

## TECHNICAL BULLETIN

APR 23  
TAP139

### RIGGING TECHNIQUES BLACKHAWK ORBIT WINCH PULLEY

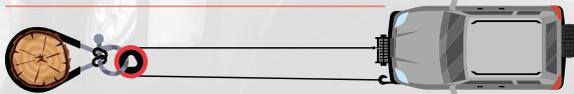
A new innovative product to reduce friction in winching recoveries improving lifespan of all winch ropes and soft shackles. The ORBIT WINCH PULLEY can be used with soft shackles and steel 4.70t bow shackles.

Winching can be one of the safest and most reliable ways of recovering vehicles that require recovery, providing you are aware of your surroundings and the loads being applied:

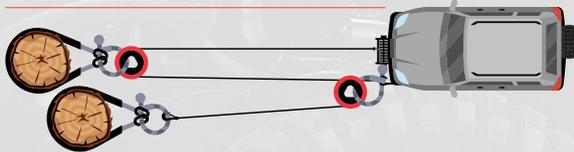
#### 1. SINGLE LINE PULL



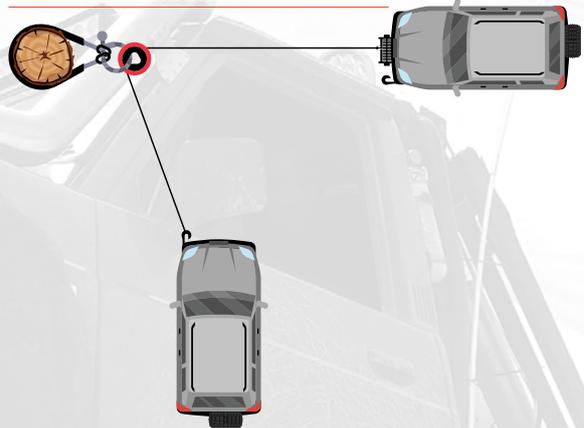
#### 2. DOUBLE LINE PULL



#### 3. TRIPLE LINE PULL



#### 4. DIRECTION CHANGE



#### 1. SINGLE LINE PULL

Is the most obvious technique for quick simple recoveries

#### 2. DOUBLE LINE PULL

Is used when the winch isn't powerful enough and you require additional mechanical advantage. This may be because the terrain is extreme, or you are towing offroad. Double line pull halves the load on the winch increasing the effective recovery load available and halving the speed of the recovery.

#### 3. TRIPLE LINE PULL

Is a serious recovery and extreme care needs to be taken, this scenario further slows down the recovery reducing the load on the winch by providing 3 x mechanical advantage. This means the load applied to your Tree trunk protector, shackles and equipment is getting significant and care must be taken.

#### 4. DIRECTION CHANGE

A great strategic approach to changing the direction the winch line is recovering from. Particularly helpful if assisting other vehicles, or needing to navigate around an obstacle etc.

It's imperative to regularly check your equipment for wear and tear, any abnormality in the equipment means it's time it should be replaced. Each time a hook, steel shackle, snatch block/pulley is used a dampener blanket is strongly recommended to be used in case of equipment failure. It's fair to assume most people would not have 2 or 3 winch dampener blankets in a social environment, a hoodie or jacket will do the job just as well in keeping you safer.



**PART NUMBER BHTO-R**  
**BARCODE 9319478665576**

**Note:** ROADS SAFE Winch Dampener blanket should always be used on any metal object in the recovery scenario.