

FX

4x4 ACCESSORIES



4PC KINETIC KIT

+ OWNERS/INSTRUCTION MANUAL



SPECIFICATION:

Kit includes:

1 x 5m Kinetic rope

- + Length: 5m
- + Diameter: 24mm
- + MBS : 10,000kg
- + Material: Nylon PA6

2 x Soft shackle

- + Length: 60cm
- + Diameter: 11mm
- + MBS : 12,000kg
- + Material: UHMWPE

1 x Carry bag

GENERAL INFORMATION

A kinetic rope is a heavy duty nylon rope that can stretch and spring back to original length. The combination of the vehicle pull and the tension in the rope creates a 'snatching' effect that can pull a stranded vehicle free from being bogged or when the vehicle is unable to be moved under its own power. By following these guidelines the vehicle can be recovered without injury to people or damage to the vehicle and equipment.

KEY INFORMATION AND SAFETY RECOMMENDATION

- Check the kinetic rope, soft shackle for a stated Minimum Breaking Strength (MBS).
- It is recommended that the Minimum Breaking Strength (MBS) of the kinetic rope and soft shackle and should be between 2 and 3 times the gross vehicle mass (GVM) of any vehicle it is use with, and that the kinetic rope and soft shackle must be suited to the gross vehicle mass (GVM) of the lighter of the 2 vehicles used in the recovery process.
- Persons intending to use the kinetic rope should consider completing a nationally recognised four-wheel drive training course or contact a four-wheel drive club for comprehensive advice on the proper selection and use of the kinetic rope.
- The kinetic rope must not be used for lifting or conventional towing.
- Persons intending to use the kinetic rope must ensure that the kinetic rope is not damaged and is in a usable condition.
- The kinetic rope's strength and stretch are reduced when the kinetic rope is saturated with water.
- An object such as a recovery dampener, heavy bag or blanket must be draped over the kinetic rope during use to reduce any unintentional rebound of the kinetic rope.
- Before attempting the vehicle recovery, passengers of the vehicles involved must:

- + Exit the vehicles and,
- + Stand as far away from the vehicles as possible and,
- + Avoid standing in the path of the vehicle performing the recovery,
- + All persons must be kept at a safe distance from the motor vehicles, recommended to be at least 1.5 times the length of the un-stretched kinetic rope and must never place themselves in the path of the vehicles performing the recovery.

IMPORTANT

- Never attempt to recover a vehicle without all the necessary equipment.
- Only use equipment that is properly rated for the particular situation, if in doubt don't use it.
- Never exceed the Minimum Breaking Strength (MBS) of the kinetic rope and soft shackle, or the Working Load Limit (WLL) of the shackles.
- **WARNING:** The kinetic rope is not designed to be pulled in a side load direction. Improper side loading or recovery can lead to recovery failure and damage to either vehicle or persons.



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.

USING YOUR GEAR-5M KINETIC ROPE MINIMUM BREAKING STRENGTH: 10,000KG

Kinetic ropes are an evolution of the concept of traditional snatch straps. They allow for a longer elongation, creating a smoother recovery. To set up your kinetic rope on the vehicles, follow the

steps below:

1. Connect a kinetic rope to the stuck vehicle at a rated recovery point using a soft shackle (if appropriate, as some recovery points have sharp edges which may not be suited to rope).
 2. Lay the rope on the ground towards the pulling vehicle with an S-shaped curve to ensure enough slack. The curve should use around 1/3 of the length of the rope. You should now be able to position the pulling vehicle at the appropriate distance.
 3. Connect the other end of the recovery rope to the pulling vehicle at a rated recovery point using another soft shackle.
 4. Ensure all passengers and bystanders are clear of the area, and ensure both drivers are aware of the plan to recover. If a vehicle is being recovered from the rear of the vehicle, ensure the stuck vehicle is set in reverse to assist with the manoeuvre.
- Please note that the energy stored in the kinetic rope when under tension is exponentially proportionate to the speed at which the force is being applied. Doubling the speed that the recovery vehicle is pulling will result in a quadrupling of the energy being stored in the kinetic rope.

