

# BULLETIN

DATE: April 12, 2004

RIDE: GRAVITRON

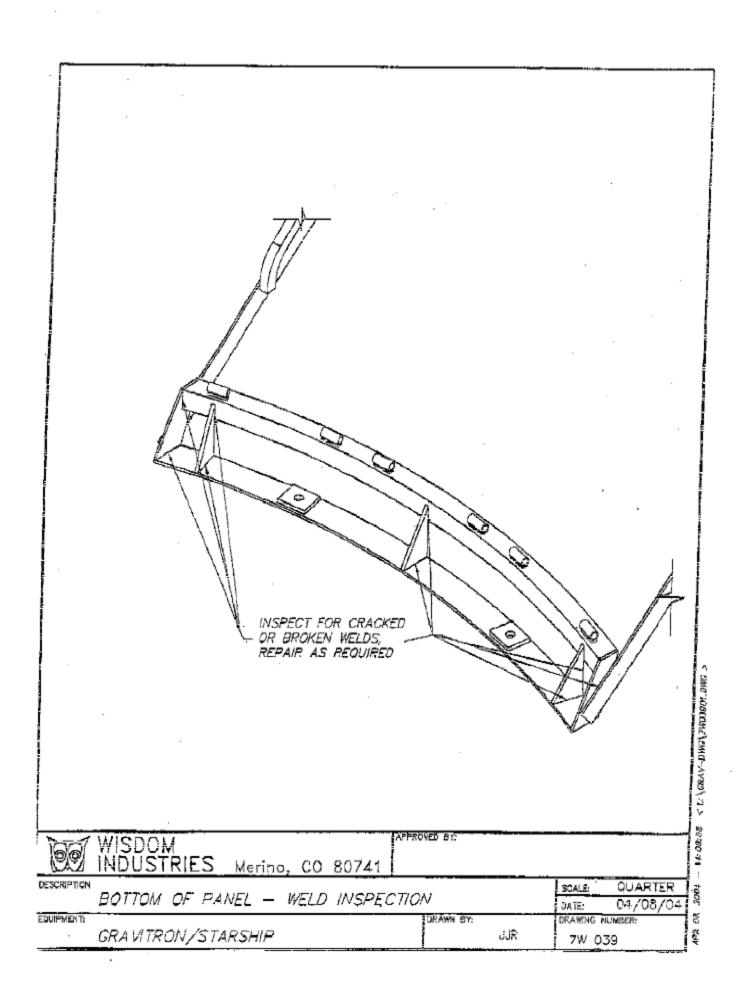
SUBJECT: INSPECTION PROCEDURE

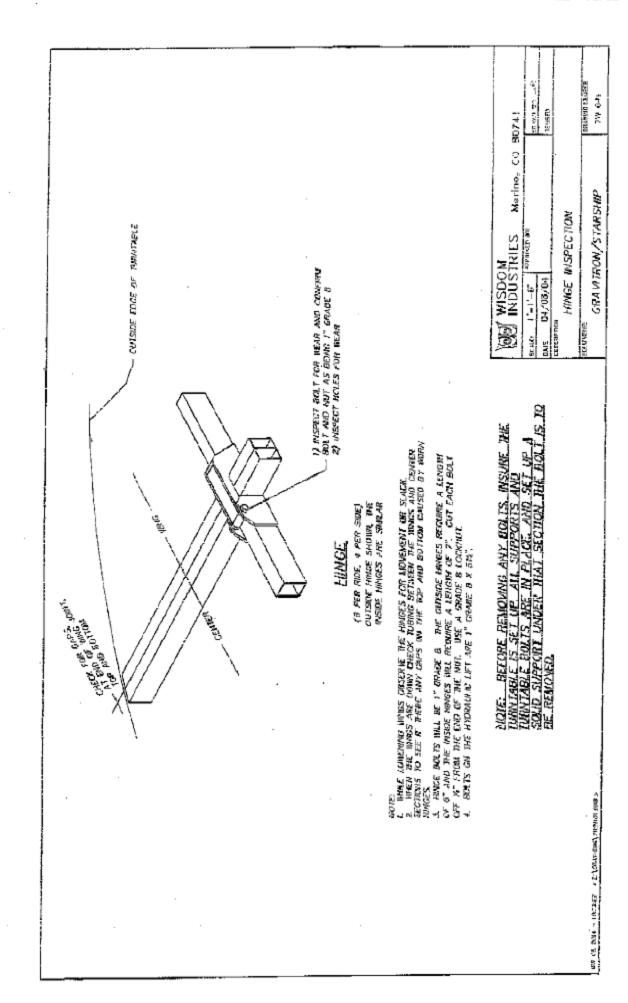
COMPLIANCE: IMMEDIATE

- Inspect the welds and steel components of the internal frame of each panel for cracked or broken components.
  - ✓ If broken components or numerous repairs have been required contact Wisdom Industries, for information on proper repair procedure. Weld cracked or broken components with 7018 rod using good welding procedure.
- 2) Check platforms hinges for wear.
  - ✓ The best time to check the hinge for wear is when the wing is
    folded. Hinge bolts can be removed one at a time and the hinge
    checked for cracks or wear in the hinge. \*NOTE: If the hinge
    bolt can be easily turned with the wing down check that hinge
    for wear.
- 3) Check platform hinge bolts for wear.
  - Check that the 4 outer main hinge bolts are in good condition. The hinge bolts must be grade 8. After the ride is set up if any of the hinge bolts can be turned that hinge and bolt must be checked for wear.
- 4) Check that the platform hinge bolts are grade 8.
- 5) Check tire air pressure for 35 psi.
  - ✓ Air pressure must be within 5 psi on all 4 tires.
  - \*Continued on next page

04/13/2004 13:08

- 6) Check wing level within 3/4 inch of main table.
  - Review procedure for checking wing level and shim wing if required.
- Check bottom strap to seat angle gussets for missing or broken gussets.
  - If bottom strap to seat angle gussets are broken or have been welded several times, replace gussets.
- 8) Check condition of the underwing alignment bolts. These bolts must be 7/8 diameter.
- 9) Check condition of the fiberglass at the lower end of the panel. If a large amount of fiberglass is missing under the floor strap or on the vertical section just up from the floor strap this must be replaced.







8-12-93

#### RE: LEVELING PROCEDURE FOR THE GRAVITRON TURNTABLE

The platform level should be checked annually.

#### Precedures

- Set up ride and ron two or three times.
- Lower the two outriggers or remove the idler tires.
- Measure up from one point on the ground near the end of the outrigger.
- Measure to the middle of the wing about where the turnbrockles attach for transporting the ride.
- Turn the ride on quarter turn and measure the center of the main part of the turnshis.
- Turn the ride another quarter turn and measure the center of the other wing.
- Turn the ride applica quarter turn and measure the other end of the turntable.
