QUALITY, VALUE & PERFORMANCE



TerrafirMa

Serious 4x4 Accessories





TERRAFIRMA PHILOSOPHY

Terrafirma (Latin meaning Solid Earth)

The Terrafirma range of accessories has been created to meet the exceptional demands of Land Rover users and enthusiasts. Distributed Internationally through Allmakes 4x4 authorized parts and accessory dealers Terrafirma has become one of the most recognized 4x4 accessory brands in the World.

Terrafirma offers choice, clear product identification and application, ensuring the correct product can be selected from the extensive and increasing range of accessories.

To satisfy the diverse requirements of 4x4 owners both on and off-road we have produced an amazing selection of accessories for Land Rovers. In particular Terrafirma suspension, which is by far the most comprehensive category including the largest range of upgrade shock absorbers, steering dampers, coil springs and suspension hardware available anywhere in the marketplace.

Terrafirma accessories are designed to fit using original or existing mounting points. Only minimal customising may be required with minor trimming or drilling needed to maximise the performance of the vehicle. Trends change and new vehicle models are introduced, as such new products are continually being evaluated and tested for introduction.

To compliment Terrafirma, in this catalogue you will also find products from premium accessory manufacturers such as Superwinch, Warn, Optima, Safety Devices, Green Cotton, Lightforce, Mammouth, Mantec, Front Runner, ARB, Hi-Lift, Safari, Eezi-Awn and National Luna.

These brands have been selected because they compliment the Terrafirma range providing a 'one stop shop' for all Land Rover preparation requirements placing Allmakes 4x4 as market leader in the distribution of specialist Land Rover accessories.

QUALITY, VALUE AND PERFORMANCE



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TERRAFIRMA SHOCK ABSORBERS

Terrafin to increase Land Response

Terrafirma offers the widest range of shocks including the All Terrain, Pro Sport, Extreme, Big Bore Expedition and Remote Reservoir. Correct selection of the most suitable shocks for you application could not be simpler.

It's worth remembering a shock absorber, even when charged with Nitrogen gas does not help support the vehicle. However Terrafirma shocks significantly improve stability and handling especially with high spring rates required for heavily loaded vehicles. It is also a myth that a shock designed in a certain way will be better off-road than on road, not so. A better shock is a better shock. The attributes required for a shock to perform well carrying heavy loads on corrugated roads or to withstand continual high impacts and still allow extreme articulation will all contribute to safer and better road manners.

Correct selection of replacement shock absorbers is critical in maintaining or improving your Land Rover's suspension. Shocks provide stability when cornering and braking, they maintain safe handling characteristics when driven hard, while towing and when heavily loaded. They also eliminate bounce and vibration improving driver and passenger comfort. Extended travel shocks allow for greater axle movement making sure the tyres stay in contact with the ground for maximum traction and control.

towing to extreme rock crawling, from fast trail and winding roads to long distance endurance rallies, Terrafirma has a shock to suit all applications ranging from standard length to as much as 5" (125mm) longer.

From heavy load carrying and

Terrafirma shock absorbers are designed to increase the performance of your Land Rover in all conditions by improving damping ratios, dimensions and specifications as well as shock travel. Terrafirma shocks are guaranteed to be stronger and better performing, keeping wheels on the ground even in extreme terrain.

TERRAFIRMA SHO	TERRAFIRMA SHOCKS APPLICATION GUIDE													
VEHICLE	DEFEND	ER 90	DEFEND	ER 110	DEFEND	ER 130	DISCOVE	RY 1	DISCOV	ERY 2	RANGE ROV	ER CLASSIC	RANGE F	OVER P38
SHOCK MODEL	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR
ALL TERRAIN	TF116	TF117	TF116	TF117	TF116	TF117	TF116	TF117	TF118	TF119	TF116	TF117	TF125	TF126
ALL TERRAIN +2"									TF127	TF128				
PRO SPORT +2"	TF120	TF121	TF120	TF121	TF120	TF121	TF120	TF121			TF120	TF121		
EXTREME +5"	TF122LT	TF122LT	TF122LT	TF122LT	TF122LT	TF122LT	TF122LT	TF122LT			TF122LT	TF122LT		
BIG BORE EXPEDITION	TF129	TF130	TF129	TF130	TF129	TF130	TF129	TF130			TF129	TF130		
BIG BORE EXPEDITION +2"	TF123	TF124	TF123	TF124	TF123	TF124	TF123	TF124			TF123	TF124		
REMOTE RESERVOIR +2"	TF401	TF402	TF401	TF402	TF401	TF402	TF401	TF402			TF401	TF402		
REMOTE RESERVOIR +5"	TF403	TF403	TF403	TF403	TF403	TF403	TF403	TF403			TF403	TF403		



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TERRAFIRMA ALL TERRAIN SHOCKS

A great all rounder, the Terrafirma All Terrain shock is a favourite in any conditions and any environment. From the construction site to the motorway, running light or fully loaded, simply replacing tired old shocks or heading off-road, you can't go wrong.

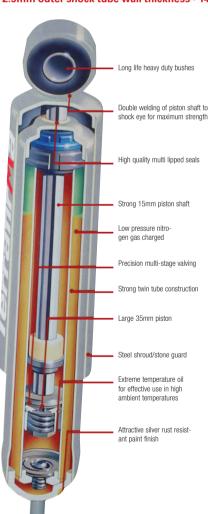
The All Terrain shocks are a tough twin tube design which allows for a large volume of oil for cooler internals and improved protection of working parts. Low pressure nitrogen keeps the oil under pressure which prevents it from foaming and creating cavitation which eventually results in heat build up and shock fade.

Terrafirma All Terrain shocks are built with the largest possible fully welded mounting pins and rubber bushes for maximum strength and durability. Tough enough to handle the punishment of recreational off-roading yet refined to provide a comfortable, well balanced and controlled ride on road.

Finished with a high quality deep silver paint to resist corrosion for long lasting good looks and including the smart Terrafirma All Terrain shock absorber logo. Terrafirma All Terrain shocks are the perfect replacement for existing shocks and yet can also accommodate up to 2" (50mm) of lift using Terrafirma coil springs. 2" longer All Terrain shocks are also available for Series 2 Discoverys.

Features include:

35mm internal bore and piston • 15mm double chromed shaft • Nitrogen charged • High temperature fluid 2.5mm outer shock tube wall thickness • 14mm mounting pins



APPLICATION	90/110/130	D1/RRC	D2	P38
FRONT	TF116	TF116	TF118	TF125
REAR	TF117	TF117	TF119	TF126
FRONT +2"			TF127	
REAR +2"			TF128	





TerrafirMa



TERRAFIRMA PRO SPORT SHOCKS

The most popular shock for off-roading Land Rover owners, the Terrafirma Pro Sport is a true +2" (50mm) longer than standard allowing much greater wheel travel. The advantages when driving off-road are remarkable as these shocks are built with hard core use in mind. Fitted with velocity sensitive valving means the shock will automatically adjust its internal damping to suit driving conditions, the harder you punish them the better they work. When it comes to the drive home you'll really notice the superior ride quality and handling.

The Pro Sport shocks are a super tough twin tube design with a massive 20mm shaft and 40mm piston. Low pressure nitrogen keeps the oil under pressure that prevents it from cavitating which causes shock fade, something the Pro Sport is never troubled with.

Common with all Terrafirma shocks, Pro Sports are built with the largest possible fully welded mounting pins and rubber bushes for maximum strength and durability. Visually these shocks are striking and stylish, finished with a high quality deep silver paint to resist corrosion and including the smart Terrafirma Pro Sport shock absorber logo, a bright blue flexible polyurethane gaiter protects the double chromed shaft from stone damage.

Terrafirma Pro Sport shocks are a big step up in performance and quality and are perfect when combined with Terrafirma coil springs to give a 2" (50mm) with a corresponding increase in wheel travel

VEHICLE	DEFENDER	90/110/130	DISCOVE	RY 1/RRC
SHOCK MODEL	FRONT	REAR	FRONT	REAR
PRO SPORT	TF120	TF121	TF120	TF121
EXTREME LT	TF122LT	TF122LT	TF122LT	TF122LT



TERRAFIRMA EXTREME LONG TRAVEL SHOCKS

The challenge to conquer the largest rocks and deepest ruts is hugely appealing to hard-core Land Rover drivers. Whether you're in competition or just driving for fun. Keeping the tyres in contact with the ground and the vehicle stable is crucial to successfully mastering the roughest terrain. Long travel suspension is not new, however achieving great performance, control and reliability is more than just fitting any old long travel shocks.

Built to exactly the same tough specifications as the Pro Sport shocks including velocity sensitive valving, huge 20mm shaft, 40mm piston and fully welded mounts. The main difference is that the Terrafirma Extreme LT shock is 3" (75mm) longer and a massive 5" (125mm) longer than standard. Amazingly the Extreme shocks share the same high quality ride and handling on the road yet allow enormous wheel travel when off-road.

Specific valving has been developed to allow the same shock to be used front and rear giving bump killing performance and unrivalled strength and flexibility in the serious rough stuff.

The Terrafirma Extreme shock is constructed with pin mountings top and bottom which directly replaces the original front shock. The traditional rear top eye mount on the All Terrain and Pro Sport shocks however will not accommodate the extreme articulation achieved with the Extreme shocks. To enable a rear pin top mount shock to be fitted requires a special mounting kit TF519. The kit comprises a pair of brackets and all necessary nuts and bolts.

Features include:

2" (50mm) Pro Sport and 5" (125mm) Extreme LT longer than standard 40mm internal bore and piston • 20mm double chromed shaft Velocity sensitive valving • Nitrogen charged • High temperature fluid 2.5mm outer shock tube wall thickness • 14mm mounting pins





TERRAFIRMA BIG BORE EXPEDITION SHOCKS

Heavy trucks need heavy suspension, Terrafirma has developed the Big Bore Expedition shock specifically for fully laden Land Rovers such as overland and utility vehicles. The Big Bore Expedition shocks are designed to handle the battering experienced when travelling over rough terrain while providing stability and control with top heavy vehicles at both low and high speed.

The Big Bore Expedition shock is built for strength and reliability, it is true when they say that 'size does matter!'

Everything about The Big Bore Expedition shock is massive with its 76mm diameter body, 50mm piston and of course Terrafirma's super strong 20mm double chromed shaft. The fully welded mounting points and the natural rubber bushes are the largest possible to fit Land Rover's original mounting points.

The massive 76mm shock body provides ample capacity for the high performance oil necessary to keep the internal workings cool while maintaining high damping performance even when combined with the high spring rates required to carry very heavy loads.

Coincidentally fitting the Big Bore expedition shocks to a light or un-laden Land Rover gives a firm, sporty handling characteristic often sought after by the more performance orientated driver.

Features include:

Standard length and 2" (50mm) longer than standard • 76mm body, twin tube design • 50mm internal bore and piston 20mm double chromed shaft • High temperature oil filled • 2.5mm outer shock tube wall thickness • 14mm mounting pins

VEHICLE	DEFENDER	90/110/130	DISCOVE	RY 1/RRC
SHOCK MODEL	FRONT	REAR	FRONT	REAR
BIG BORE EXPEDITION	TF129	TF130	TF129	TF130
BIG BORE EXPEDITION +2"	TF123	TF124	TF123	TF124





Terrafirma shocks - TF402



TERRAFIRMA REMOTE RESERVOIR SHOCKS

Originally only seen on mega budget custom built off-road racers, remote reservoir shocks carried a price tag out of reach to all but factory supported teams. Terrafirma Remote Reservoir shocks offer a new level of performance for recreational and hard core off-roaders alike. Terrafirma Remote Reservoir shocks fit directly onto original Land Rover mountings for easy installation and can be adjusted to suit different terrain and activities.

Why remote reservoir? The harder and faster you drive off-road the more heat is generated in your shocks, the temperature increase and the speed at which the shocks are trying to operate causes aeration (foaming) in the oil which leads to the deterioration in the performance of shock absorbers known as fade.

Terrafirma Remote Reservoir shocks have increased oil and nitrogen capacity separated by a floating piston within the remote canister. This prevents the gas mixing with the oil at high temperatures significantly improving performance compared to conventional shocks, massively reducing fade and loss of performance.

With approximately 75% greater oil capacity considerably lower operating temperatures are achieved resulting in exceptional ride quality and endurance. Terrafirma Remote Reservoir shocks can be adjusted by varying the nitrogen pressure using a gassing kit such as TFGASKIT. The shocks are factory set at 100psi for immediate fitment and can be adjusted between 60 and 200psi to suit conditions and driving style. Higher nitrogen pressure will result in increased damping giving a firmer more controlled ride.

Visually these shocks are seriously impressive, mounted to the vehicle effectively upside down, designed specifically to allow reliable routing of the hose and reservoir. As always with Terrafirma the largest possible fully welded pins and eyes are used with natural rubber bushes. Finished with high quality deep silver paint to resist corrosion and including the smart Terrafirma Remote Reservoir shock absorber logo, a bright blue flexible polyurethane gaiter protects the double chromed shaft from stone damage.

Built using race bred valving and similar specifications to the Pro Sport and Extreme shocks including Terrafirma's massive 20mm double chromed shaft, 40mm piston and 57mm large capacity shock body. Available 2" (50mm) longer than standard as well as the new super long travel +5" (125mm) option for extreme off-road use.



Features include:

2" (50mm) and 5" (125mm) longer than standard
Remote reservoir with increased oil capacity • 40mm internal bore
and piston • 20mm double chromed shaft • Velocity sensitive valving
Nitrogen charged • Adjustable between 60 and 200psi, factory set at
100psi for immediate fitment • High temperature fluid • 2.5mm outer
shock tube wall thickness • Reservoir mounting kit included
14mm mounting pins

VEHICLE	DEFENDER	90/110/130	DISCOVE	RY 1/RRC
SHOCK MODEL	FRONT	REAR	FRONT	REAR
REMOTE RESERVOIR +2"	TF401	TF402	TF401	TF402
REMOTE RESERVOIR +5"	TF403	TF403	TF403	TF403











TERRAFIRMA SHOCKS FITTING ADVICE AND INFORMATION.

The correct selection of shock absorbers to suit your Land Rover is crucial to ensure the best performance is achieved. Just as important is to make sure they are fitted correctly.

Your Land Rover's suspension has to work hard and can be subject to considerable strain and vibration. Terrafirma shocks allow increased wheel movement which can put stress on mounting points and suspension components. There are a few points to consider when fitting long travel shocks.

N.B Gas shocks do not raise the suspension of your

the dished top washers found on Defenders, Discovery 1 and Range Rover Classic rear top shock brackets.

shock when fitted to the vehicle.

Make sure there is no metal to metal contact throughout the full stroke of the

Check that bush mounting washers are fitted as per the diagram. In particular

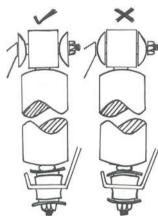
For long travel shocks it is an advantage to remove the bush cups found on post 1994 Defenders and Discovery rear axles, this will allow unrestricted movement of the lower shock mount.

When long travel shock absorbers are fitted make sure that the axle will contact the bump stop before the shock is fully compressed (bottomed out), failure to do this will damage the shock.

Also make sure that brake hoses are long enough to allow full shock absorber extension

Make sure all fixings are checked for tightness within 100 miles of installation.





Rear Shock Fitting Advice

TERRAFIRMA REMOTE RESERVOIR SHOCK ABSORBER INSTRUCTIONS

Important notice: Only Nitrogen gas must be used with Terrafirma Shock Absorbers

Fitting instructions.

- Fit Terrafirma Remote Reservoir Shocks with the shaft/gaiter at the bottom, shock body at the top.
- Make sure the remote canisters are mounted securely and will not foul during steering or suspension movement.
- If the original front shock turrets are to be used a keyhole shaped cut out will be required to allow the hose to pass through. Alternatively use tubular turrets allowing the remote reservoir and hose to pass through the legs, it may be necessary to cut a section from the turret mounting plate to allow the hose to pass

- through. Do not separate the reservoir from the shock as oil and Nitrogen will be lost.
- When fitting the rear shocks, it is necessary to find a suitable secure location to mount the reservoir so that it will not foul any moving parts.

Gassing instructions.

- The correct gassing system is required to set up Terrafirma Remote Reservoir Shocks. This system is available as Part No. TFGASKIT
- The only gas to use in shock absorbers is Nitrogen. Under no circumstances must any other gas be used.
- When setting the Nitrogen pressure ensure that the shock is fully extended, if re-gassing is to be carried out while shocks are fitted ensure the vehicle is jacked up.
- Prior to gassing make sure the brass valve fitting on the reservoir is tight.
- The nitrogen pressure is factory set at 100psi for recreational use. Gas pressure can be adjusted between 60 and 200psi. High gas pressures will result in a firm ride, low pressures give a soft ride.
- Hold gas pressure for 30 seconds to ensure

- correct pressure is achieved.
- Rapidly remove the filler valve from the remote cylinder after gassing to ensure no gas is lost.
- Gas pressure can vary between front and rear shocks but should be the same side to side.
- Ensure the reservoir valve cap is refitted to protect from dust and dirt.

Maintenance instructions.

- To maintain the best performance of the Terrafirma Remote Reservoir Shock it is important to ensure that after off-road use the shock and remote canister is free of mud and debris build up.
- Check that the shock gaiter is securely fastened in place and is not damaged.
- Thoroughly clean inside the gaiter after off-road use.
- Ensure all bushes and mounting washers are maintained in good condition.
- For optimum performance check Nitrogen pressure every 12,000 miles.
- Gas adjustments should only be carried out using the dedicated gassing system.

Do not be tempted to check the pressure with a tyre gauge or any other method, the small volume of Nitrogen required to operate these shocks can be altered by failure to use the TFGASKIT gassing kit to check or adjust pressures.



TERRAFIRMA STEERING DAMPERS

A steering damper is a shock absorber for your steering; all live axle Land Rovers are fitted with a steering damper to control vibrations and feedback caused by large diameter tyres. The larger the tyres the more work the steering damper has to do.

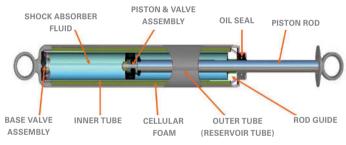
Terrafirma Steering Dampers are considerably larger with almost twice the fluid capacity than the original Land Rover units and significantly reduce shimmy on rough surfaces as well as the likelihood of the steering wheel being jerked out your hands off-road. Terrafirma steering dampers also smooth out the steering action from lock to lock without restricting steering return.

Painted in the traditional Terrafirma silver metallic finish with blue protective gaiter.

Terrafirma steering dampers improve driver comfort and reduce fatigue.

Features include:

35mm internal bore and piston • 54mm big bore twin tube design • 15mm double chromed shaft • 50/50 damping



RETURN TO CENTRE (RTC) STEERING DAMPER

How to make a steering damper more effective without hampering the smooth lock to lock movement? What about increasing the damping ratio and adding a coil-over spring? This amazing steering damper is a revelation, quite simply the Terrafirma RTC steering damper out performs all conventional steering dampers hands down!

The fact is when very large tyres are fitted or when you run consistently low tyre pressures even the best steering dampers fail to cope, feedback through the steering wheel increases and returning the steering wheel to centre becomes hard work. Not to mention the effort required to make quick direction changes.

Fit a Terrafirma RTC steering damper and feel the difference instantly, the coil-over spring compresses and stretches from lock to lock dramatically reducing the return to centre effort, the spring also works in harmony with the damper eliminating shimmy and vibration.

Finished in silver metallic with stylish Terrafirma RTC logo and bright blue coilover spring this steering damper looks as good as it works.

For vehicles fitted with more standard size tyres drivers will experience the benefit of quick and effortless steering.

Features include:

40mm internal bore • Mono tube design • 15mm double chromed shaft 50/50 damping • Coil-over design





TERRAFIRMA COIL SPRINGS

The purpose of a vehicle's suspension is to support the weight of the vehicle and absorb impacts, maximising the tyre's contact with the ground while maintaining stability and control. When using a Land Rover off-road the limits of the standard suspension are quickly realised when the lack of wheel travel affects traction and ultimately the vehicle's ability to maintain forward motion.

The added benefits of long travel suspension are exponential. Taller suspension allows larger tyres to be fitted as well as allowing greater suspension movement. Raising the suspension will also increase approach, departure and ramp over angles allowing your Land Rover to overcome larger obstacles.

Terrafirma Coil Springs are designed to lift the vehicle by approximately 2" (50mm). This is the optimum increase in ride height before the mechanical limitations of the suspension design become an issue requiring further modifications.

Safety has to be a consideration, raising the centre of gravity too high increases the risk of a roll over. A vehicle lifted by 2" (50mm) using correctly matched Terrafirma Coil Springs and shocks will also improve on road handling, comfort and stability from the original set up.

Terrafirma Coil Springs are made from the highest quality steel, formed on accurate computer controlled mandrels and precisely heat treated to ensure consistent manufacture. All springs are shot peened to relieve stress and scragged to ensure long spring life and prevent sag, finally powder coated silver for long lasting good looks.





Light Loadvehicles with no additional equipment fitted.



Medium Load vehicles fitted with some additional weight such as a roof rack and winch and bumper.



Heavy Load
vehicles fitted with significant
off-road or expedition equipment
such as a heavy winch and
bumper, loaded roof rack,
storage equipment and spare
wheel carrier.

COIL SPRING APPLICATION GUIDE								
	LIGHT LOAD	MEDIUM LOAD	HEAVY LOAD					
DEFENDER 90								
FRONT REAR	TF014 TF015	TF018 TF023V	TF015 TF027V					
DEFENDER 110/130								
FRONT REAR	TF014 TF010	TF018 TF019	TF015 TF011					
DISCOVERY 1/RRC								
FRONT REAR	TF014 TF015	TF018 TF023V	TF015 TF027V					
DISCOVERY 2								
FRONT REAR	N/A N/A	TF042 TF023V	TF052 TF027V					

COIL SPRING SPECIFICATIONS							
PART NO. SPRING RATE		LENGTH (DS/PS)	LOAD KG				
	LBF/IN	мм	FRONT	REAR			
TF010	270	435/435 MM		150			
TF011	420	435/435 MM		500			
TF014	200	400/390 MM	0-50				
TF015	220	430/420 MM	150	100			
TF018	230	390/380 MM	50-100				
TF019	300	435/435 MM		300			
TF023V	300-340	420/410 MM		200			
TF027V	360	420/410 MM		300			
TF042	180	385/375 MM	0-50				
TF052	230	385/375 MM	75-150				



CORRECT COIL SPRING SELECTION

It is important to understand that all Terrafirma Coil Springs have been designed to provide approximately 2" (50mm) of lift while carrying light, medium or heavy loads.

