



**ICEGUARD
PRODUCT MANUAL**

**PART NUMBER: SG07230009
REVISION: A**

Component Technology
A DIVISION OF
 **Certified Power Inc.**

Initial Setup

- Checklist

◆ **Check Loose Components**

- ✓ Tailgate Bracket (1)
- ✓ Tailgate Pins (2)
- ✓ Free-standing Legs
(if ordered w/folding legs)
 - Front Legs (2)
 - Rear Legs (2)
 - Leg Pins (4)
- ✓ Ratchet Straps (2)
(*not shown*)
- ✓ Wiring Harnesses
 - Rear Harness (SG07050222) (1)
 - Front Harness (SG07050221) (1)

Initial Setup

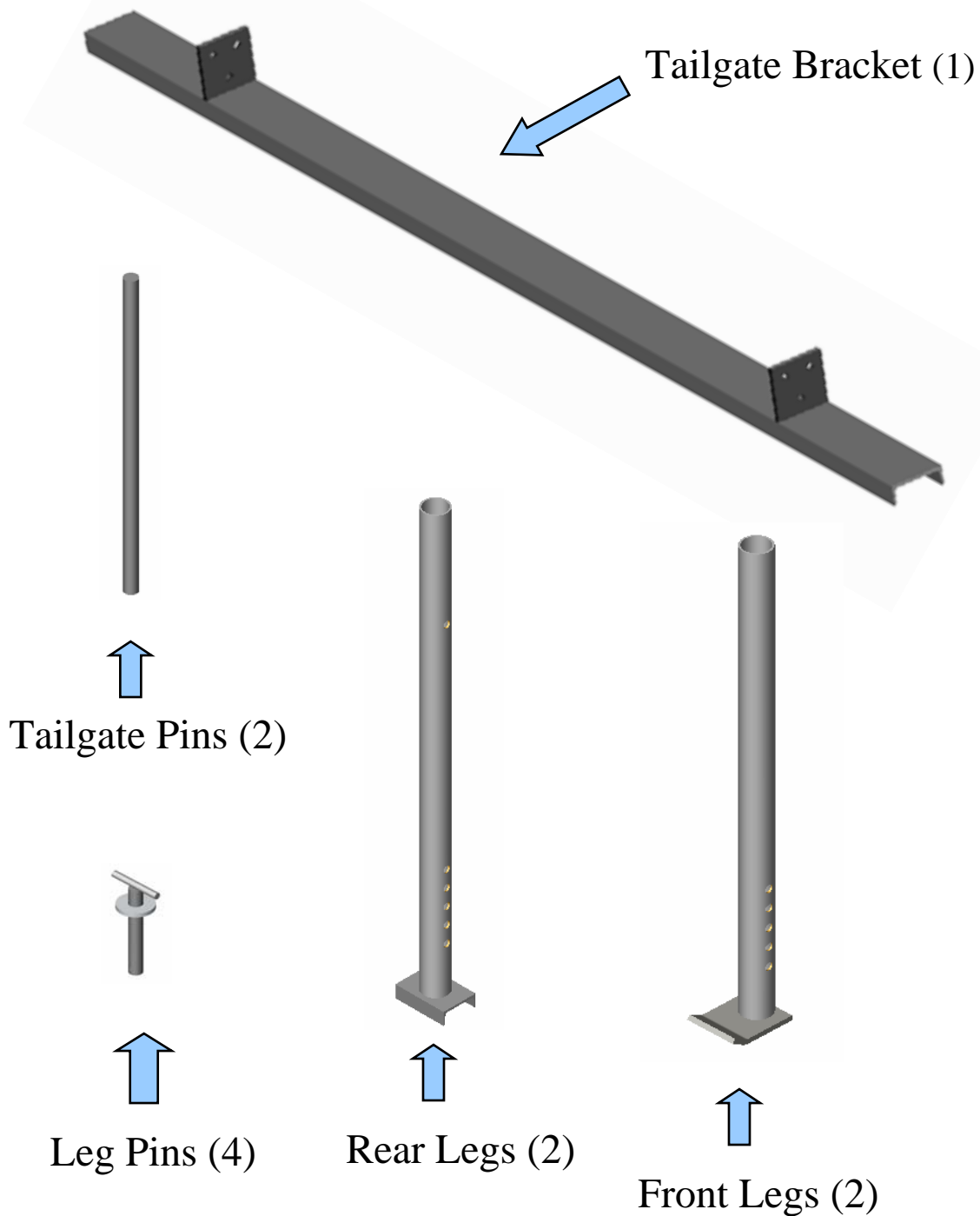
- ✓ **Wiring Harness Accessories**
 - Intermediate Valve Cord (SG07050225) (1)
 - CT-VRM-1 Speed Input Adapter (SG07050078) (1)
- ✓ **Controller**

