Safety, Installation, Maintenance, and Operation

Summit Personnel Bucket

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Summit Truck Bodies

Aerial Basket Owner's Manual – Revision Record

Date	Section(s) or Page(s) Revised	Description of Change
10/10/16	**Initial Release**	**Initial Release of Manual**
10/31/16	**Table of Contents**	**Updated T.O.C. to have page numbers**
11/01/16	**Decals & Installation**	**Added decals and added 84" stow instructions**

Notes:

1. The information contained in this manual is in effect at the time of this printing. It does not cover all instructions, configurations, accessories, etc. If you require additional information, please contact **Summit Truck Bodies** at **(866) 985-3100**.

2. **Summit Truck Bodies** reserves the right to update this material without notice or obligation.

Inspection Notes

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INTRODUCTION

READ CAREFULLY

Congratulations on your purchase.

For continued quality service, carefully read the information contained in this manual before operating this equipment. This manual provides basic guidelines for the safe and proper operation of the aerial bucket. After you have read and understood the material in this manual, work with your aerial bucket by learning basic operations, safely.

To prevent injury to yourself or others, maintain your aerial bucket, and operate it safely by knowing your surroundings. Look out for such things as overhead wiring, overloading of the aerial bucket, side loading of the attachments and wearing of the prescribed PPE, including hard hat and approved fall restraint .

The users must have a working knowledge of existing Federal, State and Local codes and regulations governing the safe use and maintenance of this aerial bucket.

Treat the equipment with respect and service it regularly.
These two things can add up to a safer working environment, longer equipment life, and prevention of loss of life and limb.

Distributor Assistance:

Should you require any assistance not given in this manual, we recommend that you **contact Summit Truck Bodies at the following telephone number: (866) 985-3100.** The information contained in this manual is in effect at the time of this printing. Summit Truck Bodies reserves the right to update this material without notice or obligation.

SAFETY

WARNING: THIS AERIAL BUCKET IS NOT INSULATED!

Maintain safe distances from all electrical power lines in accordance with government regulations. This apparatus does not offer protection from contact with electrically charged conductors or power lines.

Of all the pages within this manual pay particular attention to this chapter. It could prevent serious injury, or worse, loss of life, to you or the people with whom you are working. After reading this chapter, put safety into practice on the job while operating your equipment or any other piece of machinery.

The first priority of any job must always be a safe working environment. You will eliminate personal pain and suffering to yourself and to others on the job site. Know your surroundings, power lines, loose soil not allowing for solid footing and lack of PPE, and maintain a mindset of working safely, from the beginning to the end of each job. This is not an all-inclusive list, so the owner of the machinery may want to supply its own list of safety precautions as well. However, follow the safety requirements listed and you will have the basic knowledge of safety on the job.

To qualify as a safe operator you should first know and understand your equipment, knowing its limitations and strengths. Maintenance of the equipment is second priority; as with any piece of machinery, if not kept clean and in working order, the equipment will likely malfunction. Follow a preventive maintenance schedule with your machine and a routine visual inspection of the equipment before you start any job.

The operator must have a working knowledge of all safety and government regulations. Summit Truck Bodies is not liable for accidents caused by the operation of the aerial bucket.

You may want to follow a couple of safety tips. Equipment on your truck should include a fire extinguisher and a first aid kit. Use best practices of PPE and avoid any type of body jewelry that might get caught on moving objects. Always wear personal fall restraints when working out of basket. Fall protection should be tied off to designated harness point. Harness point is designed for single occupant tie-off only.

At **NO TIME** should a load be lifted by the hoist cable while aerial bucket is in operation. Cable should be tied back to included tie-off on fixed section of crane boom.

General

Being the owner of the equipment, it is your responsibility to establish a training process for your operators by qualified people before starting the job. As with any equipment, be it a motor vehicle or machinery, this equipment cannot be operated by anyone under the influence of alcohol, drugs, or prescription medication that impairs the operator physically, mentally or physiologically.

Personal Safety

The use of personal protective equipment ("PPE") is critical to the safety of the operation and the wellbeing of the people operating the equipment. The use of the following (but not all inclusive) PPE in the safe operation should be worn by the operator:

- Protective helmets
- Safety shoes (preferably steel toed)
- Cut proof gloves, preferably snug fitting
- Ear plugs or any form of hearing protection as required on job site
- Safety glasses or shields
- Reflective vests
- Fall harness and appropriate tie off line

Follow your established safety rules and regulations. If you do not have those, consult your OSHA manual. Routine inspection of the safety decals is a must for the safety of the operator; be sure all decals are legible and in good condition. Replace any and all decals that are missing from your truck body or in need of repair.

For the safety of the operators, follow these safety guidelines:

- Disengage the power source before working on the equipment.
- Remember there is stored hydraulic pressure in the hydraulic lines of the truck; this must be released prior to working on the crane or any attached component of the crane
- Stay clear of all moving parts of the equipment; your body could be crushed or severely pinched.
- Routine maintenance should be recorded and maintained by only trained and competent personnel.
- Bypassing parts of the wiring and/or plumbing can cause the aerial bucket serious damage and injury to the operator.

Stability

The service truck should be parked on solid level ground. If unable to park on such a surface, outrigger pads may need to be used to level and support the truck and its load.

Never exceed the aerial bucket capacity nor the stability chart for the service truck. These ratings are based on tested capacities of the service truck and the structural design and mechanical abilities of the components on the aerial bucket.

Be aware of the abilities and limitations of your aerial bucket. Improper use of the aerial bucket could damage the crane, service truck, basket, surroundings or even cause personal injury or death.

Park the vehicle on as level ground as possible. Use outrigger pads if needed, and always extend the outriggers fully out and then down.

Be aware of your surroundings when lowering outrigger jacks. Keep feet and legs out from under jacks.

Never operate the aerial bucket before the service truck is positioned on stable, level ground.

Put the vehicle in park or neutral (for manual transmissions) and set the parking brake before attempting a lift.

Load Safety

Before operation, know the total weight of operator, bucket and required tools to be lifted. Also, consult your capacity chart located on the rear of the truck, comparing the two to ensure the aerial bucket will safely handle the job.