Minimal mechanical changes are required when lifting by this amount, however the Terrafirma Hardware range of accessories does allow for greater lift and significantly increased wheel travel, further enhancing off-road ability. Selecting the most suitable springs for a Land Rover may be with some compromise. A heavy load spring needed when fully loaded may ride too high and too hard when unloaded. Likewise a light load spring that is comfortable and flexible will not achieve the desired lift or carry the heavy loads associated with expedition vehicles.

DEF/D1/RRC Light load front springs

TF014 Light load front coil springs will give around 2" of lift on standard vehicles with less than 50kg of additional equipment fitted such as a heavy duty non winch bumper. TF014 springs should only be used when there are no plans to fit heavy equipment to the front of the vehicle in the future. Light load front springs are typically combined with light or medium load rear springs.

DEF/D1/RRC Medium load front springs

TF018 Medium load front coil springs will provide 2" of lift when fitted to vehicles with up to 100kg of additional equipment, such as a winch and bumper. TF018 is a hugely popular spring for all front medium load applications. More than 2" of lift may be achieved when less than 50kg of additional equipment is fitted. No additional equipment fitted will lead to a much greater lift possibly requiring attention to driveshaft angles and steering geometry.

DEF/D1/RRC Heavy load front springs

TF015 Heavy load front coil springs are designed to provide 2" of lift on vehicles with around 100kg of additional equipment such as a heavy-duty winch & bumper and other equipment. For example use TF015 springs on Defenders fitted with a Superwinch Husky winch, bumper and bull bar. More than 2" of lift will be achieved when less than 100kg of additional equipment is fitted. No additional equipment fitted will lead to a much greater lift possibly requiring attention to driveshaft angles and steering geometry.

90/D1/RRC Light load rear springs

TF015 Light load rear coil springs. This spring is also suitable for the rear of a standard Defender 90 with little or no additional equipment fitted, certainly no more than 100kg and will give approx 2" lift. It should only be used on the rear of Discovery 1 and Range Rover Classic where no additional equipment is fitted and where less than a 2" lift is acceptable. In most cases the TF018 is more suitable for a Discovery 1 and Range Rover Classic. This spring would most likely be combined with TF014.

90/D1/D2/RRC Medium load rear springs

TF023V Medium load rear coil springs. This spring is suitable for the rear of a Defender 90, Discovery 1 and Range Rover Classic carrying up to 200kg of additional equipment and will provide around 2" of lift. This equates to a well equipped off-road or expedition vehicle, and those used to carry a constant medium to heavy load in the rear. It can also be used on the rear of a Discovery 2 but will not carry the same load and may not achieve 2" of lift. This is also one of the most popular springs when combined with TF014 light load and TF018 medium load front springs.



provides a combination of comfort and load carrying in one spring.

It is worth noting that Terrafirma coil springs are sold in pairs, in many cases one spring is 10mm longer than the other, the longer spring should always be fitted to the driver's side.

By considering the three Defender images and combining the Terrafirma Coil Spring application guide and specifications it should be possible to select suitable coil springs or a suspension kit for your vehicle. Use the detailed spring descriptions by part number to help accurately fine tune the spring requirements for your specific application.

90/D1/D2/RRC Heavy load rear springs

TF027V Heavy load rear coil springs will provide 2" of lift on heavily laden vehicles for commercial and expedition use. The TF027V fits the rear of Discovery 1, Discovery 2, Range Rover Classic, and Defender 90s carrying a constant load or additional equipment weighing more than 300kg. The TF023V is usually suitable for most Defender 90s however the TF027V is particularly good for people who want more constant heavy load-carrying ability.

110/130 Light load rear springs

TF010 Light load rear coil springs are designed to provide 2" of lift on a standard 110 Defender with no additional equipment fitted, they will carry light to moderate loads but may not maintain a 2" lift. These springs could be fitted to a 130 and would carry more load than standard but only if no lift was required. They can be fitted in conjunction with TF014 to give a comfortable ride and a 2" lift to an unladen 110.

110/130 Medium load rear springs

TF019 Medium load rear coil springs. These springs are suitable for the rear of a Defender 110/130 with around 300kg of additional equipment fitted and will provide around 2" of lift. This equates to a moderately equipped off-road or expedition vehicle, and vehicles used to carry a constant medium to heavy load in the rear. The most popular 110/130 rear springs when combined with TF018 medium load front springs. Avoid fitting these springs if you are not carrying the load as the lift may be too great and could cause over extension of the rear shocks.

110/130 Heavy load rear springs

TF011 Heavy load rear coil springs will give 2" of lift on heavily laden 110s and 130s for commercial and expedition use. The TF011 is suitable for the rear of 110/130s carrying a constant load and additional equipment weighing more than 500kg. The TF019 is fine for most Defender 110/130 however the TF011 is particularly good for people who want more constant heavy load-carrying ability. Do not fit this spring if you are not carrying the load as the lift may be too great and could cause over extension of the rear shocks.

D2 Medium load front springs

TF042 Medium load front coil springs are designed to provide 2" of lift on a Discovery 2 with a light to medium load up to around 50kg of additional equipment fitted, such as a discrete winch mount and winch. The TF042 only fits the front of Discovery 2.

D2 Heavy load front coil springs

TF052 Heavy load front coil springs will provide 2" of lift on a heavily loaded Discovery 2 for commercial and expedition use. The TF052 only fits the front of Discovery 2 and should only be used when carrying a constant load or additional equipment weighing up to 100kg. More than 2" of lift will be achieved when less than 100kg of additional equipment which may lead to too much lift possibly causing drive shaft vibration and steering geometry problems.



TERRAFIRMA SUSPENSION KITS

Terrafirma products can be bought individually to allow total customisation of the suspension system allowing you to tune the suspension to meet your exact requirements. However in some cases several items can be combined to make an ideal upgrade package.

Terrafirma Suspension Kits have been created for convenience, ensuring the correct parts are matched and making ordering easier, quickly identifying a range of products suitable for your vehicle or application.

It is important when selecting a spring and shock kit that it suits the weight of equipment fitted to the vehicle or the load that is constantly carried. If you require different load springs front and rear the individual components must be selected from their respective ranges.

Two Terrafirma spring and shock kits are available including four All Terrain or Pro Sport shock absorbers and 4 springs in light, medium and heavy load.

Due to the more specific applications requiring Extreme, Big Bore Expedition and Remote Reservoir shocks it is recommended that spring and shock combinations are selected individually from the ranges.

TERRAFIRMA SPRING AND SHOCK KITS (4 SPRINGS AND 4 SHOCKS)									
DEFENDER 90				DEFENDER 110/130			DISCOVERY 1/RRC		
	LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY
ALL TERRAIN	TF201	TF202	TF204	TF206	TF203	TF205	TF201	TF202	TF204
PRO SPORT	TF207	TF208	TF210	TF212	TF209	TF211	TF207	TF208	TF210





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The Terrafirma 90 is a showcase for the Terrafirma range of accessories and upgrades for Land Rover vehicles. It is a test and development vehicle for new or improved products. It is also available to demonstrate Terrafirma products for technical and sales purposes.

Lighting.

Lightforce RMDL140HT x4 lights on the roof bar with FBLUCLD & FBLUCLWD filters and RMDL170HT x2 lights on the bumper with FDLUCSD filters.

Snorkel and breather.

Snorke - Mantec 1-DPFL-R plastic snorkel

Transmission breathers Mantec 10-WK3-TD5 (modified)

Performance.

Terrafirma Power plug TFPP091 Green Cotton Air Filter P950406



Brakos

Wheel carrier

Rugged Trail chassis mounted

heavy duty spare wheel carrier.

Terrafirma cross drilled and grooved brake discs front and rear and TRW high quality brake pads.



Suspension.

Springs TF018 and TF023V Front and Rear coil springs Shocks TF401 and TF402 Front and Rear remote reservoir shocks Steering damper TF835 Return to Centre steering damper

Hardware

TF501 Front dislocation cones TF504 Tubular front turrets TF505 Front spring retaining plates

TF508 Caster corrected front radius arms

TF510 Rear spring dislocation cones

TF506 Rear spring retaining plates TF509 Cranked rear radius arms TF515 Bump stop spacers front and rear

Wheels and tyres.

Wheels TF101 White Terrafirma 7x16 alloy wheels c/w TF103 Terrafirma Beadlock ring kit

Tyres BF Goodrich KM2 Mud Terrain 285x75x16 tyres

Tyre pressure monitoring system under test and development



Chequer Plates



Winch and bumper.

Winch Ep9 9000lbs Superwinch 12v electric winch

Bumper TF001AC Tubular winch bumper suitable for Air Conditioning









TERRAFIRMA SUSPENSION HARDWARE

There is one thing that is paramount to safe and successful off-road driving...... Traction! Keeping the tyres in contact with the ground is essential to maintain forward motion. While Land Rover can claim class leading off-road suspension straight out of the box even keen amateur off-roaders quickly reach the limits of wheel travel and lose momentum with wheels in the air fighting for grip.

Terrafirma Suspension Hardware is a range of chassis and suspension accessories designed to considerably improve your off-road driving experience. Increasing wheel travel or axle articulation with stability and balance is the key moving forward in really rough terrain.

Momentum can carry you through in some instances but when the rocks get bigger and ruts get deeper you simply can't always go faster to keep going forward.

The logical first step to increasing wheel travel is fit longer springs and shock absorbers but there are implications that can affect safety, performance and reliability.

Within the Terrafirma Suspension hardware range there are accessories specifically designed to tackle problems such as shocks topping and bottoming out, dislocating coil springs, steering geometry and driveline angles etc to ensure your Land Rover performs beyond expectations.

Terrafirma Suspension Hardware allows you to customise the performance of your Land Rover's suspension. Constant development, testing and customer feedback ensures every product is 'fit for purpose' allowing you to drive further in all conditions on all types of terrain, from recreational off-road to hard core competitions.

All items are supplied in pairs or as a kit with nuts, bolts and washers as required and can be fitted by a workshop technician or competent DIY mechanic.

Care must be taken when customising your suspension to make sure the suspension works freely throughout full articulation, check that brake lines are long enough and that steering geometry and driveline angles are not adversely affected.



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TF508

TF501 Front coil spring dislocation cones

When longer than standard front shocks are fitted the coil spring can move around becoming dislodged on full suspension drop out, sometimes failing to relocate correctly when the suspension compresses again. Fitting dislocation cones in conjunction with spring retaining plates TF505 will ensure the spring re-seats correctly every time.



TF502 Front shock turret securing rings

The original front shock turret securing rings are somewhat frail and the threaded studs are often not long enough to adequately secure heavy duty or Tubular front shock turrets such as TF503 & TF504. Terrafirma turret securing rings are much stronger and use longer high tensile studs to reliably attach replacement options including Terrafirma Front twin shock turrets TF514



TF509 Cranked rear radius arms

fitted from around 1992.

TF508 Caster corrected front radius arms

When Land Rovers are lifted the rear radius arm to chassis bushes become strained, further suspension drop out can be restricted by the lack of movement in the bush. To relieve the strain and to improve suspension flex fit cranked rear radius arms. Terrafirma rear radius arms are made from super tough 1 3/8" diameter x 3/16" wall thickness CDS tubing.

When coil sprung Land Rovers are lifted the caster angle is changed. This can

lead to vagueness and a lack of self-centering of the steering. Fitting 3 degree

caster corrected radius arms re-introduces positive caster angle to return the

steering to the correct geometry on vehicles lifted 2-3" (50-75mm). These

radius arms are designed to accept the 44mm wide bushes that have been



TF503 and TF504 Tubular front shock turrets

Tubular front shock turrets are stylish, much stronger and less liable to rusting through than the original pressed steel cone type and they also allow you to show off your Terrafirma shocks!

Available in standard height TF504 or lowered height -2" (-50mm) TF503 which allows more suspension drop out with standard length shocks. Lowering your shocks can reduce the amount of upward or compression movement and may require the fitment of bump stop spacers TF515 and/or extended bump stops GAL146R or GAL147R



TF505, TF506 and TF507 Coil spring retaining plates

Coil springs can part company and become dislodged from their mounts when long travel shocks are at full extension. Heavy duty spring retaining plates are used to hold the coil spring in place on the axle and when combined with dislocation cones TF501, TF510, TF511 and relocation cones TF520 ensure they relocate properly when the suspension compresses again.



TF510 and TF511 Rear coil spring dislocation cones

When longer than standard rear shocks are fitted the coil spring can part company with the chassis becoming dislodged on full suspension drop out, sometimes failing to relocate correctly when the suspension compresses again.

Fitting dislocation cones in conjunction with coil spring retaining plates TF506 or TF507 will ensure the spring re-seats correctly every time.



TF512 Lowered rear top shock mounts

It is possible to gain and additional 2"(50mm) of rear suspension drop out with replacement lowered rear top shock mounts. Attaching the shock lower on the chassis allows greater axle articulation. Lowering your shocks can reduce the amount of upward or compression movement and may require the fitment of bump stop spacers TF515 and/or extended bump stops GAL146R or GAL147R.





TF513 Rear twin shock mount kit

Heavily laden expedition vehicles and fast off-road vehicles benefit from fitting twin shocks as it reduces stress and heat build up within the shock absorbers allowing them to perform better for longer. The Terrafirma rear twin shock mount kit allows 2 shocks to run parallel using existing mounting points. Suitable for all Terrafirma shocks except Big Bore Expedition shocks and +5" longer shocks. Care must be taken to make sure the lower shock mounting bracket does not interfere with the inner edge of the rear wheels. TF301 wheel



TF514 Front twin shock mount kit

As with TF513 heavy expedition vehicles and fast off-road vehicles will benefit from fitting twin shocks as it reduces stress and heat build up within the shock absorbers allowing them to perform better for longer. The Terrafirma front twin shock mount kit allows 4 shocks to be fitted to handle the punishment driving at speed over rough terrain. Suitable for all Terrafirma shocks except Big Bore Expedition shocks. Some trimming is required to fit this kit to Discovery 1 and Range Rover Classics.



TF515 Bump stop spacers

Increasing the size of the original bump stops by 1" (25mm) will help prevent larger tyres from touching the bodywork on full suspension compression. They are commonly used in conjunction with lowered turrets and rear top shock mounts to help prevent damaging the shocks from bottoming out.



TF516 and TF517 Spring spacers

Increase the body clearance to allow the fitment of really big tyres as well as provide an additional 2" (50mm) of lift to your suspension. These simple spacers bolt between the coil spring and the axle and can be the perfect way to lift the vehicle to the desired ride height when the load or equipment carried exceeds even the heaviest rated coil springs. It must be noted that bump stop spacers TF515 or extended bump stops GAL146R or GAL147R may be required to prevent the coil spring from becoming coil bound (fully compressed) on full compression.



TF518 Rear top shock mount re-locators

This is an alternative kit to TF512 allowing the original rear top shock mount to be bolted 2"(50mm) lower on the chassis. The mounting bracket lowers the top shock mount to give greater axle articulation. Attaching the shock lower on the chassis allows greater axle articulation. Lowering your shocks can reduce the amount of upward or compression movement and may require the fitment of bump stop spacers TF515 and/or extended bump stops GAL146R or GAL147R.



TF519 Extreme long travel rear top shock mounts

Terrafirma TF122LT and TF403+5" (125mm) longer shocks have pin top mounts instead of the conventional ring, this is to allow unrestricted articulation and movement of the mounting point on these extreme travel shocks. To allow these shocks to be fitted these unique rear top shock mounts that can be bolted to the original mounting points are required. It is possible that bump stop spacers TF515 and/or extended bump stops GAL146R or GAL147R will be required to prevent the shocks from bottoming out on full compression.





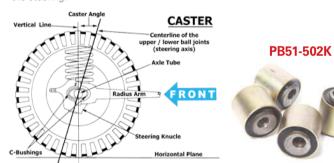
TF520 Long travel rear coil spring re-locator

When fitting TF122LT and TF403 +5" (125mm) longer shocks the suspension drop out is so great it is possible for the rear coil springs to fall below conventional dislocation cones, then miss the cone on compression movement causing the spring to be forced up the outside of the cone. To prevent this from happening use TF520 spring re-locator which is designed to catch the last coil of the spring before it leaves the end of the cone ensuring it locates properly every time.



PB51-502K Caster correction bushes

An alternative to TF508 Caster corrected radius arms, these 44mm wide replacement bushes are another way to regain positive caster angle after a Land Rover has been lifted. The bushes have eccentric centres that when fitted into the original radius arms rotate the axle back 3 degrees correcting the steering geometry for vehicles lifted 2-3" (50-75mm). Negative caster can lead to vagueness and a lack of self-centering of the steering.



TFGASKIT Remote reservoir shock gassing kit

This kit comprises a nitrogen regulator, hoses, tap, shock gas pressure gauge and a special lock chuck to attach the kit to the Schrader valve on the shock reservoir. The gassing kit is essential to accurately adjust the nitrogen pressure in the TF401, TF402 and TF403 remote reservoir shock absorbers.



GAL146R and GAL147R Extended bump stops

Extended bump stops are necessary to reduce the upward axle movement when very large tyres are used and also when long travel shocks are fitted to avoid the shocks bottoming out before the axle meets the bump stop. Made from super resilient polyurethane and bonded to a stainless steel mounting plate these bump stops are far superior to any other on the market.

GAL146R is the 2 hole bump stop replacing Land Rover part ANR4189 GAL147R is the 4 hole bump stop replacing Land Rover part ANR4188



TERRAFIRMA SUSPENSION HARDWARE PART NO. QUICK REFERENCE GUIDE							
	DEFEND	DEFENDER 90		DEFENDER 110/130		ERY 1	
	FRONT	REAR	FRONT	REAR	FRONT	REAR	
FRONT COIL SPRING DISLOCATION CONES	TF501		TF501		TF501		
FRONT SHOCK TURRET SECURING RINGS	TF502		TF502		TF502		
TUBULAR LOWERED HEIGHT FRONT SHOCK TURRETS	TF503		TF503		TF503		
TUBULAR STANDARD HEIGHT FRONT SHOCK TURRETS	TF504		TF504		TF504		
COIL SPRING RETAINING PLATES	TF505	TF506	TF505	TF507	TF505	TF506	
CASTER CORRECTED FRONT RADIUS ARMS	TF508		TF508		TF508		
CRANKED REAR RADIUS ARMS		TF509		TF509		TF509	
REAR COIL SPRING DISLOCATION CONES		TF510		TF511		TF510	
LOWERED REAR TOP SHOCK MOUNTS		TF512		TF512		TF512	
TWIN SHOCK MOUNT KITS	TF514	TF513	TF514	TF513	TF514	TF513	
BUMP STOP SPACERS	TF515	TF515	TF515	TF515	TF515	TF515	
SPRING SPACERS	TF516	TF517	TF516	TF517	TF516	TF517	
REAR TOP SHOCK MOUNT RE-LOCATORS		TF518		TF518		TF518	
EXTREME LONG TRAVEL REAR TOP SHOCK MOUNTS		TF519		TF519		TF519	
LONG TRAVEL REAR COIL SPRING RE-LOCATORS		TF520				TF520	
CASTER CORRECTION BUSHES (44MM)	PB51-502K		PB51-502K		PB51-502K		



Terrafirma steering rods

TERRAFIRMA STEERING RODS

Ground clearance is an important factor for successful off-road driving. The lowest points of the vehicle will inevitably make contact with the ground at some stage while driving in ruts or negotiating rocks and tree stumps. The steering rods on Land Rover Defenders and Series 1 Discoverys are particularly vulnerable and can easily get bent seriously affecting front wheel alignment and steering ability. Even slightly bent steering rods can cause excessive tyre wear and poor handling.

When Land Rovers are fitted with very large tyres the forces acting on the steering gear are far greater especially when attacking obstacles off-road, hard impacts on the wheels can also bend or kink the steering rods causing serious steering problems.

The problem is not just for recreational and competitive off-roaders, for example contractors and farmers driving in ruts can easily bend the track rod effecting the safe steering of the Land Rover.

Terrafirma Steering Rods are made from solid 30mm diameter steel and are supplied with precisely machined left and right hand threads, locking nuts and quality greaseable track rod ends. For Discoverys a steering damper bracket is also included.







Terrafirma Steering Rod - TF252

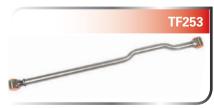
Defender 90/110/130	TF250	
Discovery 1 early type with 3 track rod ends	TF251	
Discovery 1 late type with 4 track rod ends	TF252	No. Co.
		NO CO



Lateral stability on the front end of Land Rover Defenders and Series 1 Discoverys is controlled by a tie rod called a Panhard Rod which is fitted between the front axle and the chassis, typically mounted in parallel with the drag link connecting the steering box to the axle. When live axle vehicles such as these are lifted the axle is pulled off centre due to the fixed length of the Panhard rod. Terrafirma Adjustable Panhard Rods allow the axle to be adjusted back to centre restoring the steering geometry.

Terrafirma Adjustable Panhard rods are made from 30mm diameter 5mm wall thickness high tensile steel tube with a 20mm precision machined threaded adjuster with lock nut part way along its length. Terrafirma Panhard Rods are supplied complete with polyurethane bushes ready to fit. There are two models suiting both left and right hand drive vehicles including the latest 2007 Defender which has larger diameter end bushes.

Terrafirma Adjustable Panhard Rods	
Defender 2007/Discovery 1 and RRC 1998	TF253
Defender 2007 >	TF254









TERRAFIRMA DEFENDER WINCH BUMPERS

The Terrafirma range of Tubular and Commercial winch bumpers has been designed to meet the broad range of activities and winch models used by Land Rover owners. A combination of performance and practicality has been employed in the development of these bumpers.

All the bumpers are made from steel, sand blasted, zinc phosphate washed and then powder coated black for a factory quality finish. Defender bumpers include jacking and recovery points and are built tough and able to take on the rigours of serious off-road and commercial use.