- The measurement should be plus or minns ½" of the main turntable.
- If the difference is greater than %" you should shim the wing up that is low

#### SEIMMING PROCEDURE:

- Loosen all the wedges on the panels.
- Release the pressure on the hydraulies by moving the control bundle with the pump turned off.
- Jack up on the end of the wing.
- Slide in a 16 gauge by 2" wide by 20 foot long piece of steel between the wing and main part of
  the terrable.
- Let off of the hydraulic jank and remeasure.
- After you have determined the proper thickness of shim tack it to the main part of the terretable so that it will not fall out when the ride is running.
  - WARNING! BE SURE TO TIGHTEN THE PINS AND WEDGES BEFORE OPERATING THE RIDE.

#### GRAVITRON CHECK LIST AFTER SET UP

## OUTSIDE RIDE CHECKLIST

- Check that trailer stands are tight.
- Check that 4 wing safety bolts are installed, tight, and safety keyed under the main turn table at the joint.
- Check that the outrigger braces, with the turnbuckle are pinned on the side with the low car.
- Check that the outrigger turnbuckles are snug. Do not over tighten.
- Check that the outneger brace pins are all installed and have safety keys.
- Check that skirting panels do not rub on idler tires and are not under the edge of the turntable.
- Check that inside curved fence is safety keyed under the floor.
- Check steps are level, stable, and no more than 8 inches to each step.
- Check that the fence is more than three feet from the largest diameter of the turning portion
  of the ride.
- Check that the cable in the canvas top is in the groove around the top of the ride panels and right.
- Check that work platform is folded back.
- Check grid sign binges and pins.
- Check gold sign braces for safety keys.
- 14. Check that top sign brackets are pinned and safety keyed.
- Check that top sign hooks are pulled down and fully engaged.
- Check that top sign is plugged in.
- Check that there is nothing on top of ride that can be thrown off while the ride is running.
- 18. Check that there is nothing that can fall onto the ride while the ride is spinning.

#### DRIVE SYSTEM

- Check that drive belts are hooked up and adjusted.
- Check that lock out on drive bolt adjusting turnbuckle is tight.
- are on the same wheel adjusting lackmets are fight.

- 22. Check that all wheel lug nuts are tight.
- Check that all three wheel brakes work.
- Check that idler tires have full tread contact.
- Check air pressure in all drive and idler tires, they should be about 35 PSL.
- Check that battery is filled with water and battery charger works.