The crane electronics have a safety built into the remote and receiver to prevent an overload, but like any mechanical device, it can be overridden by an operator. Please be advised that if this happens, **your warranty is null and void**. Consult with our service department to return the aerial bucket safety features back to the required setting established at the plant.

- The gear rotation mechanism is not designed for side loading of the aerial bucket. Side loading will result in damage to the bucket, brackets and/or failure of the rotate gear set.
- When you leave the truck for a break or lunch, lower the load to the ground, as it can result in injury if the load were to become unstable in your absence.
- The aerial bucket boom is designed to lift a person; it is not intended to be used to force a downward pressure on any type of operation.

Environment

The equipment you have purchased operates at maximum performance if you have a good preventive maintenance program in place. The work site is generally full of contaminants, so weekly washing of the truck and or aerial bucket is a good prevention tool. Prevention of the general wear and tear due to corrosives is insurance that your machine will last a long time, affording you a good investment of your time and capital.

Good common sense goes a long way in safety. Steel and electricity do not mix well, so avoid using the aerial bucket during any weather that could cause hazardous working conditions, including rain, snow and especially storms that include lightening. Maintain the prescribed clearance from all power lines with your aerial bucket.

Maintenance Safety

Your Summit truck or aerial bucket is designed to give you years of use. Do not modify the components or the systems of the truck, as this will cause damage to the equipment and impede the functions of the truck.

Electrocution

Use extra personnel to signal when operating near electrical.

Keep at least ten feet between any portion of the aerial bucket and an electrical line. Add an additional 12" for every additional 30,000 volts or less.

Allow extra space during windy conditions for swaying power lines.

Death or serious injury can occur when working during electrical storms or near power lines.

SAFETY DECALS

TITLE: *ANCHOR POINT*
PART NUMBER: *700-31130*
DESCRIPTION: *SINGLE PERSON ANCHOR POINT*
LOCATIONS: MID, *LOWER ARM*

TITLE: *MAX LOADED CAPACITY*
PART NUMBER: *700-31131*
DESCRIPTION: *MAX LOAD CAPACITY INCLUDING THE OPERATOR, TOOLS, AND EQUIPMENT*
LOCATIONS: *BASKET*

TITLE: *LIFTING POINT*
PART NUMBER: *700-31132*
DESCRIPTION: *DESIGNATED LIFTING POINT FOR ASSEMBLY*
LOCATIONS: *TOP, LOWER ARM*

TITLE: *MAX CRANE LOAD*
PART NUMBER: *700-31133*
DESCRIPTION: *MAX LOADING ON CRANE IS NOT TO EXCEED 50% OF CRANE CAPACITY AS NOTED BY THE LOAD CHART.*
LOCATIONS: *BASKET*

TITLE: *FRICTION BRAKE LEVER*
PART NUMBER: *700-31134*
DESCRIPTION: *DESIGNATES THE BRAKE MECHANISM THAT STOPS THE BASKET FROM SWINGING*
LOCATIONS: *TOP, LOWER ARM*

TITLE: *TRUCK POSITION*
PART NUMBER: *700-31135*
DESCRIPTION: *TRUCK MUST BE POSITION CORRECTLY BEFORE OPERATING THE BASKET*
LOCATIONS: BASKET

TITLE: *DANGER, FALL FROM BASKET*
PART NUMBER: *700-31136*
DESCRIPTION: *WHERE SAFETY HARNESS AT ALL TIMES*
LOCATIONS: *BASKET*

TITLE: *STOWED LOAD LINE*
PART NUMBER: *700-31137*
DESCRIPTION: *LOAD LINE MUST BE STOWED BEFORE BASKET OPERATIONS*
LOCATIONS: *BASKET*

TITLE: *COMPLIANCE*
PART NUMBER: *700-31138*
DESCRIPTION: *COMPLIANT WITH ASME B30.23 AS WELL AS ANSI 92.2-2015*
LOCATIONS: *BASKET*

TITLE: *WINCH LINE ANCHOR POINT*
PART NUMBER: *700-31140*
DESCRIPTION: *DESIGNATES THE LOCATION TO ANCHOR THE WINCH LINE*
LOCATIONS: CRANE BASE

