EAST WEST ENGINEERING

NWB WHEELIE BIN TIPPER

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INSTRUCTION MANUAL

ALL EAST WEST EQUIPMENT CONFORM WITH AS/NZS 1554.1, AS 2359 (Parts 1 to 12) & AS 3990

EAST WEST ENGINEERING

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1) QUALITY POLICY STATEMENT

East West Engineering is an Australian Owned company in the Sydney suburb of Brookvale. We are Australia's leading manufacturer of forklift attachments, storage, waste containers and environmental protection equipment.

You are purchasing the highest quality products available and are guaranteed of the reliability of **East West Engineering** equipment.

2) GENERAL DESCRIPTION OF PRODUCT

The NWB Wheelie Bin Tipper is a "Slip-on" Forklift attachment designed to safely lift and discharge all 240 litre Wheelie Bins.

One, or two Wheelie Bins can be handled simultaneously by the NWB-T1, and NWB-T2 attachments respectively. The Safe Working Load (SWL) for the NWB-T1 is 250kg, and for the NWB-T2 is 500kg. A painted finish is standard for both models.

All East West equipment conforms to AS 2359.1 to 12. Use of the forklift attachment should be in conformance with relevant statutory authorities. Use of the forklift attachment is restricted to the purpose for which it is designed. EAST WEST ENGINEERING is not liable if this restriction is breached.

Note: The use of '**Wheelie Bin Tipper**' throughout these instructions refers to both models unless stated otherwise.

Type Data

To accurately identify the attachment and when ordering parts, please quote the ***Type*** and ***Serial Number***. This information can be found on the compliance plate situated on the attachment. Please refer *Fig. 7.1* and *Table 7.2*, codes "A" and "B" for more information.

3) METHOD OF ATTACHMENT TO FORKLIFT

Before installing a fork mounted attachment onto a forklift, ensure that the fork arms are suited to the attachment and set to the correct width.

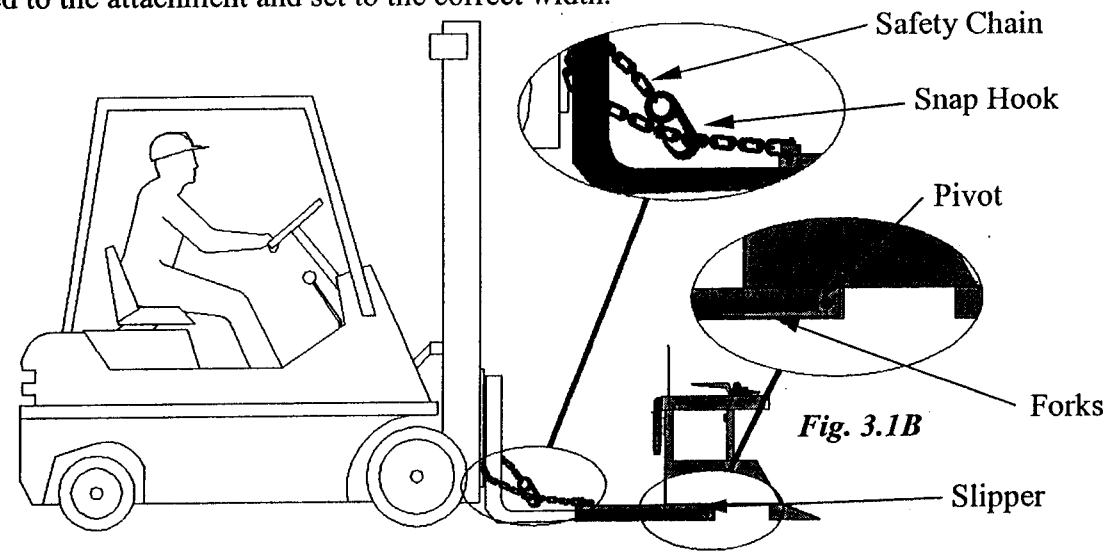


Fig. 3.1B

Fig. 3.1A

a) Attach the NWB Wheelie Bin Tipper to the forklift by engaging the forks into the slippers as shown in *Fig. 3.1A*. Position the forklift with the end of the forks directly below the NWB Wheelie Bin Tipper pivots as shown in *Fig. 3.1B*. Attach the safety chain tightly around the carriage and re-attach through a chain link with the Snap Hook. The length of looped safety chain determines the distance the tines withdraw from the WB-T Wheelie Bin Tipper.