Tubular winch bumpers have become very popular

with both recreational and competitive off-roaders. The A bar is commonly an important structural part of a tubular bumper however the all in one construction of the Terrafirma Tubular bumper ensures a considerable strength advantage over others. The integral perforated steel front plate is super strong and stylish as well as allowing cooling air to the radiators.

The traditional bolt pattern dimensions of 10" \times 4.5" are used and positioned so that almost all popular winch brands especially Superwinch and Warn can be fitted.

Tubular bumpers incorporate 4 jacking points as well as 2 easily accessible, built in recovery points designed to accept even the largest recovery hooks and shackles...

The Terrafirma Tubular winch bumpers suitable for Defender's without air conditioning are designed

primarily for serious off-road use, to provide the extreme approach angle required the bumper is set well back and the grill and lower front panel will need to be cut to allow the winch fitment. The AC bumper only requires the plastic grill to be modified.

Terrafirma Defender commercial winch bumpers are designed to accommodate the most popular mid range winches and in particular those from Superwinch and Warn. The bolt pattern dimensions of 10" x 4.5" are common for almost every brand of winch constructed in a motor-drum-gearbox configuration

The bumpers are made from 5mm steel and are very strong in their construction. Each bumper incorporates 2 jacking points that will accept the standard Land Rover jack or a Hi-Lift jack as well as 2 recovery points.

TF001

TERRAFIRMA DE	TERRAFIRMA DEFENDER WINCH BUMPERS								
TUBULAR WINCH BUMPERS COMMERCIAL WINCH BUMPERS									
DEFENDER	WITH A BAR	WITHOUT A BAR	WARN	SUPERWINCH	HUSKY				
WITH AC	TF001AC	TF003AC	TF002ACW	TF002ACS					
WITHOUT AC	TF001	TF003	TF002W	TF002S	TF004				





TERRAFIRMA ROCK SLIDERS

Terrafirma Rock Slider - TF813



Rock sliders or side protection bars are a must have for both recreational and serious off-roaders. Protecting the sills and sides of your pride and joy is paramount. Keeping the bodywork away from large rocks, earth banks and trees will save a considerable amount of money in the long term.

Terrafirma rock sliders are made from sturdy steel box section with or without the optional steel tube

outrigger 'tree bars' that keep the bodywork away from immovable objects just waiting to damage your doors. Tree bars can also serve as a useful step for both entering the vehicle and accessing the roof rack.

All Rock sliders follow the profile of the original side sill, in the case of Defenders the alloy lower sill below the doors is replaced with the rock

slider and the plastic trim sill is removed on all Discoverys.

Terrafirma Rock sliders are designed strong enough to protect the side of your vehicle, this means you can jack up the vehicle on them if required.

All fixing hardware is supplied with each pair of Rock sliders.



Terrafirma rock sliders								
	Def 90	Def 110	Def 130	Disco	overy 1	Discovery 2		
				3DR	5DR			
Rock sliders without tree bars	TF803	TF813	TF815	TF804	TF806	TF808		
Rock sliders with tree bars	TF801	TF810	TF814	TF805	TF807	TF809		
Galvanised with tree bars	TF801GAL	TF810GAL						



























TERRAFIRMA UNDER BODY GUARDS

Regardless of your chosen off-road activity work or play and despite Land Rovers being built for off-road use there is more to be done in terms of protecting the underside of your Land Rover against damage from rocks and ruts etc. The more serious your chosen off-road adventures the more protection is necessary. All Terrafirma under body guards perform important roles and have been designed to protect any part of the Land Rovers' under carriage that if damaged could affect the rest of your journey or day's work. Prevention rather than cure is the message here allowing you to drive safely and with confidence.

The range of Terrafirma under body guards protects the steering gear, front and rear differentials, transmission system and fuel tank. The steering guards, transmission guards and fuel tank guards are available in a choice of 6mm steel and 8mm aluminium. Aluminium guards are in keeping with modern design and are lighter weight. Steel guards are tougher, less expensive but heavier than the more stylish aluminium. All steel parts are gold zinc passivated for good looks and are rust resistance. Terrafirma under body guards mount onto existing pre drilled holes and all necessary fixings are supplied.

Steering guards

Terrafirma steering guards are tapered for maximum protection and good looks with row of laser cut holes for additional styling and to provide air flow to the cooling system. An additional feature is the incorporation of recovery points built into the strong side brackets, designed to accept a common shackle.

Track rod guards

Terrafirma track rod guards cleverly maximise ground clearance while totally protecting the steering track rod which is the most vulnerable part of the steering gear. Two model types are available; Pre 1994 and post 1994 (dates approximate), the period before 1994 saw most vehicles produced with axles without anti-roll bar brackets and after 1994 they were made with brackets, this dictates what track rod guard should be used and to be certain it is important to look at the front axle. Made from 6mm zinc

passivated steel and includes all necessary fixings. The Track rod guard will also allow the fitment of Terrafirma steering rods.

Differential guards

The vertical bulge in the front and rear axle cases allows the crown wheel to rotate inside. The crown wheel is a large gear that transfers the input drive into the differential and along the axle shafts. The bulge is pressed steel and when rammed into immovable objects such as rocks can easily be holed loosing valuable lubricating oil. Terrafirma differential guards are easy to fit and offer protection against even the most aggressive attacks on obstacles.

Transmission guards

The bottom of the gearbox, transfer box and handbrake assembly hang slightly below the chassis rails on Land Rover Defenders and Series 1 Discoverys leaving them vulnerable when driving over obstacles. Terrafirma transmission guards not only protect the transmission and handbrake but also act as a skid plate to slide over the ground or rocks reducing the chance of getting stuck.

Fuel tank guards

Loosing fuel due to a punctured fuel tank can have disastrous consequences leaving you stranded miles from home with an unnecessary expense and a major repair task on your hands.

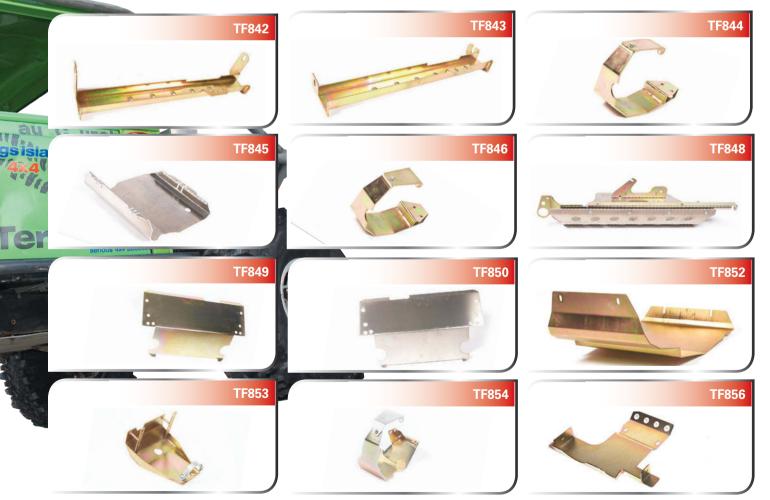
Fuel tanks on Land Rovers are typically under the side or under the rear overhang, both vulnerable when the going gets tough. Terrafirma steel and alloy fuel tank guards provide complete protection against rocks etc off-road and allow you to drive worry free across difficult terrain. Terrafirma fuel tank guards allow fitment of factory towing kits and rear steps however some trimming may be required if non standard equipment has been fitted.







Terrafirma Under Body Guards						
NB Dates are approximate as a guide.	Def	90	Def 11	0/130	Discovery 1/RRC	Discovery 2
	LHD	RHD	LHD	RHD		
Steel steering guards	TF840L	TF840R	TF840L	TF840R	TF858	
Alloy steering guards	TF841L	TF841R	TF841L	TF841R	TF890	
Track rod guards >1994	TF8	342	TF8	342	TF861	
Track rod guards 1994 >	TF8	343	TF8	343	TF860	
Front differential guards	TF8	344	TF8	344	TF844	TF866
Rear differential guards >1998	TF844				TF844	TF867
Rear differential guards 1998 >	TF8	346				
Rear Salisbury axle differential guard			TF8	353		
Rear differential guards 2002 >	TF	346	TF854			
Steel transmission guards > 2007	TF8	356	TF856			
Steel transmission guards 2007 >	TF	381	TF881			
Alloy transmission guards > 2007	TF8	357	TF857			
Alloy transmission guards 2007 >	TF8	382	TF882			
Steel fuel tank guards > 1998	TF	347	TF8	351	TF862	
Steel fuel tank guards 1998 >	TF849		TF852			TF864
Alloy fuel tank guards > 1998	TF848		TF855		TF863	
Alloy fuel tank guards 1998 >	TF8	350	TF845			TF865
Fuel Cooler guards 2007 >	TF8	380	TF8	380		





TERRAFIRMA PERFORMANCE

Terrafirma Power plugs "The intelligent vehicle enhancement".

When a Land Rover leaves the production line its engine management ECU (electronic control unit) or 'brain' is programmed with very conservative tuning settings designed to take into account a wide variation in engineering tolerances, driving conditions and environmental factors. Fine tuning each engine off the production line does not make economical sense for the manufacturer.

The Terrafirma Power plug is a highly developed, pre-programmed state of the art performance

upgrade that works in conjunction with the engine management system already fitted to all post 1998 diesel Land Rovers.

The Terrafirma Power plug is a completely standalone product that includes a wiring harness that plugs directly into your vehicle's existing ECU via connectors that are perfectly matched to the factory connectors on your vehicle. There is no dangerous or complicated cutting into wires on your vehicle and also no chance of accidentally joining the wrong wires together.

The result is improved engine efficiency.
Commonly known as 'plug and play' the
Terrafirma Power plug is quite straight forward to
fit, requires no specialist tools and will give instant
results, better performance and mpg!

The enhanced tune cannot be erased by "returning to factory settings" often done during main dealer servicing. The Power plug can be quickly eliminated from fault diagnosis if an engine running problem occurs and it can be removed and refitted into another similar vehicle model.

No other performance upgrade is as technically advanced as the Terrafirma Power plug. Uniquely the Terrafirma Power plug enhances turbo boost, fuel pressure, throttle position and timing unlike other units that only enhance fuel pressure which can cause excessive exhaust temperatures resulting in engine failure.

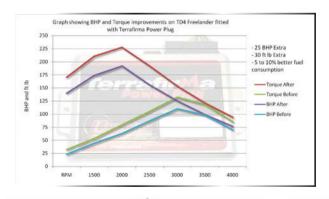
For serious off-roaders we also offer an extension loom for Defender and Discovery Td5 allowing the ECU to be relocated high up in the vehicle, away from water

Terrafirma Power plugs									
	Freel	ander	Defe	ender	Disco	overy		Range Rove	er
	F1 Td4	F2 Td4	Td5	Td4	D2 Td5	D3 TdV6	RRS TdV6	L322 Td6	L322 TdV8
Power plug	TFPP041	TFPP100	TFPP051	TFPP091	TFPP051	TFPP071	TFPP071	TFPP061	TFPP081
Extension loom			TFEL052		TFEL052				

FREELANDER 1 TD4 2002-2007 POWER PLUG TFPP041

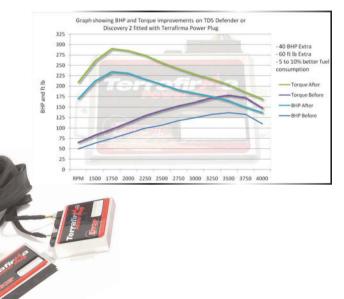
The Freelander 1 Td4 Power plug provides an increase of 25bhp and 30ft lb of torque making the vehicle much livelier.

An increase of between 5 and 10% fuel economy can also be achieved when driven responsibly.



DEFENDER TD5 1998-2007 AND DISCOVERY 2 TD5 1998-2004 POWER PLUG TFPP051

The Power plug for the Defender and Discovery Td5 offers a considerable power and torque gain at 40bhp and 60ft lb respectively. Most noticeable is the much broader spread of power and torque making these Land Rovers much better tow vehicles also significantly improving drivability by reducing the number of gear changes. Fuel economy can be improved by around 10% if driven responsibly.

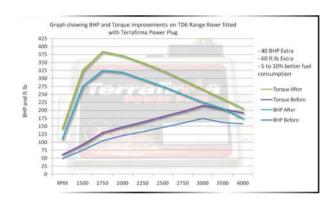


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RANGE ROVER TD6 2002- 2009 POWER PLUG TFPP061

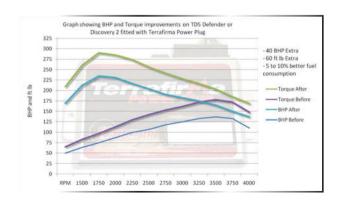
The Power plug for the 3.0litre Td6 Range Rover is a superb upgrade. This big heavy vehicle is transformed with an additional 40bhp and 60 ft lb of torque. Normal driving requires much less throttle to achieve the same performance. However when needed the additional power is very welcome. When cruising fuel economy can be improve considerably.





DISCOVERY 3 2004-2009 AND RANGE ROVER SPORT 2006-2009 POWER PLUG TFPP071

The Discovery 3 and Range Rover Sport share the same 2.7litre TdV6 engine which is pretty impressive even in its standard tune. Add a Terrafirma Power plug and increases of 35bhp and 40ft lb of torque are achieved making both the Discovery and Range Rover Sport considerably more potent. As a popular tow vehicle the Discovery 3 in both manual and automatic versions is significantly improved. Cruising with a light throttle will return improved mpg.

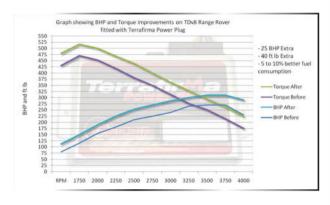






RANGE ROVER TDV8 2007- 2009 POWER PLUG TFPP081

The power of the new Range Rover V8 diesel is considerable, but like all Land Rover products it leaves the factory with a conservative level of tune. The Terrafirma Power plug enhances that tune and takes it to a new level of performance that is seriously impressive, an additional 25bhp and 40ft lb of torque is achieved. No compromise in fuel economy either as mpg will increase while cruising with a light throttle by as much as 10%.

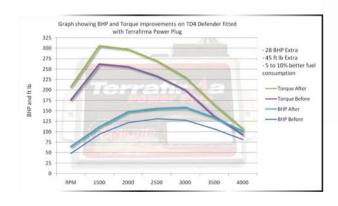




DEFENDER TD4 POWER PLUG TFPP091

The current Defender engine is a 2.4 liter turbo intercooled diesel engine with the latest technology engine management system. The Td4 engine is greatly improved with the installation of a Terrafirma Power plug in both performance and economy. 28bhp and 45ft lb of torque is typical making all aspects of driving this new Land Rover a real pleasure. Towing and off-roading are massively improved as torque is the big gain here. Fuel economy can improve by as much as 10% driven responsibly.

The Defender has a built in speed limiter which is also eliminated when a Power plug is fitted improving the Defender's on road performance considerably.

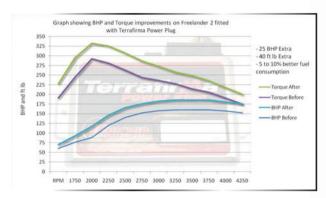






FREELANDER 2 TD4 POWER PLUG TFPP100

The refined engine in the new Freelander 2 responds exceptionally well to a Terrafirma Power plug. The Range Rover's little brother sees significant improvements in performance and economy. 25bhp and 40ft lb of torque improve the driving experience considerably and towing a large trailer or caravan is now a breeze. Each acceleration brings a smile to the driver's face especially with up to 10% improvement in fuel economy.





DEFENDER TD5 AND DISCOVERY 2 TD5 ECU EXTENSION LOOM TFELO52

Intended for Defender and Discovery Td5s likely to encounter deep water. Hard core off-roaders and utility vehicles used in deep or flood water will benefit from relocating the engine management ECU higher up in the vehicle.

This 2m extension loom allows the ECU to be relocated in a safe place and for the wiring to be secured out of harms way. All standard connections are used and no reprogramming is necessary to fit the loom.



TERRAFIRMA TD5 EGR VALVE REMOVAL KIT TFEGRO1

The EGR system fitted to most modern diesel engines re-circulates part of the exhaust gases back in to the air intake on overrun with the intention of improving emissions.

Removing this system actually makes little difference to emissions.

The Terrafirma EGR valve removal kit allows the EGR valve originally fitted to all Td5 engines in Defenders and Discoverys to be completely removed from the inlet manifold and as such increases air flow and performance.

The kit comes complete with a new intercooler hose fitting, gasket, bolts and EGR blanking plate & bolts.

Suitable for all Defender and Discoverys fitted with Td5 engines.





TERRAFIRMA SILICONE HOSES

TERRAFIRMA Silicone turbo and intercooler hoses

Terrafirma Silicone turbo and intercooler hoses are designed to survive the high pressures and extreme temperatures found on high performance engines, as such they will perform better and last longer especially if your Land Rover diesel engine has been given enhanced performance.

Terrafirma hoses are manufactured from high grade silicone polymer, thicker in construction than standard and reinforced with a high strength polyester fabric giving an operating temperature range of between -40°C to \pm 180°C.

Styling is all important; enhancing the look of your engine bay is possible by choosing from 3 bright colours including the classic bright blue, orange and lime green. All embossed with the Terrafirma logo and part numbers.

Terrafirma silicone turbo and intercooler hose kits									
Hose Colour	Defender 200tdi	Defender 300tdi	Defender Td5	Defender Td4	Discovery 200tdi	Discovery 300tdi	Discovery Td5		
Blue	TF720	TF721	TF722	TF724	TF721	TF721	TF723		
Green	TF725	TF726	TF727	TF729	TF726	TF726	TF728		
Orange	TF730	TF731	TF732	TF733	TF731	TF731	TF734		





TERRAFIRMA EXHAUST PIPES

The Terrafirma range of 'de-cat' down pipes and silencer replacement pipes are intended to improve the performance and economy of diesel Land Rovers.

Save a fortune when your catalytic converter fails by fitting a Terrafirma 'de-cat' down pipe and enhance the performance and economy by de restricting the exhaust system.

UK MOT regulations suggest a maximum weight limit, above which a catalytic converter is not required. This permits replacement exhaust systems to be fitted. These pipes fit directly to the original system and require no modification.

Remove the power restricting and vulnerable centre silencer and fit a Terrafirma free flowing silencer replacement pipe and enjoy the new throaty exhaust sound.

Made from 1.5mm 409 stainless steel these pipes will considerably outlast the life of the original system.

Terrafirma 'de cat' down pipes	
Defender/Discovery 1/RRC 300tdi 1994-1998	TF560
Defender Td4 2007	TF561
Defender 1998-2007/Discovery 2 1998-2004	TF562
Terrafirma silencer replacement pipes	
Defender 200tdi 1991-1994	TF550
Defender 90 300tdi 1994-1997	TF551
Defender 90 300tdi 1997-1998	TF552
Defender 110 300tdi 1994-1998	TF553
Defender 90 Td5 1998-2007 and Td4 2007	TF554
Defender 110 Td5 1998-2007 and Td4 2007	TF555
Discovery 1 3.9Efi 3bolt flange type 1991-1998	TF556
Discovery 1 200tdi 1990-1994	TF557
Discovery 1 300tdi 1994-1998	TF558
Discovery 2 Td5 1998-2004	TF559





TERRAFIRMA BRAKES

Terrafirma brake discs offer increased bite from cold and excellent fade resistance in most 4WD braking applications. Whether it's a steep rocky descent, ploughing through mud and water or just daily driving these brake discs will give excellent stopping performance in all conditions.

Grooves are machined into the brake disc to force away the dust and gasses that build up between the pad and disc, keeping the brakes cooler and reducing fade. The cross drillings contribute to cooling and heat dissipation and also allow the gasses to escape. Of course they fill with mud

when off-road, clean them out afterwards when washing the vehicle to maintain performance and pad life, with the angled grooves it is found that they self clean in most cases. Quality machining to high tolerances using the correct materials ensure Terrafirma brake discs will stand any test.

With overweight four-wheel drive vehicles with oversize tyres it's important to find a set of brake pads that really do perform. A heavily laden expedition vehicle will quickly overheat brakes, very large tyres fitted to off-road vehicles also require extra brake pedal pressure to stop them turning. Many so-called performance pads are better suited to sports type driving styles where heat is required and can be maintained to enable the pads to really work. Even some well-known

brands require the temperature to build up before they start to work effectively.

To get the best from Terrafirma Cross Drilled and Grooved (CDG) brake discs we recommend the use of high quality brake pads such as Lockheed or TRW for best results. These pads give good bite from cold, work well off-road especially in low range with high torque engines and transmissions driving against the brakes. They have high wear resistance, low noise and above all when combined with Terrafirma CDG brake discs give a much improved braking performance.

For Terrafirma brake discs part numbers it is possible to simply apply CDG suffix to the original part numbers.





TERRAFIRMA BRAKES

Brakes offer increased bite from cold and excellent fade resistance in most 4WD braking situations. Whether it's a steep rocky descent, ploughing through mud and water or just daily driving, the brakes will give excellent performance.