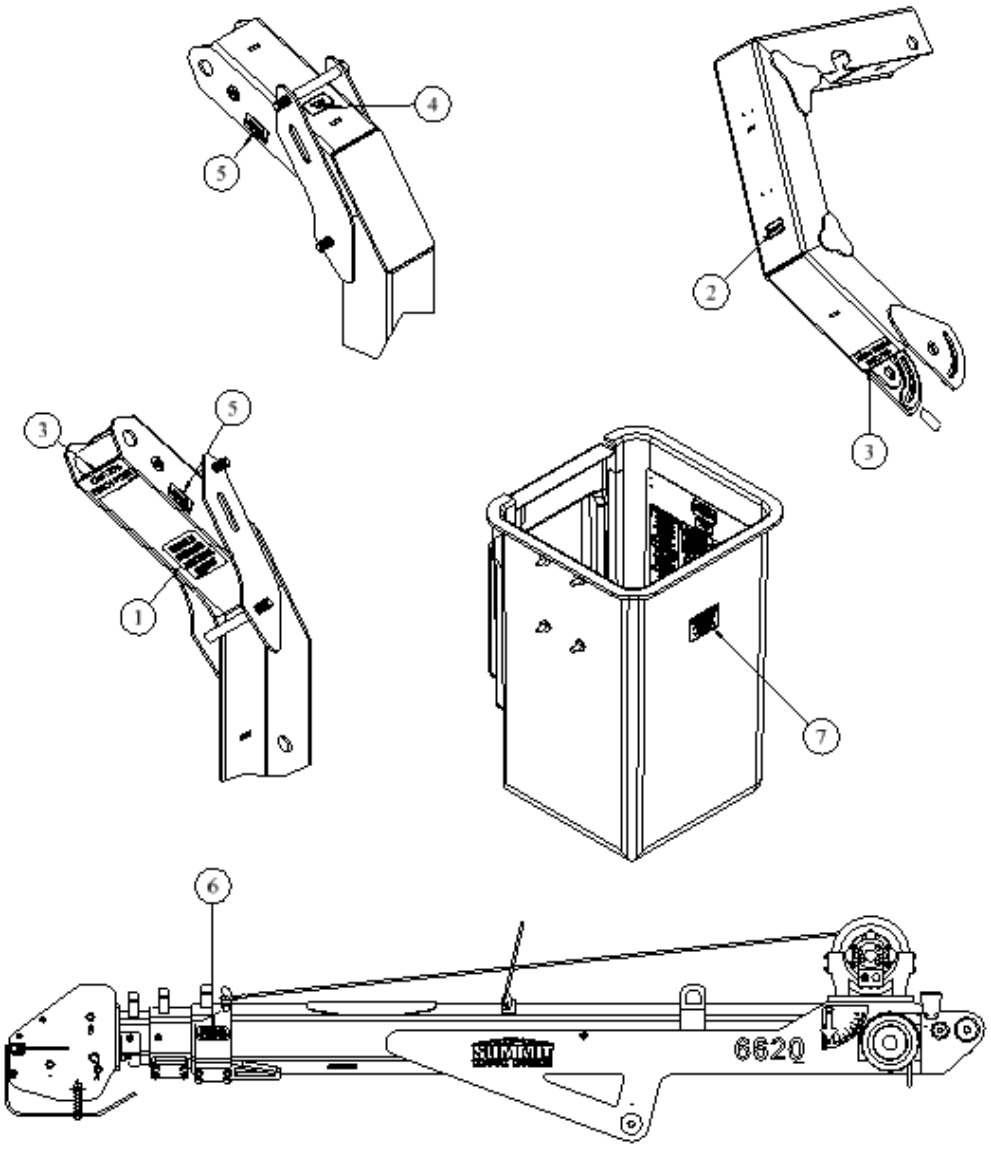
TITLE: *WARNING, BASKET STOWED*
PART NUMBER: *700-31141*
DESCRIPTION: *THE BASKET MUST BE STOWED IN THE APPROPRIATE POSITION BEFORE MOVING THE VEHICLE*
LOCATIONS: *BASKET*

TITLE: *NOT A LIFTING POINT*
PART NUMBER: *700-31142*
DESCRIPTION: *THE DESIGNATED LOCATION IS NOT USED FOR LIFTING.*
LOCATIONS: *HANDLES, UPPER ARM*

TITLE: *REFERENCE*
PART NUMBER: *700-31143*
DESCRIPTION: *MUST REFER TO THE OPERATION INSTRUCTIONS LOCATED IN OTHER MANUALS*
LOCATIONS: *BASKET*

TITLE: *IDENTIFICATION PLATE*
PART NUMBER: *700-31144*
DESCRIPTION: *PROVIDES NECESSARY DESCRIPTIONS AND NUMBERS RELEVANT TO THE BASKET*
LOCATIONS: *BASKET*

DECAL LOCATIONS



ITEM	QTY	PART NUMBER	DESCRIPTION
7	1	700-31141	DECAL WARNING BASKET STOWED
6	1	700-31140	DECAL, WINCH LINE ANCHOR POINT
5	2	700-31134	DECAL, FRICTION BRAKE LEVER
4	1	700-31132	DECAL, LIFTING POINT
3	2	700-30195	DECAL "PINCH POINT"
2	1	700-31142	DECAL, NOT A LIFTING POINT
1	1	700-31130	DECAL "SINGLE PERSON ANCHOR POINT"

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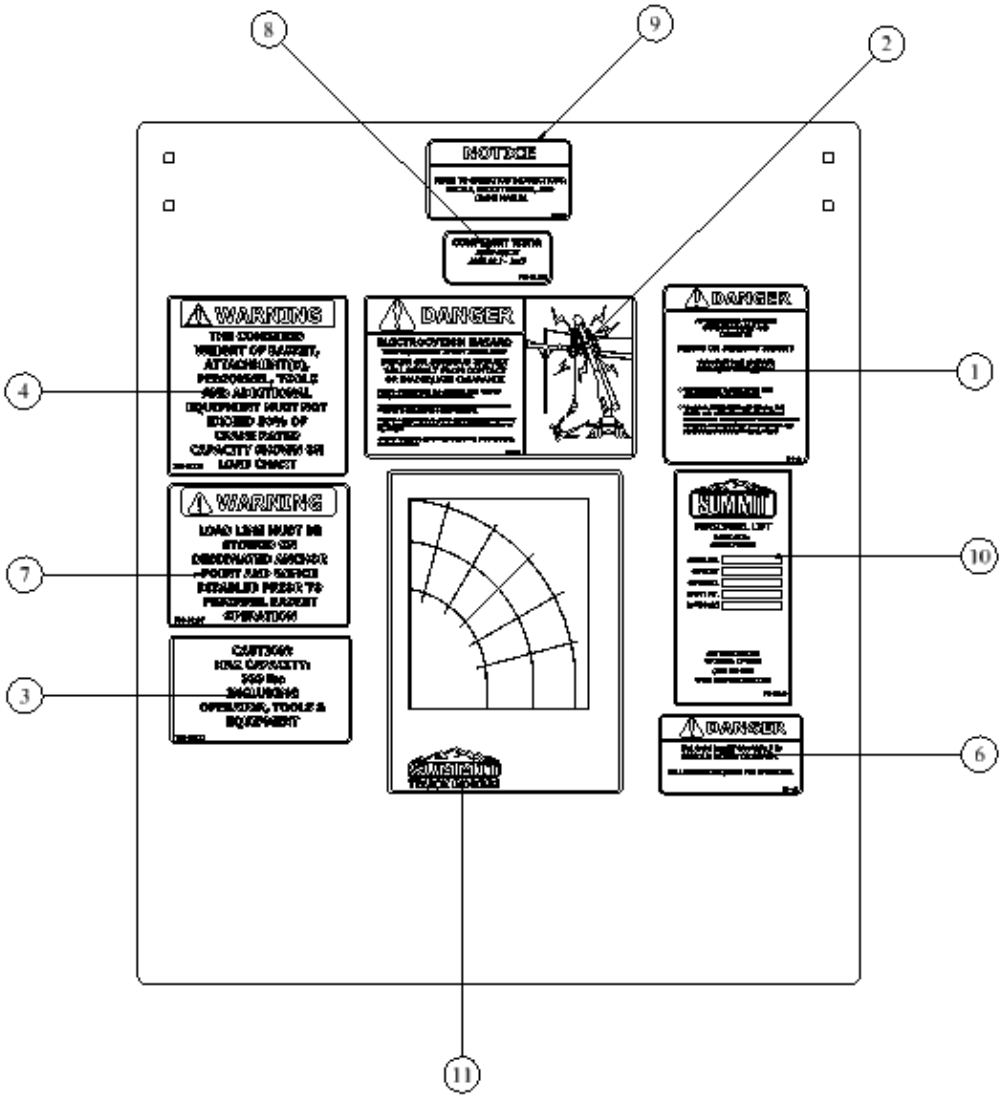
DECAL LOCATIONS



