipt for transport damage and to ensure correct operation. Damage due to transport is to be listed on the signed copy on the freight document. The freight forwarder must be notified of any damage within 48 hours. Damaged hand pallet trucks must not be put into use.

5.1 LOADING SPECIFICATION

The hand pallet truck is designed for the horizontal transportation of loads on a level, fixed base. The load must be evenly distributed on pallets or similar receptacles. The ideal loading mode is that the gravity center of heavy goods is at the central position of the fork. The maximum load-carrying capacity is shown on the appropriate designation plate and on the load sticker on the hand pallet truck. When there exists deflective load, the rated carrying capacity shall be reduced. If the load on the forks is one sided, there is a risk of the forks bending or the load slipping off. Supporting or shifting the load with the fork tips is to be avoided in all cases as this results in damage to the appliance. In order to preserve the wheels and chassis the hand pallet truck must not be driven over very uneven ground.

5.2 MAXIMUM INCLINES OR DECLINE GRADES

The hand pallet truck is equipped with a permanently set pressure-limiting valve which permits a maximum load of 5 % of the nominal load. The screw plug on the pressure control valve is secured so as to avoid inappropriate manipulation from the operating personnel. In order to avoid damage to the goods being transported and the means of transport, the load must be supported evenly. If the load is unevenly distributed the pressure limiting valve will not function. When driving on down-grades the load is to be secured to prevent it from slipping or sliding off the hand pallet truck, (e.g. additional operating personnel). In addition to this, only hand pallet trucks with a service and parking brake are to be used on down-grades up to approx 6 %. Journeys on inclines or down-grades of more than 6 % are always to be avoided. Safe transport cannot be guaranteed when the center of gravity of the load has altered.

5.3 SAFETY WITH TALL LOADS

Transporting with tall loads, (e.g. machines) changes the center of gravity of the load so unfavorably that the complete hand pallet truck including the load, goes out of control and may overturn on a curve. Loading, (e.g. onto a truck or mobile loading ramps) should be regarded in particular as likely occasions for accidents. During such activities the hand pallet truck is to be secured with particular care. Conveying persons or using the hand pallet truck as a form of roller skate is not permissible. Foodstuffs are only to be transported in packed form. Direct contact with the hand pallet truck is to be avoided. The accident prevention regulations for industrial trucks and the safety regulations and accident prevention regulations applicable to the user are also to be complied with.

6.0 EPT-55 HAND PALLET TRUCK SPECIFICATIONS

The following data must always be specified to ensure correct processing of your spare parts order:

- A) Truck type (capacity)
- B) Serial number of the truck
- C) Complete Part Number

ASSEMBLY DRAWINGS:

Handle and Pump Assembly
Frame Assembly

WEIGHT:

160 lbs (72.575 kg)

CAPACITY:

5,500 lbs (2,300 kg)

FORK LENGTH:

48" (1,220 mm)

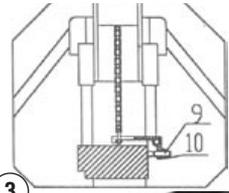
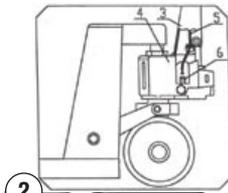
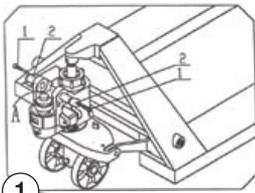
Please fill in **Owner's Purchase Record** (Section 3.0) with the following details:

- Serial Number(s)
- Dealer Name
- Date in-Service
- Owner's Name
- Order Number
- Year of Construction

7.0 ASSEMBLY INSTRUCTIONS

Individual trucks are assembled and ready to use. Pallet trucks purchased in crate quantities (6 units to a crate) require some assembly. **Tools Needed for Assembly:** 5 mm / 8 mm Allen Key

1. Remove screw (No. 1), before pulling axle pin (No. 2)
2. Insert handle (No. 3) at position (No. A) and connect handle (No. 3) to pump body (No. 4) insert axle pin (No. 2) then use Allen Key to fasten screw (No. 1) to attach axle pin (No. 2)
3. Put screw and nut at the end of roller chain (No. 5) into the slot of lever pad (No. 6)
4. Pull the handle to horizontal position, pull out pin (No. 7) and keep it stored for future handle replacement
5. The assembly is complete



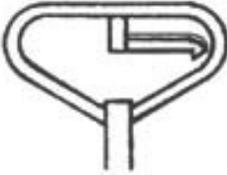
7.1 BEFORE USE

1. After finishing the assembly of the pallet truck, try to shake it and operate the unit in different positions using the hand lever, to see whether the lifting, neutral position and lowering the pallet truck operates properly.
2. The outer hexagonal nut (No. 10) at bolt location (No. 9) is used for locking, and must be loosened before any adjustment and must be tightened after adjustment. If the pallet truck is raised and the pallet truck immediately descends, turn screw bolt (No. 9) anti-clockwise a little at a time and test the pallet truck until normal lifting has occurred. If the pallet truck cannot be lowered after lifting, turn screw bolt (No. 9) clockwise a little at a time and test the pallet truck until normal lowering has occurred. After adjustments lock outer hexagonal nut (No. 10) at bolt location (No. 9) back into place.