(one of the following)

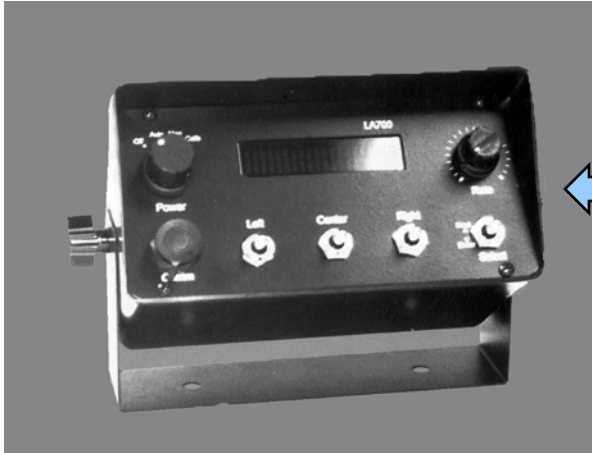
 - LA700 Ground Speed Controller
 - ML400 Manual Controller
(non-ground speed systems)
(not shown)

Initial Setup

- Checklist Identification

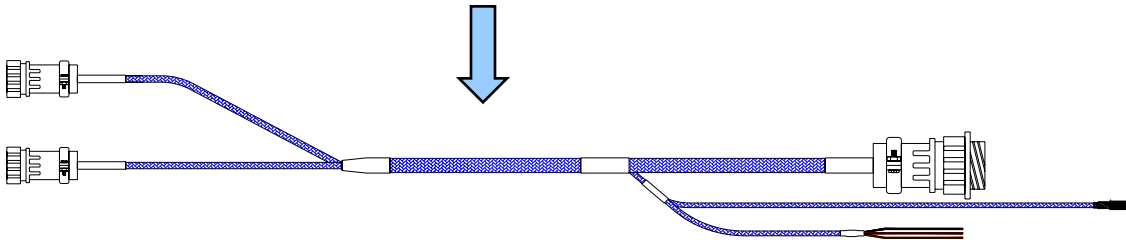


Initial Setup



Controller - LA700

Front (Cab) Harness
- SG07050221



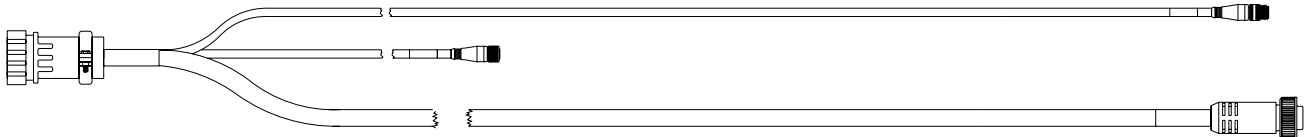
CT-VRM-1 Speed Input Adapter
- SG07050078



Initial Setup

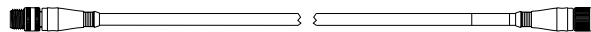
Rear (Truck Chassis) Harness

- SG07050222



Intermediate Valve Cord (Extension)

