



*World Leaders in Oil Spill Control Technology . . . Since 1960*

**\* WARNING \***

**THIS REEL IS EQUIPPED  
WITH A POSITIVE LOCKING SYSTEM  
AT THE LOWER RIGHT OF THE  
CONTROL PANEL.**

**DIS-ENGAGE PRIOR TO EACH USE**

## **SLICKBAR OIL BOOM REEL OPERATIONS GUIDE**

The oil boom has been designed for use in combating oil spills. Its purpose is to provide a quick response containment barrier for spilled oil floating on the surface of the water. The boom saves space on a vessel and/or pier because it is compactly stored on a reel.

The reel has a lifting ring at each corner that shall serve as lifting eyes and will also be used for lashing the unit down. **ALWAYS lash the unit down before beginning deployment.**

The boom can be deployed from ships, piers, platforms or beaches. When deploying from ships, care must be taken in the placement of the reel to achieve efficiency and safety during boom operations. The side of the reel toward the deployment direction should be a safe distance from the ship's stern rail. This distance ensures there is enough room for personnel to guide the boom onto the reel. Position the reel so that the free end of the boom will unspool from the top of the reel. There should be no sharp or rough objects near the deployment or retrieval path of the boom. Keep in mind that the boom may tend to angle to the deployment direction. For this reason, it is reasonable to allow a clear arc of 90 degrees to either side of the deployment direction. When possible, temporary stops should be welded to the deck to prevent reel movement. At a minimum, the boom reel base should be attached to appropriate anchor points on the deck using chain and load binders, with 3/4" shackles through the base D rings.

To set up the boom for operation, remove the hydraulic supply and return hoses from storage (the 1/2" hose is the supply). Connect the 1/2" hose to the quick disconnect marked "supply" which is located on the lower right of the reel control panel. Connect the other end of this hose to the supply hose quick disconnect located on the powerpack, this will be the bottom connection. Take the 3/4" hose and connect it to the connection marked "return" on the reel - the other end goes to the return on the powerpack.

To prepare the powerpack for starting, use the following procedure (this procedure is listed step by step in the powerpack operations manual): Ensure that the control lever on the reel is in the neutral position. Ensure that the selector valve located on the powerpack is in the depressurized position.

To turn the reel you must first make sure your connections from the reel to the powerpack are connected correctly. You may now pressurize the system. Push the control knob in to build pressure in the reel circuit. Ensure the bypass valve located on the reel control panel (labeled "warning") is closed. Pull the control lever on the reel in the deployment direction and the reel will turn - simply push the control lever in the other direction to change the direction of the reel.

## **DEPLOYMENT**

Deployment and retrieval operations are controlled from the boom reel control panel. A hydraulic pressure gauge indicates boom reel hydraulic pressure. The spool direction lever controls the direction of the spool. The speed knob adjusts the rotation speed of the spool. The reel speed is adjustable and can be adjusted to turn very slowly or up to 6 revolutions per minute. The speed should be adjusted so that a steady flow can be maintained by the deployment crew without jeopardizing anyone's safety. The speed adjustment can be made by the operator with an adjustable range of revolutions per minute. Turn the adjustment knob clockwise to decrease the speed and counterclockwise to increase the speed. The hydraulic bypass allows the spool to free wheel. This feature is useful when hydraulic power is unavailable. **WARNING:** *the disk brake lever must be used to slow or stop the spool when it is freewheeling.*

The boom may be deployed with a minimal crew, however, extra personnel is always advised. While one person operates the boom reel controls, a second person guides the boom over the side and assists as needed. If the boom is being deployed from a vessel, a second vessel should be standing by to assist in deployment. A second vessel is necessary if the boom will be towed in a U configuration for sweeping.

To prepare the boom for deployment, attach the tow bridle to the leading edge of the boom by inserting the quick release pins through the tow bridle and the end connector. Attach one end of a towrope to the tow bridle and secure the other end to the towboat. Ensure that the spool direction lever is in the neutral position. Instruct the towboat to put **light** tension on the boom. Slowly move the control lever to the deployment direction the boom should gradually feed off from the reel.

Once the boom is deployed it may be towed **end on** at high speed for transport to an oiled area.

To keep the boom in a stationary location, the boom must be anchored. The boom has anchor points located on the tension chain near the end connectors. Anchor lines can be secured to these anchor points with shackles.

## **RETRIEVAL**

To prepare for retrieval of the boom, ensure that any anchors are disconnected from the boom. If recovering the boom onto a vessel, the vessel should position itself such that the boom drifts downstream in a straight line to the boom reel. Recover the towrope and tie it to the reel core. Be sure to take a couple of turns around the core with the towline to decrease the force placed on the tow rope connection.

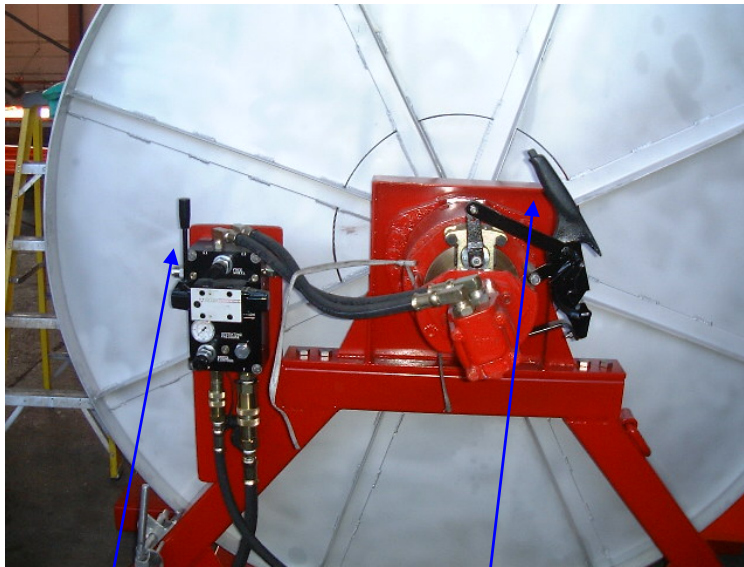
Four or more operators are desirable for boom retrieval. One person operates the controls on the reel control panel while a second operator takes position on the chain side of the boom to help guide the boom up onto the reel. It is important that the retrieval vessel maintains a constant speed through the water in a straight direction so that a slight tension is placed on the boom as it is being retrieved onto the reel. Keeping tension on the boom during retrieval prevents the last few sections from hanging loosely on the reel.

The operator at the reel control panel begins the retrieval process by gradually moving the spool direction lever toward the retrieval direction. Adjust the speed control knob on the control panel to a speed that the operators can handle smoothly. Ensure that the first end connector that winds onto the reel is parallel to the reel core. As the boom is retrieved, the operators in front of the boom reel should guide the boom back and forth so that the boom winds level onto the reel.

Once the entire boom has been recovered on the reel the operator should move the spool direction lever to neutral and set the parking brake.

### **MAINTENANCE AND REPAIRS**

All components of the boom and support equipment should be thoroughly cleaned after each use. Cleaning should be accomplished by using a high-pressure water jet. Water pressure should not exceed 1500 psi or boom damage may result. Steam cleaning may also be used. Steam should be limited to low pressure saturated steam not to exceed 30 psi. The boom should then be washed with a mild degreaser, such as *Dawn* dishwashing detergent. Boom components should be allowed to dry completely before storage.



**DIRECTIONAL CONTROL VALVE**

**BRAKING MECHANISM**



**REEL LOCKING MECHANISM**