9705222902

## INSIDE RIDE CHECKLIST

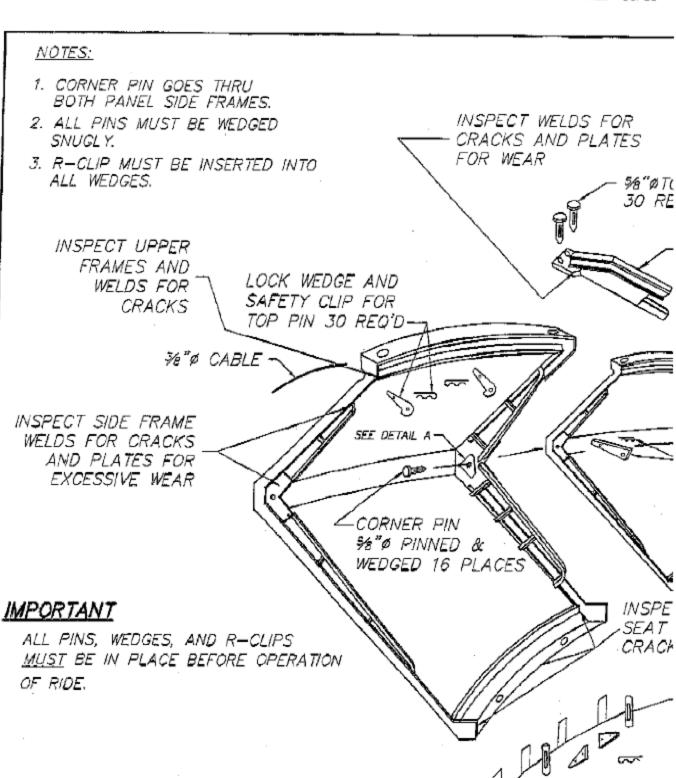
- Check that 30 special top wedges are the only wedges used to pin the top of the panels to the sweeps.
- Check that 16 corner pins and wedges are installed between panels behind couches. (See drawing showing pin installation).
- Check that 28 wedges are installed in the floor pins and are snug.
- Check that safety keys are in all wedges.
- Check that couch support trusses are hooked on looks.
- 32. Check all panel frames for cracks in steel signature at corners and at main frame welds.
- Check that all couches are evenly spaced and that the mounting bolts are tight. (If any are found loose use locktight but do not over tighten.)
- Check that seats move up and down smoothly without catching.
- Check that couplers between inside curved fence sections are all installed and princed.
- Check that door cables are in good condition and adjusted with equal tension.

#### DOOR CHECK LIST

- Check that the door cable clamps are tight.
- Check that door micro-switches are adjusted properly so that door opener stops at the right place.
- Check that the door does not slip down when the door is open.
- Check that trap door is unlocked.
- Check that there is nothing on the floor or console that is loose or can fly out while the nide is running.

## DAILY INSPECTION CHECK LIST

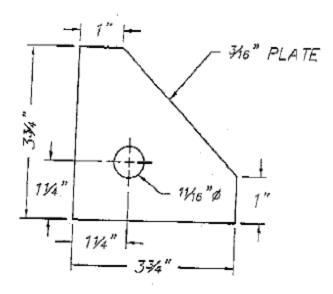
DAY <u>OUTSIDE</u>	
1 2 3 4 5 6 7	
CHECK	
( )( )( )( )( )( ) Stairs level and stable.	
( )( )( )( )( )( ) Fence at least 3 feet from barrel outside edge.	
( )( )( )( )( )( ) Work platform folded back. ( )( )( )( )( )( ) Top cable in groove and tight.	
( )( )( )( )( )( ) Work platform folded back. ( )( )( )( )( )( ) Top cable in groove and tight. ( )( )( )( )( )( ) Top is clear of any objects or tools.	
( )( )( )( )( )( ) Fence at least 3 feet from barrel outside edge. ( )( )( )( )( )( ) Work platform folded back. ( )( )( )( )( )( ) Top cable in groove and tight. ( )( )( )( )( )( ) Top is clear of any objects or tools. ( )( )( )( )( )( ) Trailer stands tight.	
( )( )( )( )( )( ) Trailer stands tight. ( )( )( )( )( )( ) 4 Turntable safety bolts tight and safety keyed.	
( )( )( )( )( ) 4 Turntable safety bolts tight and safety keyed.	
DRJVE	
CHECK	
( )( )( )( )( )( ) Drive and idler tires adjusted to touch rim.	
( )( )( )( )( )( ) Drive tire adjusting look nuts tight.	
( )( )( )( )( )( ) Drive belt right.	
( )( )( )( )( ) Drive belt right. ( )( )( )( )( )( ) Drive belt turnbuckle lock nut tight.	
( )( )( )( )( )( ) Tire hig muts are tight.	
( )( )( )( )( )( ) Tire pressure 35 PSI	
)( )( )( )( )( ) Skirting panels do not touch idler tires.	
)( )( )( )( )( ) Skirting is outside the edge of the turntable.	
Y Y Y Y Y Y Y NETSKER SEE DOSTIVE.	
( )( )( )( )( )( ) Brakes are positive. ( )( )( )( )( )( ) Ride clear under the turntable. ( )( )( )( )( )( ) Battery terminals tight.	
)( )( )( )( )( ) Battery terminals tight	
)( )( )( )( )( ) Battery filled with water.	
)( )( )( )( )( ) Charger turned on and operating.	
A A A A A A A A A A A A A A A A A A A	
INSIDE RIDE	
HECK	
)( )( )( )( )( ) 16 wedges and pins in corners of panels behind couches	
)( )( )( )( )( ) 30 top pins and hooked wedges installed in tops of panels.	
)( )( )( )( )( ) 28 Floor wedges installed on bottom of panels.	
)( )( )( )( )( ) All wedges and pins tight and safety keyed.	
)( )( )( )( )( ) All seat support trusses hooked.	
)( )( )( )( )( ) All couch mounting bolts tight.	
)( )( )( )( )( ) All cam followers turn easily and nuts tight.	
)( )( )( )( )( ) All conches move up and down easy. )( )( )( )( )( )( ) Trap door is unlocked.	
0 0 0 0 0 0 0 1 m² - 1 m to 1 could be 1	
)( )( )( )( )( ) All panel lights plugged in.	
)( )( )( )( )( ) Top of light controllers and amplifier clear. )( )( )( )( )( )( ) Floor and console clear of loose objects.	
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
A C C C C C C C C C C C C C C C C C C C	
)( )( )( )( )( ) Check panel frames for cracks in size structure.  DOOR	
HBCK ·	
A Company of the Comp	
0.000.000.000.000	
( )( )( )( )( ) Open and close stops are adjusted.	
( )( )( )( )( ) Opener clutch and brake do not slip.	
CO CO CO CO CO Com mide munols installed and minued.	