- SG07050225



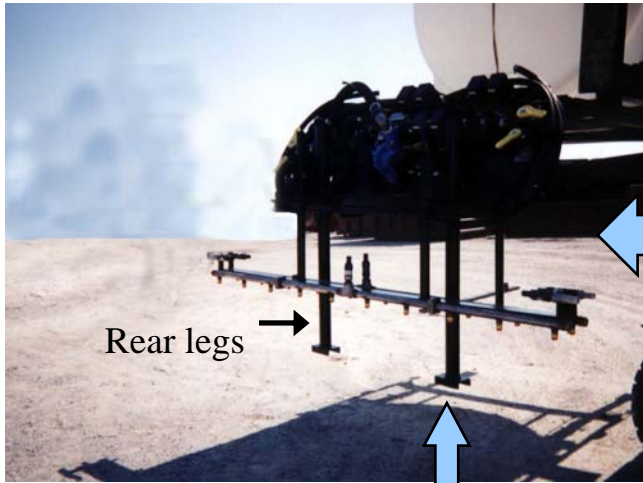
Initial Setup

- ◆ **Raise or support IceGuard system to install legs**

IMPORTANT: Make sure unit is setup and stored on a FLAT surface

- ◆ Remove pins from legs and slide front legs in front tubes with bottom leg pad toward rear of unit
- ◆ Align holes and slide pins through tube and leg
(set for approximate body height)
- ◆ Install safety keeper pins
- ◆ Repeat steps for rear legs

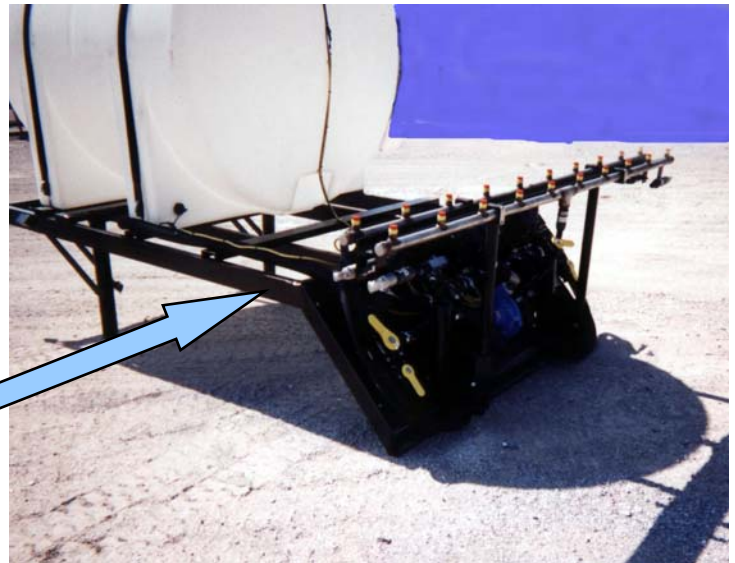
Initial Setup



Unit suspended
with forklift

Raise or support
IceGuard system to
install legs using pins

Remove nuts
and bolts from
both sides of
boom assembly
(note: boom is
installed upside
down for
shipping
purposes)

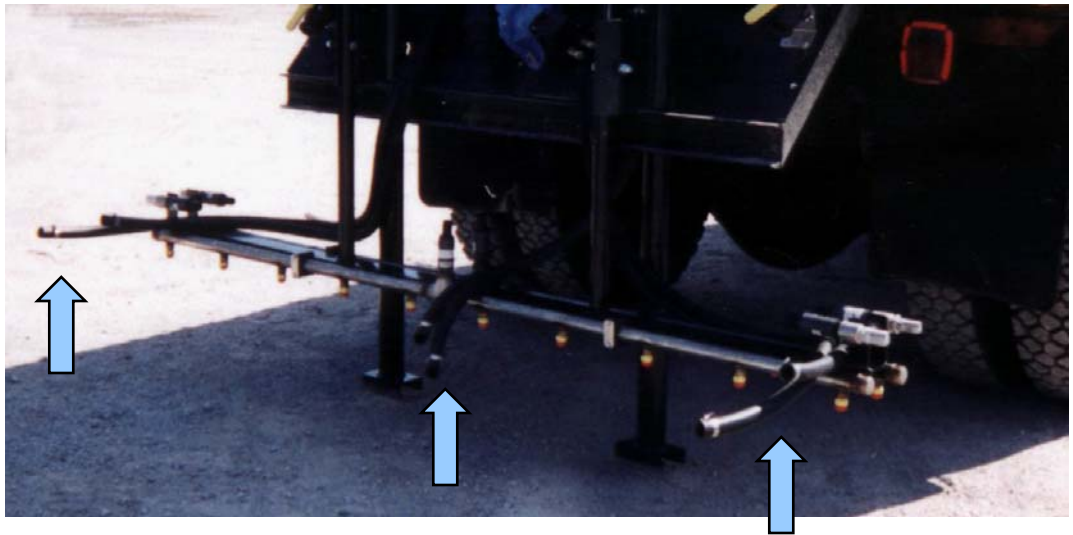


Initial Setup

- ◆ **Remove nuts and bolts from both sides of boom assembly**
(boom is installed upside down for shipping purposes)
- ◆ **Turn boom right-side up with low flow boom toward front of truck and re-install bolts and nuts, setting boom to desired height**
- ◆ **Cut tie wraps from the boom hoses to allow hose-end connections to be made to hose barb on boom assembly**
(hoses are shipped longer than needed and may need to be cut to length after boom height is determined)