Freelander (Pre 01)					
Front	Freelander (Pre 01)				
Front		Front	Solid	SDB100830	The state of the s
Front	Freelander (01 on)				
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Front Solid FRC7329CDG FTC902CDG FTC902CDG FTC902CDG FTC1381CDG	Discovery 1				
Vented FTC902CDG FTC1381CDG		Front	Solid	FRC7329CDG	
Rear					
Discovery 2		Rear			SAN TO A STATE OF THE SAN THE
Front Rear SDB000380CDG SDB000470CDG	Discovery 2				
Rear		Front	-	SDB000380CDG	
Discovery 3				1,300,000,000	
Front	Discovery 3	ricai	1		
SDB000614CDG SDB000636CDG 4.4 PETROL 4.0 PETROL & V6 DIESEL 4.4 PETROL 4.0 PETROL & V6 DIESEL 4.4 PETROL 4	2.00010.70	Front	VA	SDB000604CDG	4 0 PETROL & V6 DIESEL
Rear		TTOTIC			
SDB000646CDG SDB000646CDG A.4 PETROL		Poor	Participant Control		
SDB000646CDG		neal	Berlin Land		
Defender 90		A STATE OF THE STA			
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Rear		Front			
Range Rover Classic Front Solid FRC7329CDG Vented FTC902CDG Rear FTC1381CDG Range Rover P38 NTC8780CDG Rear SDB000470CDG Range Rover L322 Front Rear SDB000211CDG Range Rover Sport V6 DIESEL SDB000614CDG 4.4 PETROL Rear SDB000636CDG V6 DIESEL			Vented		
Front				FRC7329CDG To WA159806	
Vented	Range Rover Classic				
Rear FTC1381CDG		Front			
Range Rover P38 NTC8780CDG Front NTC8780CDG Rear SDB000470CDG Range Rover L322 NTC8780CDG Rear SDB000211CDG Range Rover Sport SDB000604CDG V6 DIESEL SDB000614CDG 4.4 PETROL Rear SDB000636CDG V6 DIESEL	46069		Vented		
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Rear	Range Rover P38				Market Market Control
Range Rover L322					
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Rear SDB000211CDG	Range Rover L322				
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SDB000614CDG 4.4 PETROL Rear SDB000636CDG V6 DIESEL	Range Rover Sport			A STATE OF THE STA	
Rear SDB000636CDG V6 DIESEL		Front			
			A Land	SDB000614CDG	
SDB000646CDG V8 PETROL		Rear		SDB000636CDG	V6 DIESEL
	11	1111		SDB000646CDG	V8 PETROL





TERRAFIRMA ALLOY WHEELS

Rock crawling, desert racing or enhancing the look of your Land Rover. Terrafirma alloy wheels do all three. This amazing wheel looks fantastic in either brilliant white, stealthy matt black or classy anthracite grey. This super strong and very stylish 6 spoke alloy wheel is rated at 1300kg per wheel and with the unique 'bead lock ready' outer rim provides incredible rock damage resistance and protection for the valve core. Each wheel is supplied with a new set of wheel nuts.

The unique bead lock ready outer rim allows the tyre to be fitted conventionally for normal on road, recreational off-road and other activities where normal inflation pressures would be used such as off-road racing. When low tyre pressures are needed and high side loads such as hard-core off-roading and rock crawling are experienced the tyre can be mounted on the outside of the bead lock ready rim and clamped in place using the Terrafirma bead lock kit.

The Terrafirma bead lock kit is a set of 4 specially machined alloy rings designed to clamp the tyre in place preventing it from being pushed off the rim at very low inflation pressures. The ring is machined in such a way that it

7x16, 5x165, 20mm off set Anthracite wheel

7x165, x165, 20mm off set White wheel

7x16, 5x165, 20mm off set Black wheel

Set of 4 bead lock rings and bolt kit

Terrafirma wheels

centralises the tyre on the wheel so that balancing is possible, something not usually achievable with other bead lock systems. The bead lock ring kit also includes alignment dowels and a full set of allen key cap head bolts and lock nuts. The bead lock ring is recessed reducing rock damage to the bolt heads. The bead lock rings are powder coated anthracite grey with discreet Terrafirma logos.

The Terrafirma bead lock alloy wheel is available in 5 x165 PCD which fits Land Rover Defender, Discovery 1 and Range Rover Classic. The rim width is 7"x16" which allows the fitment of 12" (300mm) wide tyres. When the tyre is fitted to the outside of the rim and retained with the bead lock rings then it becomes an 8" wide rim allowing for slightly wider tyres. The offset is 20mm meaning when both wheels are fitted the vehicle track width is 40mm wider allowing for increased steering lock with taller tyres and improved handling and more planted stocky looks.

These innovative wheels allow the bead locks to be retro fitted so that as your off-roading goes further so does your equipment.





Terrafirma Bead Lock Ring & Bolt Kit - TF103



TERRAFIRMA RECEIVER HITCHES

Land Rover tow bars are often one of the lowest points of a Land Rover significantly reducing the departure angle and frequently gets hung up while driving off-road. Due to the dual purpose nature of most people's vehicles, removing the tow bar altogether is not an option. Terrafirma Receiver Hitches help to maintain 100% versatility by providing a 'female' box section mounting point known and a 'receiver' fitted high up, close to the chassis out of harms way.

The Receiver Hitch allows a variety of 'male' attachments to be connected to your Land Rover including towing drop plates, recovery points and demountable winch cradles in fact the options are almost limitless.

The Terrafirma Receiver hitch has a 2" internal bore with enough tolerance to allow a snug fitting 2" external square section to be inserted and retained by a heavy pin and security clip.

Terrafirma Receiver hitches are available for a range of Land Rovers and include the necessary fitting kit and retaining pin. The drop plate provides three levels of height adjustment and the recovery point is machined to accept a common bow shackle.

Terrafirma receiver hitches	
Defender 90/110/130 1998	TF873
Defender 90 1998	TF876
Defender 110/130 1998	TF877
Discovery 1	TF874
Discovery 2	TF875
Drop plate	TF879
Recovery point	TF878
Spare retaining pin	TFHPIN

















TERRAFIRMA ACCESSORIES

Terrafirma Accessories is a range of products essential to enhance your Land Rover that do not necessarily fit into any particular category yet could have a significant part to play in the equipping of your vehicle. Accessories that are designed to increase strength and reliability as well as the style and performance of your vehicle can be found here.

Terrafirma Wheel spacers

Terrafirma 30mm alloy wheel spacers give an additional 60mm track width to all Land Rovers. The benefits are improved handling, cornering and stability as well as increased steering lock.

The opportunity to fit larger tyres due to the increased steering lock is a bonus not to mention the improved 'stocky or more planted' look to the vehicle.

These spacers are made from billet aluminium to the highest standards with high tensile studs and include a complete set of wheel nuts to ensure they are secured correctly.

Terrafirma Wheel Spacer - TF303

Terrafirma wheel spacers							
Defender	Discovery1/RRC	Discovery 2/ RR P38	Discovery 3/RR Sport/RR L322				
TF301	TF301	TF302	TF303				

Terrafirma drive flanges

Terrafirma heavy duty drive flanges are made from superior quality steel compared to the originals with increased spline contact area for additional strength and wear resistance. The flanges fit using the original gasket and bolts and are gold zinc plated for lasting good looks with a removable dust cap and O ring seal.

Terrafirma drive flanges							
Land Rover part No.	Terrafirma part No.	Type	Replacement Nut				
FRC5806	TF5806	Thick type	TF5806N				
FTC859/RUC105200	TF859	Thin type	TF859N				

Terrafirma Drive Flange - TF5806



Made from almost indestructible vacuum formed plastic the fantastic looking Terrafirma extra wide wheel arches are a full 2" wider than standard keeping your defender legal when fitted with bigger tyres, not to mention helping to keep the mud off the bodywork.

They are extremely straight forward to fit, simply line up the new wheel arches against the bodywork above where the originals used to be, mark the screw holes then drill and fix. The kit comes complete with all screws, plastic screw caps and edging strips.

All Defenders TF110

Safari snorkel grill

Terrafirma extra wide wheel arch kits.

When driving off-road some damage is inevitable, keeping your vehicle away from trees can sometimes be impossible when suddenly an insignificant looking branch smashes the intake grill on your expensive Safari snorkel. Replace it with this neat laser cut stainless steel version once and for all.

All Safari snorkels TF111

Terrafirma Wide Wheel Arch Kits - TF110







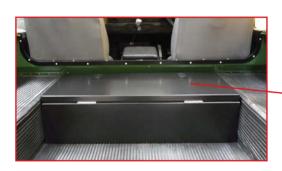


TERRAFIRMA ACCESSORIES

Defender seat risers

Terrafirma Seat Riser - TF872

For the taller Defender owner these are an absolute must! The driving position in a Defender is cramped at best but some additional comfort can be had by fitting these seat risers. Lifting the seat around 1.25" (30mm) and allowing the seat to move back a further 2" (50mm) gives more leg room and straighter arms without effecting head room unnecessarily. The seat risers are tapered to further ease comfort by very slightly tipping the seat forward. The kit bolts into all the original mounting points and includes all nuts and bolts. All Defenders TF872





Terrafirma Bulkhead Kit - TF871

K

Bulkhead removal kit

Another way of increasing comfort for taller drivers and passengers is to remove the bulkhead behind the seats allowing them to move further back and recline even more. Removing the bulkhead also provides easier access to the rear of your Defender. The bulkhead is cut away to a convenient structural point and the cut edges are hidden and full strength restored by fitting this kit leaving a factory finish. All Defenders with a bulkhead behind the seats TF871



The rear load space of a Land Rover Defender 110 Station Wagon is impossible to reach all the way into. There is never an easy way to get to the items stored far into the vehicle and it's almost always necessary to completely unload the car to get at what you need. The solution is a drawer! Load all the items that are needed more frequently into the drawer then load the 110 as required. Simply pull the drawer open to gain access to all your necessary equipment.

The drawer is lockable and secure, easy to open even loaded with over 100kgs of weight. The top deck is carpeted in a high grade automotive/marine carpet and lined with an anti slip mat.

Load space drawers are essential kit for expedition vehicles providing quick access to essentials while leaving the vehicle fully loaded. Also Ideal for shooters, fishermen and camera men, vets, mobile mechanics and farmers. Suits all Defender 110 Station Wagons TF884



TERRAFIRMA ACCESSORIES

Terrafirma side storage lockers

The perfect way to make the best use of the under body spaces on Land Rover Defender 110s. Making the most of the wheel arch cavities these beautifully engineered rust resistant stainless steel storage lockers are perfect for side access to tools, spares and equipment especially on expedition and utility vehicles. Each locker has a slightly raised door allowing for a rubber seal to effectively keep out dust and water to be incorporated. A flush fit lock and handle keep the doors tightly closed.

Defender 110 Station Wagon up to 2007 storage locker fitted into the left hand side rear quarter.	TF885
Defender 110 Station Wagon 2007 on storage locker fitted into the left hand side rear quarter.	TF886
Defender 110 Hard Top and Pick up all models side storage locker fitted between the cab door and the rear wheel arch on either side.	TF887



Terramina sand ladders

These 1.5m long 4mm thick perforated high grade aluminium sand tracks are perfect for preventing your vehicle sinking when crossing soft ground and sand. They are ridged for strength and perforated for traction. Part No TF888



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TERRAFIRMA ACCESSORIES

North American Spec (NAS) rear step tow bar

This classic accessory was first made in the mid 90s for the Land Rover Defenders exported to the US. The NAS rear step is also a tow bar and is securely bolted to the rear cross member of all Defender models.

Made from black powder coated steel tube and very stylishly fabricated including an alloy tread plate step the rear step nicely breaks up the traditional flat rear end of a Defender. The position of the towing bracket also allows easier hitching of a caravan or trailer as it is less obscured by the door mounted spare wheel. Suitable for all Defenders TF883



The electronic cruise control Kits are available for 2002-2007 Defender Td5 and the newest 2007 on Defender Td4. Functions are controlled by two buttons. The speed is adjusted using the SET button. When this button is held down, the Defender accelerates; when it is released, the Defender maintains the current speed. The second button, RESET/RESUME has two functions. If cruise control is active, pressing RESET/RESUME deactivates it. When it is pressed again, the most recently stored speed is recalled, and the Defender gradually accelerates automatically until this speed is reached. Cruise control is also deactivated when the brakes or clutch are used. Cruise control can generally be used at speeds of 45 km/h



These fabricated Jate rings are designed to replace the original chassis lashing down eyes and are intended to be used as

recovery points, as used by the MOD. Often they will fit with steering guards and or winch bumpers but will not fit the rear in conjunction with standard towing equipment. They can be fitted to the front and rear of all Defenders & Discovery 1s and to the rear of Discovery 2s. Part No. TF870

Terrafirma Jate Rings - TF870

7



TERRAFIRMA MERCHANDISE

To compliment the extensive range of accessories for Land Rovers Terrafirma offers a range of merchandise to help you show off your investment personally. The motor industry is packed full of powerful and exciting brands, many of which have become household names with masses of product, clothing and accessories bearing internationally recognised logos.

Terrafirma has rapidly become one of the most desired and recognised brands in the 4x4 industry. To help Land Rover owners demonstrate their confidence and pride having invested in Terrafirma a selection of T Shirts, Polo Shirts, Baseball Caps and Body Warmers bearing the stylish Terrafirma 'serious 4x4 accessories' logo has been created to allow you to really feel part of the brand.

Stickers, Dealer Signs and Plastic Carrier Bags are also available for trade and end user to further promote and represent the most exciting Land Rover accessory names in the World.

Terrafirma Merchandise							
	Body Warmer	Polo Shirt	T shirt	Baseball cap	Sticker	Carrier bag x50	
Medium	TF350	TF353	TF357		TF361 - 350x100mm		
Large	TF351	TF354	TF358	TF360	TF362 - 550x140mm	TF360	
Extra large	TF352	TF355	TF359		TF363 - 700x190mm		





WELCOME TO LIGHTFORCE COUNTRY

in your on or off-road performance. For over twenty years LIGHTFORCE have been the innovators in Hi-Tec portable lighting equipment We trust you will find this catalogue helpful



WHY CHOOSE LIGHTFORCE?

1: PRODUCT DESIGN & INNOVATION

Understanding market/customer needs and producing benchmark professional standard products.

2: SUPERIOR LIGHT OUTPUT

Achieved by combining mirror like specifically designed reflectors and superior bulb design choice. Whether competing in off-road motorsport or day to day driving, LIGHTFORCE enables you to see further and with less fatique

3: STRONG, LIGHTWEIGHT & DURABLE

LIGHTFORCE products are designed ultra tough utilising Hi-Tec composite materials resulting in light weight and extreme structural strength and durability. Ask any owner or long term user of a LIGHTFORCE product. Why would anyone want a heavy weight old-fashioned style light? Long term durability and performance is a win-win scenario for value and reliability.

4: UNIQUE MODULAR FILTER SYSTEM

LIGHTFORCE driving lights are designed to enable you to customise to changing driving conditions in seconds with no tools required! The clipon filter system is unique and a recognised favourite with the off-road enthusiast and professionals alike.

MEET THE OUTBACK LEGENDS!

No matter what your vehicle or driving conditions we have the solution. Available as standard with Xenophot® bulbs giving up to 20% more output than ordinary halogen bulbs. These are the lights that forged LIGHTFORCE's reputation 'outback'

ORIGINAL XENOPHOT® PERFORMANCE

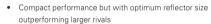
140 LANCE™ • VERSATILITY PLUS

It may be small, but the 140 LANCE™ can be a wise choice! If you need high performance in a compact package, this is the answer Off-road comp vehicles often install these as fog, winch, crawling or reversing lights with dispersion filters. Remember with LIGHTFORCE you can customise the colour and beam pattern to driving conditions! Make no mistake, even our smallest light is off-road race ready!

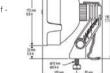
- Compact performance for any size or vehicle type
- 12V 75 watt Xenophot® 4000 hour bulb (maximum wattage) 24V halogen available
- LIGHT OUTPUT | 110 000 candela | 1 lux @ 450 m
- Lightweight poly carbonate, glass filled nylon composite construction
- · Ideal as a fog light (with opt. YELLOW / AMBER filter) or off -road reversing light
- Ideal for use as a winch light with a DISPERSION filter
- Gore-tex ® breather (IP57/67/68/IP69K) to protect against moisture/ contaminant ingress
- CLEAR SPOT clip-on poly carbonate filter supplied | Others available
- WEIGHT (single unit) 460g | 1lb .2oz

170 STRIKER™ • GIANT 'KILLA' The mid-size 170 STRIKER™ out performs many larger lights and is

one of our most popular models worldwide. It 's compact size makes it an easy install on most vehicles and with a set of COMBO or SPREAD filters it is incredibly versatile creating an ideal peripher allight pattern. Many race vehicles are equipped with a set of STRIKERS for their fill type output complimenting either the larger BLITZ/XGT or HID light for pure scorching distance.



- 12V 100 watt Xenophot ® 2000 hour bulb (24V halogen version available)
- LIGHT OUTPUT (12V) | 350 000 candela | 1 lux @ 650 m
- Lightweight poly carbonate, glass filled nylon composite construction
- Light output can be tailored from a WIDE, COMBO or long distance SPOT pattern
- Ideal additional light partnered with 240 BLITZ / X GT / HID for off road motorsport
- Gore-tex ® breather to protect against moisture/contaminant ingress (IP57/67/68/IP69K) CLEAR SPOT clip-on poly carbonate filter supplied | Others
- available
- WEIGHT (single unit) 560g | 1lb 3.75oz

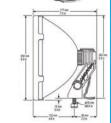


EMARK model compliance #HR PL 30 E2 0007091 - H1 12/24V 55/70W NOTE: If spacer removed or higher willbee bulb used, light will not be compliant.

240 BLITZ™• OUTBACK LEGEND

The 240 BLITZ™ was our first true long distance light and began our reputation for high performance and light intensity. It was not long before it became a favourite in the heavy transport, freight industry in Australia, Europe and Alaska. The combination of extreme light output, lack of vibration and durability made it standard equipment in many commercial fleets. If you desire long distance, power and value for money, the 240 BLITZ is certainly worth considering.

- Ideal long distance performance light
- 12V 100 w att Xenophot ® 2000 hour bulb (24V halogen version available)
- LIGHT OUTPUT (12V) | 730 000 candela | 1 lux @ 900 m
- Lightweight poly carbonate, glass filled nylon composite construction
- Gore-tex ® breather to protect against moisture/contaminant ingress (IP57/67/68/IP69K)
- CLEAR SPOT clip-on poly carbonate filter supplied | Others (E2) EMARK model compliance BHR PL E2 0006027-27,5 - H1 12/24V 55/70 NOTE: If specir removed or higher willings both used. light will not be comiliant
- WEIGHT (single unit) 880g | 1lb 15oz



GENUINE LIGHTFORCE RETRO-FIT HID KIT SO, YOU HAVE A SET OF RMDL LIGHTS?

Upgrade to the power and efficiency of cutting edge HID technology.

LIGHTFORCE engineered, ready for a quick easy DIY installation! Choice of 3200°K • 4200°K • 5000°K for the discerning enthusaist.

TRANSFORM YOUR EXISITING RMDL LIGHTS TO A NEW LEVEL OF LIGHTING PERFORMANCE!

The easy to install kit contains the exact same componentary as our ready to buy RMDL HID SERIES. Many 'conversion' kits in the market place compromise quality and design integrity resulting in less than optimum performance

The quality is in the detail.

With the genuine LIGHTFORCE kit you are 'race ready' guaranteed.

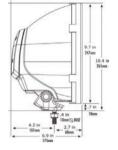


240XGT • POWER & VALUE

The 240 XGT is built on the award winning HID type housing and mounting system incorporating a 12V Xenophot ® 100 watt bulb. Without doubt our most popular light and for good reason! The combination of inherent mechanical strength and powerful output have made this the choice for off-road racers and the hardcore enthusiast worldwide.

- Ideal long distance performance light
- 12V 100 watt Xenophot ® 2000 hour bulb (24V halogen version available)
- LIGHT OUTPUT (12V) | 730 000 candela | 1 lux @ 900 m
- Lightweight polycarbonate, glass filled nylon composite construction
- Best value for OFF-ROAD motor sport or hardcore enthusiast
- Partner with a set of 170 STRIKERS for ideal spread and scorching distance
- Gore-tex® breather (IP57/67/68/IP69K) to protect against moisture /contaminant ingress
- Optional billet focal ring to increase beam width
- CLEAR SPOT clip-on polycarbonate filter supplied | Others available
- WEIGHT (single unit) 1.37 kg | 3lb .32oz

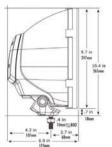




240HID • KING OF THE HILL

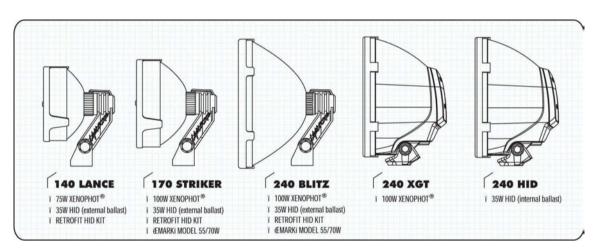
We debuted our first 240 HID back in 2001 with the legendary Rod Hall's Team Hummer. That victory and those to follow placed LIGHTFORCE at the elite edge. Design awards, industry and user accolades continue worldwide. No other HID offers the tunability to alter the focal length of the bulb and beam angle as you desire. The parabolic reflector projects the maximum light available and to this day remains arguably one of the most powerful driving lights in the world. Trophy Truck, Class '1' or any cutting edge off-road machine that deserves the best? Your ultimate light awaits.

- Ultimate long range driving light ideal for high speed off-road motorsport
- | I IGHT OUTPUT | 1 | lux @ > 1200+ m
- Lightweight polycarbonate, glass filled nylon composite construction
- Gore-tex ® breather (IP57/67/68/IP69K) to protect against moisture/contaminant ingress
- 12V 35 watt HID (internal ballast plug 'n play)
- Billet alloy focal rings for customizing beam angle pattern: 9.8° | 11.8°
- CLEAR SPOT clip-on polycarbonate filter supplied | Others available
- WEIGHT (single unit) 1.55 kg | 3lb 6.67oz



SIZE DOES MATTER!

On a full size truck or ute you need a full size light and the 240 series delivers the right look and more. The XGT with its Xenophot ® bulb is arguably the best value high performance light available. One step further again is the Baja winning 240 HID. Stellar!