ITEM	QTY	PART NUMBER	DESCRIPTION
11	1	700-30416	DECAL, CAPACITY CHART 6620
10	1	700-31144	DECAL, IDENTIFICATION PLATE
9	1	700-31143	DECAL, REFEERENCE, OPERATION INSTRUCTIONS
8	1	700-31138	DECAL, STANDARDS COMPLIANCE
7	1	700-31137	DECAL, LOAD LINE MUST BE STOWED
6	1	700-31136	DECALS, DANGER, FALL FROM BASKET
4	1	700-31133	DECAL, PERSONNEL BASKET COMBINED WEIGHT
3	1	700-31131	DECAL, PERSONNEL BASKET CAPACITY
2	1	700-30349	DECAL, DANGER, ELECTROCUTION HAZARD
1	1	700-30022	DECAL, DANGER, UNTRAINED OPERATOR

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SPECIFICATIONS

Summit Single Operator Man Basket Specifications

Basket Load Capacity (Single Person).....300 lbs

Poly bucket weight……...…….....88 lbs

Aluminum basket weight…….…….135 lbs

Crane attachment weight……55 lbs

Basket attachment weight……...79 lbs

SECTION 1 – INSTALLATION

Before installation make sure the horse head is easily accessible with enough clearance to maneuver and install the personnel basket and the attachment pieces.

1.1 CRANE PREPARATION

Attach the winch cable bracket to the base boom. Run the winch cable up through the horsehead and hook on to the winch cable bracket - don't use the winch up function once the winch cable is placed onto the bracket. Remove the bolts from the sheave pins. Slide the pins out and remove the sheaves as well.

1.2 HORSE HEAD ADAPTER

Place the adapter piece onto the horse head. Put sheaves back in place and run pins through both the adapter and the sheaves. Fasten all bolts lock pins and adapter in place.

1.3 UPPER ARM

Place a pin into the lower of the two pin holes on the adapter. Lift the upper arm of the attachment onto the adapter piece letting it lock with the first pin. Then align the last pin hole on the adapter with the corresponding pin hole on the upper arm and place a pin into them.

1.4 LOWER ARM

Align the last pin hole on the upper arm with the pin hole of the short leg on the lower arm. Make sure the tapped holes are aligned with the curved slot and fasten the clamps into them.

1.5 BASKET ADAPTER

Bolt basket adapter to the bolts on the personnel basket. Then use the crane to place the lower arm in the basket adapter; extend and retract as needed to align the arm and the basket adapter when lowering.

Note: It may be easier to place the lower arm into the basket adapter first and then proceed to connect the lower arm and the upper arm.

1.6 WIRING HARNESS AND CONTROLS

Once all components have been installed connect each deutsch plug between parts. The six position switch panel has a longer wiring harness to allow it to be moved on the personnel basket; you may have to contain any slack in the wiring harness.

1.7 STOWING THE BASKET ON THE TRUCK

Make sure that the clamps are loose allowing the basket to swing freely. Position the basket above the storage compartment and slowly drop the basket into the compartment by using the boom down function as well as the boom retract and extend functions when necessary. The basket will need to be pushed away from the cab of the truck when lowering into the compartment. Once the basket is placed in the compartment unpin the lower arm from the basket adapter piece. Start lowering the lower arm through the basket adapter and retract when it becomes a tight fit. Do this to line up the top hole on the basket adapter with the top hole on the lower arm and place a pin through them. With the basket stowed, unpin the upper arm from the lower arm; unscrew the clamps and unhook the wiring harness. Pin the lower arm to the bracket at the base of the stow compartment and strap the basket down using ratchet straps.

1.8 UNSTOWING THE BASKET

Start by making sure the upper arm and horsehead adapter are both installed properly then make sure the lower arm and basket adapter are installed properly on their end. Next, move the boom if needed to align the pinholes of lower and upper arms. Once these are aligned, slide a pin through locking them together. Screw the clamps back into place and reattach the wiring harness. Unpin the bottom pin on the lower arm and the upper pin on the lower arm allowing the arm to slide freely through the basket adapter. Slide the lower arm up until the two lower holes line up with the holes on the basket adapter and pin those together. Remove any ratchet straps. Lift the basket out of the compartment, making sure to avoid hitting the cab on the way up.

1.9 STOWING THE BASKET ON AN 84” CA

Make sure the basket is resting on the ground and detach the upper arm from the lower arm. Then drop the lower arm to the ground by unpinning the lower pins and allowing the tube to slide; place the pins back into the tube securing it in the down position. Now take the upper arm off of the crane by unpinning the top pin and slide the arm over the other pin. There is a storage bracket in the truck bed; place the upper arm on the storage bracket, Figure 1, and pin it in. Run the winch cable back through the horse head and while installing the travelling block connect the winch cable to the dead man’s pin. Using the lifting point, designated by the decal, to lift the bucket assembly maneuver it over the truck bed and lower onto the raised platform. The clamps used on the lower arm can be used on the bottom of the basket leg to secure it onto the platform. Use ratchet straps, or some other device, on the front of the basket and the loops at the base of the basket to further secure the basket.