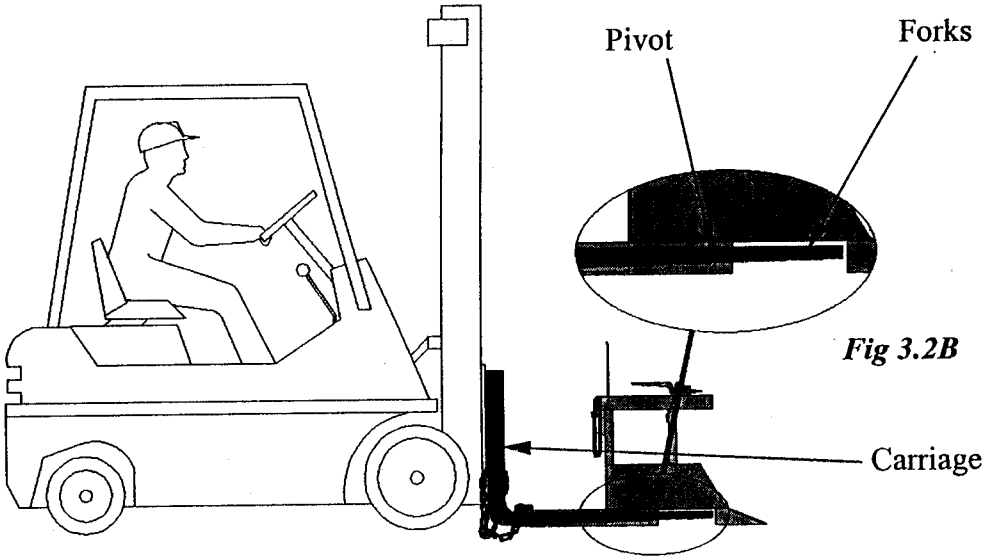


Fig 3.2B

Fig. 3.2A

b) Advance the Forklift to engage the tines as far as possible into the carriage shown in *Fig. 3.2A*. The ends of the fork must be in front of the NWB Wheelie Bin Tipper pivot as shown in *Fig. 3.2B*. The NWB Wheelie Bin Tipper is designed with the centre of gravity in front of the pivot with the natural motion of the attachment to tip forward. With the forks in this position, the NWB Wheelie Bin Tipper is safely supported and will not tip over.

4) OPERATIONAL AND SAFETY PROCEDURE

Pre Checks

Check that the NWB Wheelie Bin Tipper is correctly fitted. Check that the safety chains are in safe working condition. All signage must be strictly adhered to and ensure that the compliance plate is not damaged and is clearly legible.

Operating and safety procedures

Forklift attachments can alter load centers and reduce the load capacity. The type of load to be handled in addition to the operating conditions must be considered when determining the actual working capacity for each application. Do not exceed the recommended forklift or attachment rating. Any SWL noted is a structural rating of the attachment and makes no claim to the suitability of the forklift. Actual load may be restricted to the suitability of the forklift. Actual lift truck capacities must be obtained from the lift truck manufacturer. When lifting with an attachment, the net lifting capacity should be 0.8 times the rating of the truck.

When using a forklift attachment, the operator shall follow the precautions and checks listed below.

A) The operating checks covering the items listed below, and as stated in AS 2359.2 clause 3.1 and 6.4 of the Industrial Truck coded are to be carried out immediately prior to the use of the Forklift attachment.
- nameplate and marking regarding forklift and attachment capacities are to be read and acknowledged,
- check the condition of the lift and tilt systems of the forklift,
- inspection tyres for wear, condition and pressure if applicable,
- check liquid levels of battery cell electrolyte, oils (hydraulic, engine, transmission and brake), water and fuel,
- check steering and brake controls, warning devices and lights.

B) Gain assurance from a responsible person that the forklift attachment may be used safely.

C) Do not exceed the capacity of the industrial truck as rated to handle loads with the forklift attachment.

D) The industrial trucks shall be used on a hard level surface.

E) If lifting in an area subject to passing traffic, barriers or warning signs shall be used to prevent any interference.

F) Manoeuvre slowly and cautiously when a load is elevated.

G) Transport the load with the forklift attachment positioned as low as practicable.

H) The mast, if adjustable shall be set at vertical or back tilted.

I) The operator shall check the forklift attachment is securely attached.

J) The operator shall stay with the industrial truck controls at all times.

K) The operator shall keep hands and feet clear of controls other than controls in use.

L) The operator shall keep clear of overhead obstructions and in particular MAINTAIN RELEVENT CLEARANCE OF ELECTRICAL CONDUCTORS.

M) Before the forklift attachment lifts any load, the operator shall lift the attachment to the required working height to confirm that all systems are functioning correctly.

N) East West Engineering attachments shall not be modified in any way which affects the operation or performance except with the prior approval of East West Engineering. After any changes have been effected, appropriate alterations shall be made on the relevant nameplate and markings prior to placing the attachment back into service. East West Engineering must be notified of the changes to nameplates and makings with reference to the attachment serial number.