Initial Setup

Turn boom right-side up with low flow boom toward front of truck and re-install bolts and nuts, setting boom to desired height



Cut tie wraps from the boom hoses to allow hose-end connections to be made to hose barb on boom assembly (hoses are shipped longer than needed and may need to be cut to length after boom height is determined)

Initial Setup

- ◆ Install numbered hoses to the corresponding numbered hose-barb and check valve position and tighten hose clamps
- ◆ Install main skid wiring harness along frame rail
(optional-harness may be installed to truck frame)
- ◆ Locate and position controller for operator ease and display visibility in cab
- ◆ Install controller and front harness in vehicle cab

Initial Setup

- ◆ **Locate vehicle speed sense wiring and install CT-VRM-1 Adapter**
(consult vehicle owners manual or contact vehicle manufacturer for speed sense signal location)
- ◆ **IceGuard System ready for loading**
 - Make sure unit is on flat and solid ground
 - Align Truck bed with front of IceGuard system
 - IceGuard front frame loading wheels should be level with truck body
 - Tilt body slightly up to allow for frame wheels to contact dump body floor

Initial Setup

- Loading

Align Truck bed with front of IceGuard system



IceGuard front frame loading wheels should be level with truck body

Initial Setup

Tilt body slightly up to allow for frame wheels to contact dump body floor



Make sure front rollers contact the bed first and not the leg or frame

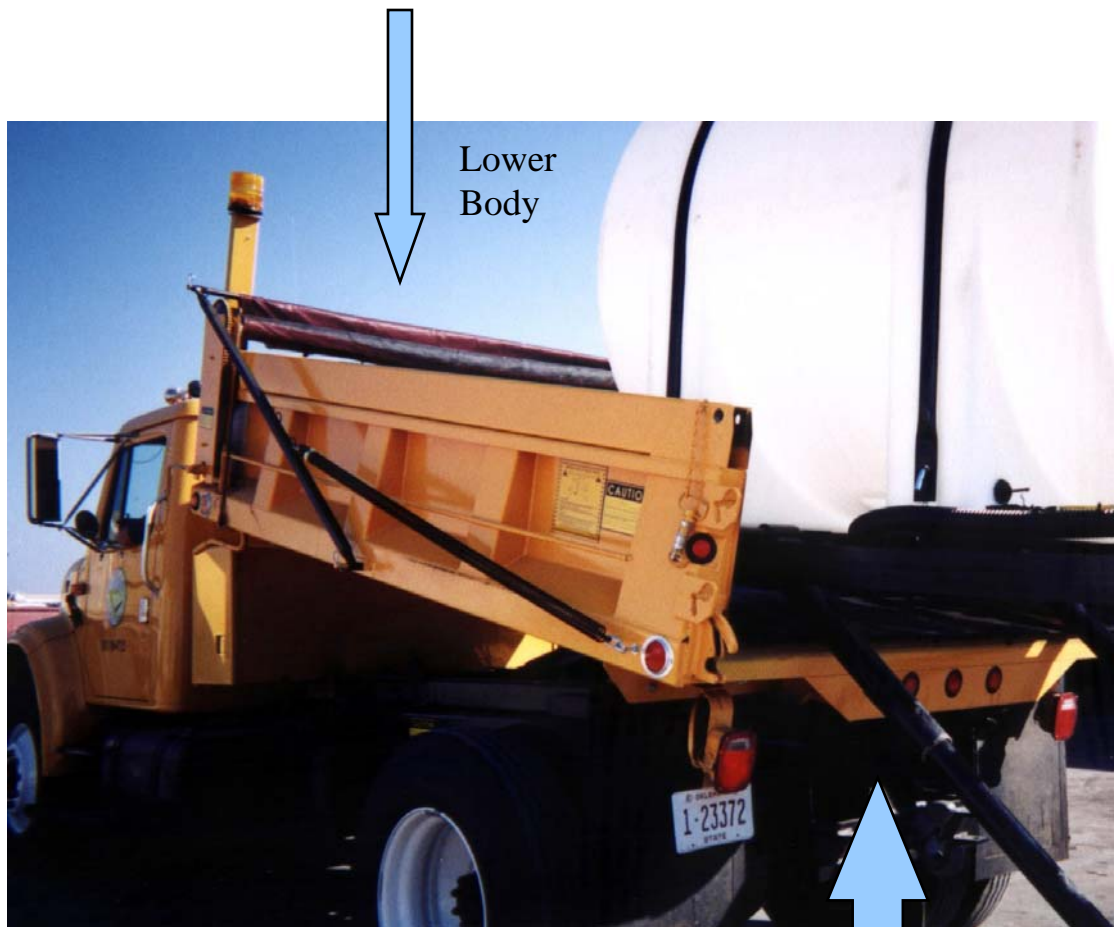


Initial Setup

- ◆ **IceGuard loading continued...**
 - Slowly back vehicle under IceGuard system to allow unit to slide into dump body and legs to fold under
 - Dump body should be lowered as the unit moves into position to prevent excessive angle on rear legs of IceGuard unit
