

12HKP3000 BRAKE SERVICING NOTICE

12HKP3000 Lighting Towers fitted with Electric Drum Brakes.

All Pit Master 12HKP3000 Series LED Lighting Towers fitted with electric drum brakes require testing and adjustment where necessary.

After a period of time there will be brake shoe wear and cable stretching. This will be evident in the travel of the hand brake lever. The brake rod that connects the hand brake lever to the individual brake cables can be adjusted by undoing the lock nut and winding it in to create more tension on the rod and cables. Once the travel of the hand brake is back to about half way along the locking notches on the tow hitch, retighten the lock nut. Adjustment is now complete.



Full Testing and Adjustment Procedure

To test apply hand brake and ensure it pulls on hard to about half way along the locking tabs on the tow hitch
OR

1. Jack the trailer completely off the ground by using the hydraulic stabiliser legs and place jack stands (X4) under the axles on each side. Then lower trailer onto the jack stands by retracting the hydraulic stabilizer legs. This action must be completed so that trailer weight is placed back onto the springs ensuring correct brake adjustment.
2. Rotate each wheel and check for drag on the drum from the brake shoes. There needs to be a minimal amount of drag to ensure the brake shoes are as close as possible to the drum face to ensure short travel giving optimal performance. This adjustment can be made by an adjustable link inside the drum which can be accessed through a hole at the inside top rear of the brake housing. A brake adjusting lever **or** screw driver is required to wind the cogged wheel **DOWN** to extend the brakes shoes, or **UP** to retract the brake shoes.
3. A single cable is used to link the hand brake lever to the front (only) drum brake levers. There is an adjusting rod at the hand brake end to adjust the cable. To adjust, undo the lock nuts and **WIND IN** to tighten or **UNWIND** to loosen. When completed cable should sit firm.
4. After adjustment rotate **ALL** wheels to ensure they spin freely with minimal drag.
5. Pull hand brake lever on and set locking tab. The hand brake lever should travel to at least half way on the locking notches on top of the tow ball or pintle ring hitch.
6. With hand brake applied manually try and rotate front wheels only. Wheels should be completely locked.

Electric Brake Testing

1. Pull lanyard clip from breakaway switch on the front of the draw bar to energise electric brake magnets.
2. Manually try and rotate all wheels. All wheels should be completely locked.
3. Replace lanyard clip to disengage electric magnets.
4. Manually try and rotate wheels. Wheels should spin freely
5. Road test and ensure electric brake system operates correctly.

Refer to 12HKP3000 Operation and Maintenance Manual for further servicing details.