MODEL	SIZE - H x W x D - metric	SIZE - H x W x D - imp	UNIT WEIGHT	WATTS	BULB TYPE	12 VOLT	24 VOLT	Ballast Location	Gore-tex® Breather	Stainless Fittings	MBS*** Bracket
140 LANCE	179mm x 142mm x 138mm	7.0" x 5.6" x 5.4"	460g 1lb .2oz	75*	XENOPHOT®	GL05	GL12	N/A	YES	YES	N/A
170 STRIKER	195mm x 173mm x 155mm	7.7" x 6.8" x 6.1"	560g 1lb 3.75oz	100	XENOPHOT*	GL02	GL13	N/A	YES	YES	N/A
240 BLITZ	242mm x 242mm x 177mm	9.5" x 9.5" x 7.0"	880g 1lb 15oz	100	XENOPHOT*	GL02	GL13	N/A	YES	YES	N/A
140 LANCE HID	179mm x 142mm x 138mm	7.0" x 5.6" x5.4"	460g 1lb .2oz	35	High Intensity Discharge	HID 5000°K**	HID 5000*K**	EXTERNAL	YES	YES	N/A
170 STRIKER HID	195mm x 173mm x 155mm	7.7" x 6.8" x 6.1"	560g 1/b 3.75oz	35	High Intensity Discharge	HID 5000°K**	HID 5000°K**	EXTERNAL	YES	YES	N/A
240 BLITZ HID	242mm x 242mm x 177mm	9.5" x 9.5" x 7.0"	880g 1 b 15oz	35	High Intensity Discharge	HID 5000*K**	HID 5000*K**	EXTERNAL	YES	YES	N/A
170 LANCE EMARK****	195mm x 173mm x 155mm	7.7" x 6.8" x 6.1"	560g 1lb 3.75oz	55/70	Halogen	H1	H1	N/A	N/A	N/A	N/A
240 BLITZ EMARK****	242mm x 242mm x 177mm	9.5" x 9.5" x 7.0"	880g 1lb 15oz	55/70	Halogen	H1	H1	N/A	N/A.	N/A	N/A
240 XGT	265mm x 247mm x 175mm	10.4" x 9.7" x 6.9"	1.37kg 3lb .32oz	100	XENOPHOT*	GL02	GL13	N/A	YES	YES	N/A
240 HID	265mm x 247mm x 175mm	10.4" x 9.7" x 6.9"	1.55kg 3lb 6.67oz	35	High Intensity Discharge	HID 4200°K	HID 4200°K	INTERNAL	YES	YES	N/A



THE QUALITY IS IN THE DETAIL

The bulb has been designed by LIGHTFORCE exclusively for use with our RMDL range of products. This unique LIGHTFORCE bulb reduces the shadow "V" line common in aftermarket kits.

Focal point of bulb is optimised to suit the Lightforce parabolic reflectors

Assembled lights come in pairs, fitted with 5000k bulbs in 12 or 24 volt

Optional bulbs available: 3200°K Ion Yellow (minimises glare in fog or dust) and 4200°K Natural White (used in our DL240HID) this is also the standard colour temp for the automotive industry.

Long 1.2 metre lead between ballast and the driving light allows remote secured mounting for improved theft prevention.

Fully sealed and waterproof.

Compact slim-line ballast

Waterproof connectors.

Billet aluminium bulb holder with distinctive blue anodised finish.



NEW HID MODELS **ANCE • STRIKER** BLITZ



140 LANCE™HID **DON'T LET ITS SIZE FOOL YOU**

The LANCE in HID format is redefining confined installation spaces. Combined with the

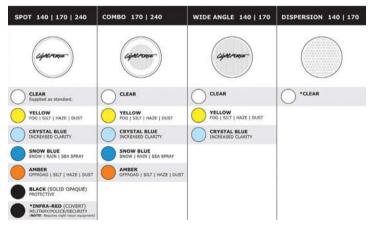
170 STRIKER ™ HID A WOLF IN SHEEP'S CLOTHING

The 170 STRIKER already has many fans but parabolic reflector and HID intensity projects a beam that sends many competitor's larger lights running for cover. Its versatility makes it at home on a touring vehicle or pure bred race

240 BLITZ ™ HID **SLEDGEHAMMER PERFORMANCE**

The 240 BLITZ™ HID offers a performance world that can compete when distance does

CLIP-ON FILTERS GIVE YOU MORE VERSATILITY



Cight FORCE Light FORCE

CUSTOMIZE YOUR LIGHT IN SECONDS

Without any tools you can clip-on a filter and change the beam and or colour to have the ideal light for any conditions. Safety and versatility makes this concept a clear market winner. See better. Drive safer.



his allows maximum distance and via various colours flows you to quickly change to suit driving conditions



ntial hazards and enhances your driving safety and



COMBO: The COMBO gives a wide beam pattern plus the bonus of long distance all in one. This is fast becoming the most popular LIGHTFORCE accessory



DISPERSION: Giving a highly diffused wall of light, is ideal for vehicle recovery, winching, rock crawling Customize your light to suit the conditions!

MODULAR FILTER SYSTEM

Made of polycarbonate, our filters are able to withstand impacts that literally can leave our opposition in pieces! Polycarbonate is used in fighter aircraft canopies, security screens etc. Our system even includes infra-red as supplied to the military and law enforcement agencies for covert operations with night vision gear.

It's a tough world out there and LIGHTFORCE is sought after for its unique performance where the majority fail.

Lightforce RMDL Driving Lights		
RMDL140HT	Lance 140mm	
RMDL170HT	Striker 170mm	
RMDL240T	Blitz 240mm	
E170T	170 ECE Approved twin pack	
E240	240 ECE Approved single unit	

HID Upgrade Kits	
RMKIT50	HID Upgrade Kit to suit single RMDL
GL25	Replacement bulb only suit RMDL

XGTDriving Lights	
DL240XGT	Driving Light XGT 240mm

Lightforce HI	D Driving Lights	
HID140T	Lance 140mm	
HID170T	Striker 170mm	
HID240T	Blitz 240mm	

Lightiored Lucks	
ENFORCPACK	Enforcer Pack: Enforcer 170mm handheld light
Marila I Sulata	

Work Lights		
	STUBBYWA	Stubby Work Light with bolt on/swivel base
	STUBBYSUCWA	Stubby Work Light with suction/swivel base
	STUBBYMAGWA	Stubby Work Light with magnetic/swivel base

RMDL Replacement Globes		
GL02	Globe 12V 100W	
GL05	Globe 12V 75W	
GL14	Globe 12V 30W	

Other Accessories				
LFDLH	Driving Light wiring harness			
ATN10MM	Security Nuts			



The ENFORCER is a feature packed portable searchlight system. We have sold thousands worldwide to the military, law enforcement and professional utilities groups. Supplied as a kit, the unit can be instantly converted between cordless (2.7 A/h NiMh) battery and coil cord operation (12V) from a vehicle. The 30W high efficiency bulb is complemented by a 3 LED system for a soft work light with extended run time. The ENFORCER is no pretender, it's the real deal.

Optional Filters & Covers		
140 - Lance		
FCLD	Clear Spot filter lens	
FCLWD	Clear Wide filter lens	
FBLUCLD	Crystal Blue Spot filter lens	
FBLUCLWD	Crystal Blue Wide filter lens	
FYLD	Yellow Spot filter lens	
FYLWD	Yellow Wide Angle filter lens	
FALD	Amber Spot filter lens	
FBLULD	Blue Spot filter lens	
CBLKLD	Black Cover filter lens	

170 - Striker	
FCSD	Clear Spot filter lens
FCSWD	Clear Wide filter lens
FCSWSD	Clear Combo filter lens
FBLUCSD	Crystal Blue Spot filter lens
FBLUCSWD	Crystal Blue Wide filter lens
FBLUCSWSD	Crystal Blue Combo filter lens
FYSD	Yellow Spot filter lens
FYSWD	Yellow Wide filter lens
FYSWSD	Yellow Combo filter lens
FASD	Amber Spot filter lens
FASWSD	Amber Combo filter lens
FBLUSD	Blue Spot filter lens
FBLUSWSD	Blue Combo filter lens
CBLKSD	Black Cover filter lens

240 - Blitz/XGT/HID		
FCBD	Clear Spot filter lens	
FCBWD	Clear Combo filter lens	
FBLUCBD	Crystal Blue Spot filter lens	
FBLUCBWD	Crystal Blue Combo filter lens	
FYBD	Yellow Spot filter lens	
FYBWD	Yellow Combo filter lens	
FABD	Amber Spot filter lens	
FABWD	Amber Combo filter lens	
FBLUBD	Blue Spot filter lens	
FBLUBWD	Blue Combo filter lens	
CBLKBD	Black Cover filter lens	

- 170 mm parabolic reflector for maximum distance performance
- 30W high efficiency bulb plus 3 LEDs for a work light mode
- Ergonomic Hi-Tec composite housing and handle designed for PRO use
- 12/24V vehicle charger included in sturdy fitted carry case (Mains charger dependent on region)

SECURITY NUTS

Well these are the next best thing to having a kangaroo standing by your vehicle with a cricket bat. The simple to install security

nuts will help protect your investment against opportunist 'LIGHT' fingered thieves. Each kit

consists of two half dome coded nuts and one keyed socket requiring a 21 mm, 13/16" spanner. These nuts will fit all LIGHTFORCE driving lights and other lights using a 10 mm bolt (M10 \times 1.5).

www.terrafirma4x4.com

PORTABLE POWER



ARB AIR LOCKERS

ARB air locking differentials are the ultimate traction aid.

It is often misconceived that four-wheel drive means exactly what it says, however off-road driving experience will often demonstrate that through conventional or 'open' differentials traction can easily be lost through spinning wheels that have no grip.

On road, the standard 'open' differential allows each wheel to turn independently at different speeds eliminating binding during cornering. Offroad, this becomes a major problem as power will take the path of least resistance, taking the route of the wheels with little or no traction.

The ARB air locker allows the driver to lock axles with the flick of a switch making sure drive is passed to the wheels with the most traction.

The air locker is engaged by compressed air which can be operated while on the move to ensure forward momentum is maintained.

Features:

road driveability or driveline wear.

on momentum, reducing the likelihood of Land Rover models. vehicle damage and environmental impact.

Easy, convenient operation allows the user to concentrate on the terrain without leaving the comfort and safety of the driver's seat.

Ultra durable and extremely strong, only the highest quality materials are used in the construction of ARB air lockers.

Incredibly simple yet effective design that Provides 100% traction without effecting on employs minimal moving parts ensuring maximum reliability.

Vastly improved traction means less reliance Front and rear air lockers are available for

NB Two air compressors are available for Air locker activation, a dedicated air compressor as well as a larger model which will also inflate tyres etc.

Please remember to change the 10 crown wheel bolts FTC5150 on every 24 spline ARB fitment.

ARB Air locker application guide and associated parts		
Defender 90		
1984-1993 10 spline	Front and Rear	RD127
1993> 24 spline	Front and Rear	RD128
2002> 24 spline with traction control	Rear	RD138
Defender 110/130		
1984-1993 10 spline	Front and Rear	RD127
1993> 24 spline	Front	RD128
1984-2002 Salisbury axle	Rear	RD20
2002> 24 spline with traction control	Rear	RD138
Discovery 1/RRC		
1990-1993 10 spline	Front and Rear	RD127
1993-1998 24 spline	Front and Rear	RD128
Discovery 2		
1998-2004	Front and Rear	RD138
Associated Parts		
Compact air compressor		CKSA12
Air compressor (inc. tyre inflation)		CKMA12
Tyre inflation kit		ARB171302
Heavy duty air locker air line kit		HDAL

ARB compact air compressor CKSA12

The ARB compact vehicle mounted air compressor is designed specifically to operate the ARB air lockers. The compressor comes complete with wiring loom and switch, relay and mounting bracket. The compressor is sealed for moisture and dust resistance and is produced with quality components for quiet operation and extra long life.

ARB large air compressor CKMA12

Tyre inflation kit ARB171302

ARB heavy duty air line hose kit HDAL

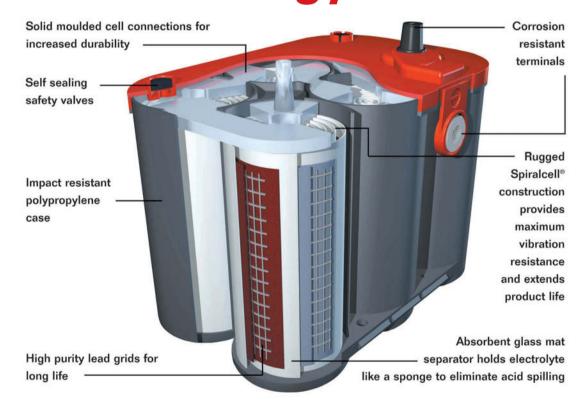
OPTIMA BATTERIES

The ultimate power source

The spiral cell technology of OPTIMA batteries was first used in 1969 for the US space program to power the Lunar Rover. Today, OPTIMA batteries are repeatedly proving their importance in a variety of applications. These include car racing, off-road and 4x4 vehicles, marine sport, leisure vehicles, military generators, cleaning equipment, emergency vehicles, construction vehicles, agricultural machinery, mobile generators, uninterrupted power supply, electrical vehicles, and many more.

Optima spiral cell technology.





- 1.5 2 times longer life than traditional batteries
- Optimal power for starting regardless of temperature
- Extreme vibration resistance
- Long Storage times without damage or discharge
- Non spillable even upside down
- Can be fitted and used in any position!
- Maintenance free
- More starting power in a smaller package than

- conventional batteries
- Less deterioration due to deep discharge than conventional batteries
- More "cycles" before aging than conventional batteries
- Can be used in extreme temperatures/buried for weather monitoring or surveillance purposes
- Faster charging is possible compared with conventional batteries!



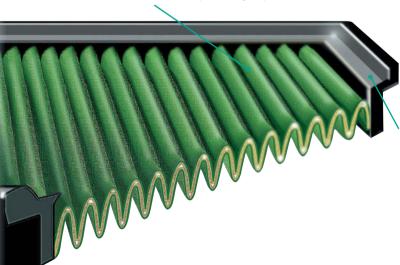


WHY CHOOSE A GREEN COTTON AIR FILTER?

Green Cotton Air Filters are one of the best on the market, designed and developed from supplying premium cotton air filters to the motorsport industry. These Air filters are 100% serviceable while filtering dirt and moisture particles down to 5 microns. Higher airflow increases engine efficiency, throttle response, horsepower and torque. The experience gained has promoted Green Cotton Filters to becoming Europe's largest cotton air filter manufacturer.

Deep Pleats for maximum air flow

Deep pleats in the doublelayered cotton create a 10-20% increase in filtration surface area. This increase allows a greater volume of air to move more freely into the engine cylinders.





Ionic Charge = Powerful Performance

Green High Performance Air Filters come pretreated with a specially-formulated dirt trapping oil. This oil creates a positive (+) magnetic charge, or ionic bond, with the filter's stainless steel mesh. The positive charge attracts the negatively (-) charged dust particles entering the filter, causing them to cling to the steel mesh and allowing the cotton to remain clear for maximum air flow.





Precision Production

Other filters use a simple pressure-moulded injection process to bond the perimeter rubber to the interior components.

That method saves manufacturing time, but in the process a considerable amount of rubber can seep onto the filtering surface. While it may not look like much, that spill-over rubber can restrict as much as 25% of the intended air flow. Green, on the other hand, uses a timeconsuming, and costlier, 4-step production process which virtually eliminate. seepage, and maintains a maximum air flow through the filter.

CONSTRUCTION

The most important aspect of any product is its construction and this is where Green Cotton Air Filters are head and shoulders above the competition. Green Filters are synonymous with motor sport and motor racing and so they have simply used their experience to produce their roadgoing air filter range.

Deep pleats in the double layered cotton gauze ensure there is a 10-20% increase in surface area to draw more air into the engine. The double layered cotton gauze is made up of a medium and fine layer to trap and hold dirt, dust and moisture particles as small as 5 microns. The gauze is held in place by a strong, fine, mesh that allows the filter to perform a perfect job. The moulded flexible rubber base offers an airtight seal and also absorbs vibration. It can also expand and contract to fit "in-between" sizes and help the filter maintain its form and shape.



100% serviceable - 100,000mile guarantee

Filtration of dirt and moisture particles down to 5 microns.

Easy 'factory quality' installation

Green in colour to visually indicate when the filter needs cleaning. **SERVICEABLE AND**

Deep pleats increase surface area by 10-20%

Disposed of less frequently, so kinder on the environment.



SERVICEABLE AND PERFORMANCE REPLACEMENT AIR FILTERS

Vehicle Type	Green Cotton	Land Rover	Description	Application
Defender	G491611 P918290	NTC6660 ESR4238	Air Filter Air Filter	90/110/130 200/300tdi 90/110/130 Td5
	P950406	PHE500060	Air Filter	90/110/130 Td4
Discovery 1	G491611	ESR1435/ESR2623	Air Filter	D1 200tdi
	R760022 P360468	RTC4683 ESR1445	Air Filter Air Filter	D1 3.5/3.9V8 -94 D1 300tdi/3.9V8 94-
Discovery 2	P918290	ESR4238	Air Filter	D2 Td5/4.0V8
Discovery 3	P970040	PHE000112	Air Filter	D3 TdV6/4.4V8
Range Rover Classic	R760022 P360468	RTC4683 ESR1445	Air Filter Air Filter	RRC 3.5/3.9V8 -94 RRC 300tdi/3.9V8 94-
Range Rover Sport	P970040	PHE000112	Air Filter	RRS TdV6/4.4V8
Range Rover L322	G491609 G591009	PHE000040 PHE000050	Air Filter Air Filter	RR L322 Td6 02- RR L322 4.4V8 02-06
Universal filters	K4.75 K3.65 B3.75 B3.65	- - -	Air Filter Air Filter Air Filter Air Filter	75mm dia. Cone 65mm dia. Cone 75mm dia. Cylinder 65mm dia. Cylinder
Filter cover sock	G9034 G9010	-	Filter sock Filter sock	SUITS K4.75, B3.75, B3.65 SUITS K3.65
Service items	NH01 NET1 NET05 H300	- - -	Cleaning kit Cleaning fluid Cleaning fluid Filter oil	2x .5litre 1litre .5litre .5litre



FRONT RUNNER

The ultimate overland driving destination for many people is Africa.

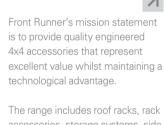
Scenery, wildlife, culture, space and remoteness it has it all in abundance, so where better then to source the finest range of expedition equipment than from Front Runner based in South Africa.

By utilising the very latest materials and technology combined with CAD (Computer Aided Design), and years of experience in the bush Front Runner has developed the most advanced and versatile range of Land Rover expedition accessories.



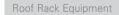
Front Runner roof racks are constructed using strong and lightweight aluminium extrusions incorporating a unique "T" slot that allows you to attach and remove your equipment easily.

This gives you endless flexibility eliminating the need to drill the rack to mount your tent and equipment. Roof racks come in various sizes and configurations to suit all Land Rovers.



The range includes roof racks, rack accessories, storage systems, side awnings, water tanks and auxiliary fuel tanks.





Roof rack feature include:

- High grade aluminium for light weight and strong construction
- T slot extruded floor with 8mm hex head bolt slot on top and bottom, for flexibility mounting accessories without drilling
- Additional legs can be fitted for greater load carrying
- Most racks are reversible with 1.35m open end for tent location
- Heavy duty black powder coating for long term resistance to the elements
- Lateral floor design to reduce wind noise while in motion
- Low profile perimeter to reduce drag and noise
- Gutter and track mounting systems both provide the strongest and most secure fastening to Land Rovers providing the highest load rating. Leg sets and mounting kits are fabricated to follow the contour to the gutter or roof of the vehicle
- Stainless steel gutter clamps



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FRONT RUNNER ROOF RACK ACCESSORIES

Front Runner's unique 'T' slot mounting system allows a large range of expedition equipment to be fitted including items such as a Hi-Lift jack, spade, axe, spare wheel mount and fuel and water cans etc. All the items are pre drilled to allow immediate fitment and can be adjusted into position as required so that the equipment is balanced and easy to access. All Front Runner roof rack accessories are high quality and produced from stainless steel and aluminium.

Front Runner Awnings

The Featherlite awning is one of the best in the business, at 3.3x2.7m it is the largest when fitted to the vehicle and unique in that it attaches to a 1m length of aluminium track fitted to the roof rack. The track can be attached on any side of the rack of front and back if required allowing you to position the awning to suit your needs. When stowed away, the awning measures around 1200x250mm and can be easily stored in the vehicle or on the roof rack.





Water is essential for maintaining hydration and good hygiene, a healthy quantity should be carried on expedition and storing it can be a problem with valuable space always at a premium. Front Runner deals with this with tough plastic water tanks designed to fit neatly into Defenders specifically, however they can be fitted into any 4x4 with similar dimensions.

Other useful Front Runner accessories include a bonnet spare wheel mounting kit for all pre 2007 Defenders, a brilliant under cubby box security box and rear cross member mount for your Hi-Lift jack for all Defenders. Discovery 3's make a fantastic touring vehicle but the spare wheel is underneath, Front Runner's chassis mounted rear swing away wheel carrier allows the spare to be mounted with easy access and makes way for the Front Runner 80 litre auxiliary fuel tank.



Front Runner Featherlite Awning inc Mounting Rail - FRAWN06

Front Runner long range fuel tanks

Front Runner has developed a range of high quality auxiliary and replacement fuel tanks for most Land Rovers. Made from CR12 Stainless Steel, these tanks are fully welded, baffled and tested before they leave the factory. They are also painted with a chip resistant coating to protect them against stones and the weather.

Each tank is supplied as a complete kit including the tank and mounting kit as well as all the necessary parts required to fill and empty the tank. There are no fuel gauges or level senders but it is possible to custom fit them if required.

Tanks mount to existing chassis points, so major modifications are not necessary and typically the ground clearance is not affected.