1.10 UNSTOWING THE BASKET ON AN 84” CA

To unstow the basket, start by taking the clamps and straps off of the basket so that it sits freely in the back of the truck. Use the crane to lift the basket assembly by the lifting point. Take notice of the environment and lift the basket out of the truck; make sure not to hit the surroundings when lifting the basket. Once out of the truck, place the basket on the ground and install the other components of the entire assembly.

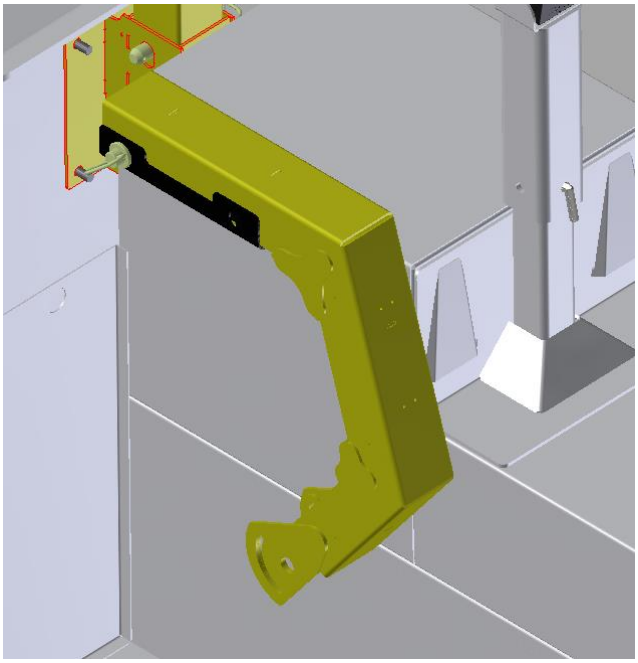


Figure 1: Storage bracket for upper arm

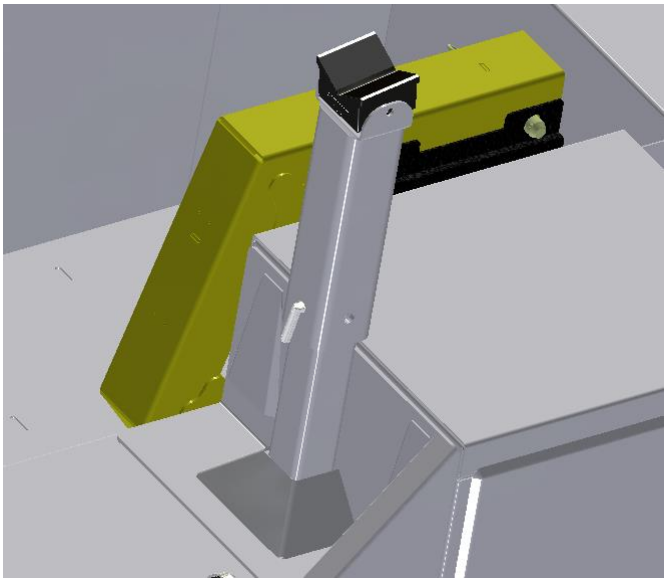


Figure 2: Storage bracket behind P1 compartment

SECTION 2 - OPERATION

2.1 GENERAL

For ease of operation, become familiar with your aerial bucket and truck combination. Practice operation without a load to get used to function of crane with bucket attachment in place. Do this prior to actually going to the job site to perform the job task. As with all jobs, there is an element of risk, so prepare the operator for emergency situations and, much like testing for a fire drill, they will master the situation with each practice.

2.2 LOAD LIMITS

Know your capacity limits before you start. Study the charts supplied with your aerial bucket, the Load Chart and the Angle Indicator Plate. Exceeding the limits within the radius of operation can result in tipping of the truck and/or structure failure, **voiding the warranty**.

2.3 EQUIPMENT INSPECTION

Inspections of all aerial basket components shall be done before each and every use of basket.

Safety checks must be current and made prior to the operation of the aerial bucket. Follow the guidelines listed above as well as the following:

1. Structural Soundness: Inspect the unit for damaged members and loose fasteners.
2. Hydraulic Oil Supply: With the aerial bucket in a stored position, and all cylinders retracted, check the oil level.
3. Leakage: Examine all of the visible hydraulic lines for damage or hydraulic leakage.
4. Controls: Test for proper control operation.
5. Wire rope: Ensure that it is tied back and can NOT get into a “two-block” or inadvertent pull situation, causing damage or failure of line
6. Repairs: Correct all observed defects and malfunctions before putting the unit into service.

2.4 OPERATING RESTRICTIONS

Guidelines for operating the equipment:

1. The truck must be level for all operation of the aerial basket.
2. The emergency brake must be engaged prior to any aerial bucket operation.
3. Engage the PTO while the truck is in a neutral position, and if the equipment is a manual, shift with the clutch pedal engaged.
4. The outriggers must be extended and setting on solid footings before operating the aerial bucket.
5. Ensure hoist cable is tied back to designated “tie-off” prior to operation
6. Never hoist during operation any higher than necessary to complete the task at hand.