"WHEELIE BIN" Operating Instructions

The Wheelie Bin Tipper operates by securely locking the Wheelie Bin onto a pivoting forklift attachment. The position of the forks determines if the attachment tips or not.

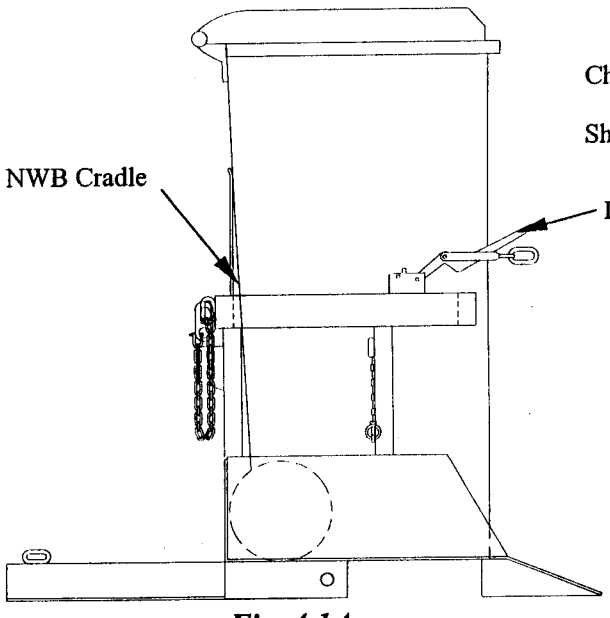


Fig. 4.1A

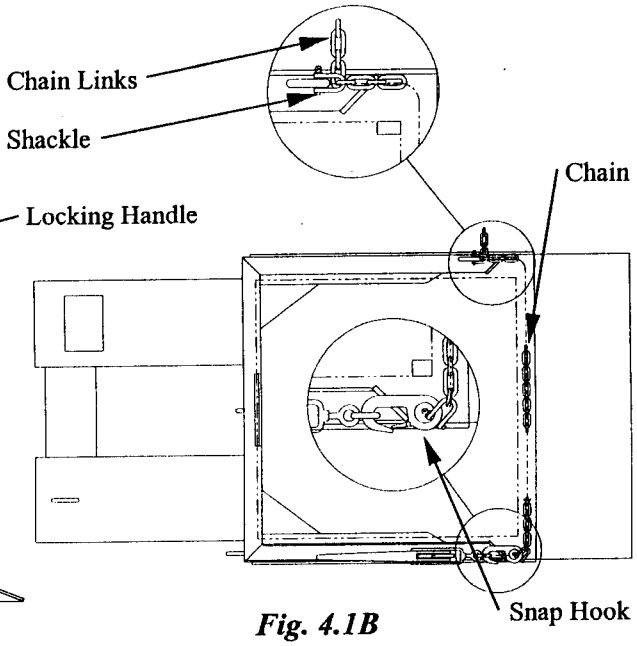


Fig. 4.1B

a) Position the Wheelie Bin in the NWB Wheelie Bin Tipper as shown in *Fig. 4.1A.* Ensure that the rear of the bin is hard against the NWB cradle. Swing the locking handle to the open position as shown.

b) Run the Chain around the belly of the Wheelie Bin as shown in *Fig. 4.2.* Attach the chain Snap Hook to the link of the locking handle.