 - Dump body should then be lowered completely allowing rear legs to clear ground
 - Remove safety pins and raise rear legs to top position and replace pins
 - IceGuard unit should be positioned as far forward as possible to allow tailgate bracket installation

Initial Setup

Dump body should be lowered as the unit moves into position to prevent excessive angle on rear legs of IceGuard unit



Slowly back vehicle under IceGuard system to allow unit to slide into dump body and legs to fold under

Initial Setup

Dump body should then be lowered completely allowing rear legs to clear ground

Legs pinned
in top
position



Remove safety pins and raise rear legs to top position and replace pins

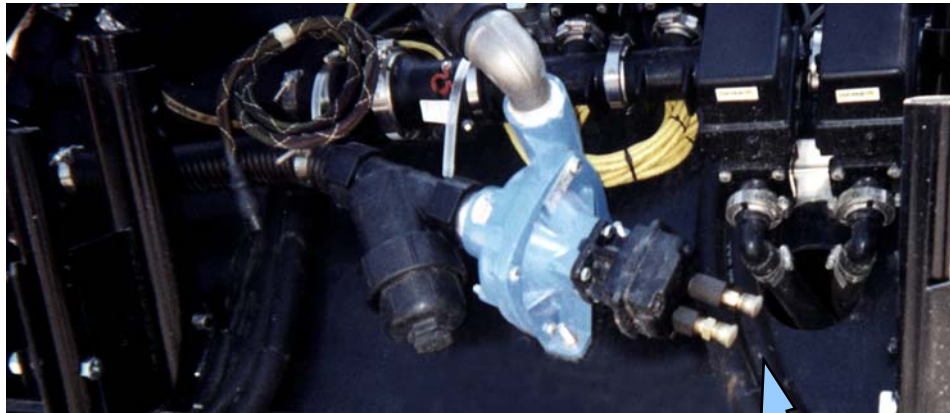
Initial Setup

- ◆ **IceGuard loading continued....**
 - Position tailgate bracket to measure and cut to length
 - Weld tailgate latch pins to fit dump body tailgate latch mechanism
- ◆ **Make hydraulic hose connections from truck hydraulic source to IceGuard pump/motor combination**
 - Inlet on IceGuard motor supplied from auger motor source (15GPM available source)
 - Connect return port to fitting on IceGuard motor marked “tank”

Initial Setup

- Hydraulic Hose Connections

Inlet on IceGuard motor supplied
from auger motor source
(15GPM available source)



Connect return port to
fitting on IceGuard
motor marked "tank"

Initial Setup

- ◆ ***Note: We recommend jumping the unused spinner connection to a return line or tank source***

Start Up Procedure

- ◆ **Fill Tank**
- ◆ **Set ball valves to “unload” position to prime pump**
(turn valves off as soon as liquid drains from camlock connector)
- ◆ **Set ball valves to “run” position**
- ◆ **Make sure hydraulic system is on and operational**
- ◆ **Turn IceGuard control to the “manual (on)” position**

