



GETTING UNSTUCK

HARDKORR

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A POCKET GUIDE FROM **HARDKORR**

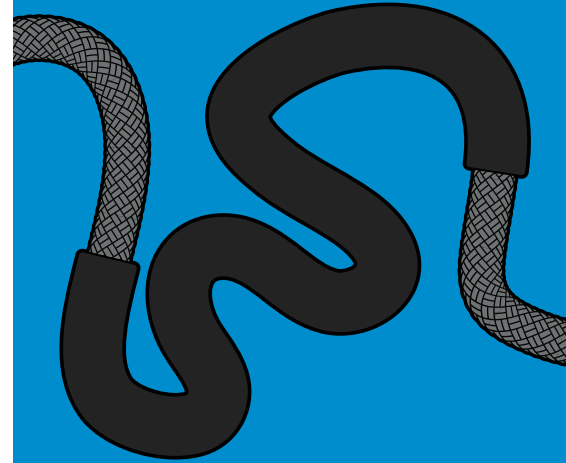


RATED RECOVERY POINT

A rated recovery point is a specific point on the front or rear of the vehicle purpose-built for **high-load** recoveries.

A **towball** or **tie-down** point is **NOT** to be used for performing a recovery.

Many vehicles don't have a dedicated point and aftermarket parts are required.



STATIC ROPE

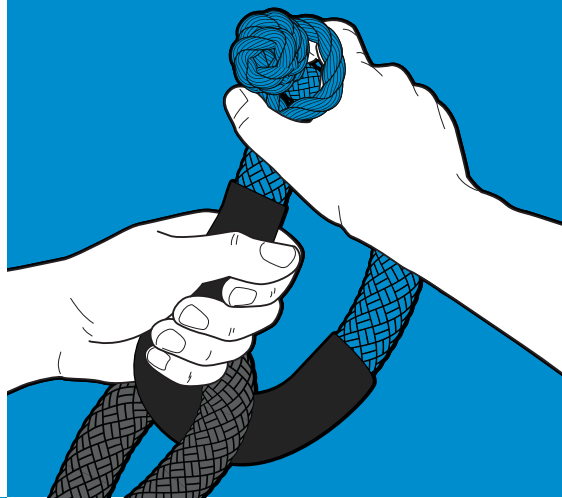
Static utility ropes are an alternative to traditional static recovery straps. In comparison to the stretchy kinetic ropes, static ropes are designed to hold their length which is crucial for use as a bridle for equalising pulling forces.

Due to its substantial thickness, it can be used as a tree protector.

SOFT SHACKLES

Soft shackles are the alternative to steel D-shackles when using soft recovery ropes. Given their lightweight nature, they are far less dangerous in the event of catastrophic failure.

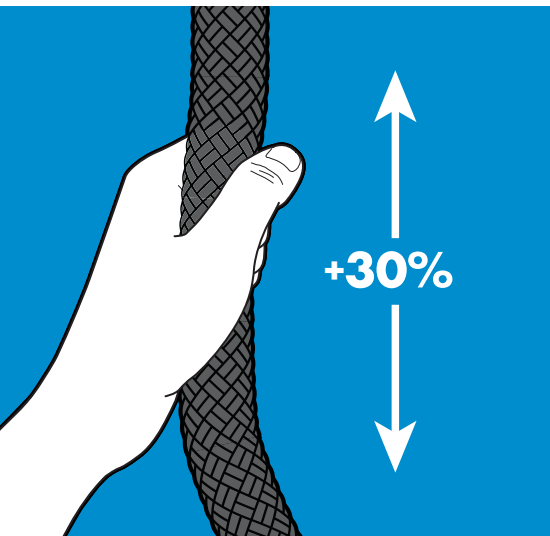
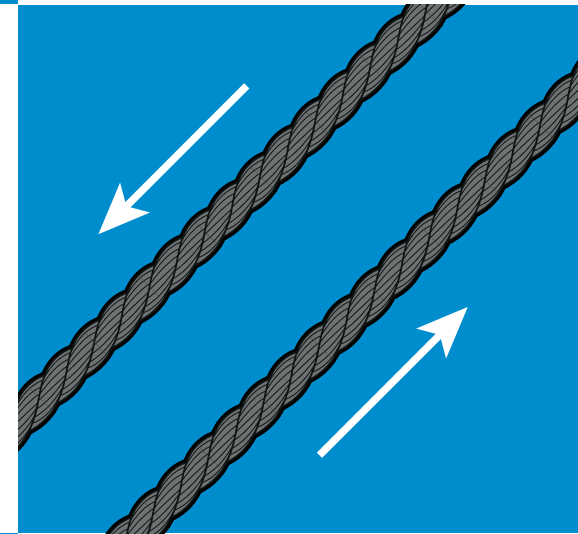
Soft shackles must only be used on rated recovery points with a rounded edge to them to avoid abrasion.



WINCH EXTENSION

The winch extension rope is a lighter alternative to heavy steel wire winch extension ropes. They're lightweight, easier to store and safer to use.