USING YOUR GEAR - SOFT SHACKLES

MINIMUM BREAKING STRENGTH: 12,000KG

Soft shackles are a lighter and safer alternative to the traditional steel bow-shackle. They provide the same function, but being made of a synthetic fibre rope rather than steel, in the unlikely event of failure, the soft shackle is going to do far less damage to the vehicle, and to the driver.

As there is still the potential for injury, treat the soft shackle the same as any with regard to keeping bystanders clear of the area and maintaining sufficient safety protocols.

One shortcoming of soft shackles is their sensitivity to abrasion. You must not use a soft shackle on a rated recovery point that has sharp edges without a machined radius to them. The point load experienced by the shackle can sever the fibres against a sharp edge and compromise the integrity of the shackle.

1. Check your soft shackle for wear or damage. If any rope fibres are severed, do not use the shackle as its strength could be compromised.
2. If the shackle is already closed, loosen the eye end of the shackle and free the knot end from the eye.
3. To prepare the soft shackle for attachment, make the eye of the shackle larger by pushing the

divided rope further down the solid rope section.

4. Pinch the enlarged eye to flatten it and pass it through a point of attachment you wish to utilise:

● A rated recovery point on the vehicle. (Please note, not all rated recovery points are appropriate for soft recovery equipment due to the presence of sharp edges)

5. Pass the eye over the knot end of the shackle.

6. Tighten the eye end again so that the eye tightly conforms to the rope it is now surrounding behind the knot.

7. Position the shackle so that the knot and eye are closest to your chosen attachment point. This provides the most compression on the shackle closure to help eliminate slipping or detachment.

SELECTING THE RIGHT RECOVERY KINETIC ROPE

It is very important to use a kinetic rope that is correctly rated for the recovery. A kinetic rope with a breaking strength that is too light for the recovery may break under load. A kinetic rope with a breaking strength that is too heavy for the recovery may not stretch properly, placing more stress on the recovery points and possibly causing damage or injury.

The Minimum Breaking Strength (MBS) of the kinetic rope should be between 2 and 3 times the gross vehicle mass (GVM) of any vehicle it is used with, and that the kinetic rope must be suited to the gross vehicle mass (GVM) of the lighter of 2 vehicles used in the recovery process. Be aware that the kinetic rope will be under greater load if the vehicle is bogged in mud, sand or heavily loaded. If the gross vehicle mass (GVM) is not stated on the vehicle's identification plate or registration certificate, it may be available from the owner's handbook or vehicle manufacturer.

KEEP PEOPLE SAFE

Only the drivers of the stranded and recovery vehicles should be in the vehicles during a recovery. Before attempting the vehicle recovery, passengers of the vehicles involved must exit the vehicles, and stand as far away from the vehicles as possible, and avoid standing in the path of the vehicle performing recovery.

SETTING UP THE RECOVERY

Assess the circumstances of the stranded vehicle. If it has bottomed out, clear out under the body

so it rests on the wheels. The recovery vehicle should be placed in line with stranded vehicle (no more than 10° off the straight line) for either a forward or reverse recovery operation. The distance between the vehicles should be 2-3 metres less than the un-stretched length of the kinetic rope. Establish agreed signals between the vehicle drivers using radios (preferably), hand signals or the vehicle horn.