7. Rotating the load too quickly will result in an unstable load and could cause injury or damage to the aerial bucket rotate gears.
8. Avoid power lines at all times during operation.
9. Lifting the rated load capacity should be the norm; over lifting will result in a safety failure or equipment breakage.
10. Never leave elevated basket unattended
11. The aerial bucket is designed to lift a single operator and should never be used to hoist material or multiple occupants
12. Due to the grounding of the aerial bucket, avoid electrical storms
13. Do not attempt to make repairs to a aerial bucket while it is in operation.
14. Operate the aerial bucket rotate slowly; full stroke activation of remote can cause abrupt movements and instability of operator
15. The aerial bucket will rotate up to 400 degrees; do not attempt a full speed stop with the rotation gear and occupied basket, as instability and undue stress on components may result

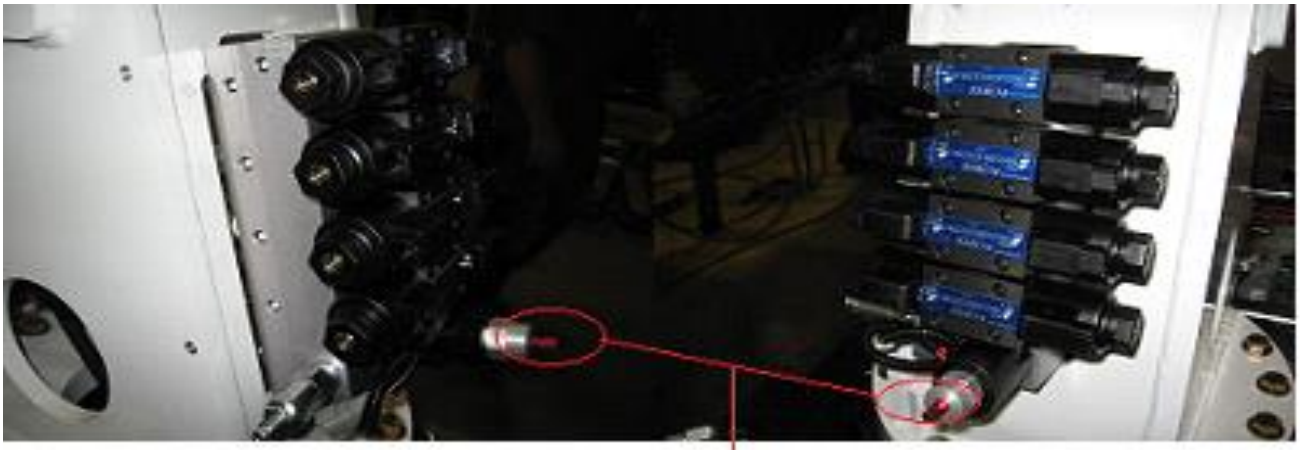
2.5 OCCUPANT LIFTING

50% of crane capacity is the designed and anticipated loading of basket and components. To ensure a safe lift, the aerial bucket must meet all manufacturer's' required mounting procedures. All lifts are to be completed with full extension of the outriggers, with the truck setting on a flat level surface.

2.6 MANUAL OPERATION

In the event electrical power loss of truck, the operator will be forced to contact an assistant at ground level to activate manual over-rides on crane. To override the remote, go to a manual operation of your crane. To do so, follow the guideline below:

1. To activate the flow control, locate the override screw on the block and turn it clockwise; full adjustment is three to five turns of the screw 360 degrees each turn.
2. Using a small screw driver, insert tip into the hole of the manual override and press in.
3. To deactivate the flow control, reverse the procedure -turn the override screw counterclockwise until it stops, approximately three to five turns.
4. Take the truck in for service as soon as possible to prevent future damage to equipment or yourself.



CRANE VALVE MANUAL OVERRIDE FOR PROP FLOW CONTROL

2

.7 TASK PERFORMANCE

Before using the aerial bucket it must be tested for the operational requirements of this aerial bucket.

1. Testing of all functions of the crane.
2. All safety devices must be operational.
3. All functional labels of the aerial bucket must match the operations of the aerial bucket.
4. Written reports for maintenance and repairs must be kept for future reference.

Think about the procedure prior to operation of aerial basket:

Get your truck and aerial bucket into a position as near to the job site as possible. Choose a solid level surface, and set your outriggers. In a more sandy soil you may want to use additional support under the outrigger legs, such as wooden cribbing. Know your surroundings; look for overhead power lines, tree limbs and/or any solid surface with which you may come into contact in the performance of the lift. To keep you and your equipment out of danger, give yourself a minimum clearance of the aerial bucket fully extended and a clearance of the obstructions at the job site.

Note: Power lines with the capacity of 50,000 volts or more require ten additional feet of clearance for any part of the aerial bucket, crane and service body. With each additional 30,000 volts or less, an additional one foot of clearance is required. When working near power lines, give them wide berth and make use of a secondary signal man at the job site if you do not have a clear field of vision.

You are now ready to put your truck/aerial bucket into action:

1. Engage the PTO.
2. Extend and lower the outriggers until firm ground contact is made. On soft ground, use bearing pads to prevent sinking. Use extreme caution when setting up near

overhanging banks or excavations. The outriggers must be extended to stabilize the truck before beginning operation.

3. Before extending the boom, always tie back the winch cable. Failure to do so may result in damaging the cable and cable failure. Summit Truck Bodies cranes are equipped with counterbalance valves located in the manifold block welded on the lift cylinder. This valve functions as a deceleration control and serves as a safety device locking the load in case of a hydraulic line breakage or in the event of accidental or unauthorized operation of the directional valve when the pump is not operating. The valve is equipped with a manual load release, which is to be used only in case of an emergency.

2.8 OPERATOR REQUIREMENTS

The aerial bucket should not be operated by just anyone on the job site. For your safety and liability prevention, you should limit the operation to people meeting the following scope of operation:

1. The person operating the aerial bucket must be trained and certified as an operator.
2. If the person is a trainee, he or she must be accompanied by a certified trained operator.
3. A crane inspector on the job site may have a need to inspect and operate your crane/aerial bucket; he or she should have credentials establishing that he or she is qualified to do the inspection.
4. To perform the preventative maintenance on your equipment, your maintenance crew will have to be certified and trained on the proper operations of the aerial bucket.
5. The operator must be competent and have a working knowledge of the aerial bucket, the safe operation of the aerial bucket and the owner's manual.
6. The operator should know your safety policy as well as the policies dictated by state or federal regulations, as well as job site guidelines for safety.
7. The operator must be able to perform all controls of the aerial bucket in a safe manner, while maintaining acknowledgement of his or her surroundings
8. The operator must read and understand all guidelines.