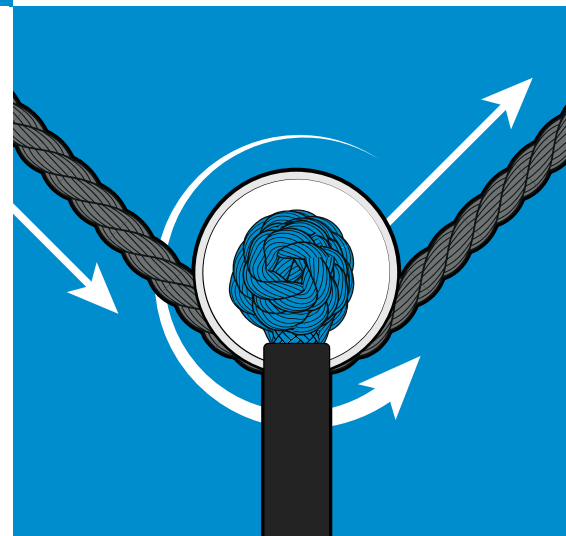
These ropes are perfect for getting extra reach when performing a double line winch recovery, greatly increasing the distance you can pull your vehicle.



KINETIC ROPE

Kinetic ropes are an alternative to traditional recovery straps. The main difference in these ropes is their greater elongation factor of 30% as opposed to around 20% for recovery straps.

The benefit of this greater elongation is a slower, more gentle application of force to the vehicle.



RECOVERY RING

The recovery ring is used in conjunction with soft recovery ropes as a way to redirect pulling forces in a different direction or back on itself to gain a mechanical advantage for winching.

These rings are typically secured with a soft shackle to allow free rotation. When anchored, you can run a winch rope or extension rope around the ring.



FIRST THINGS FIRST

Before you go any further, you should make sure you know the difference between **difficulty** and **danger**. We're here to help make things easier and therefore safer, but there are always risks associated with the forces required to move large vehicles that don't want to move! Be aware, and prepared.

- This guide assumes a second vehicle is present. Invite a mate!
- Passengers are to stand far away from the vehicles involved in recovery.
- Check your equipment. Worn or wet ropes can be hazardous.
- Ensure communication between drivers is clear and effective. UHF works.
- Prepare your area. Clear obstacles and dig around tires where possible.
- Plan your exit. When the car gets moving, make sure it's got a clear path.
- Do not exceed 15km/h during a recovery to avoid a collision.



WARNING! INCORRECT USE MAY RESULT IN INJURY OR DEATH!

Vehicle **OCCUPANTS** and **BYSTANDERS** have been **KILLED** by flying projectiles (such as tow balls) when recovery straps have been attached incorrectly.

NEVER attach recovery straps to vehicle fittings such as tow balls, tow bars, tie-down points or tow hooks.

ONLY attach recovery straps to an **APPROVED** recovery point/device that is suitably rated for use with the strap.

BEFORE attempting a vehicle recovery all passengers must exit the vehicles and stand as far away as possible.

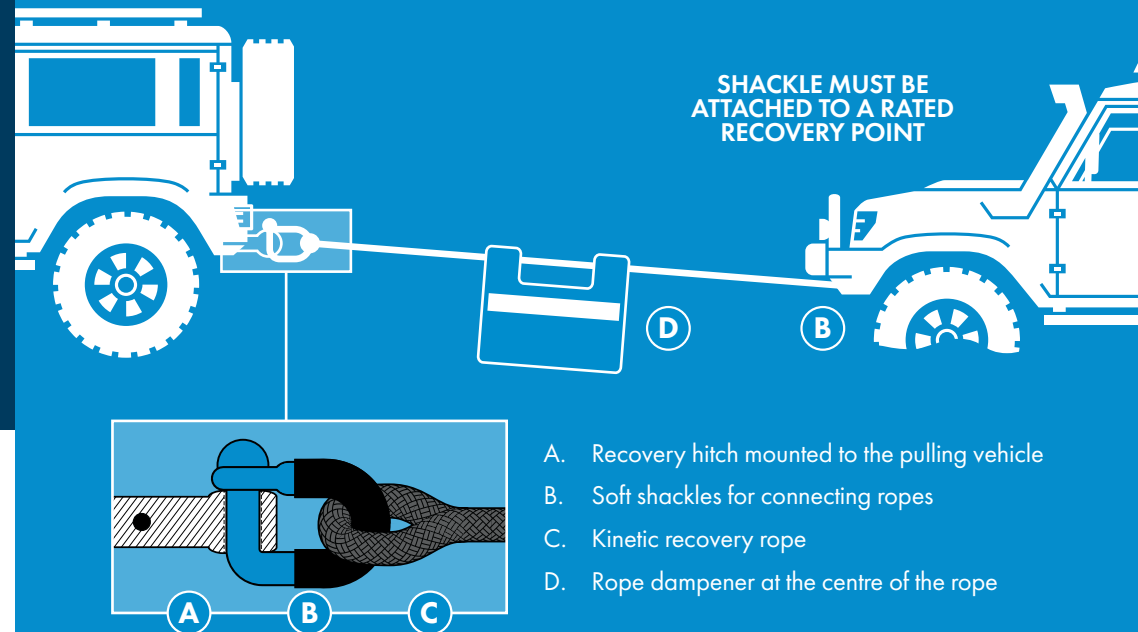


BOGGED IN SAND OR MUD

So you've been hearing about Rainbow, Stockton, Lancelin and the like, and wanted to get in on the action yourself. A bit too much pedal and you started to go down rather than forward. Thankfully the only damage is to your pride.

