



# **BOAT TRAILER MAINTENANCE MANUAL**

**Congratulations and thank you for your purchase of a quality Alycraft Trailer.** We pride ourselves on supplying the highest quality Aluminium trailers, designed and built for rugged Australian conditions. Like any vehicle, all trailers require maintenance.

## **Fitting your boat to your new Alycraft Trailer**

- **Set winch post to length of boat**
- **Check hubs for heat and let cool down prior to entering water**
- **Sink trailer**
- **Drive boat onto trailer & winch the last 500mm**
- **Drive trailer onto firm, level ground Check tow hitch weight and adjust axle group as required**
- **Adjust rear bunks and flippers as required**
- **Set winch post**
- **Adjust front bunks or wobble rollers to correct height**
- **Check tyre pressure - 45 - 65 PSI**
- **Test drive and check bearings and wheel nuts**

Always ensure correct tow weight prior to towing

## **GENERAL MAINTENANCE**

- **Grease Ezilube Axles and Tow Hitch**
- **Flush frame and components**
- **Check bearings every 3 - 6 months**

Refer to complete document for full and complete information to ensure warranty is not void

## BOAT FITTING

### Ensure your boat is adjusted to your trailer

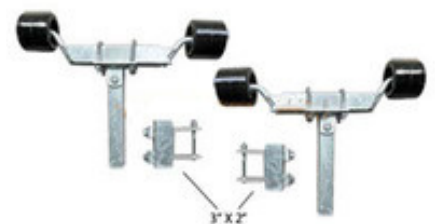
- Our trailers are designed as universal trailers, therefore they have two main adjustments - **Rear Bunks, Centre Keel Rollers, Guides and Front Wobble Rollers or Front Bunks.**
- **Bunks**, our trailers are designed to make it easy to launch and retrieve your boat, all of our trailers have bunks on the sides at the back of trailer, bunks help keep support your boat and keep it stable on the trailer.
- All of our trailers are fitted with **Keel Rollers these are not adjustable** . The strongest part of the boat is the keel therefore the keel rollers are designed to take 85 – 90% of the boat weight.
- **Front Wobble Rollers have** Two adjustments. The ability to move vertically and horizontally. Wobble Rollers have two purposes; 1. Providing boat stability on the bow, and helps guide the bow of your boat on and off trailer
- **Guides** (see image below) are positioned either side of the keel roller on some models of our trailers, Guides align the boat back to the centre keel roller in the event the boat is retrieved on an angle.
- **Secure Boat** Once the boat is fitted to the trailer correctly, the final task is to tie the boat down. A tie point is located at the front of the trailer, at the base of the winch post. Ensure you tie the front of the boat to the trailer. The other tie points are either side at the rear of the trailer. You will require a long ratchet strap . Place the strap over the rear of boat from one side to the other. Tighten strap to anchor the rear of the boat. A safety chain is positioned under the winch- this needs to be attached to the front of the boat.
- **Winch** The winch is only to retrieve the boat onto trailer, NOT to secure the boat to the trailer. **Tyres** Finally check tyre pressure and inflate to correct pressure usually around 40 - 55 PSI depending on the weight of the boat trailer combination
- **Bearings** Check bearings are adjusted after fitting the boat as the cones can move when loading the boat onto the trailer for the first time



**Guides**



**Bunks**



**Front wobble rollers**

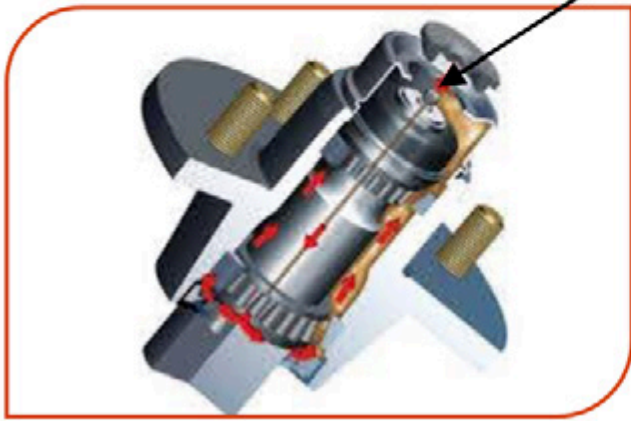
### CHECKS AND ADJUSTMENTS REQUIRED AFTER FIRST 5KM WITH BOAT ON TRAILER.

- Check and adjust wheel bearings
- Check and adjust brake cable as this can stretch during this period
- Grease the grease nipple on the 2 tonne tow hitch
- Check tyre pressures and inflate as required to correct PSI.

## EZILUBE GREASE SYSTEM

Ezilube grease system is fitted to all our Alycraft Trailers. Located at the end of the axle spindle is a grease nipple fitting. This allows you to lubricate the inner and outer bearings by having a pathway from the grease nipple on the end of the axle to the inner bearing. ... This causes the existing grease to be pushed toward the outer bearing and into the dust cap. Prior to your trailer entering the water, it is important to wait until the hubs have cooled.

Grease Nipple at end of axle



## WHEEL BEARING MAINTENANCE

Check wheel bearings and brake adjustment within the first 5km of using the trailer.  
Check and service wheel bearings every 3 -6 monthly for regular boat users. If the wheel does not rotate on the axle smoothly, replace bearings.

## **COUPLING**

Grease the coupling every six months or when no grease present on the shaft  
Check for tightness of all bolts and nuts

## **AXLES AND SPRINGS**

It is recommended to inspect suspension components at least twice a year for loose u-bolts and breakage of leaf springs. Spray axle, hubs and springs with lanox or similar product after washing trailer.

## **BRAKES**

Brakes require service every 6 months.  
Brake adjustment for the mechanical over-ride system can be adjusted at front pulley or adjustment bolt on callipers.  
Leave enough slack in cable to allow for flex while under-tow.

## **JOCKEY WHEELS**

When jockey wheel is swivelled from the horizontal position to vertical, ensure the spring loaded handle is operational and pins lock securely into both holes in jockey wheel mounting plate. Lubricate and Lanox regularly to keep rust away.

## **TRAILER LIGHTS**

Check lights are operational with no damaged lenses before each use, along with checking for cracked wiring.

## **TYRES**

Regularly check for the correct inflation pressure. Check tyres regularly for sufficient tread and uneven tyre wear. Tyre rotation should be carried out every 6 or 12 months depending on trailer use.

## **HAND WINCH**

Do not overload your winch, use it only for the application it has been supplied for on normal ramp conditions. Ensure winch strap is dry. If wet, unwind strap to dry out. This will avoid rust on drum and strap from deteriorating.  
Oil the winch shafts, bushes and gears as needed.

## **BEARING NUMBERS**

10" kodiak HUB inner :68149 outer :44649  
12" kodiak HUB inner :25580 outer :15123