8.0 OPERATING INSTRUCTIONS

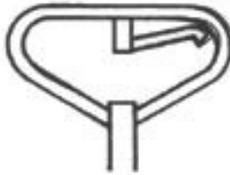
NOTES ON USE

There is a hand lever on the drawbar for raising and lowering the hand pallet truck. This can be moved into three positions:



**NEUTRAL
DRIVE POSITION**

Lever in neutral position
when moving load
(center position)



LOWER

Lever up, truck will lower at
selected rate of speed



LIFT

Lever down

To pull the hand pallet truck, always move the hand lever into the drive position. This makes the drawbar easier to move and depressurizes the pump section of the hydraulics. This preserves the hydraulic seals and the valve components. A longer service life can be expected.

The hand pallet truck is largely maintenance-free. Only the oil level has to be checked and topped up if necessary. All bearings and shafts are provided with long-life grease at the factory.

All lubrication points marked (→) in the “chassis” replacement parts list are to be provided with long-life grease at monthly intervals or after each time the truck is cleaned thoroughly.

NOTE: When the hand pallet truck is used under extreme conditions (e.g. extreme heat or cold, very dusty conditions etc.), the stipulated intervals are to be appropriately reduced.

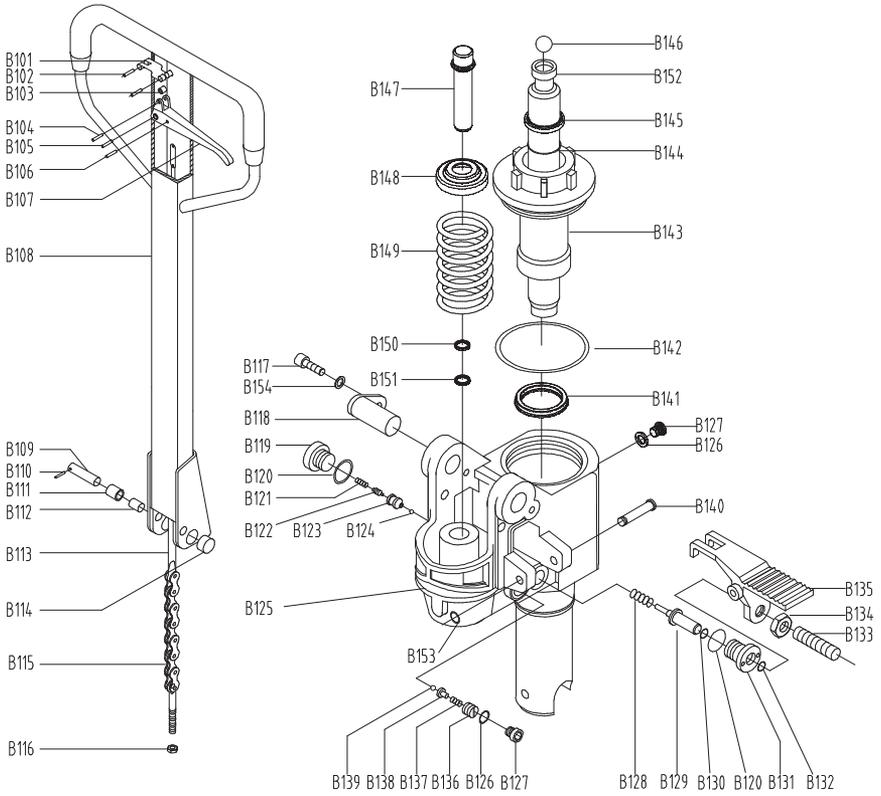
9.0 SERVICE CHECKLIST

| | |
|----------------------------------|--|
| OPERATION | <ul style="list-style-type: none">• With control lever in lift position, pump the handle a few strokes to lift load• Move control lever to neutral position to free handle of all pumping force• To lower load, pull the lever until the load starts lowering or the selected lowering speed has been reached |
| CHECKING OIL LEVEL | <ul style="list-style-type: none">• With the truck in the lowered position on a level surface, remove filter screw, oil should be level with filler screw hole, if not add the proper oil. Check filler screw seal before replacing |
| RECOMMENDED HYDRAULIC OIL | <ul style="list-style-type: none">• The hydraulic oil required for the hydraulic pump is roughly 0.5 pints (250 ml). The ISO oil quality standard is used. When the ambient temperature is -5° to 40°C, #32 oil is used; and when the ambient temperature is -35° to -5°C, the low temperature hydraulic oil is to be used |