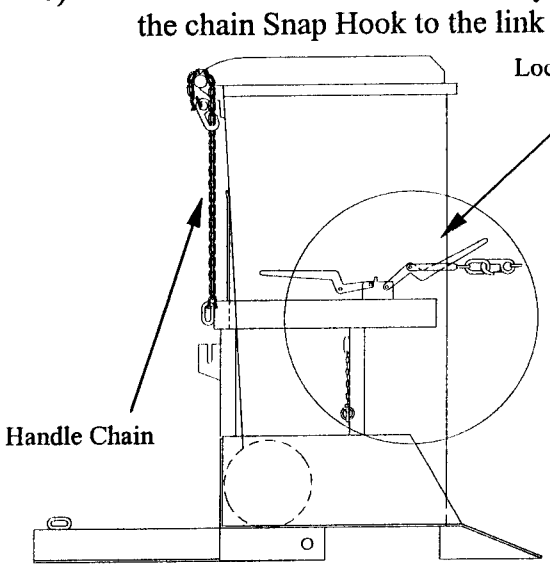


Fig. 4.2A

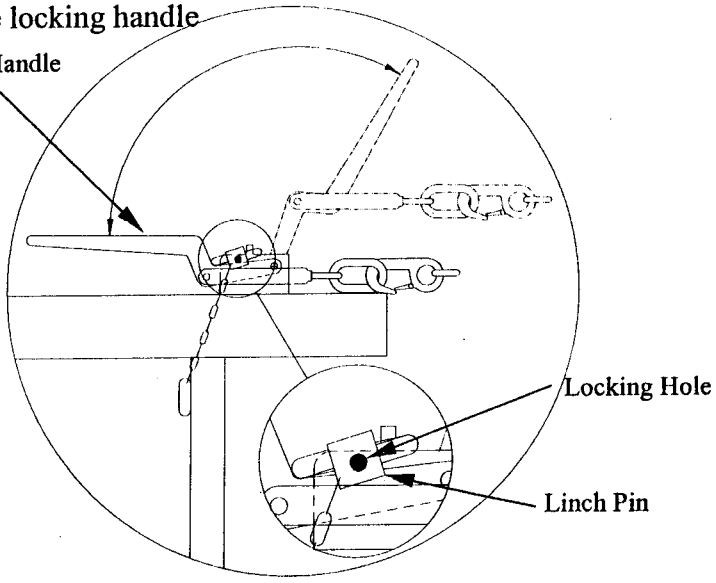


Fig. 4.2B

c) Once the chain is attached to the locking handle, pull the handle down as shown in *Fig. 4.2A.* Ensure the chain secures the bin tightly. If not, the chain length can be altered by linking the shackle through any of the appropriate chain links as shown in *Fig. 4.1B.* After an effective chain length has been achieved, slide the Linch Pin into the locking hole as shown in *Fig. 4.2.B* to secure the Locking handle and chain in position.

d) Run the Handle locking chain into position as shown in *Fig. 4.2.A.* Using the snap hook, re-attach the chain to itself as tightly as possible. The Wheelie Bin is now secure in the NWB attachment and can be safely discharged by a forklift.

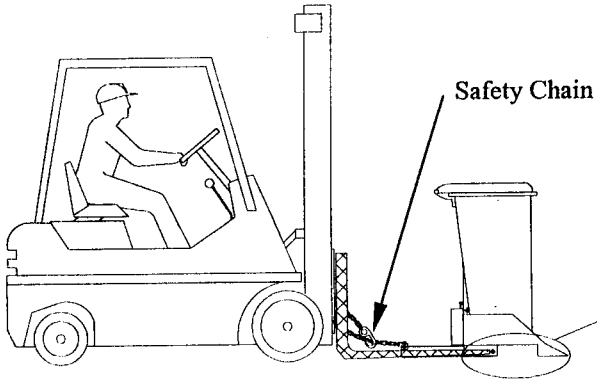


Fig. 4.3A

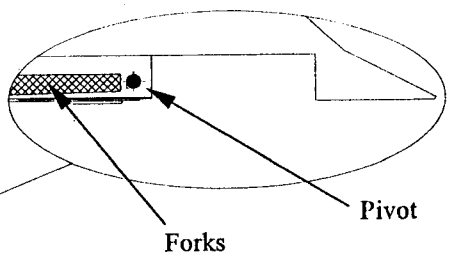


Fig. 4.3B

e) Attach the Wheelie Bin Tipper to the forklift by engaging the forks into the slippers as in *Fig. 4.3A.*

f) Position the forklift with the end of the forks directly behind the Wheelie Bin Tipper pivots as shown in *Fig. 4.3B*. Attach the safety chain around the carriage and re-attach through a chain link with the Snap Hook. If the carriage were to be raised with the forks in this position, the Wheelie Bin Tipper would automatically tip forward. The Wheelie Bin Tipper is designed with the centre of gravity in front of the pivot. Because of this, the natural motion of the attachment is to tip forward.