Front Runner Products		
Description	Application	Part Number
Roof racks		
Expedition rack 2.0x1.4m	Defender 90	FRLREX90
Expedition rack 2.8x1.4m	Defender 110	FRLREX110
Expedition rack 1.8x1.4m	Defender 130	FRLREX130
Expedition rack 2.2x1.4m	Discovery 1 and 2	FRDISCOEX
Slimline roof rack 2.0x1.4m	Discovery 3	FRDISCO4002
2 piece rear ladder	Defender 90/110	FRLR23
Rear ladder	Discovery 1 and 2	FRDISCO21
Rear ladder	Discovery 3	FRDISCO22
Roof rack accessories		
Double Jerry can holder		FRUN2009
Spot light mounting bracket		FRUN54
Hi-Lift jack mounting kit		FRUNWC05
Spare wheel mounting kit		FRUN29
Spade mounting kit		FRUNWC01
Tie down rings (set of 2)		FRUN11
Axe mounting kit		FRUNWC03
Roof tent mounting kit (30mm)		FRTENT16
Awnings and sides		
Featherlite awing (3.3x2.7m) inc mounting rail		FRAWN06
Featherlite awing front panel		FRAWN08
Featherlite awning side panels		FRAWN07
Fuel Tanks		
Fuel tank 40 litre auxiliary LH mounted	90 200/300tdi	FRLR40
Fuel tank 45 litre RH wheel arch mounted	110 200/300tdi	FRLR41
Fuel tank 45 litre auxiliary RH mounted	90 Td4/Td5	FRLR42
Fuel tank 45 litre RH wheel arch mounted	110 Td5	FRLR44
Fuel tank 44 litre RH wheel arch mounted	110 Td4	FRLR49
Fuel tank 40 litre RH wheel arch mounted	Discovery 2	FRDISCO43
Fuel tank 80 litre aux tank (wheel carrier req'd)	Discovery 3	FRDISCO45
Fuel tank guard	Discovery 3	FRDISCO36
Water tanks		
Water tank 36 litre LH wheel arch mounted	110 Td4	FRLR43
Water tank 44 litre LH wheel arch mounted	110 200/300tdi and Td5	FRLR46
Water tank 60 litre between wheel arches 830x300x265	90/110	FR870
Water tank 50 litre flat upright between wheel arches 1350x80x600	90/110	FR874
Water tank 40 litre roof rack mounted 480x350x310	FR875	
Accessories		
Bonnet spare wheel mounting kit	Defender 200/300Tdi and Td5	FRLR37
Under cubby box safe	Defender	FRLR101
Spare wheel carrier	Discovery 3	RTSPARE02
Rear bumper mounting kit for Hi-Lift jack	Defender 90/110	FRLR104



FRDISCOEX

7



FRUNWC03

7



FRLR37

7



SUPERWINCH

S³ Sealed Submersible

industry's best!

with a 3-year warranty, the

SUPERWINCH

Superwinch winches are trusted by professionals and weekend users Worldwide. In 40 years Superwinch has produced over two and a half million winches ranging from 1,000 to 30,000lbs pulling capacity. Popular 4x4 winches range from 8,500 to 16,500lbs and are suitable for all commercial winching and self recovery applications. The Popular LP and EP ranges are compact and easy to install due to super reliable electric solenoid pack being pre assembled on the winch.

pulley blocks, straps, shackles, wireless remote controls and other aids for

Selecting the correct winch and equipment is important for performing safe and successful winching operations. A winch is a powerful machine

Included in the Superwinch range is a range of accessories including safe and effective winching. and correct training will help to avoid accidental damage. The bridge design of the EPi9.0 covers the electrical components and gives your 4x4 a sleek profile. Robust 4.6 hp series wound motor standard on 9,000lb. models. Pull & turn clutch with stainless steel ergonomic EP series winches can be used with synthetic rope. (Outside-the-drum brake Drum supports the use of allows heat dispersion). 3/8" synthetic rope. Standard heavy-duty Roller Fairlead. Three stage planetary gears SUPERWINCH develop maximum power from a tough, series wound motor. Heavy-duty Clevis pinned and latched hook.

EP SERIES SUPER DUTY RECOVERY WINCHES

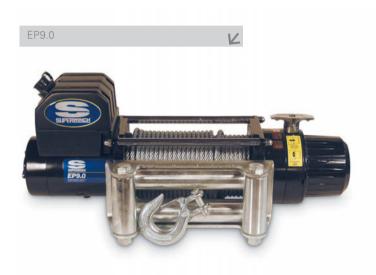
Superwinch EP-Series are packed with the

features you want: efficient three-stage planetary gear train, automatic outside the drum load-holding brake, sealed switching, rugged handheld remote, free spooling, power IN and OUT, and a roller fairlead standard. The pre-mounted contactor housing assembly can be easily removed and remote-mounted. Speed, power, and compact design make the EP series a must-have for recovery applications.

EPI SERIES HIGH PERFORMANCE RECOVERY WINCHES

The Superwinch EPi-Series is loaded with the same features as the EP-Series plus 25 feet additional wire rope and an attractive integrally-mounted sealed contactor bridge. Speed, power and good looks!

The EPi9.0S is equipped with 80 feet of high performance premium 3/8" synthetic rope, blue anodized aluminium hawse, a stainless steel thimble, and an impressive latched hook. Buyers get the same premium EP performance but with less weight on the vehicle. Fast becoming known as the best off-road winch available!





Standard Features

- 12VDC / Freespooling Roller Fairlead
- 4.6 hp Series Wound Motor
- Automatic Load Holding Braking (outside of drum)
- \$3 Sealed Submersible Solenoid with 3-Year warranty
- Heavy Duty Removable Clevis Pin, Latched Hook

Recommended Accessories

- Accessory Kit 2224
- 20,000lb Swing Away Pulley Block 7750A
- 3"x 8' Tree-Saver Strap 2531
- 2"x 20' Strap 2517
- Bow Shackles 2538
- Winch Cover (EPi) 2302305
- Winch Cover (EP with remote mount) 1566
- Front Wiring Kit 2007
- Trailer Wiring Kit 2008
- Wireless Control 06702
- Large Cradle Mount 2050

Specifications	
Rated Line Pull	9000lb (4082kg) Bottom Layer
Motor	4.6 hp (3.4kW) Series Wound, 12V DC
Wire Rope	21/64" (8.3mm) x 100' (38.1m)
Mounting Bolt Pattern	10" x 4.5" (254mm x 114.3mm)
Installed Weight	108 lb (49.1 kg) EP9.0 / 114 lb (51.8) EPI9.0

Performance 12VDC (Bottom layer on drum)			
Line Pull	Motor Amp Draw	Line Speed	
EP9.0: 9,000lbs (4082kg)	350 12V (210 24V)	6.4 FPM (2.0 M/M)	
EPi9.0: 9,000lbs (4082kg)	350 12V (210 24V)	6.4 FPM (2.0 M/M)	

EP16.5 & EP12.5

Standard Features

- 12VDC / Freespooling / Roller fairlead
- 5.6 hp Series Wound Motor
- Automatic Load Holding Braking (outside of drum)
- Planetary Gear-Train
- S3 Sealed Submersible Solenoid with 3-Year Warranty

Recommended Accessories

- Accessory Kit 2224
- 20,000 lb Swing Away Pulley Block 7750A
- 3"x 8' Tree-Saver Strap 2531
- 2"x 20' Strap 2517
- Bow Shackles 2538
- Winch Cover (EPi) 2302305
- Winch Cover
- (EP with remote mount) 1566
- Front Wiring Kit 2007
- Trailer Wiring Kit 2008
- Wireless Control 06702
- Large Cradle Mount 2050

Specifications	
Rated Line Pull EP16.5	16,500 lb (7484kg) Bottom Layer
Rated Line Pull EP12.5	12,500 lb (5670kg) Bottom Layer
Motor	5.6 hp Series Wound, 12V DC
Wire Rope EP16.5	7/16" (11.1mm) x 90' (27.4m)
Wire Rope EP12.5	3/8" (9.5mm) x 125' (38.1m)
Mounting Bolt Pattern	10" x 3.5" (254mm x 88.9mm)
Installed Weight EP16.5	150 lb (68.5kg) Winch & Rope
Installed Weight EP12.5	146 lb (66.2kg) Winch & Rope

Performance 12VDC (Bottom layer on drum)		
Line Pull	Motor Amp Draw	Line Speed
EP16.5: 16,500lbs (7484 kg)	385 12V (330 24V)	2.6 FPM (0.8 M/M)
EP12.5: 12,500lbs (5670 kg)	350 12V (310 24V)	3.0 FPM (1.0 M/M)



- Bow shackle 0509
- Pulley Block 7750
- Recovery Straps **201004** 75mm x 2m **201003** 50mm x 2m **201001** 50mm x 6m
- Winch and Recovery accessory kit 0505
- Portable winch mount 1559B Class 3 receiver, 2050 Winch cradle
- 6 Receiver shackle bracket 2546
- Roller fairlead 8584
- Superwinch Alloy Fairlead 90-24507



















- Superwinch contactor 90-14452
- 10 Radio remote control (suits EP range) 06702
- 11 Synthetic winch ropes

771025 10mm x 25m Synthetic Rope suitable for LP8500 and LP10000

771030 10mm x 30m Synthetic Rope recommended for LP8500, LP10000, EP9, EPi9, EPi9S and Husky

771038 10mm x 38m Synthetic Rope suitable for competition winches and EPi9 and EPi9S

771046 10mm x 46m Synthetic Rope suitable for competition winches Synthetic winch extension ropes

771025EX 10mm x 25m Synthetic extension rope 771050EX 10mm x 50m Synthetic extension rope

12 GunneboTM Hook 90-24511

LP8500 AND LP10000 WINCH

Superwinch's new LP8500 8,500lb (3856kg) and LP10000 10,000lb (4536kg) winches are designed to accommodate entrylevel buyers shopping for excellent value.

Meeting the rugged demands of off-road and utility use, the LP range introduces price conscious buyers to the quality, power, and performance advantages of the Superwinch brand.

Specifications	
Rated Line Pull	8500 lb (3856 kg) Bottom Layer
Motor	4.5 hp (3.3kW) Series Wound, 12V DC
Wire Rope	5/16" (7.9mm) x 94' (29m)
Mounting Bolt Pattern	10" x 4.5" (254mm x 114.3mm)
Installed Weight	76.0 lb (34.5 kg) Winch & Rope

LP8500		N
SUPERMISON SUPERMISON	SUPERVINER E	

Performance 12VDC (Bottom layer on drum)			
Line Pull	Motor Amp Draw	Line Speed	
8500lbs (3856kg)	320 12V	3.5 FPM (1.1 M/M)	

Standard Features

- Powers Load In and Out
- 4.5 hp Series Wound Motor
- Automatic Load Holding, Mechanical
- Planetary Gear-Train
- Circuit Breaker Protected
- Weather Sealed Solenoids
- Lever Shift Freespooling Clutch
- Heavy Duty Latched Hook with Rope Thimble
- Heavy Duty Powder Coated Hawse Fairlead
- Rubber Handheld Remote

Recommended Accessories

- Accessory Kit 2224
- Roller Fairlead 2302293
- Mount Plate & Roller Fairlead 2302294
- Pulley Block 7750A
- 2"x 8' Tree-Saver Strap 2531
- 2"x 20' Tree-Saver Strap 2517
- Bow Shackles 2538
- Winch Cover 2302305
- Large Cradle Mount 2050

WINCH-IN-A-BAG

Winch-In-A-Bag[™] a convenient self recovery winch kit with everything you need to keep going. Whether rescuing yourself or others from danger, unloading or loading your boat, off-road with your 4-wheel drive vehicle, ATV or snowmobile or on the job site pulling a load closer to your truck, this winch is handy and ready.

- 12V DC motor powers load In and Out
- Wire rope 5/23" (3.9mm) x 49' (15m)
- Pull and turn free spooling clutch
- 8' (2.4m) remote control
- 8-guate wiring with colour coded quick connects
- 4' (1.2m) and 6' (1.8) tree-saver straps
- 1 Ton shackle
- Direct connect wiring harness & circuit breaker
- Jumper cable wiring harness
- Storage bag

Benefits

• Rated line pull 2000 lb (907 kg)

• Completely portable

• No permanent installation requires

• Fast set-up and easy to use

• Can be carried from vehicle to vehicle





HUSKY SERIES WINCHES

The Superwinch Husky Series - We dare you to find tougher winches. With their rugged worm-gear drive mechanism and 4.2 horsepower series wound motors, the Husky 8 and Husky 10 are two off-road champions in their own right.

The case-hardened nickel spur gears and steel-centred phosphor bronze worm wheel matched to a case-hardened ground and polished worm shaft make this winch virtually indestructible. When only the best will do -- the only choice for serious commercial use is a Superwinch Husky.

Specifications	
Rated Line Pull Husky 10	10,000lb (4536kg) Bottom Layer
Rated Line Pull Husky 8.5	8,500lb (3856kg) Bottom Layer
Motor	4.2 hp Series Wound, 12V DC
Wire Rope Husky 10	3/8" (9.5mm) x 90' (27.4m)
Wire Rope Husky 8.5	5/16" (7.9mm) x 150' (45.7m)
Synthetic Rope Signature	3/8" (9.5mm) x 80' (24.4m)
Mounting Bolt Pattern	10" x 4.5" (254mm x 114.3mm)
Installed Weight H 8.5	113 lb (51kg) Winch & Rope
Installed Weight H 10	113 lb (51kg) Winch & Rope

South	Carren III	
2404		

2404	
12VDC Husky 10 without Roller Fairlea	ıC
2404A	
12VDC Husky 10 with Boller Fairlead	

Husky 8 2401 A

Performance 12VDC (Bottom	ı layer on drum)	
Line Pull	Motor Amp Draw	Line Speed
EP16.5: 16,500lbs (7484kg)	385 12V (330 24V)	2.6 FPM (0.8 M/M)
EP12.5: 12,500lbs (5670kg)	350 12V (310 24V)	3.0 FPM (1.0 M/M)

Husky 10 2404 A



12VDC Husky 8.5 without Roller Fairlead 2401A 12VDC Husky 8.5 with Roller Fairlead

Standard Features

- 12VDC / Freespooling / Roller Fairlead
- 4.2 hp series sealed permanent magnet motor
- \$3 Sealed Submersible Solenoid with 3-Year Warranty
- Solenoid housing removable for remote mounting
- Worm gear
- Lever-operated clutch
- Back-drive resistance, load holding brake system

Recommended Accessories

- Pulley Block 7750A
- Winch Cover 1566
- Roller Fairlead 8584
- Accessory Kit 2224
- Clevis Hook with Latch 90-20435
- Front Wiring Kit 2007
- Trailer Wiring Kit 2008
- Wireless Control System 06702
- Wireless Control 06702
- Large Cradle Mount 2050

Synthetic Rope

771025 10mm x 25m Synthetic Rope suitable for LP8500 and LP10000 771030 10mm x 30m Synthetic Rope recommended for LP8500,

LP10000, EP9, EPi9, EPi9S and Husky

 $771038\ 10 \text{mm} \times 38 \text{m}$ Synthetic Rope suitable for competition winches and EPi9 and EPi9S

771046 10mm x 46m Synthetic Rope suitable for competition winches

Winch Extension Rope

771025EX 10mm x 25m Synthetic Rope Extension 771050EX 10mm x 50m Synthetic Rope Extension



ROCK 95 & EPi9.0S

ROCK ON!

The Rock 95 rock crawling winch is a lightweight, very low profile and narrow winch that fits in between the frame of Rock Crawling and Challenge vehicles, with an industry-leading rating of 9,500lbs and multiple mounting options.

Designed with the brake outside the drum to reduce rope melting heat build up, the Rock 95 comes with 50 feet of synthetic rope, heavy-duty blue anodized aluminium hawse fairlead, a large 'Gunnebo' latched hook, and Superwinch's exclusive S3 Sealed Submersible Solenoid with 3-year Warranty (the best in the industry).

The winch will be delivered with the solenoid control box installed to the left facing over the motor (Off-Set Configuration), the customer has the option to relocate the control box in a location to suit the application and winch mounting position on the vehicle.



Rock 95

THE EPI9.05

The EPi9.0S is equipped with 80 feet of high performance premium 3/8" synthetic rope, blue anodized aluminium hawse, a stainless steel thimble, and an impressive latched hook. Buyers get the same premium EP performance but with less weight on the vehicle. Fast becoming known as the best offroad winch available!



Specifications	
Rated Line Pull ROCK 95	9500 lb (4309 kg) Bottom Layer
Rated Line Pull EPi9.0S	9000 lb (4082 kg) Bottom Layer
Motor	4.6 hp (3.4kW) Series Wound, 12V DC
Synthetic Rope ROCK 95	3/8" (9.5mm) x 50' (15.24m) Dyneema
Synthetic Rope EPi9.0S	3/8" (9.5mm) x 80' (24.4m) Dyneema
Mounting Bolt Pattern	10" x 4.5" (254mm x 114.3mm)
Installed Weight ROCK 95	57.6 lb (26.13 kg) Winch & Rope
Installed Weight EPi9.0S	69.0 lb (31.3 kg) Winch & Rope

Performance 12VDC (Bottom	ı layer on drum)	
Line Pull	Motor Amp Draw	Line Speed
ROCK 95: 9500 lbs (4309 kg)	385 12V	2.6 FPM (0.8 M/M)
EPi9.0SR: 9000 lbs (4082 kg)	350 12V	6.4 FPM (2.0 M/M)

Standard Features

- 12VDC / Freespooling / Roller fairlead
- 4.6 hp Series Wound Motor
- Automatic Load Holding Braking (outside of drum)
- Planetary Gear-Train
- **\$3** Sealed Submersible Solenoid with 3-Year Warranty
- Heavy Duty Removable, GunneboTM with Latched Hook
- Heavy Duty Aluminum Hawse Fairlead

Recommended Accessories

- Accessory Kit 2224
- 20,000 lb

Swing Away Pulley Block 7750A

- 3"x 8' Tree-Saver Strap 2531
- 2"x 20' Strap 2517
- Bow Shackles 2538
- Winch Cover (EPi9.0S) 2302305
- Front Wiring Kit 2007
- Wireless Control 06702
- Large Cradle Mount (EPi9.0S) 2050





Hi-Jiff

HI-LIFT

Don't Settle for an Imitation - The Difference is Quality

With over 100 years of quality, the Hi-Lift Jack is a rugged, highly versatile jack that puts you in command of situations requiring lifting, pushing, pulling, winching, and clamping. Although light in weight and easy to manoeuvre, the Hi-Lift Jack offers a rated capacity of 4,660 lbs (2114 kg) and a tested capacity of 7,000 lbs (3175 kg).

Only Hi-Lift Jacks are made with a two-piece handle and socket design that is built for extended life. Cheaper imitations use a one-piece design that bends easily if lateral pressure is applied while lifting a load.

Hi-Lift Jacks are designed to help you survive in the most demanding situations whether you are in the Moab desert canyons, the Welsh Mountains, the Amazon jungle, or the farmlands of Indiana. With a full-range of specially designed accessories, the Hi-Lift Jack is just about the most versatile piece of off-roading/farm/auto recovery equipment you can buy.

When it's a heavy-duty situation, the tool had better be a Hi-Lift!

Hi-Lift Jack Specifications

- Approximate weight: 30lbs (14 kg)
- 4660lbs (2113.74 kg) rated capacity
- Tested capacity 7000lbs.
- Climbing pins of specially processed steel with 125000psi tensile strength and 100000psi vield.
- Steel bar is manufactured of specially rolled extra high carbon steel with 80,000 pound minimum tensile & carbon .69 to .82.
- Steel handle of 14gauge high-yield structural tubing with minimum yield of 55000psi. 1 5/16" diameter x 30" long.

Hi-Lift Jack Features

- Every Jack comes complete with an adjustable top clamp/clevis for use in clamping and winching.
- Safety bolt is designed to shear at 7000lbs.
 (3175 kg)
- For speedy disengaging, lifting unit automatically drops away when load is removed.
- 4 1/2" (11cm) long lifting nose for positive contact with load.
- Steel bar can be reversed for extra long life.
- Low pickup of 4 1/2" (11cm).
- 28 square inch base plate.

Alleviate Jack Sinkage on Soft Ground

Increase your support surface area and make the original power tool even more versatile!

Use the Hi-Lift Off-Road Base to alleviate jack sinkage on soft ground.

Convenient to use, easy to store.
Rugged construction meets Hi-Lift Jack specifications for strength & durability.
Can be used with ANY model of Hi-Lift Jack



Protect your Jack from the Elements!

Hi-Lift Jack Protector protects your Hi-Lift Jack from weather, mud, dirt and sand. Made of durable vinyl-coated nylon, the Jack Protector is waterproof, as well as mildew and decay resistant.

Fits 36", 42", 48" and 60" Hi-Lift Jacks. The Jack Protector WILL work with the 4XRAC and the LOC-RAC. (user will have to place holes in protector)

Soft case easily stores.

Draw string closure.

Note: All working parts of the $60^{\prime\prime}$ jack are protected. However, the foot piece and $5^{\prime\prime}$ of steel bar are exposed.



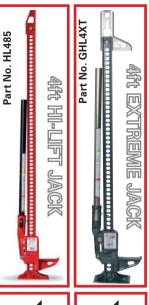
Part No. ORB Part No. JP350

Part No. HL485

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Which model should Lchoose?



Regular typical use (lifting, winching, clamping)	✓	~
Occasional rugged use (spreading, vehicle recovery)	V	V
Regular rugged use (spreading, vehicle recovery)		V
Red powder finish	V	
Charcoal metallic powder finish		V
Zinc-coated hardware	V	V
Winch-clamp-spread attachment		V

Before You Go Off-Road- Secure your Jack

The Hi-Lift 4XRAC is designed for serious off-roaders who are looking for an easy, inexpensive way to stow their Hi-Lift Jack in a convenient, secure location.

- 1/8" steel construction holds up under the strain of off-road travel
- A padlock can be placed through a hole in the carriage bolt.
- All mounting hardware and instructions are included (some drilling required)
- Mounting brackets are slotted for adjustment.
- Velcro handle strap secures handle to jack bar.

4XRAC Features:

Each kit contains 2 mounting brackets, 2 mounting bracket caps, a Velcro strap for securing the Hi-Lift's handle and all necessary mounting hardware



Lift Directly from the Wheel - Plastic Bumpers and Extreme Lift-Kits Are No Longer a Problem.

Many trucks and SUV's have larger tyres and/or lift kits that require extensive lifting height ability from the bumper jack. The Lift-Mate is designed to operate in a manner that allows the vehicle wheel to be lifted directly from the wheel, greatly reducing the amount of travel up the jack bar needed to lift the wheel to an adequate and safe height.

Lift-Mate Features & Specifications: Lift Capacity: 5000 lbs. (2273 kg) Rubber-Coated hooks to protect the wheel Rubber pad for protecting the tyre and wheel



Off Road Accessory Kit - Everything You Need to Winch with the Hi-Lift Jack.....All in One Convenient Gear Bag!

Use the Off-Road Kit to turn your Hi-Lift Jack into an even more versatile tool. This kit keeps all of the needed parts for winching at arms reach.