| MAINTENANCE | <ul style="list-style-type: none">• Conduct routine inspection everyday to eliminate future problems from occurring• Do not use pallet trucks that are not working properly• Add motor oil to each rotating joint once every three months |

10.0 TROUBLESHOOTING GUIDE

| CONDITION | CAUSE | | ACTION | |
|--|----------|---|----------|--|
| Insufficient lifting | A | Shortage of oil | A | Add appropriate filtered working oil |
| | B | Air in pump | B | Set operation lever to lowering position and pump handle repeatedly |
| Pallet truck does not completely lower | A | Too much hydraulic oil has been added | A | Pump off appropriate amount of hydraulic oil |
| | B | Rotating part is distorted and gets stuck | B | Replace parts |
| Pallet truck does not lower after lifting | A | The lowering device is abnormal | A | Re-adjust the lowering device See <i>Before Use</i> (Section 7.1) |
| | B | Components are distorted and damaged | B | Replace required parts |
| Hydraulic oil leaks | A | The seal is damaged | A | Replace the seal |
| | B | There is a slight breakage or abrasion on the surface of the individual parts | B | Replace the damaged parts |
| | C | Loose joint | C | Tighten the loose joint |
| Pallet truck does not lift | A | Viscosity of hydraulic oil is too high or hydraulic oil level is too low | A | Replace the hydraulic oil |
| | B | Hydraulic oil is dirty | B | Replace the hydraulic oil |
| | C | The lowering device is abnormal | C | Re-adjust the lowering device. See <i>Before Use</i> (Section 7.1) |
| Pallet truck lifts then immediately descends when handle is pumped The handle has large resistance or the pallet truck automatically descends after lifting | A | The valve is stuck | A | Open the valve, take it out and clean the valve and parts Re-install the valve and parts to their original position |

11.0 HANDLE AND PUMP ASSEMBLY DRAWING



Enlarged for clarity.

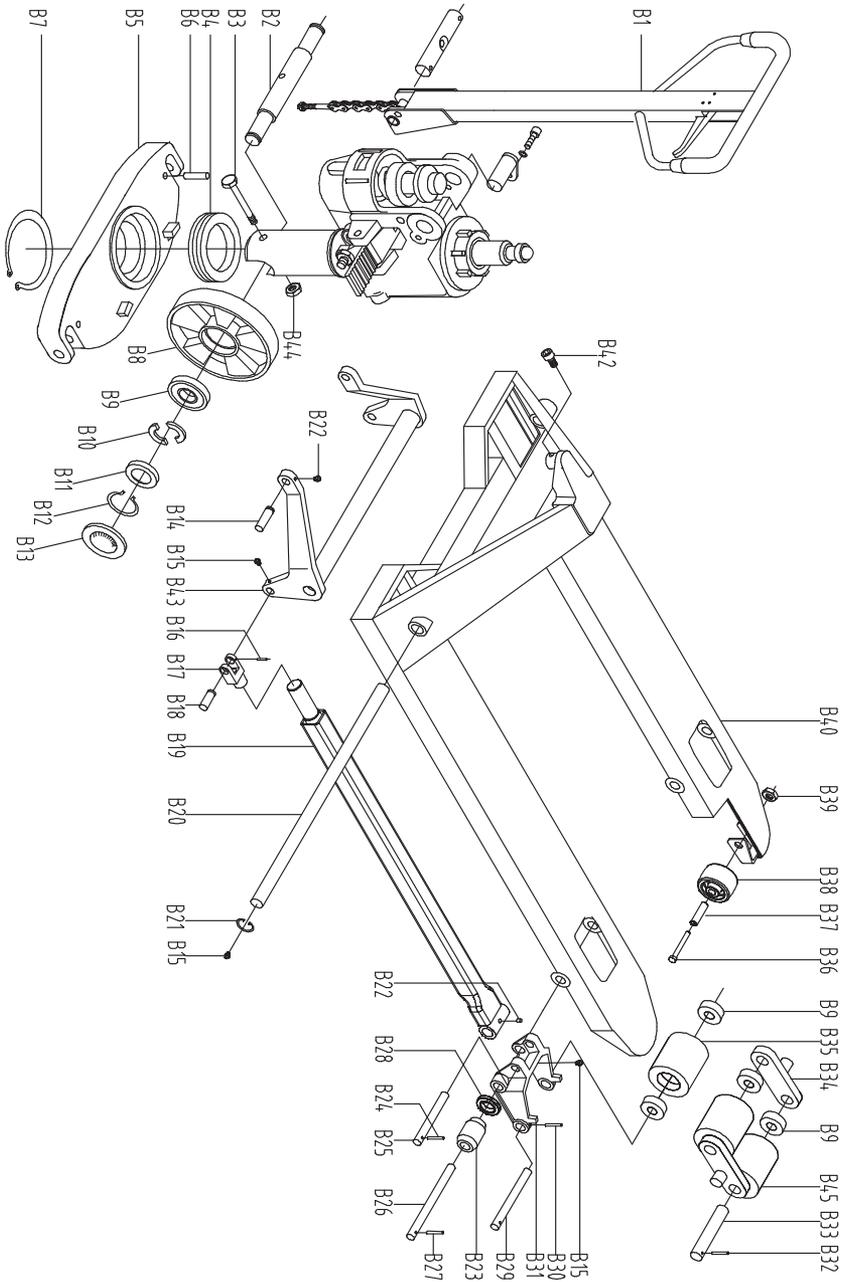
11.1 HANDLE AND PUMP ASSEMBLY PARTS LIST