Here's how to get out of a sandy bog situation.

1. Position the **pulling** vehicle **ahead** of and aligned with the **bogged** vehicle, on more **stable ground**. Dig around the stuck tyres if needed.
2. Attach a **kinetic rope** to a **rated recovery point** on each vehicle, using a **soft shackle**. For added **safety**, drape a rope **dampener** over the **centre** of the rope. Move the pulling vehicle to **take up slack**.
3. Gently **accelerate both vehicles** and **maintain speed** to **pull** the stuck vehicle. Try again at an **increased speed** if still stuck. **Repeat** until free.



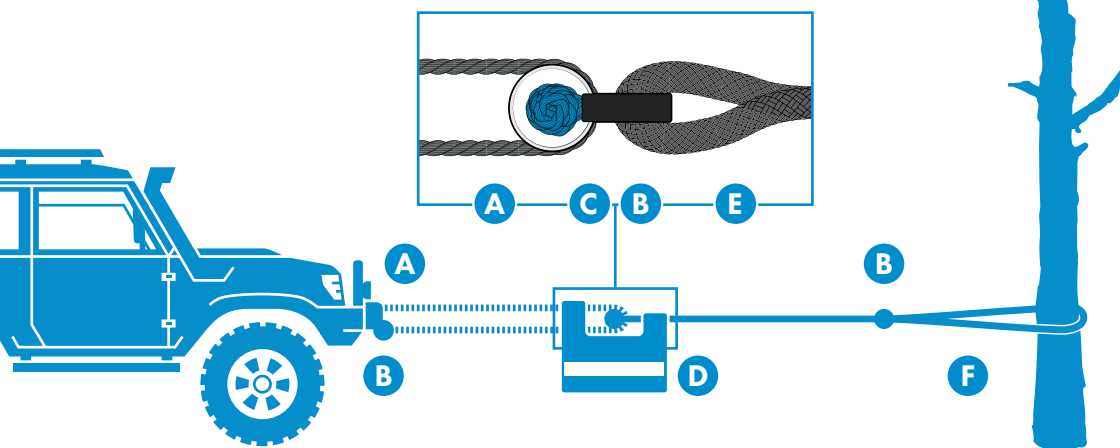
DOUBLE-LINE WINCHING

Say you're on a hill, and you want to be elsewhere but your engine's just not quite got it, and neither does your winch. Mechanical advantage is your new best friend. The physics involved is as close to magic as you're going to get.

Let's get you back on solid ground. And you don't even need a friend!

1. Make an **anchor** on a **thick tree** with a static utility rope, attaching it to a **recovery ring** with a soft shackle. If you need extra distance, put a winch extension rope in between this setup.
2. Let out your vehicle **winch rope** and seat it within the groove of the **recovery ring**. Attach it back to a **rated recovery point** on your vehicle with another soft shackle. Place the **rope dampener** over the **ring assembly**.
3. Slowly wind the **winch** in until the vehicle is in a safe, **stable position**.

- A. Winch + rated recovery point
- B. Soft shackle to connect rope
- C. Recovery ring + soft shackle
- D. Rope dampener
- E. Winch extension rope
- F. Static utility rope



GET TO KNOW THE RANGE

These kits come with different components for different uses, but it's good to familiarise yourself with the range. If you're stuck for solutions and need a bit of extra kit, we've got something for you.

Check out the complete range online at hardkorr.com

COMPONENT

MBS

WLL

SINGLE

BEACH KIT

WINCH KIT

12 PC KIT

3m Kinetic Recovery Rope	12,000kg	-	●			●
9m Kinetic Recovery Rope <i>(exclusive)</i>	12,000kg	-		●		
10m Kinetic Recovery Rope	12,000kg	-	●			●
3m Static Recovery Rope	15,000kg	-	●			●
3m Static Recovery Rope <i>(exclusive)</i>	12,000kg	-			●	
20m Winch Extension Rope	9,500kg	-	●		●	●
Heavy Duty Soft Shackle	14,000kg	-	●	●	●	●
Extra Long Soft Shackle	10,000kg	-	●			
100mm 10T Recovery Ring	20,000kg	10,000kg	●			●
100mm 12.5T Recovery Ring <i>(exclusive)</i>	25,000kg	12,500kg			●	
120mm 15T Recovery Ring	30,000kg	15,000kg	●			
Recovery Hitch	10,000kg	5,000kg	●	●		
Spare Wheel Utility Bag			●			
Recovery Kit Bag XL			●			●
Recovery Kit Bag <i>(exclusive)</i>					●	
Recovery Gloves			●	●	●	●
Recovery Rope Dampener					●	●
Dampener Bag Combo <i>(exclusive)</i>				●		

Correct at time of printing - July 2026