Start Up Procedure

- ◆ **Toggle center lane once to the on position**
- ◆ **Increase rate knob and verify liquid discharge from nozzles**
- ◆ **Repeat for left and right lanes**
- ◆ **Toggle lane switches up for high and again for combined high/low flow operation and repeat steps for each lane**
(toggling switch up displaying “1” for low flow, “2” for high flow and “3” for combined flow)

Start Up Procedure

- ◆ **Proceed to the calibration section of the control manual for completed calibration instructions**

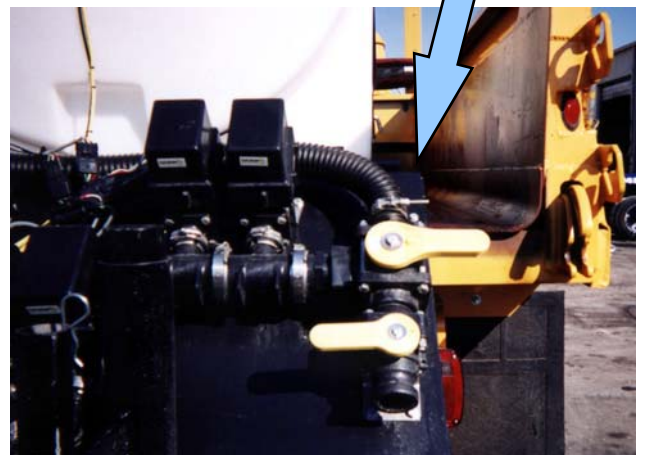
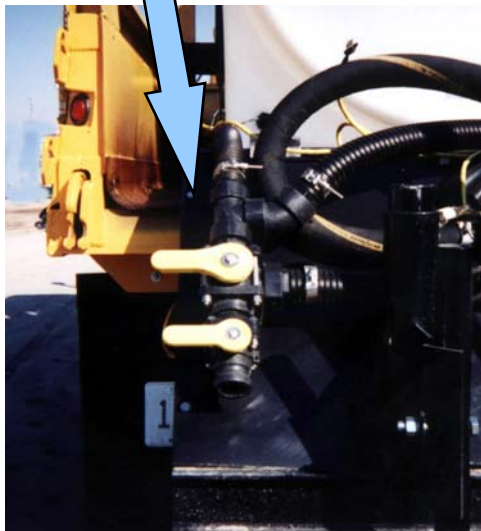
Ball Valve Position

Normal Operating Position

Drivers side
ball valves



Passenger
side ball
valves



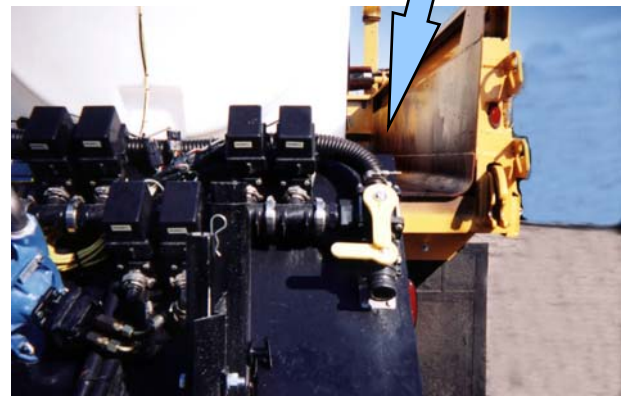
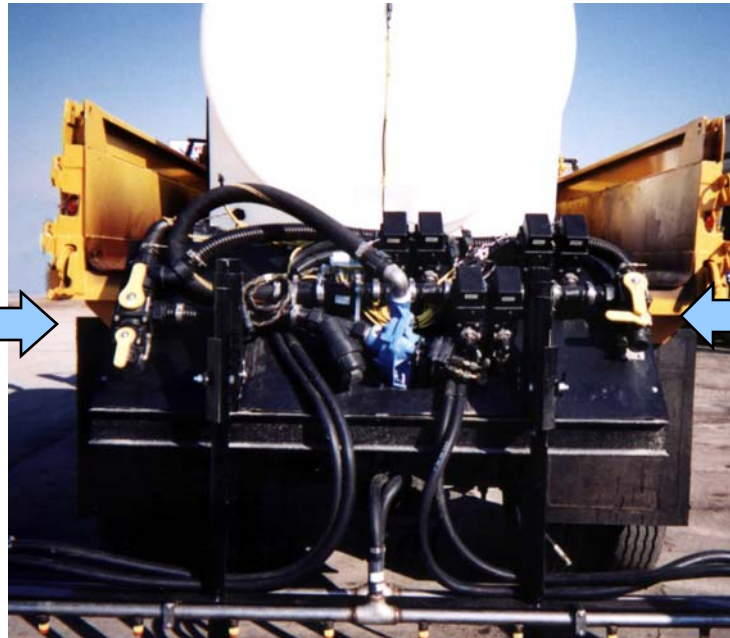
Ball Valve Position

