Air Baskets (ST-17, ST-19A & ST-26A)

WARNING

BEFORE operating these baskets, you must understand and follow the instructions in the 400540 Operator’s Manual. All baskets MUST have a copy of this manual, if one is not present with this basket; contact your local Spider Representative. You must be properly trained, in good health, and authorized to operate the basket. Failure to comply with these instructions could result in serious injury or death.

These instructions are not all inclusive. It is impossible for Spider to know, review, and instruct on every possible way this equipment may be used, and on all possible hazardous situations. Any deviation from the instructions in this operator’s manual may jeopardize the safety of yourself and others, and/or result in damage to the equipment.

DAILY INSPECTION REQUIREMENTS

The following must be performed at the start of each work shift. If the basket/drum fails any part of the inspection, DO NOT use until it has been repaired by a Spider certified technician.

INSPECTING THE FRAME

1. Thoroughly inspect frame for any cracks, bends, wear holes, excessive crushing, heat damage, and/or drilled holes.
2. Check all welds to ensure that they are not damaged.
3. Check transfer chain guard is intact and secure.
4. Inspect that the gate locking screw moves freely with the aid of a standard screw driver.
5. Top rail gate should open without excessive force.
6. Visual inspection of the tripod does not reveal any damaged such as being bent or cracked.
7. Check toe boards are complete and installed correctly.

INSPECTING THE WIRE ROPE

1. Inspect that the thimble is not crushed, bent and that the 5/8 Crosby shackle fits in the thimble.
2. Check that the wire rope is spooled properly on the drum. Improper spooling of the wire rope can lead to gaps in spooling of wire rope, leading to crossed layers, possible shape distortion, crushing of wire rope, prematurely shortening the life of the wire rope. While in operation, verify that the rope isn’t rusted, corroded, have broken wires, kinked, crushed or have wear areas.
3. Make certain that you have a minimum of 4 full wraps on the drum at the longest drop location.

DO NOT USE IF WIRE ROPE IS NOT SPOOLED NEATLY.

INSPECTING THE TENSION HOLDER/WIRE ROPE GUIDE.

The tension holder is designed to keep the wire rope tight on the drum when you must slacken the rope from the rigging. It is necessary to keep the wire rope evenly spooled on the drum to ensure level winding and avoid wire rope damage. The wire rope guide stabilizes the suspended stage with a minimal adverse effect on the wire rope.

Old Style

1. Visually inspect the rubber rollers daily and ensure is has a good hold on the wire rope.
2. If definite signs of wear are present, replace the tension holder.
3. Verify that the guide discs do not have excessive wear.
4. Inspect that there is no sign of wear on the top and bottom plate from the wire rope.
5. Inspect the guide discs for cracks, or any sign that the wire rope is cutting through them.

New Style

1. Inspect tension holder by making sure that you can’t pull the wire rope through the tension holder without any resistance when it is locked on the wire rope.
2. Inspect the new style wire rope guide. Verify the wire rope has not cut through the wear indicator.
3. Inspect that the tension holder and wire rope guide are not broken or damaged.

**INSPECTING THE WIRE ROPE LEVEL WIND SYSTEM (TILT CONTROL).**
The level wind spools the wire rope evenly on the drum when staging is suspended. It keeps the wire rope perpendicular to the drum by allowing the drum to tilt. A spring controls the amount of drum tilt. If the wire rope level wind system is not properly set on the Spider basket the wire rope will not wrap properly.

1. Check the upper and lower drum base do not reveal any cracks, elongated holes or crushing.
2. Check that both pivot pins rotate freely.
3. Operator should inspect the wire rope spooling on the drum to make sure it is stored neatly.

**VERSAL VALVE**

1. Check the versa valve to make sure that it goes back to the neutral position. The handle is spring loaded so that it will automatically return to the off position when released.
2. Test the basket by raising 3 ft off the ground or roof level, verifying system holds load and all controls operational.

**INSPECTING THE FILTER/LUBRICATOR**

1. Empty or drain the filter of all water before use. (This should be done daily and possibly more often in humid temperatures).
2. Check to see that oil level is at the fill mark.
3. While the basket is running, look through site dome to ensure that the oiler is set to 4-5 drops per minute in regular application. Set the oiler filter 6-8 drops per minute in harsh environments.

**Optional:**

**INSPECTING THE ARC GUARD KITS**
The arc guard protects the suspension wire rope by greatly reducing the chances of accidental contact with a welding rod.

1. Inspect for damage on all component parts.
2. Inspect that the clear tubing and doors on the drum protector are clean so that you can inspect the wire rope when in use.

**INSPECTING THE WIRE ROPE INSULATOR**
The wire rope insulator helps protects the wire rope from carrying current by becoming a ground lead.

1. Inspect that there is no broken strands on the wire rope.
2. Ensure there are no kinks in the wire rope.
3. Verify that the insulator is not crack or broken.

**INSPECTING THE GROUND DOLLY**
The ground dolly allows the Spider basket to be rolled across smooth surfaces such as concrete or asphalt.

1. Verify the ground dolly is securely attached to the Spider basket before raising it off the ground.
2. Inspect casters for damaged or broken pieces, and ensure all fasteners are installed and secured.

**Spider branch Local______________________________**

**Hoist Serial Number______________________________**

**Inspection by______________________________ Date_____________**