CONNECTING THE KINETIC ROPE

- Carefully inspect the kinetic rope to determine that it is in good condition. If the kinetic rope is wet, dirty, cut or chuffed, it will not perform properly. A wet rope may reduce in strength by up to 20% and a damaged rope could break. Do not allow the rope to come into contact with hot surfaces or sharp edges.
- Roll the rope out between the vehicles making sure there are no twists and leave approximately 2-3 metres of slack between the vehicles. The kinetic rope can be joined to a traditional snatch strap via a soft shackle where additional length is required. Never use a metal shackle, such as a bow shackle to join ropes. In the event of a failure the metal object will become a missile and could cause serious injury, death or damage.
- Check your vehicle's handbook for the recovery point locations or use correctly rated and fitted aftermarket recovery points. **DO NOT CONNECT TO A TOW BALL OR TIE DOWN POINT.** Connect the kinetic rope to correctly rated recovery points on both vehicles. Shackles with the correct load rating (load ratings are marked on the shackles as WLL or Working Load Limit) **MUST** be used. Soft shackles are recommended but bow shackles rated to at least 3.2t are also suitable for this purpose. To correctly tighten the shackle pin, screw the pin until it seats then back it off approximately 1/2 to 1 turn. Over tightening may lead to seized pins from the force exerted during the recovery process.
- To reduce the risk of vehicle damage and personal injury, hang a suitable recovery dampener over the kinetic rope at its midpoints. This will restrict the whipping action of the rope should it break.
- Finally, check all the connections and clear bystanders to stand as far away from the vehicle as possible. **NEVER** allow bystanders standing in the path of the vehicle performing the recovery (Refer to KEEPING PEOPLE SAFE).

MAKING THE RECOVERY

1. Before the recovery operation begins, drivers must agree on the point to which the stranded vehicle will be recovered to. They also need to agree on the signal to use when that point is reached (radio, hand signal or horn blast).
2. With communications maintained between both vehicles and the kinetic rope secure, the recovery vehicle should gently accelerate to take up the slack, then proceed at approximately 10-12km/h. For best results the stranded vehicle should be in 1st gear (or 2nd Low) and should assist the recovery by trying to drive out approximately 3 seconds after the recovery vehicles starts to move.
3. If the vehicle is not recovered on the first attempt, check under the stranded vehicle for obstacles, reset the slack in the kinetic rope and try again with a little more speed. NOTE: Excessive speed or a continual jerking action while using a kinetic rope may result in damage to the recovery point, chassis, or drive line of both vehicles.
4. When the stranded vehicle reaches the agreed recovery point, the driver should advise the recovery vehicle to stop by using the pre-determined signal. After the recovery vehicle stops, the recovered vehicle should also stop (but not before the recovery vehicle has).
5. Where proper use of a kinetic rope is unsuccessful, use an appropriate sized recovery winch to recover the stranded vehicle.
6. Do not attempt to remove the rope until both vehicles are stationary and secured.
7. NOTE: Kinetic ropes require rest periods between use to allow them to return to their original length and capacity. Excessive pulls over a short period of time can cause heat build up resulting in possible failure.

GENERAL CARE AND MAINTENANCE

- Never allow your kinetic rope to rub against objects or hot surfaces.
- Avoid twists and kinks after washing, and when dry, always coil your kinetic rope for storage.
- Avoid contact with petroleum-based products, acids, or alkaline solutions when using the Kinetic Rope.
- Clean your kinetic rope with fresh clean water and a mild detergent, then allow for a thorough drying time before storage. Never dry out in direct sunlight. Foreign material such as sand and grit can permanently damage the rope fibres.
- Check the full length of the rope for nicks and cuts before and after use; if damaged, replace it.

- Never use the rope as a lifting sling.
- Inspect all equipment used for damage, before and after use.

WARRANTY

Our product is guaranteed to be free from quality and manufacturing defects for a period of 12 months.

If your product becomes defective during this period, SRGS PTY LTD will offer you either a replacement, credit or refund where a product is faulty; wrongly described; different from the sample shown to you or do not do what they are supposed to do.

This warranty will not cover substantially modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure. To claim the warranty, take the product to the front Service Desk of your nearest store of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim. Should you not be able to provide proof of purchase with a receipt or bank statement, identification showing name, address and signature may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you. For online store purchases, SRGS PTY LTD will pay for the return freight for any product assessed as having a major failure.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by SRGS PTY LTD, 6 Coulthards Avenue, Strathpine QLD 4500, Australia.

Phone: 1300 175 010.



PLU: 710933 CODE: ZT510
Manufactured & packaged for
SRGS PTY LTD
ABN 23 113 230 050
6 Coulthards Avenue Strathpine QLD 4500, Australia
MADE IN CHINA