Off-Road Kit Includes:

- 1 Winch Tensioner
- 1 Custom Nose Attachment
- 1 8ft. Tree Saver Strap
- 1 Pair/Hi-Lift Gloves Hardware & Gear Bag



Part No. ORK

Handle Keeper Accessory

The rugged polyurethane Handle-Keeper holds the Hi-Lift handle to the upright steel bar, keeping it in place when not in use and eliminating "rattling" during transportation and storage.

The Handle-Keeper easily slips on and off over the Hi-Lift Top Clamp-Clevis to allow for proper use of the Hi-Lift Jack. The unique design eliminates the need to remove the Top Clamp-Clevis for putting on or taking off the Handle-Keeper.

*NOTICE: IT IS VERY IMPORTANT FOR THE HANDLE-KEEPER TO BE REMOVED DURING JACK USE TO ALLOW THE HANDLE TO BE PLACED IN THE FULL UPRIGHT POSITION AS STATED IN THE HI-LIFT SAFETY INSTRUCTION MANUAL.

Handle-Keeper Features & Specifications: Fits all models of Hi-Lift brand jacks Red

Part No. HKR

Extra Parts for Servicing all Hi-Lift Jacks

The Fix-It-Kit has the principle parts for servicing all Hi-Lift Jack lifting units.

Kit Includes:

- 2 Climbing Pins
- 2 Climbing Pin Springs
- 2 Cross Pins
- 1 Shear Bolt & Nut
- 1 tube of jack lubricant



LOC-RAC Accessory Conveniently Mount and Lock Your Hi-Lift Jack to the Bedrail of your Land Rover

Installation is simple. It can be mounted horizontally or vertically, with or without a Jack Protector. Your Hi-Lift Jack is mounted in an easy to reach location and is locked to deter theft. Designed to fit the bedrail of most pickups.

Loc-Rac Features:

Each kit contains 2 mounting brackets, a padlock, and all necessary mounting hardware



EEZI-AWN ROOF TENTS AND AWNINGS

Eezi-Awn Series 3 roof tents

Eezi-Awn set the standards in roof top tent manufacture. The new Series 3 and T Top versions are the latest design from the leading South African company. Eezi-Awn redesigned the side windows in the Series 3 to be much larger than before, and have modified the four interior pockets to meet the new window dimensions.

Series 3 Roof tents are manufactured with heavy duty 'Ripstop' canvas, double stitched throughout and stretched onto aluminium bows which are fixed onto top quality polyurethane coated plywood base boards supported with anodized aluminium hardware and stainless steel hinges.

Series 3 T-Top Roof tents offer all the rugged and durable features offered on the Series 3 with the addition of an in-tent ladder and an add-a-room feature. The T-Top essentially creates a room below the tent that can function as a changing room, or additional sleeping quarters. You can also access the back of your vehicle without leaving the tent giving you the best tent for the worst weather!



Eezi-Awn roof tent features include:

- Board locking mechanism anodised custom designed aluminium extrusions - the only roof tent in the industry that has this system.
- Mattress which is fabric covered 60mm laminated hi-density foam and chip. SABS approved.
- Flysheet of lightweight reinforced PVC supported free of roof by aluminium bows.
- · Mosquito mesh both entry doors and window openings.
- Zip-up privacy panels both sides to cover windows internally.
- Unique internal bungey mechanism to aid closing of roof tent.
- Two elongated internal storage pockets.
- Patented anodised aluminium retractable extension ladder.
- Large clip on add a room manufactured of heavy duty 'Ripstop' fabric and with special features of a full opening weather proof window and mosquito net door opening inclusive of rear panel and groundsheet.

Eezi-Awn Series 2000 awning

Eezi-Awn's fully retractable awnings are unique, self contained and maintenance free. They are precision-made to the highest standards with top quality laminated PVC fabric housed in compact lightweight anodised aluminium casings. Easy pull, roll-up torsion mechanism with attached adjustable arms and support legs complete these simple to operate awnings.

There are no loose parts to unfold. All legs, arms etc. are of an integral design and easily fold into the casing. The PVC is top quality and guaranteed waterproof, fungi proof and can even be rolled up wet.





Eezi Awn roof tent	s and awnings	
Part No	Description	Dimensions
EA-TENT14	Series 3 roof tent	1440×2440×1300
EA-TENT14T	T top roof tent	1600x2440x1300
EA-AW2000	Retractable awning	2000×2000
EA-AW2500	Retractable awning	2000×2500
EA-AW3000	Retractable awning	2000×3000
EA-RECVEETENT	Awning sides and front	2000
EA-RECVEETENT2	Awning sides and front	2500
EA-RECVEETENT3	Awning sides and front	3000







NATIONAL LUNA FRIDGE FREEZERS AND BATTERY **MANAGEMENT SYSTEMS**

National Luna develops and manufactures probably the best portable fridge have piece-of-mind when travelling to remote and rugged environments.

National Luna refrigerators are designed for extreme environments where ambient temperatures can be above 43 degrees Celsius and battery power is scarce. National Luna's reliable battery management products are tailormade for 4x4's and include dual-battery isolators and high-accuracy battery monitors.

The most popular refrigerators are the 'Weekender 50-Twin' and the 'Weekender 52'

The National Luna Weekender 50-Twin is the latest in the range and features both 40 litre fridge and 10 litre freezer compartments in the same body with an internal freezer lid. The fridge and freezer are individually cooled, ensuring superior temperature control and excellent power efficiency incorporating an advanced digital thermostat, battery monitor and selectable battery protection built-in. This allows the user to have complete control over the operation of the refrigerator as well as monitoring power usage.

The National Luna Weekender 52 is the ultimate small-family getaway refrigerator. This model has been designed to fit into most vehicles with space to spare and at the same time boast an enormous internal 52 litre capacity

New features such as built-in battery monitor, dual-hinging lid and removable cables is what sets the Weekender apart from others. Based on the proven freezers and battery management systems for the 4x4 and expedition design of original National Luna portable refrigerators, the Weekender range market. Based in South Africa National Luna guarantees their customers is built with superior materials and excellent workmanship, ensuring hasslefree operation even in harsh environments.







NL-S289 National Luna Weekender 50-Twin Fridge Freezer

50 litres (40 litre fridge, 10 litre freezer) Actual volume

385mm (w) x 710mm (l) x 506mm (h) , 845mm with lid raised External dimensions

Aluminium - 23.6kg. Weight

Metallic Grey aluminium with smooth aluminium interior Material

Power supply 12 / 24V DC, 100 - 240V AC

Power consumption * 12V - 2.5Amps average running current

1.53 - 2.6 amp/hour average power draw.

NL-S291 National Luna Weekender 52 Refrigerator

Actual volume 52 litres

External dimensions 385mm (w) x 710mm (l) x 506mm (h) . 845mm with lid raised

Aluminium - 23kg : Weight

Coated aluminium with smooth aluminium interior

1 x basket supplied as standard Power supply 12 / 24V DC. 100 - 240V AC 12V - 2.5Amps average running current.

1.53 - 2.26 amp/hour average power draw.

The National Luna DIY kit is a collection of all the parts you will need to complete a typical dual-battery installation (excluding battery). The kit includes cable, lugs, screws and other parts which are typically used in dual-battery systems. A full instruction booklet is included in the kit for easy reference.

National Luna battery management system

S355 - Battery management system complete kit

S380 - Battery management separate split charge unit

S390 - Battery management separate dual monitor unit

National Luna Weekender refrigerators

NL-S331 - 50 Twin & 52 Weekender mounting base plate NL-S312-50 Twin & 52 Protection jacket





S355

National Luna Battery Management Systems

A flat battery is at best an inconvenience, at worst it could be a matter of life and death. Almost all emergency, utility and expedition vehicles have dual battery systems comprising a starter battery, auxiliary (2nd) battery and a management system.

The National Luna battery management system automatically prioritizes the charge from alternator to the starter battery when the engine is running and isolates the starter battery from discharge when the engine is switched off.

This means that appliances and accessories such as fridges, lighting and camera chargers that will be used when the engine is switched off do not discharge the starter battery preventing the vehicle from starting.

The Intelligent solenoid has been designed to be a compact, automatic, parallel split-charge isolator for 4x4 vehicles. It features intelligent control electronics and a low-loss, high-current solenoid rated for extreme environments.

Installing the Intelligent solenoid is simple as it "piggy-backs" off the vehicle's main battery without any ignition "tapping", ensuring that existing vehicle wiring is not tampered with

National Luna dual-battery isolators work on a parallel charging principal, ensuring that there is minimal impact on your vehicle's charging system and electrical wirina.



Safety Devices®

SAFETY DEVICES INTERNATIONAL

Safety Devices International is a world leader in the design and manufacture of roll over protection systems (ROPS). With over 35 years of experience, originally in the high-tech world of motorsport, Safety Devices have designed over 2500 safety systems to fit almost any vehicle

Safety Devices' relationship with Land Rover began back in 1981, when the original Range Rovers of the Camel Trophy were fitted with Roll Cages. Arising out of its reputation of designing highly engineered and durable products Safety Devices was asked to work with Land Rover. Over the years, entire vehicle fleets were prepared at Safety Devices' premises, where a whole range of products including Roll Cages, Roof Racks, Ladders, Sump, Diff and Steering

It was during preparation for the 1983 event that Safety Devices originally conceived the external Roll Cage for the Land Rover Defender due to insufficient space within the cabin. This design is now commonplace and has since been replicated on a whole range of vehicles by a variety of manufacturers.

The partnership between Safety Devices and Land Rover was successful throughout the many years of Camel Trophy, continued through its spiritual successor the G4 challenge and remains strong to this day through both leisure and military requirements.





RBL0747SSS Discovery 1, 5 door, post '95 dash change, front legs go through dash, backstays from top of the B hoop to the rear of the vehicle for longitudinal strength. The cage is floor mounted with reinforcing plates, and manufactured from 45mm tube throughout.

RBL0807SSS Discovery 1, 5 door, post '95, for vehicles without rear AC, front legs avoid dash, the back stays mount from the rear hoop to the body of the vehicle for added strength, the cage is floor mounted with reinforcing plates and manufactured from 45mm tube throughout.

RBL0817SSS Discovery 1, 5 Door, Post '95, for vehicles with full AC, legs in front of dash, the back stays mount from the rear hoop to the body of the vehicle for added strength, the cage is floor mounted with reinforcing plates and manufactured from 45mm tube throughout.

RBL0247SSS Discovery 1, 3 door, front legs avoid dash. This cage has backstays from the top of the B hoop to the rear floor for longitudinal strength. The cage is floor mounted with reinforcing plates, manufactured from 45mm tube throughout.

RBL2167SSS Discovery 2, internal with a V brace in the B hoop, front legs pass through dash, this cage is floor mounted with reinforcing plates. It also has backstays from the rear hoop mounting to the rear of the vehicle. The cage is made from 45mm tube throughout.

RBL2197SSS Discovery 3, 2005, 9 point bolt-in cage, this is an internal cage with a V brace in the B hoop and front legs pass through dash, this cage is floor mounted with reinforcing plates. It also has backstays from the rear hoop mounting to the rear of the vehicle; the B hoop also includes seat belt mounting brackets. The cage is made from 45mm tube throughout.

NEW PRODUCTS

RBL2247SSS Defender 90 full internal cage mounts through floor to the chassis; B hoop has X diagonal and back stays mount to the waist rail. This cage is manufactured from 45mm tube throughout.

RRL2296SSS Universal roof rack. This roof rack basket will fit to a roll cage or directly to a vehicle with the correct fitting kit, it is manufactured from welded steel tube and available with or without flooring. Will be available with options of open single end or single or double sided.

RRL2296SSS-RCFK roll cage fitting kit RRL2296SSS-VRFK Defender roof fitting kit

RBL2303SSS Defender 60th Anniversary style bar. Manufactured from 63mm front hoop 45mm screen rail and 50mm side rails, comes with seals for all mounting plates.

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A range of popular Safety Devices Land Rover roll cages are listed below, to have a look at the roll cage technical drawings and to see the entire range visit www.safetydevices.

RBL0116SSS Defender 110 CSW, Rear Internal Cage, floor mounted with reinforcing plates throughout, 45mm hoops and 38mm connecting rails. B hoop includes seat belt mounting brackets

RBL0335SSS Defender 90 & 110 Hard Top, internal rear hoop with backstays (with headlining). B hoop mounted to the chassis through the floor and mounted at roof joint level, also with back stays mounted on to the capping. Hoop made from 45mm tube with 38mm back stays.

RBL0753SSS (FRONT) RBL0755SSS (REAR)
Defender 130 Crew Cab, Internal rear and
external front cage, the cage mounts to the
chassis through the floor at 4 points in the rear
and at the front down the A pillar through the
body at the front of the vehicle, the B hoop
also attaches to the seat belt mounts. It is
manufactured from 45mm tube throughout.

RBL1087SSS Defender 90, full external cage with bulkhead (similar to RBL2137SSS), the cage mounts to the chassis through the body at 6 points on the vehicle. The upper screen rail includes spot light mounting brackets and rear hoop includes ladder brackets for the L052 ladder. The cage is made from 45mm tube throughout.

RBL1155SSS Defender 90 & 110 Hard Top, Internal rear hoop with backstays (without headlining). B Hoop mounted to the chassis through the floor and mounted at roof joint level, with back stays mounted on to the capping. Hoop made from 45mm tube with 38mm back stays.

RBL1187SSS Freelander 10 point cage (Camel Trophy style) mounts to the floor and rear corner with reinforcing plates and to the seat belt mounts on the B hoop. Mounts through the dashboard. The seats are all useable with this cage. It is manufactured from 45mm tube throughout

RBL1417SSS Freelander 10 point cage (Camel Trophy style) mounts to the floor and rear corner with reinforcing plates and to the seat belt mounts on the B hoop. Avoids dashboard. The seats are all useable with this cage. It is manufactured from 45mm tube throughout

RBL1536SSS Defender 90 & 110, Truck Cab, full external (separate Fit Kits for 90 & 110), the cage mounts directly to the chassis at the front and to brackets supplied at the rear that must be welded to the chassis. This cage also has backstays for added strength.

RBL1727SSS Defender 110, NAS Euro Spec, full external cage, the cage mounts to the chassis through the body at 6 points on the vehicle. This cage has an internal hoop that mounts to the external cage through the roof and includes internal seat belt mounting brackets. The upper screen rail includes spot light mounting brackets and rear hoop includes ladder brackets for the L052 ladder. The cage is made from 45mm tube throughout.

RBL1817SSS Defender 90 CSW, with head lining and rear seats, external front section which joins to the internal rear section through the roof, the B hoop also includes backstays. This cage mounts to the chassis at the A pillar and 4 positions in the rear. The front legs and both hoops are made from 45mm tube with the connecting rails being 38mm tube.

RBL1857SSS Defender 110, Crew Cab Pick Up, NAS style full external cage, the cage mounts to the chassis through the body at 6 points on the vehicle. This cage has an internal hoop that mounts to the external cage through the roof and includes internal seat belt mounting brackets. The upper screen rail includes spot light mounting brackets. The rear cage is open backed to allow entrance to the buck.

RBL2137SSS Defender 90, Td5 Td4 full external cage without bulkhead (similar to RBL1087SSS) the cage mounts to the chassis through the body at 6 points on the vehicle. The upper screen rail includes spot light mounting brackets and rear hoop includes ladder brackets for the L052 ladder. The cage is made from 45mm tube throughout.



Safety Devices Roll Cages are designed using the latest, state of the art technology. Each new design is scanned using a FARO Arm to 0.1mm accuracy! This information is then fed directly into the company's CAD system, where the designs are optimised before stress analysis is completed. Once a design has been finalised, the electronic data is sent through to the manufacturing facility. All bent tubes are manipulated using an Addison CNC bender, straight tubes are profiled effortlessly using a CNC plasma cutter, while all plates are cut using a plasma plate cutter. The direct transmission of all electronic data eliminates human error and ensures all components are identical.

The Roll Cages are manufactured to the highest standard from the best quality, fully traceable steel produced to BS6323 pt 4 Grade CFS3 and

CFS5. Only qualified welders are employed and rigorous quality control checks are carried out before any product leaves the factory. After fabrication, all external components are grit blasted, zinc primed and powder coated. Each Roll Cage is given its own unique reference number which is imprinted onto the foot plates, ensuring full traceability for life.

2010 will be an exciting year for Safety Devices with the scheduled launch of many new products including roof racks and canopy supports. If you are looking for integrity of design and accuracy in manufacture, you can do no better that Safety Devices.

Still the Original - Always the Best



RECOVERY EQUIPMENT

Recovery equipment is essential off road kit, All 4x4 vehicles should have at least a tow rope, a shackle and a pair of gloves on board, winch equipped vehicles should carry more to make the best use of the winch and of course recreational and competitive 'winchers' will have selected a whole range of useful items such as different length straps, various shackles and snatch (pulley) blocks.

Only the best performing recovery equipment is considered to support Terrafirma 4x4 accessories.

Brands such as ARB and Marlow are serious when it comes to quality and performance. Here we have a range of products to ensure your off-road activities are carried out with safety and performance in mind.

Marlow synthetic winch ropes are available to suit most popular winch models.

ARB recovery kit is regarded by many competition offroaders as they only thing to have, without question it is top quality equipment, The range includes; tree strops, snatch blocks and essential items such winch cable dampers as puncture repair kits.

Allmakes has its own range of recovery kit selected from high quality manufacturers. Everything is tested and rated and is fit for both commercial and recreational use.

The Allmakes range includes: Rated shackles and snatch blocks, tow ropes & recovery ropes, choker chains and hook and eye winching straps and a selection of tree strops.









Allmakes reco	overy kit
Part No.	Green Pin® Hi-Load Shackles
GPABSA19	WLL 4.75 t Green Pin Bow Shackle - 22mm Pin [28.5t MBL]

Part No.	Standard Hi-Load Shackles - [Silver/Yellow Pin]
RBS3	WLL 3.25 t Bow Shackle - 19mm Pin [19.5t MBL]
RBS4	WLL 4.75 t Bow Shackle - 22mm Pin [28.5t MBL]

Part No.	Swing Away Snatch Blocks
RSSB 16	16000 lb 3 3/4" Dia Sheave Medium Duty

Part No.	Miscellaneous Products
RCC 08	Choker Chain - Grade 70 WLL 1.75t 8mm x 3m
	- Grab Hooks Each End [7t MBL]
AWG	Winching Gloves [Leather & Cotton]

Part No.	Tow Ropes
NTR 5	24mm Dia Nylon x 5m - [12000 Kg MBL]

Part No.	Kinetic Recovery Ropes
KTR 5	24 mm Dia Nylon Octoplait x 5m - [12000 Kg MBL]
KTR 8	24 mm Dia Nylon Octoplait x 8m Long - [12000 Kg MBL]

Part No.	Duplex Strops with Masterlink & Hook
DX3T02MMLH	90mm x 2m - c/w Masterlink and safety hook
DX3T03MMLH	90mm x 3m - c/w Masterlink and safety hook

Part No.	Duplex Tree/ Tow Strops
DX1T02M	50mm Wide Duplex x 2m - [7000 Kg MBL]
DX1T03M	50mm Wide Duplex x 3m - [7000 Kg MBL]
DX1T04M	50mm Wide Duplex x 4m - [7000 Kg MBL]
DX1T05M	50mm Wide Duplex x 5m - [7000 Kg MBL]
DX1T06M	50mm Wide Duplex x 6m - [7000 Kg MBL]
DX3T02M	90mm Wide Duplex x 2m - [21000Kg MBL]
DX3T03M	90mm Wide Duplex x 3m - [21000Kg MBL]
DX3T04M	90mm Wide Duplex x 4m - [21000Kg MBL]
DX3T05M	90mm Wide Duplex x 5m - [21000Kg MBL]
DX3T06M	90mm Wide Duplex x 6m - [21000Kg MBL]

ARB produce 2 versions of the recovery strap, both constructed of specialist nylon fabric with 20% elasticity and reinforced with cordura on the end loops to prevent chafing from prolonged heavy use. These straps are the ultimate for vehicle recovery.

Two moveable sleeves on the main section prevent chafing of the nylon material under various rigging configurations.

ARB 705 - ARB 8000kg 50mm wide Snatch recovery strap 9m long.

ARB 710 - ARB 11000kg 80mm wide Snatch recovery strap 9m long.



ARB Tree trunk protectors are constructed of green polyester so that the user may differentiate it at a glance from the orange-colored ARB snatch recover straps and the purple-colored ARB Winch extension strap.

The ARB Tree trunk protectors are 75mm wide and 3m & 5m long and are reinforced with cordura on the end loops to prevent chafing from prolonged heavy use. Two moveable sleeves on the main section prevent chafing of the polyester material under various rigging configurations.

The Tree trunk protectors will withstand 25,000 pounds of load before breaking. Vehicle recovery booklet included.

ARB 730 - ARB Recovery 12000kg 3m tree protector

ARB 735 - ARB Recovery 12000kg 5m tree protector



The 4x4 Adventure light is a tough, compact and lightweight 12v fluorescent light, suited to numerous outdoor activities.

The light intensity is simply stunning, yet the Adventure light draws a current of just one Amp from your standard 12 volt power socket in your vehicle, or a portable battery pack.

It comes with a 5 metre power lead incorporating a power switch and hanging points.

ARB 225 - ARB Adventure light 12v with canvas bag

Synthetic Winch Ropes

Synthetic 'Dyneema' 12 strand fibre winch rope made by Marlow which is 'Armourcoated' to protect it from dirt and grit during use.

Our ropes come complete with a large safety hook, protective sheath and attachment eyelet.

Advantages of Dyneema: 6x lighter than steel wire rope 70% stronger than steel wire rope Does not kink

No splinters Easy to splice and it floats

Our synthetic ropes are fully certificated.

ARB Winch extension straps are designed for extending the length of your winch cable when the most suitable anchor point is out of reach.

They are reinforced with cordura on the end loops to prevent chafing from prolonged heavy use and the purple color differentiates this winch extension strap from the orange-colored snatch straps.

Two moveable sleeves on the main section prevent chafing of the nylon material under various rigging configurations.

Vehicle recovery booklet included.