TURNTABLE FRAME -

PIN

OP SWEEP



# <u>DETAIL A</u>

CORNER PIN REINFORCEMENT ASTM A514 T-1 STEEL PLATE

LOCK WEDGE & SAFETY CLIP FOR PANEL CORNER 16 REQ'D

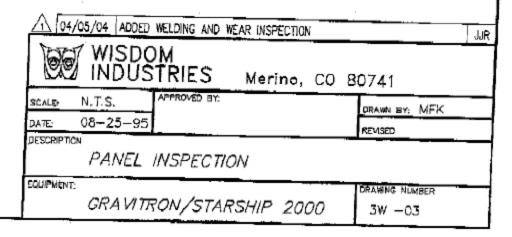


4

STRAPS, SIDE FRAME, GLES WELDS FOR AND WEAR

BOTTOM PIN ¾"Ø SCREWED INTO TURNTABLE, 28 REQ'D

LOCK WEDGE & SAFETY CLIP FOR BOTTOM PINS, 28 REQ'D



%″ø™ 30 RE

INSPE

SEAT.

CRACk

INSPECT WELDS FOR

CRACKS AND PLATES

FOR WEAR

#### NOTES:

- 1. CORNER PIN GOES THRU BOTH PANEL SIDE FRAMES.
- 2. ALL PINS MUST BE WEDGED SNUGLY.
- 3. R-CLIP MUST BE INSERTED INTO ALL WEDGES.

INSPECT UPPER
FRAMES AND
WELDS FOR
CRACKS

LOCK WEDGE AND SAFETY CLIP FOR TOP PIN 30 REQ'D

SEE DETAIL A

-CORNER PIN -%"Ø PINNED &

*WEDGED 16 PLACES* 

¾°ø CABLE

INSPECT SIDE FRAME WELD'S FOR CRACKS AND PLATES FOR EXCESSIVE WEAR

## <u>IMPORTANT</u>

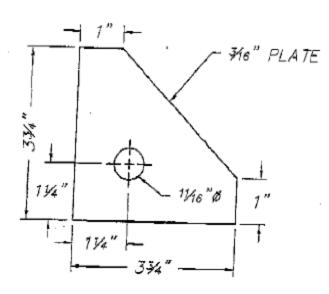
ALL PINS, WEDGES, AND R-CLIPS MUST BE IN PLACE BEFORE OPERATION OF RIDE.

TURNTABLE FRAME -

9705222902

PIN

OP SWEEP



# DETAIL A

CORNER PIN REINFORCEMENT ASTM A514 T-1 STEEL PLATE

LOCK WEDGE & SAFETY CLIP FOR PANEL CORNER 16 REQ'D



STRAPS, SIDE FRAME, GLES WELDS FOR

AND WEAR

BOTTOM PIN 34" & SCREWED INTO TURNTABLE, 28 REQ'D

LOCK WEDGE & SAFETY CLIP FOR BOTTOM PINS, 28 REO'D