| DRAWING REF NO. | PART NO. | QTY | DESCRIPTION |
|-----------------|-----------|-----|--------------------------|
| B101 | 080-7E101 | 1 | Blade Spring |
| B102 | 080-7E102 | 2 | Spring Pin |
| B103 | 080-7E103 | 1 | Roller |
| B104 | 080-7E104 | 1 | Spring Pin |
| B105 | 080-7E105 | 1 | Spring Pin |
| B106 | 080-7E106 | 1 | Spring Pin |
| B107 | 080-7E107 | 1 | Handle |
| B108 | 080-7E108 | 1 | Handle Tube |
| B109 | 080-7E109 | 1 | Shaft |
| B110 | 080-7E110 | 1 | Spring Pin |
| B111 | 080-7E111 | 1 | Pressure Roller |
| B112 | 080-7E112 | 2 | Bush |
| B113 | 080-7E113 | 1 | Pull Pole |
| B114 | 080-7E114 | 2 | Bush |
| B115 | 080-7E115 | 1 | Chain |
| B116 | 080-7E116 | 1 | Nut |
| B117 | 080-7E117 | 2 | Bolt |
| B118 | 080-7E118 | 2 | Screw Plug |
| B119 | 080-7E119 | 1 | Plug |
| B120 | 080-7E120 | 2 | Copper Washer |
| B121 | 080-7E121 | 1 | Spring |
| B122 | 080-7E122 | 1 | Spindle of Damping Valve |
| B123 | 080-7E123 | 1 | Seat of Damping Valve |
| B124 | 080-7E124 | 1 | Steel Ball |
| B125 | 080-7E125 | 2 | Base |
| B126 | 080-7E126 | 2 | Copper Washer |
| B127 | 080-7E127 | 2 | Bolt |

11.1 HANDLE AND PUMP ASSEMBLY PARTS LIST CON'T.

| DRAWING REF NO. | PART NO. | QTY | DESCRIPTION |
|------------------------|-----------------|------------|-------------------------|
| B128 | 080-7E128 | 1 | Spring |
| B129 | 080-7E129 | 1 | Strike Pin |
| B130 | 080-7E130 | 1 | O-Ring |
| B131 | 080-7E131 | 1 | Axle Sleeve |
| B132 | 080-7E132 | 1 | O-Ring |
| B133 | 080-7E133 | 1 | Bolt |
| B134 | 080-7E134 | 1 | Nut |
| B135 | 080-7E135 | 1 | Lever Plate |
| B136 | 080-7E136 | 1 | Bolt |
| B137 | 080-7E137 | 1 | Spring |
| B138 | 080-7E138 | 1 | Ball Base |
| B139 | 080-7E139 | 1 | Steel Ball |
| B140 | 080-7E140 | 1 | Pin |
| B141 | 080-7E141 | 1 | Y-Ring |
| B142 | 080-7E142 | 1 | O-Ring |
| B143 | 080-7E143 | 1 | Cylinder Cap |
| B144 | 080-7E144 | 1 | O-Ring |
| B145 | 080-7E145 | 1 | Dust Ring |
| B146 | 080-7E146 | 1 | Steel Ball |
| B147 | 080-7E147 | 1 | Pump Plunger |
| B148 | 080-7E148 | 1 | Washer |
| B149 | 080-7E149 | 1 | Spring |
| B150 | 080-7E150 | 1 | Dust Ring |
| B151 | 080-7E151 | 1 | Y-Ring |
| B152 | 080-7E152 | 1 | Piston Rod |
| B153 | 080-7E153 | 1 | Retaining Ring for Axle |
| B154 | 080-7E154 | 1 | Washer |