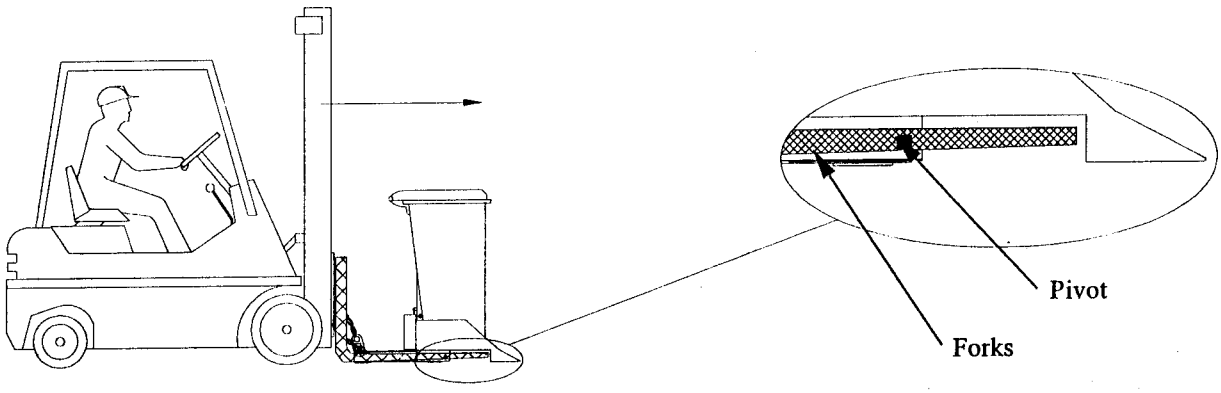


Fig. 4.4A *Fig. 4.4B*

g) To prevent this, move the forklift forward until the carriage is against the rear of the Wheelie Bin Tipper as shown in *Fig. 4.4A*. Now the ends of the fork are in front of the self-tipping bin pivot as shown in *Fig. 4.4B*. Though the attachment tips forward a little, it is now supported by the forks and will not tip over.

h) With the Wheelie Bin Tipper positioned as shown in *Fig. 4.4A*, on the forklift, it can be lifted and moved safely.

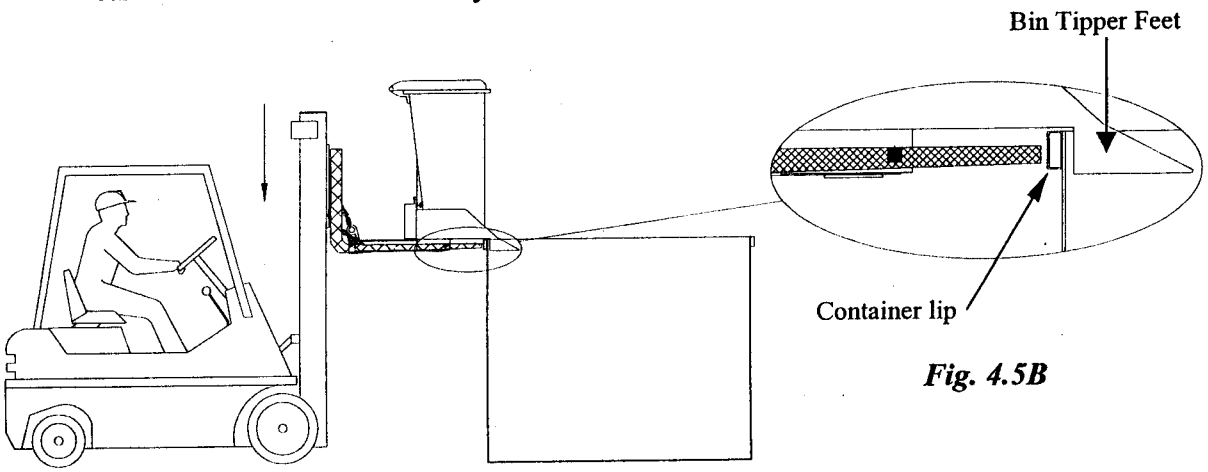


Fig. 4.5B

Fig. 4.5A

i) To tip the Wheelie Bin Tipper, locate the forklift in the position as shown in *Fig. 4.5A*. Hook the Wheelie Bin Tipper feet onto the lip of the container as shown in *Fig. 4.5B*.

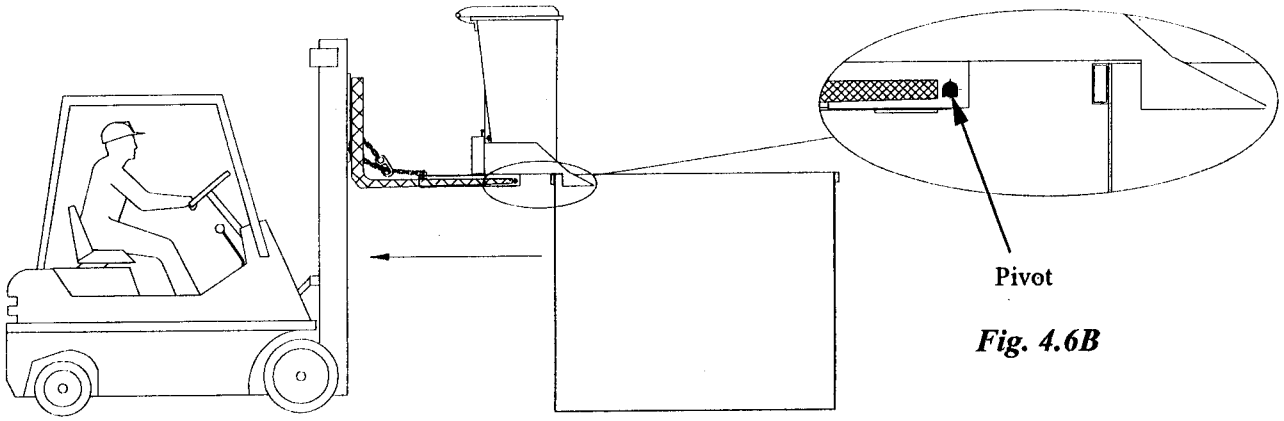


Fig. 4.6B

Fig. 4.6A

j) Allowing the Wheelie Bin Tipper to rest slightly on the container as shown in *Fig. 4.6A*. Reverse the forklift to withdraw the forks past the pivot point as shown in *Fig. 4.6B*, until the safety chain stops the Wheelie Bin Tipper from moving further off the forks. In this position, the lip of the container is stopping the Wheelie Bin Tipper from rotating.