2.9 OPERATOR CONDUCT

As outlined above, the operator is responsible for the safety and welfare of themselves and others at the job site. They should follow the rules of conduct listed below:

1. No load shall ever be lifted during aerial basket operation
2. During operation, the operator must give his or her full attention to task at hand and all surroundings

3. All operations of the aerial bucket are directly in the control of the operator at the time of the lift.
4. A good PM policy must be followed by the operator for the safety and maintenance of the aerial bucket.

2.10 HANDLING THE OCCUPIED AERIAL BASKET

1. Know your aerial basket and the laden weight during operation of the equipment
2. Prior to operation, ensure that aerial basket and attachments are properly and securely affixed and pinned
3. Before operation, set the outriggers of the truck and stabilize the truck base.
4. Balance yourself evenly and position yourself as close to possible and in line with work area. Never lean or stretch out of basket to reach work. Never tie-off basket to equipment during operation
5. Screw clamps can be adjusted to provide slower, more controlled bucket movement during operation and elevation change
6. Once positioned, operator can lock down screw clamps above his or her head to provide a sturdier work situation
7. Keep yourself centralized in basket and avoid any abrupt movements, as this produces instability that could result in injury.
8. Avoid operation of basket while bystanders are below to avoid dropping tools or equipment on them
9. Smooth, gentle operation of the controls allows for a safe lift and movement; do not use sharp, jerking motions at any time during operation of crane

2.11 GENERAL PRECAUTIONS

To avoid an accident or injury, adhere to the following requirements:

1. Be sure your equipment is neat, clean and clearly marked; if anything is damaged, have it replaced immediately
2. Look at your capacity and stability charts before operation and understand that a shifting load can affect both capacity and stability
3. Center yourself within the basket to maintain balanced, controlled operation
4. Do not allow unnecessary shifting or swaying of basket
5. As with any piece of equipment, your aerial bucket has limits; do not attempt to over lift the capacity, and never try to lift an object with the crane while basket is in operation
6. Side loading of the aerial bucket will result in damage and/or failure of your crane rotation system.
7. Keep the occupied bucket away from bystanders during operation and never operate above bystanders
8. Make use of your PPE as required for operation

SECTION 3 – MAINTENANCE

WARNING: Read the Following before maintaining any part of the aerial bucket. Only authorized and trained service personnel are to perform maintenance

3.1 GENERAL

To prevent damage to the equipment, a daily, weekly, monthly, and quarterly PM should be established within your company to keep the equipment operating at maximum levels. Follow all safety practices before undergoing maintenance on your equipment.

1. Set the emergency brake, assemble basket in operation orientation and lower the aerial basket to a resting position, on ground or low enough to visually inspect attachment components. Remember your crane and attached basket can go to -5 degrees.
2. Disable the PTO by shutting it off
3. Manually attempt to override the remote, allowing for all reserve hydraulic pressure to be released.
4. Perform your company's designated PM and inspection on the equipment.
5. Replacement parts are available through Summit Truck Bodies.
6. Any worn or broken parts should be replaced at this time or as soon as noticed during routine operation

Service

To better service your aerial bucket, you may find it helpful to follow these guidelines:

1. Identify (knowing what the problem is generally helps you find the solution).
2. Repair or replace all worn items
3. Do (make any necessary repairs and or adjustments).
4. Check (function all operations of the equipment to ensure that all components are working properly with no interference or binding of components).
5. Put the aerial basket back into service.

3.2 INSPECTIONS

Daily Inspection

Before going to the job site each day, a visual inspection of the following will help prevent unnecessary maintenance:

1. Proper level of hydraulic system oil for correct crane operation
2. Evidence of broken structural components such as welds and loose fasteners

3. Leaking cylinder seals
4. Oil leaks at the engine, transmission, PTO and pump, power steering and hydraulic reservoir
5. Pin wear, bushing wear or metal fatigue at hinge and attachment points
6. Outriggers operate as specified
7. All safety devices are in place, in good working order and have legible labels
8. Inspect for cracks on basket/bucket at attachment point, corners, around door and at all edges.

Weekly Inspection

This inspection should be a routine and often easy inspection if daily inspections are being completed by competent personnel.

1. General inspection of lubrication capacities and levels
2. General inspection of all aerial bucket components for wear and tear

Monthly Inspection

Establish a set time every month within which the monthly inspections will occur. The inspection should occur at the same time every month.

1. Check the entire truck for leaks, engine, transmission, outriggers, hydraulic reservoir and all cylinders on the truck components
2. Lubrication levels are within specifications set by the manufacturer
3. Inspection of the aerial bucket itself including all attachment points both stationary and hinged
4. Check entire structure of the truck and components for broken welds, worn/missing fasteners and fatigued components
5. All safety devices are in good working condition and legible
6. Replacement of any non-conforming or questionable components

Quarterly Inspection

This inspection should include, but not be limited to, the following:

1. Any loose bolts on the crane and basket components
2. Metal fatigue or deformation at all pinned and bolted attachments
3. Secured wiring harness connections for 6 position switch panel

Caution: Routine maintenance insures trouble-free operation and protects your investment. All warranties are void if maintenance is neglected.

Notes:

1. Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered under Warranty or Product Liability.
2. Once a bolt has been torqued to its rated capacity and then removed, the bolt should be replaced with a new one.

