

Bridge Inspection Truck - Pre-operation Checklist

(To be completed daily or at beginning of each shift)

INSPECTION DATE:			
INSPECTION PERFORMED BY:			
OPERATOR(S):			
COMMENTS:			
UNIT #:		UNIT NAME:	
SAFETY	OK	COMMENT	N/A
Personal Protective Equipment:			
Emergency Rescue Plan:			
Operators Manual:			
Max Operating Slopes: 5% +/- grade & 8% Super			
Other:			
MAIN ENGINE COMPARTMENT	OK	COMMENT	N/A
Engine oil:			
Coolant:			
Washer fluid:			
Power Steering fluid:			
Transmission fluid:			
PTO & hydraulic pump:			
Drive belts:			
Air filter indicator:			
Other:			
CAB INSPECTION	OK	COMMENT	N/A
Hour meter / odometer reading:			
Decals:			
Air pressure:			
Oil pressure:			
12 volt charging system:			
Braking system:			
PTO indicator light and system:			
Two speed system:			
Axle lock lights:			
Strobe lights:			
Start/stop system: (Transmission in neutral)			
Tag axle system & pressure			
Intercom system:			
2-Way radios:			
Lights: 4ways, head turn, tail:			
Fuel level:			
Horn:			
Other:			

- START THE TRUCK ENGINE AND ENGAGE THE PTO
- MAKE SURE PARKING BRAKE IS ENGAGED
- TURN ON UNIT POWER SYSTEMS

WALK AROUND INSPECTION:	OK	COMMENT	N/A
(proceed around the unit in a clockwise direction)			
Lights: 4ways, head, turn, tail:			
Strobes, beacons or sign board:			
Transmission:			
Axles and suspension (front / rear):			
Tires (front / rear) – Condition & Tire Pressures:			
Axle lock structures (front / rear):			
Axle lock switches (front / rear):			
Hydraulic pump & hoses:			
Electrical switches & cables:			
Air hoses, outlets:			
Boom Arms & Body boxes:			
Ladders and rails:			
Counterweights & switches:			
Brakes (slack adjusters):			
Drive line:			
Other:			
AIR COMPRESSOR:	OK	COMMENT	N/A
Operational test:			
Air system hoses & valves:			
Electrical switches & cables:			
Gauges:			
Other:			
GENERATOR:	OK	COMMENT	N/A
Operational test:			
Electrical wires & connections:			
Circuit breakers and outlets:			
Instrument panel and meters:			
Other:			
HYD. TANK & OIL COOLER:	OK	COMMENT	N/A
Oil level gauge:			
Filter and gauge:			
Structure:			
Hydraulic hoses:			
Electrical switches & cables:			
Other:			
AUXILLARY ENGINE:	OK	COMMENT	N/A
Hour meter:			
Fuel filter, oil level & oil press:			
Coolant:			
Switches, wires, connections:			
Hydraulic pump & hoses:			

PREHEAT AND START AUXILIARY ENGINE: LISTEN FOR UNUSUAL NOISES, CHECK ENGINE OIL PRESSURE, CHARGING RATE, SHUT DOWN AUXILIARY ENGINE: THE AUXILIARY ENGINE WILL BE STARTED DURING THE OPERATIONS CHECK.

COMPONENT CHECKLIST:								
* See component checklist explanations	T-1	B-1	T-2	B-2	B-3	CATRAC B-3 TELE	B-4	PLAT- FORM
1. Cylinder								
2. Cylinder Anchor								
3. Structure								
4. Hydraulic Lines & Fittings								
5. Electrical Cables								
6. Pivot Pin								
7. Rotations: Gear, Bearing, Gearbox, Brake, Motor								
8. Limit Switches								
9. Pressure Filter								
10. Hydraulic Valves; Unit, Axle lock, Dump								
11. Leveling Rods								
12. Boom/Platform Rests								
13. Boom/Platform Tie-down								
14. Decals								
15. Platform Heaters								
16. Outlets; 12-volt, 110 volt								
17. Air Hose Outlet								
18. Platform Controls								
19. Leveling System								

(Shaded boxes don't apply to that area of the unit)