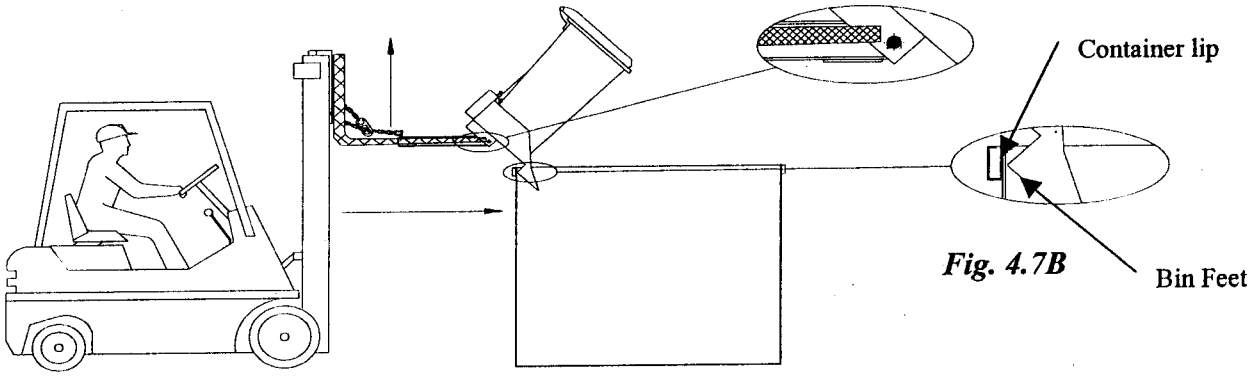


Fig. 4.7B

Fig. 4.7A

k) By lifting the carriage, the Wheelie Bin Tipper will commence tipping forward, swinging around the Wheelie Bin foot that is hooked onto the side of the container as shown in *Fig. 4.7B*. The tipping motion will be aided by moving the forklift forward as the carriage is raised as shown in *Fig. 4.7A*.

l) Keep raising the carriage as the Wheelie Bin Tipper rotates until the Wheelie Bin top corner is positioned at the top inside of the container lip as shown in *Fig. 4.8B* below.