“Self-Fill” Position

Drivers side
ball valves



Passenger
side ball
valves



***Note: Pump must have positive pressure to self fill-
will not prime when liquid level is below pump level***

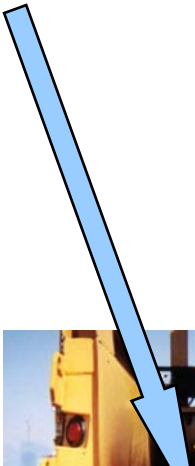
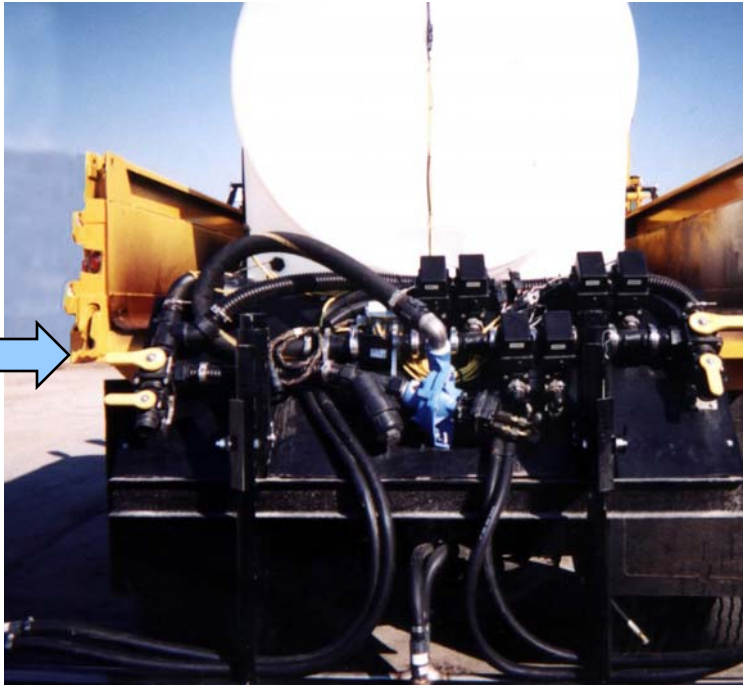
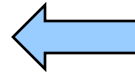
Ball Valve Position

Off-Load and Prime Position

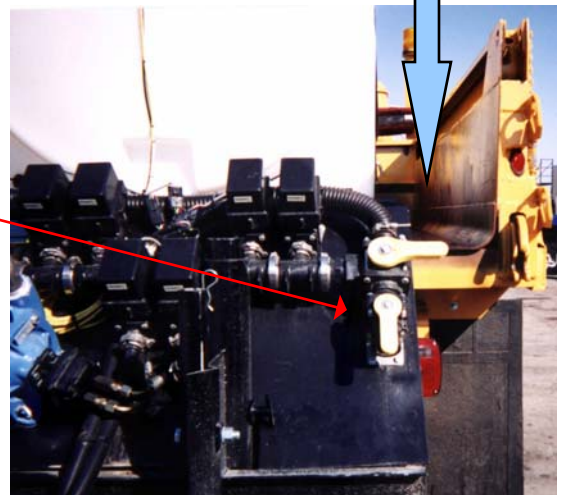
Drivers side
ball valves



Passenger
side ball
valves



Turn this
valve to this
position
momentarily
to prime unit



Operation & Calibration Manual



“IceGuard” Anti-Ice System