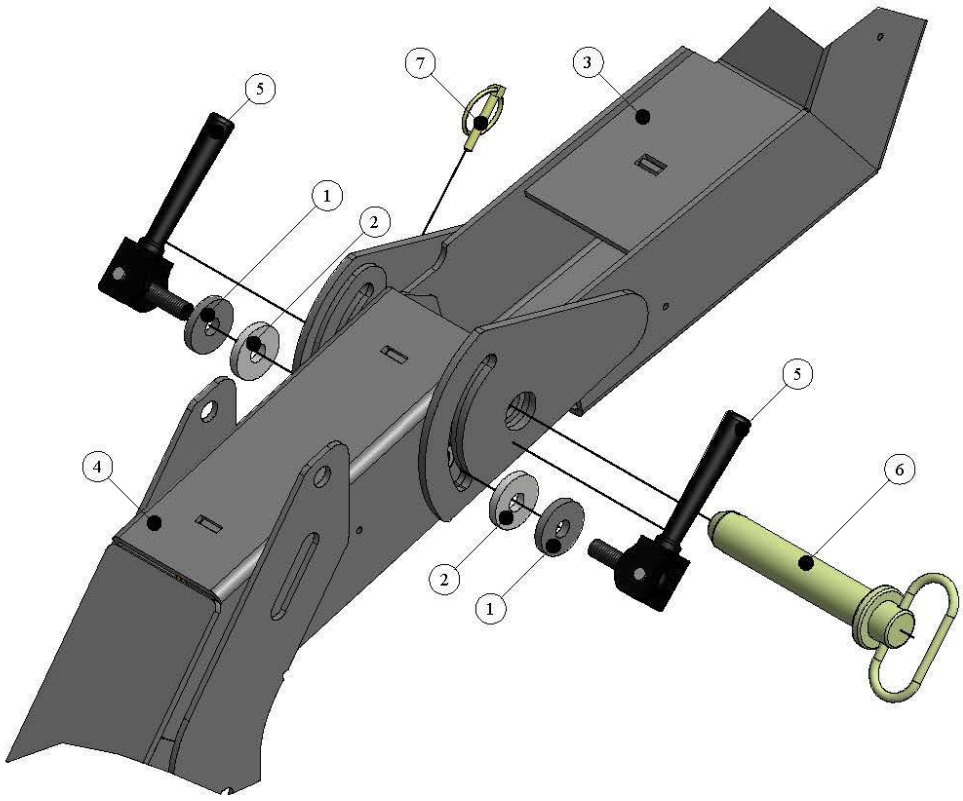
SECTION 4 - TROUBLESHOOTING

The following is meant as a reference in diagnosing on-the-job-malfunctions.

SYMPTOM	PROBABLE CAUSE/SOLUTION
Basket does not swing to level during elevation	Inspect clamp screws above operator to ensure one or both are not clamped tight Ensure pivot pin can still turn during unloaded state
Basket holds water during non operational times	Inspect and clean drain holes in bottom of bucket Summit can provide elastic cover if requested
Crane does not operate during fixed 6 position switch panel connection	Ensure wiring harness is properly connected at following points (switch panel, retracting cord top and bottom, crane adapter harness- both ends, at cord reel)
Crane does not operate during remote control	Replace batteries in remote or connect remote to wiring harness at end of crane
Crane acts sporadic during operation using 6 position switch panel	Speed derate setting not functioning during 6 position switch panel operation

For additional troubleshooting, refer to crane manual

SECTION 5 – PARTS



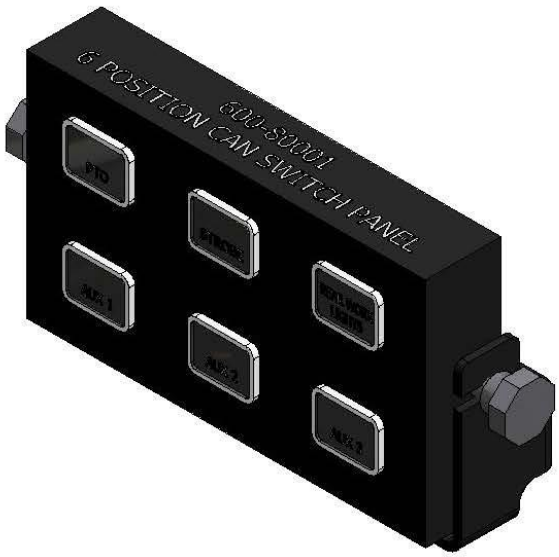
ITEM	QTY	PART NUMBER	DESCRIPTION
7	5	700-90049	.25 DIA. YELLOW ZINC LYNCH PIN W/ RING
6	5	700-90048	PIN,1.125 IN DIA,5.38 IN USABLE LENGTH, .25 IN HOLE
5	2	700-00151	DOUBLE CAM SCREW .5-13 THREAD
4	1	400-62056	LOWER ARM, BUCKET JIB
3	1	400-62033	UPPER ARM, BUCKET JIB
2	2	400-62010	WASHER, UHMW, .5 X 1.63 X .25 THICK
1	2	400-62009	WASHER .5 X 1.63 X .25 THICK

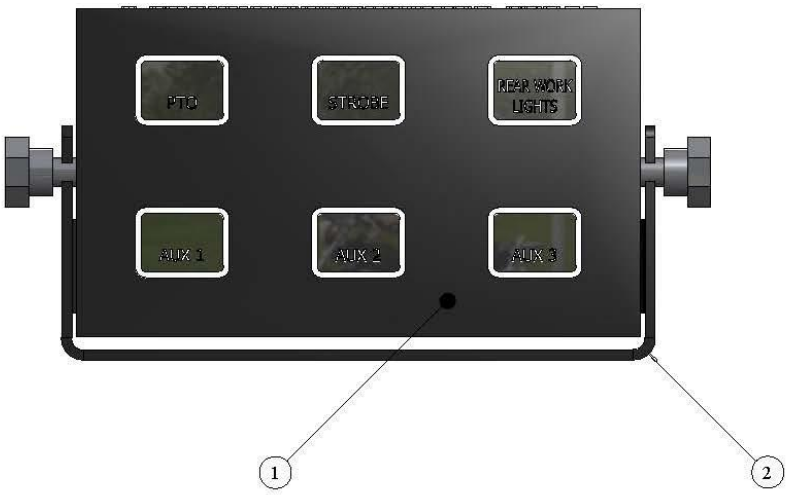
SUMMIT TRUCK BODIES
990 VERNON RD.
WATHENA, KS. 66090
PHONE: (785) 989-3100
FAX: (785) 989-3563

PART NUMBER

PARTS - PERSONNEL BASKET

6 POSITION CAN BASED SWITCH PANEL





ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	600-80001 BRACKET	DATA PANEL MOUNT BRACKET
1	1	600-80001	DATA PANEL MAIN CONTROL UNIT

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WATHENA, KS. 66090
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FAX: (785) 989-3563

PART NUMBER
600-80001