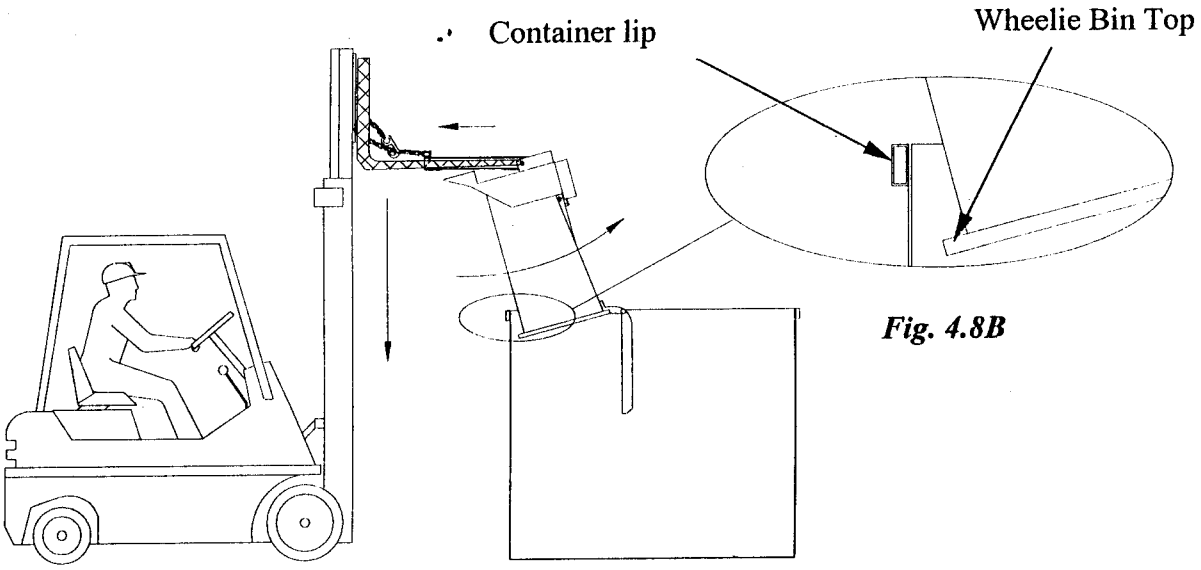


Fig. 4.8B

Fig. 4.8A

m) To return the Wheelie Bin/Wheelie Bin Tipper to the upright and rigid position, ensure the top of the Wheelie Bin is against the lip of the container as shown in *Fig. 4.8B*. Reverse the forklift to rotate the Wheelie Bin Tipper on the lip of the container as shown in *Fig. 4.8A*. When the Wheelie Bin Tipper commences to pivot, lower the carriage to complete the rotation cycle. Once the Wheelie Bin Tipper is in the original (upright) position, move the forklift forward until the carriage is against the rear of the Wheelie Bin Tipper and the forks are forward of the pivots as shown in *Fig. 4.9* below and in step f). The Wheelie Bin Tipper is now fixed upright and can be moved and lowered safely.

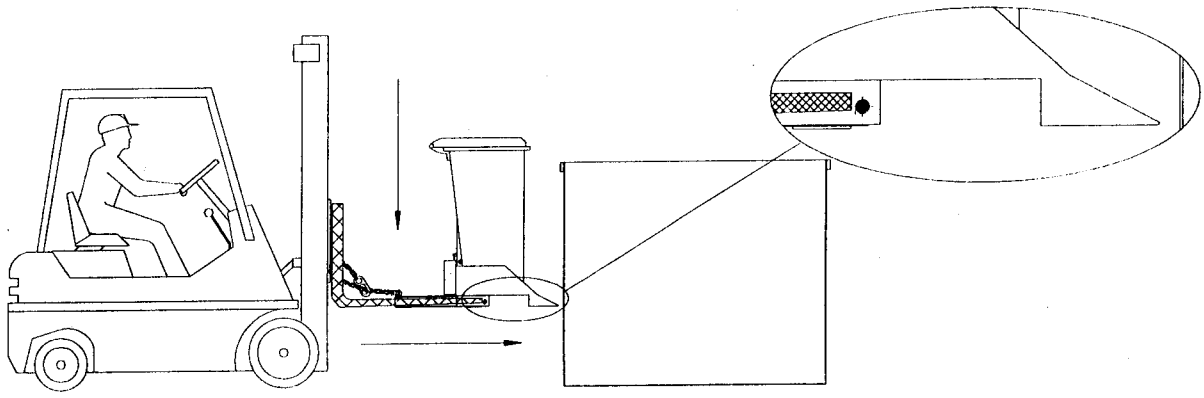


Fig. 4.9

n) When the NWB attachment is safely on the ground, the Wheelie Bin can be removed by unlatching the Linch pin and removing it from the locking hole. Pull up the locking handle to loosen the securing chain. Unsnap both handle securing and bin securing chains before removing the Wheelie Bin from the NWB attachment.