11.2 FRAME ASSEMBLY DRAWING



11.3 FRAME ASSEMBLY PARTS LIST

| DRAWING REF NO. | PART NO. | QTY | DESCRIPTION |
|-----------------|-----------|-----|-----------------------------|
| – | 080-7E0 | 1 | Complete Pump Assembly |
| B1 | 080-7E1 | 1 | Handle and Pump Complete |
| B2 | 080-7E2 | 1 | Steer Wheel Shaft |
| B3 | 080-7E3 | 1 | Steer Axle Bolt |
| B4 | 080-7E4 | 1 | Thrust Bearing |
| B5 | 080-7E5 | 1 | Supporting Base |
| B6 | 080-7E6 | 2 | Spring Pin |
| B7 | 080-7E7 | 1 | Retaining Ring for Axle |
| B8 | 080-7E8 | 2 | Steer Wheel Polyurethane |
| – | 080-7E8N | 2 | Steer Wheel - Nylon |
| – | 080-7E8NW | 2 | Steer Wheel - Nylon (white) |
| – | 080-7E8S | 2 | Steer Wheel - Steel |
| B9 | 080-7E9 | 8 | Bearing |
| B10 | 080-7E10 | 4 | Half Round Locking Ring |
| B11 | 080-7E11 | 2 | Bowl Washer |
| B12 | 080-7E12 | 2 | Retaining Ring for Axle |
| B13 | 080-7E13 | 2 | Dust Cover |
| B14 | 080-7E14 | 2 | Bell Crank Pin |
| B15 | 080-7E15 | 8 | Oiler |
| B16 | 080-7E16 | 2 | Spring Pin |
| B17 | 080-7E17 | 2 | Joint |
| B18 | 080-7E18 | 2 | Pin |
| B19 | 080-7E19 | 2 | Straight Tappet |
| B20 | 080-7E20 | 1 | Long Shaft |
| B21 | 080-7E21 | 2 | Retaining Ring for Hole |
| B22 | 080-7E22 | 4 | Oiler |
| B23 | 080-7E23 | 2 | Roll Sheath |

11.3 FRAME ASSEMBLY PARTS LIST CON'T.

| DRAWING REF NO. | PART NO. | QTY | DESCRIPTION |
|-----------------|-----------|-----|-----------------------------------|
| B24 | 080-7E24 | 2 | Spring Pin |
| B25 | 080-7E25 | 2 | Shaft |
| B26 | 080-7E26 | 2 | Shaft |
| B27 | 080-7E27 | 2 | Spring Pin |
| B28 | 080-7E28 | 4 | Roll Ring |
| B29 | 080-7E29 | 2 | Shaft |
| B30 | 080-7E30 | 2 | Spring Pin |
| B31 | 080-7E31 | 2 | Frame or Fork Wheel |
| B32 | 080-7E32 | 8 | Spring Pin |
| B33 | 080-7E33 | 4 | Shaft |
| B34 | 080-7E34 | 4 | NOG of Fork Wheel |
| B35 | 080-7E35 | 2 | Load Roller - Polyurethane |
| - | 080-7E35N | 2 | Load Roller - Nylon |
| - | 080-7E35S | 2 | Load Roller - Steel |
| B36 | 080-7E36 | 2 | Bolt |
| B37 | 080-7E37 | 2 | Sheath |
| B38 | 080-7E38 | 2 | Front Guide Roller |
| B39 | 080-7E39 | 2 | Nut |
| B40 | 080-7E40 | 1 | Fork Frame |
| B41 | 080-7E41 | | |
| B42 | 080-7E42 | 1 | Bolt |
| B43 | 080-7E43 | 1 | Rocker Arm |
| B44 | 080-7E44 | 1 | Nut |
| B45 | 080-7E45 | 4 | Tandem Load Roller - Polyurethane |
| - | 080-7E45S | 4 | Tandem Load Roller - Steel |
| - | 080-7E46Y | 1 | Touch-Up Paint Can - Yellow |
| - | 080-7E101 | 4 | Control Handle Spring |

NOTES

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