***COMPONENT CHECK LIST EXPLANATIONS**

COMPONENT:	WHAT TO LOOK FOR:
1. Cylinder	Leaks, scoring, rust pitting, cracks at pivot points
2. Cylinder Anchor	Visible cracks or damage, rusting
3. Structure	Visible cracks or damage, rusting
4. Hydraulic Lines & Fittings	Oil leaks, chaffing, kinks, abrasions
5. Electrical Cables	Loose or broken wires and connections, chaffing, abrasions
6. Pivot Pin	Visible cracks or damage, rusting
7. Rotations: Gear, Bearing, Gearbox, Brake, Motor	Wear, damage, oil leaks, broken bolts
8. Limit Switches	Bent switch arms, loose wire connections, LED functions
9. Pressure Filter	Oil leaks, check the indicator gauge
10. Hydraulic Valves, Unit, Axle lock, Dump	Free movement of the handles, return to neutral position when released, oil leaks, wiring connections secure
11. Leveling Rods	Cracks at pivot points, damage to rods
12. Boom/Platform Rests	Nylon wear pad secure, cracks, damage to structure
13. Boom/Platform Tie-down	Damage to nylon strap or ratchet
14. Decals	Unreadable, missing or damage decals
15. Platform Heaters	Broken switches or wires, secured to platform
16. Outlets: 12-volt, 110 volt	Damaged or broken wires, secure to platform, broken covers
17. Air Hose Outlet	Damage to hoses, coupling, regulator and gauge
18. Platform Controls	Proper operation of all functions, damage to components
19. Leveling System	Hydraulic Line; wire or switch; secure to the platform

Unit Inspection

OPERATIONS CHECK AND HOLDING VALVE TEST:

THIS OPERATIONS CHECK “MUST” BE PERFORMED PRIOR TO OPERATING THE UNIT.

The truck should still be running with the PTO engaged, set the truck RPM to the high idle position. Make sure that the platform leveling switch is in manual before you step on the foot switch.

1. Remove the boom/platform tie down device.
2. Engage axle locks, then the sliding counterweight (Red axle lock engage indicator will light).
3. Place the unit/axle lock selector switch to the “UNIT” position.
4. Test the air compressor.
5. Raise B-2 & B-3 up.
6. Raise B-1, approximately one foot above the boom rests.
7. Lower B-4 to a level position.
8. Unstow the platform to a level position.
9. Test the engine kill system at the T-1 location. Leave truck engine off.
10. NOW PERFORM THE HOLDING VALVE TEST, WATCH FOR BOOM DRIFT.
 - *Operate B-1 to the “DOWN” position for five seconds.
 - *Operate B-2 to the “DOWN” position for five seconds.
 - *Operate B-3 to the “OPEN” position for five seconds.
 - *Operate B-4 to the “DOWN” position for five seconds.
11. Raise the platform rests and lock them into place.
12. Start the auxiliary engine then use it to stow the unit.
13. Select the backup/generator switch to the “backup position”.
14. Lower B-1 tightly into the rests (about 900 psi on the hydraulic gauge at T-1).
15. Stow the platform with the switch in the manual mode. Leave the switch selected to manual.
16. Raise B-4 into the stowed position.
17. Place the unit/axle lock selector switch to the “AXLE LOCK” position.
18. Disengage the sliding counterweight and then the axle locks (Green axle lock disengage indicator will light).
19. Select the backup/generator switch to the “generator position”.
20. Test the basket heaters.
21. Test the engine kill system at the platform for the auxiliary engine. Press the engine kill button again to turn off the red engine kill light so the truck engine can later be started.
22. Test the intercom system at all locations then turn them off.
23. Install the boom/platform tie down device.
24. Turn off the auxiliary engine key and turn off unit systems including items in the truck cab.

WARNING: IF ANY BOOM MOVEMENT IS DETECTED DURING THE HOLDING VALVE TEST, PERFORM THE TEST AGAIN TO VERIFY WHICH BOOM IS DRIFTING. THE PROBLEM HOLDING VALVE(S) MUST BE REPLACED BEFORE THE UNIT IS PUT INTO SERVICE.

IF A DEFECT IS FOUND DURING THE INSPECTION OR OPERATIONS TEST THE UNIT MUST NOT BE USED UNTIL THE DEFECT(S) ARE CORRECTED.