5) PARTS LIST

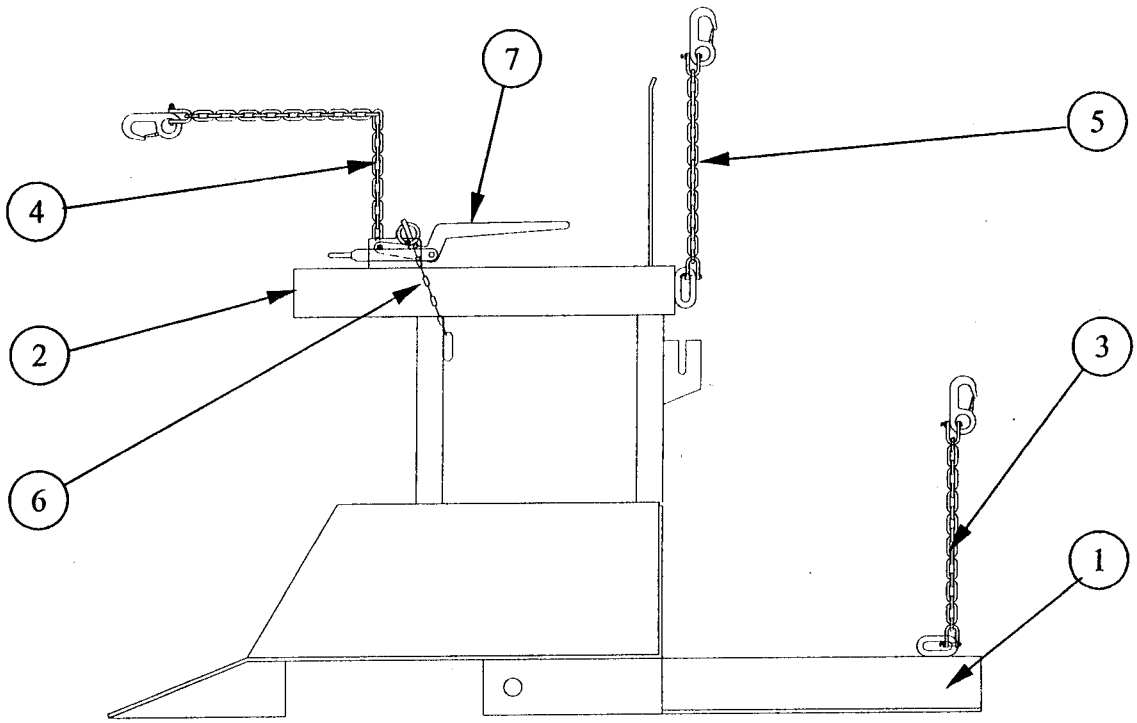


Fig. 5.1

Item	Description	NWB T1 Part No	NWB T2 Part No	
1	Slipper Assembly	NWB12-A	NWB22-A	
2	Cradle	NWB15-A	NWB25-A	
3	Safety Chain	SP-105	SP-105	
4	Belly Strap Chain	NWB17-B	NWB26-B	
5	Bin Handle Chain	NWB17-C	NWB26-C	
6	Linch Pin Safety Chain	NWB17-D	NWB26-D	
7	Locking Handle	6LB	6LB	

Table 5.2

6) MAINTENANCE

Maintenance Schedule

		Maintenance Period					
Item	**Description**	**Daily** or 8 Hrs	**Weekly** or 40 Hrs	**Monthly** or 160 Hrs	**3 Months** or 500 Hrs	**Annually** or 2000 Hrs	**Other**
3	Safety Chain	CI					
4	Belly Strap Chain	CI					
5	Bin Handle Chain	CI					
6	Linch Pin & Chain	CI					

Table 6.1

Maintenance to be carried out		
Maintenance Codes		**Lubricant to be used**
S = Grease smear	**D** = Drain	**G** = Grease, Shell Alvania R2 or equivalent
N = Grease at nipple	**R** = Replace	**Oh** = Hydraulic Oil, Shell Tellus 22
CI = Clean and inspect	**T** = Tighten	**Ot** = Oil, Shell 20W/40W or equivalent
C = Check & fill oil to level	**N** = Note below	**Oa** = Oil, Shell Turbo T32 or equivalent

Table 6.2

7) COMPLIANCE PLATE INFORMATION

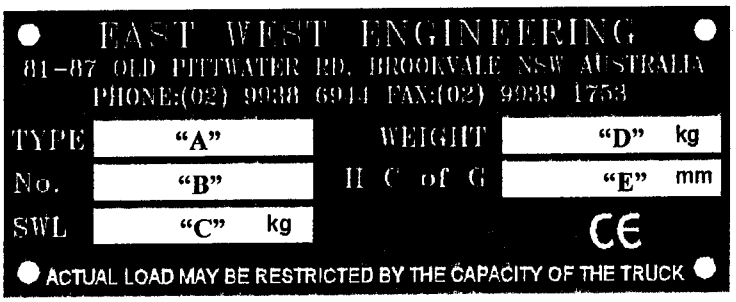


Fig. 7.1

A	Product Type	Refer "Type", *Table 7.2*
B	Serial Number	Individually stamped
C	Safe Working Load	Refer "SWL", *Table 7.2*
D	Dry weight of the unit	Refer "Unit Weight", *Table 7.2*
E	Horizontal C of G	Refer "H C of G", *Table 7.2*

COMPLIANCE PLATE MARKING					
Type	**"A"**	**"B"**	**"C"**	**"D"**	**"E"**
NWB-T1	NWB-T1	SERIAL No	250	80	600
NWB-T2	NWB-T2	SERIAL No	500	110	600

Table 7.2

8) CERTIFICATION INFORMATION

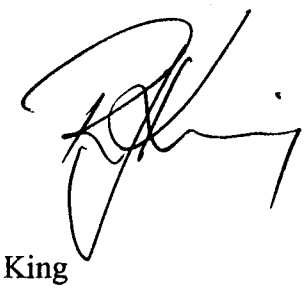
CERTIFICATE

RE: WHEELIE BIN TIPPERS

We certify that our type NWB Wheelie Bin Tippers are designed strictly in accordance with relevant Australian standards including those listed below.

AS/NZS 1554.1 – 2000	Structural Steel Welding - Welding of Steel Structures
AS 2359.1 – 1995	Powered Industrial Trucks – General Requirements
AS 2359.2 – 1985	SAA Industrial Truck Code – Operation
AS 3990 – 1993	Mechanical Equipment - Steelwork

Signed on behalf of **EAST WEST ENGINEERING**



Ron King
MANAGING DIRECTOR