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Bulletin  
OM-SDB0612

## OPERATOR'S MANUAL FOR SELF DUMP BUCKETS



Hydraulic Dump Style Shown

### MODELS

**1440SD 45" wide - 1/4 cyd capacity**

**1445SD & 1445SDH 45" wide - 1/2 cyd capacity**

**1472SD & 1472SDH 72" wide - 3/4 cyd capacity**

Self-Dump buckets are designed to load loose materials such as sand, gravel, garden mulch, and do yard and/or plant clean-up with a straight mast forklift. They are a "universal-fit" "slip-on-forks" style bucket and can be used on most all straight mast forklifts with 48" long forks. They will accept forks up to 2" thick and 6" wide. Modifications can be made at time of manufacture to accommodate other fork sizes. Self-Dump buckets either feature a mechanical trip mechanism with a safety lock or hydraulic cylinder to dump the bucket. The mechanical trip style bucket can be tripped by a handle on the back of the bucket or remotely with a rope release. The hydraulic dump style requires a hydraulic valve at the operator's position on the forklift.

Star Self Dump Buckets are available in 1/4, 1/2 and 3/4 cubic yard capacities. Rated forklift lift capacity required varies with weight of material being handled, position of mast and forks when dumping, and of coarse bucket model. Weight of empty bucket along with material load must be included in capacity considerations. Take care not to exceed lift capacity of the forklift. It is recommended you contact the forklift manufacturer for a de-rated load chart when using this bucket.

# Installation Instructions

## Mechanical Trip Style

1. **Install bucket on forklift** by inserting forks fully into fork channels. Fork channels will accept forks up to 6” wide and 48” long. Install locking pins behind heel of forks and insert hairpins to secure bucket to forks.
2. **Engage “bucket trip lock”** to prevent accidental dumping of bucket.

## Hydraulic Dump Style

1. **Install bucket on forklift** by inserting forks fully into fork channels. Fork channels will accept forks up to 6” wide and 48” long. Install locking pins behind heel of forks and insert hairpins to secure bucket to forks.
2. Hydraulic flow and a control valve from the forklift are required to power the hydraulic dump cylinder. The simplest way to tap into the forklift hydraulic system is where the forklift is equipped with a side shift carriage or hydraulic fork positioner. Typically hydraulic quick disconnects are installed in the pressure and return lines going to the side shift or fork positioner cylinder. This way, after the bucket is installed on the forks, the hydraulic lines going to the side shift or fork positioner can be disconnected and re-connected to the self-dump bucket cylinder lines. Then the valve that controlled the side shift or fork positioner can now be used to control the dump of the bucket.

One set of hydraulic quick disconnects and 2 long hydraulic hoses are furnished with the bucket but typically two more sets of hydraulic quick-disconnects and often two additional short hydraulic hoses will be required. The hydraulic bucket cylinder and hoses are rated for 3000 psi. The amount of hydraulic flow is generally not a factor except the bucket speed it is somewhat relative to the amount of flow.

If the forklift is not equipped with a hydraulic side shift or fork positioner then it will be necessary to have your forklift dealer or other service personnel tap into the hydraulic system and install a control valve for the bucket.

# Operating Instructions

1. **To load material:** lower forks until bucket leading edge contacts the ground. Forklift mast may be tilted slightly forward. Drive forward to engage material and fill bucket. Depending on material and forklift traction it may take more than one try to completely fill the bucket. Capacity of bucket varies with the model.
3. **After filling bucket,** tilt mast back and raise bucket for adequate ground clearance for transportation to discharge point. Always carry load low!
4. **To discharge bucket:**  
**Mechanical trip style** - disengage “bucket trip” lock and then raise mast until bucket bottom is at least 24” above the ground or any obstructions that would be in bucket dump path. Bucket can be tripped with the release handle at the back of the bucket or with the rope release. It may be necessary to tilt the mast back slightly to relieve the

pressure on the latch and allow it to release. Be sure all personnel are clear of the dump path before tripping bucket.

To reset the bucket for loading: Lower bucket to ground while backing up the forklift slightly until the trip mechanism re-engages. Then return the “bucket trip” lock to the engaged position ready for next cycle.

**Hydraulic dump style** - raise mast until bucket bottom is at least 24” above the ground or any obstructions that would be in bucket dump path. Bucket can be dumped with the hydraulic control valve. Be sure all personnel are clear of the dump path before tripping bucket.

To reset the bucket for loading: Return the bucket to the level position with the hydraulic control valve.

## **Warnings**

- **Do not stand in bucket nor stand under forklift to release bucket. Never use bucket to elevate personnel**
- **Before use: Inspect self-dump bucket for damage – pay particular attention to latch mechanism (mechanical trip style). If repairs are needed do not use until repairs are made.**
- **ALWAYS CARRY LOAD LOW.**
- **Do not stand on forklift, climb or reach through mast to trip release. If release handle is beyond safe reach use “rope release” to trip bucket.**
- **Always stay clear of bucket dump path.**
- **Make sure total load does not exceed capacity of forklift.**

***Self-Dump Bucket Maintenance:*** Lubricate latch hinge bolt, latch hook, and trip lock hinge bolt with oil or grease when needed (mechanical trip style). Thoroughly inspect latch, latch hinge bolt, trip lock, retaining spring, fork channels and locking pins for wear, damage or loss. At same time check for broken welds, bent or torn steel or other damage. Repair as needed before further use. Please note – Any modifications to the bucket must have manufacturers’ written approval.