ARB 720 - ARB 4500kg 50mm wide winch extension strap 20m long.

ARB 725 - ARB 8000kg 80mm wide winch extension strap 20m long.



The unique, patented design of the ARB E-Z Tyre Deflator allows for rapid deflation, even of very large tires, while also providing accurate tire reading via the simple movement of a sliding valve.

The Bronze Bourdon Tube gauge design ensures accuracy is not affected by changes in temperature, humidity, or altitude, and is protected by a vinyl boot. The dial is large and legible, and provides accurate pressure readings in 1psi increments from 4 to 60 PSI. Protective canvas pouch and instruction sheet are included.

ARB 505 -ARB E-Z deflator





A snatch block is one of the most useful items of recovery gear that you can carry. The ARB snatch block incorporates a original feature of a greasable, hardened steel pin and easy glide side plates.

ARB 209 - ARB Snatch block 14500kg

The ARB Winch Cable Damper, when fitted to a rigged winch line, greatly diminishes winch line fling in the event of a winch line or anchor failure.

The ARB Winch Cable Damper is manufactured from heavy-duty vinyl and Velcro, and features internal storage pockets to facilitate carry of pulley blocks, shackles, tree straps, and other recovery gear from your vehicle to the anchor point.

ARB 220 - ARB Recovery cable damper

The ARB Speedy Seal Puncture Repair Kit quickly and easily repairs tubeless tires without having to remove the tire from the vehicle or the wheel

10000010 - ARB Speedy seal puncture repair kit



When used with the high output ARB compressor CKMA12, the pump up kit can be used for

tyre inflation in the field.

Comes complete with

airline and fittings.

ARB 171302 - ARB Tyre inflation kit

Even the most powerful winches sometimes need a helping hand. Double the pulling capacity of your winch with the ARB Snatch Block 9000. The unit scissors open to enable the insertion of a winch line. The Snatch Block 9000 features a 20.000 lb. working load limit.

10100020 - ARB Snatch block 9000kg ultra light



MANIMOUPINE 4 1x4



MAMMOUTH 4X4

Mammouth manufacture the finest quality and most comprehensive range of Land Rover Defender chequer plate available today. The philosophy is 100% quality and the entire range is ready to enhance even a brand new Defender.

All materials are UK sourced and the fully developed protection and tread plate products are made to full OE specification, the Mammouth Premium 3mm product range is leading the market due to excellent level of manufacturing, customers truly see a difference as soon as they open the packaging.

The Mammouth chequer plate range includes wing tops, bonnet plates, sill covers, rear corners, CSW quadrant panels, bumper tread plates and rear cross member covers. Vehicles catered for include Defender 90, 110 and 130 models from 1983 to 2007 as well as the newly released "Pumatec" range for 2007 Defenders which has subtle differences to earlier Defenders.

What sets Mammouth apart from all others is the attention to detail. All 3mm chequer plate products have fully chamfered edges, countersunk and de-burred holes which line up perfectly with the body and chassis. Premium 3mm chequer plate is supplied in 3 types; uncoated, silver anodised (15micron) or black powder coated (15 stage) and all products come supplied as a kit including stainless steel nuts & bolts and even a car sticker.

Mammouth 2, is a range of 2mm chequer plate products where the absolute best value is required. This product range offers the same degree of finishing as the Premium 3mm range and supplied uncoated and without a fixing kit.



	Mammouth Premium 3m	m Land Rover Defender Chequer Plate			
	Vehicle	Application	Finish	PART NUMBER	Unit
Wing tops	Defender 1983-2007 Defender 2007> Defender 2007> Defender 2007> Defender 2007> Defender 2007>	Wing tops inc S/S fittings no aerial hole Wing tops inc S/S fittings left hand aerial hole Wing tops inc S/S fittings right hand aerial hole Wing tops inc S/S fittings no aerial hole Wing tops inc S/S fittings left hand aerial hole Wing tops inc S/S fittings right hand aerial hole Wing tops inc S/S fittings no aerial hole Wing tops inc S/S fittings left hand aerial hole Wing tops inc S/S fittings right hand aerial hole Wing top foam gaskets Wing tops inc S/S fittings no aerial hole Wing tops inc S/S fittings no aerial hole Wing tops inc S/S fittings left hand aerial hole Wing tops inc S/S fittings right hand aerial hole Wing tops inc S/S fittings right hand aerial hole Wing top foam gaskets	Silver anodised Silver anodised Silver anodised Black powder coated Black powder coated Uncoated aluminium Uncoated aluminium Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	WTKIT01-NH/A WTKIT01-LAH/A WTKIT01-RAH/A WTKIT01-NH/B WTKIT01-RAH/B WTKIT01-RAH/B WTKIT01-LAH/U WTKIT01-RAH/U WTKIT01-RAH/U WTKIT01-RAH/U WTKIT03/A WTKIT03/B WTKIT03/U WT-GAS07	kit
Side Sills	Defender 110 Staion Wagon Defender 110 Staion Wagon Defender 110 Staion Wagon Defender 110 Hard Top/Pick up Defender 110 Hard Top/Pick up Defender 110 Hard Top/Pick up Defender 90 Defender 90 Defender 90	Side Sills inc S/S fittings 5 door Side Sills inc S/S fittings 5 door Side Sills inc S/S fittings 5 door Side Sills inc S/S fittings 3 door Side Sills inc S/S fittings Side Sills inc S/S fittings Side Sills inc S/S fittings	Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	SLKIT01-CSW/A SLKIT01-CSW/B SLKIT01-CSW/U SLKIT01-VAN/A SLKIT01-VAN/B SLKIT01-VAN/U SLKIT01-90/A SLKIT01-90/B SLKIT01-90/U	kit kit kit kit kit kit kit kit
Rear Corners	Defender 110 1983-2007 Defender 110 1983-2007 Defender 110 1983-2007 Defender 90 Defender 90 Defender 90 Defender 110 2007> Defender 110 2007> Defender 110 2007>	Rear Corners inc S/S fittings slim style Rear Corners inc S/S fittings slim style Rear Corners inc S/S fittings slim style	Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	CNKIT01-110/A CNKIT01-110/B CNKIT01-110/U CNKIT01-90/A CNKIT01-90/B CNKIT01-90/U CNKIT02-110/A CNKIT02-110/B CNKIT02-110/U	kit kit kit kit kit kit kit kit
Bonnet Centre	Defender 1983-2007 Defender 1983-2007 Defender 1983-2007 Defender 2007> Defender 2007> Defender 2007>	Bonnet Centre chequer plate inc S/S fittings Bonnet Centre chequer plate inc S/S fittings Bonnet Centre chequer plate inc S/S fittings Full Bonnet chequer plate inc S/S fittings	Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	BCKITO1-DEF/A BCKITO1-DEF/B BCKITO1-DEF/U FBKITO1-07/A FBKITO1-07/B FBKITO1-07//U	kit kit kit kit kit kit
Bumper Treadplates	Defender Defender Defender Defender Defender Defender	Bumper Treadplates short inc S/S fittings Bumper Treadplates short inc S/S fittings Bumper Treadplates short inc S/S fittings Bumper Treadplates long inc S/S fittings Bumper Treadplates long inc S/S fittings Bumper Treadplates long inc S/S fittings	Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	BTS-KIT/A BTS-KIT/B BTS-KIT/U BTL-KIT/A BTL-KIT/B BTL-KIT/U	kit kit kit kit kit kit
Quadrant	Defender 110 Staion Wagon Defender 110 Staion Wagon Defender 110 Staion Wagon	Quadrant chequer plate inc S/S fittings Quadrant chequer plate inc S/S fittings Quadrant chequer plate inc S/S fittings	Silver anodised Black powder coated Uncoated aluminium	RQKIT01-110/A RQKIT01-110/B RQKIT01-110/U	pair pair pair
Rear Cross Member	Defender Defender Defender	Rear Cross Member chequer plate Rear Cross Member chequer plate Rear Cross Member chequer plate	Silver anodised Black powder coated Uncoated aluminium	RCMKIT01-DEF/A RCMKIT01-DEF/B RCMKIT01-DEF/U	each each each
Rear Cross Member	Defender 1983-1998 Defender 1983-1998 Defender 1983-1998 Defender 1998-2007 Defender 1998-2007 Defender 1998-2007	Fuel Filler Surround	Silver anodised Black powder coated Uncoated aluminium Silver anodised Black powder coated Uncoated aluminium	FF-TDI/A FF-TDI/B FF-TDI/U FF-TD5/A FF-TD5/B FF-TD5/U	each each each each each
	Mammouth 2 uncoated 2	mm Land Rover Defender Chequer Plate			
	Vehicle	Application Finish	Part Number	Unit	
Wing tops	Defender 1983-2007 Defender 1983-2007 Defender 1983-2007	Wing tops no aerial hole Wing tops left hand aerial hole Wing tops right hand aerial hole	Uncoated aluminium Uncoated aluminium Uncoated aluminium	WTP2MV-NH/U WTP2MV-LH/U WTP2MV-RH/U	pair pair pair
Side Sills	Defender 110 Staion Wagon Defender 110 Hard Top/Pick up Defender 90	Side Sills Side Sills Side Sills	Uncoated aluminium Uncoated aluminium Uncoated aluminium	SL2MV-CSW/U SL2MV-VAN/U SL2MV-90/U	pair pair pair
Rear	Defender 110 Defender 90	Rear Corners Uncoated aluminium Rear Corners Uncoated aluminium	CN2MV-110/U CN2MV-90/U	pair pair	
Corners			1	i	
	Defender 1983-2007	Bonnet Centre chequer plate	Uncoated aluminium	BC2MV-DEF/U	pair
Corners	Defender 1983-2007 Defender Defender	Bonnet Centre chequer plate Bumper Treadplates short Bumper Treadplates long	Uncoated aluminium Uncoated aluminium Uncoated aluminium	BC2MV-DEF/U BTS-2MV/U BTL-2MV/U	pair pair pair
Corners Bonnet	Defender	Bumper Treadplates short	Uncoated aluminium	BTS-2MV/U	pair



MANTEC ACCESSORIES

For 20 years this renowned British specialist vehicle equipment manufacturer has been supplying dependable, high quality accessories for Land Boyers

Originally specialising in raised air intakes (snorkels), the Mantec product range has grown over the years to include raised transmission breather kits, spare wheel carriers, steering guards, under body protection, sand tracks & bridging ladders, window guards, and winch bumpers.

All Mantec products are produced to Land Rover factory standards in a purpose-built factory in the UK and are conceived, designed and engineered specifically for the demanding off-road work that Land Rovers are built for.

Vehicles equipped with Mantec products are used all over the world in many different environments and applications, from private expeditions to military operations, even in disaster relief. These users trust the Mantec name giving them quality and reliability.

Mantec accessories are often approved by Land Rover and have been fitted to Land Rover supported events such as the famous G4 Challenge.

Mantec also produce a range of useful equipment and accessories to further enhance your Land Rover such as tools and sand ladders etc.



4-SB-07 Security Cubby Box

Winch bumpers from Mantec have been selected by Land Rover Special Vehicles and by fleet users around the World. These operators demand their accessories match the demands of the vehicles they are bolted to.







Steel Mantec snorkels uphold tradition while their new plastic options use the very latest materials to ensure they perform faultlessly in all climates and conditions. The Defender Flexilite snorkel (shown) is designed to complement the latest technology employed by Land Rover.

A range of transmission breather kits compliment the raised air intakes, bringing the axle and gearbox breather pipes to the height of the engine air intake. This helps to prevent water being taken into the transmission when travelling through deep water.







Mantec Spare wheel carriers are designed to relieve the stress and

vibration on the rear door caused by the weight of the spare wheel. The unique patented telescopic piston connection between the rear door and the spare wheel carrier allows the carrier to swing open in conjunction with the door. All the weight of the spare wheel is taken off the back door by the spare wheel carrier which is mounted onto the chassis.



Window guards maximise the security of your belongings,
Defenders are often used in remote parts and in areas of conflict. Keeping your goods secure is usually of paramount importance regardless of your activity. Mantec offer the widest range of window guards for Land

I'VVY I EL



Part Number	Product	Vehicle	Model
10-WK1-NA	Transmission breather kit	Defender	Normally aspirated diesel
10-WK1-TD	Transmission breather kit	Defender	Turbo diesel
10-WK1-TDI200/300	Transmission breather kit	Defender	200 & 300 Tdi
10-WK1-V8	Transmission breather kit	Defender	V8
10-WK3-TD5	Transmission breather kit	Defender	Td5
1-DEX/04	Steel raised air intake	Defender	Normally aspirated diesel
1-DEXV8	Steel raised air intake	Defender	V8
1-NAS90	Steel raised air intake NAS spec	Defender	V8
1-DSV5/L	Steel raised air intake	Defender	Turbo diesel & 200 Tdi
1-DSV5-L/RC	Steel raised air intake with roll cage	Defender	Turbo diesel & 200 Tdi
1-RRV8/TDI	Steel raised air intake	Range Rover	Classic V8 and Tdi
1-DIS200	Steel raised air intake	Discovery	200 Tdi
1-DPSV-L/04	Plastic raised air intake	Defender	200 Tdi
1-DIS300	Steel raised air intake	Discovery	300 Tdi
1-DIS/S11	Steel raised air intake	Discovery	Td5
1-DSV5	Steel raised air intake	Defender	Td5
1-DSV5/RC	Steel raised air intake with roll cage	Defender	Td5
1-DPSV-R/04	Plastic raised air intake	Defender	300 Tdi & Td5
1-DPFL-R	Flexilite plastic moulded raised air intake	Defender	300 Tdi, Td4 & Td5
1-FLR/V6	Steel raised air intake	Freelander	V6
3-SPG-FLR	Alloy sump guard	Freelander	Freelander 1
3-FLR-SPG/07	Alloy sump guard	Freelander	Freelander 2
33-SPG-319/NW	Alloy sump guard	Discovery	Discovery 3
3-SG-DIS	Alloy steering guard	Discovery	Discovery 1
3-SG-DIS-S11	Alloy steering guard	Discovery	Discovery 2
3-SG-DEF/07	Alloy steering guard	Defender	90/110/130
3-TG-DEF/110	Alloy fuel tank guard	Defender	110 Td4 & Td5
3-TG-DEF/90	Alloy fuel tank guard	Defender	90 Td4 & Td5
3-TG-FLR	Alloy fuel tank guard	Freelander	Freelander 1
3-FLR-TG/07	Alloy fuel tank guard	Freelander	Freelander 2
3-EG-FLR	Alloy exhaust guard	Freelander	Freelander 1
3-SILL-FLR-B	Alloy sill protectors black	Freelander	Freelander 1
3-SILL-FLR-S	Alloy sill protectors alloy	Freelander	Freelander 1



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Part Number	Product	Vehicle	Model
30-SPS110JP-U/7	Side protection sills	Defender	110
30-SPS90-U/7	Side protection sills	Defender	90
40-PK0010	Quarter Window Guards (per pair)		
4-WGR	Rear window guards - set of 3	Defender	90/110 <1999
4-WGR/99	Rear window guards - set of 3	Defender	90/110 1999-2002
4-WGR/02	Rear window guards - set of 3	Defender	90/110 2002>
4-WGR/02-NC	Rear window guards - set of 3 no rear brake light	Defender	90/110 2007>
4-WGRS.EX/02	Rear window guard rear door only	Defender	90/110 2007>
4-WGRS.INT/U	Rear window guards internal side - universal	Defender	
4-WGSET	Rear and side window guards - set of 5	Defender	90/110 <1999
4-WGSET/99	Rear and side window guards - set of 5	Defender	90/110 1999-2002
4-WGSET.INT/02	Rear and internal side window guards - set of 5	Defender	90/110 2002>
4-WGSET/02	Rear and side window guards - set of 5	Defender	90/110 2002>
5-WARN-9.5TI	Winch bumper - suits Warn 9.5Ti	Defender	Defenders no Air Con
5-WARN-9.5TI/AC	Winch bumper - suits Warn 9.5Ti	Defender	Defenders with Air Con
5-WB/8274	Winch bumper - suits Warn 8274	Defender	Defender no Air Con
5-WB/HUSKY	Winch bumper - suits Superwinch Husky	Defender	Defender no Air Con
5-WB9/A	Winch bumper - suits 9000lb winches	Defender	Defender with Air Con
5-WB-9000	Winch bumper - suits 9000lb winches	Defender	Defender no Air Con
5-WB-HUSKY/AC	Winch bumper - suits Superwinch Husky	Defender	Defender with Air Con
2-SA50/7	Spare wheel carrier <2002	Defender	90/110 not pick up
2-SA50-02/7	Spare wheel carrier 2002>	Defender	90/110 not pick up
4-TBH	Dual battery holder	Defender	90/110/130
4-SB-07	Security cubby box	Defender	90/110/130
8-AXE	Expedition axe		
4-AMK	Axe mounting kit		
8-PA	Expedition pick axe		
4-PMK	Pick axe mounting kit		
4-SMK	Shovel mounting kit		
4-JMK	Hi-Lift jack mounting kit		
4-ST	Alloy sand tracks		
4-STMB	Alloy sand tracks mounting kit		
4-BRIDGYS	Alloy bridging ladders		



WARN

WARN WINCHES

Warn is probably one of the World's most recognised brands in off road products. Warn have been producing winches for nearly 50 years and are synonymous with off roading.

WARN designs and manufactures winches and accessories that enhance the performance of four-wheel-drive vehicles. Their winches are for consumers who need powerful tools to assist in pulling, hauling, dragging or lifting.

ULTIMATE PERFORMANCE SERIES

FOR THE SERIOUS OFF-ROADER

Ambitious. Advanced. Tough-as-nails. Revolutionary technology fuels the best winches on the market today. No-compromise construction, extreme sealing and the highest in performance and reliability make them a perfect match for the serious off-roader. All deliver superior duty cycle with improved motor life. Backed by the WARN Limited Lifetime Warranty. Products include PowerPlant HP, PowerPlant HD, 12 XE, 9.5Xp and 9.5ti winches.



Warn XD9000 Pt No. 28500

A long-time best seller, the XD9000 is fast and reliable in real off road conditions. The compact body and separate control pack lets it work effectively in very tight spaces. It uses the 4.6-hp Series Wound motor and three-stage planetary gearing offered on most of our winches, so torque and line speed are outstanding.

XD9000 SPECS

Rated Line Pull: 9,000lbs. (4080kg) single-line

Motor: 12V 4.6hp Series Wound

Remote Control: Remote, 12' (3.7m) lead

Gear train: 3-Stage Planetary

Gear Ratio: 156:1

Clutch (free spooling): Sliding Ring Gear Brake: Automatic Direct Drive Cone

Weight: 78lbs. (35kg)

Wire Rope: 100', 5/16" diameter (30m, 8mm diameter)

Fairlead: Roller

Recommended Battery: 650 CCA minimum for winching

Battery Leads: 2 gauge, 72" (1.83m)

PREMIUM SERIES

CLASSIC DESIGN & PROVEN PERFORMANCE

Long-time best selling winches, such as the XD9000i and the M8274-50 have been chewing up the competition for years. Pulling capacities of up to 9000lbs. and compact, efficient and effective designs have made these cult favorites. Includes the WARN Limited Lifetime Warranty. Products include XD9000i, XD9000 & M8274-50 winches



Warn XD9000i Pt No. 27550

You will see more XD9000i winches on 4x4s than any other winch. No load line speed of 38-feet per minute and three-stage planetary gearing and the ability to run cool with low amp draw for long winching cycles are just a few reasons why. The XD9000i features an integrated control pack and all metal housing, which protects the winch's electrical components the way a roll cage protects you.

XD9000i SPECS

Rated Line Pull: 9,000lbs. (4080kg) single-line Motor: 12V 4.6hp, 24V 2.5hp, Series Wound Remote Control: Remote switch, 12' (3.7m) lead

Gear train: 3-Stage Planetary

Gear Ratio: 156:1

Clutch (free spooling): Sliding Ring Gear Brake: Automatic Direct Drive Cone

Weight: 85lbs. (38.5kg)

Wire Rope: 125', 5/16" diameter (38m, 8mm diameter)

Fairlead: Roller

Recommended Battery: 650 CCA minimum for winching

Battery Leads: 2 gauge, 72" (1.83m)



Warn XDC Pt No. 74700

Warn Industries has released its newest winch: the XDC. The WARN XDC has a low profile and compact shape to fit a wide-variety of bumpers. It has a 9500lbs. (4,310 kg.) line rating and an extreme duty cycle for long, efficient pulls. Additionally, the XDC features a thermometric protection device to ensure long motor life by suspending winch operation if the motor's temperature becomes elevated beyond its normal operating range.

For superior resistance to the elements, the XDC has extreme duty winch sealing, and full-face contract drum seals. Other amenities include a Gen II, Series Wound motor; a control box with a water resistant contactor; a high-gloss, chip-resistant powder-coated finish over chromate coating for superior corrosion resistance; and a multi-segment cam-actuated brake for positive operator feedback while winching. Also included is a remote control with a 12' (3.7m) lead with a built-in flashlight.

XDC SPECS

Rated Line Pull: 9500lbs. (4,310kg.) pull rating No-Load Line Speed: 29 ft./min. (8.8m/min)

Motor: 12V Gen II, Series Wound Gear train: 3-stage planetary

Clutch (free spooling): Sliding ring gear Brake: Automatic direct drive cone

Weight: 87.0lbs. (39.5kg.)

Wire Rope: 100' of 5/16" diameter (30m of 8mm)

Fairlead: Roller

Recommended Battery: 650 CCA minimum for winching

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Battery Leads: 2 gauge, 72" (1.83m)

Warn 9.5ti pt No. 67550

The WARN 9.5ti Thermometric winch packs 9500lbs. of pulling capacity into a massive aluminium die-cast body. This winch not only looks great, but sheds the elements like no other winch on the market: seals at the key points give extreme-duty water resistance. A Gen II Series Wound motor delivers just the right balance between torque and speed. Plus another Warn Industries first - operator feedback - the thermometric indicator gives the operator information about motor temperature during the winching operation.

9.5ti SPECS

Rated Line Pull: 9500lbs. (4310kg) single-line

Motor: Gen II, Series Wound

Remote Control: Remote switch, 12' (3.7m) lead

Gear train: 3-Stage Planetary

Gear Ratio: 156:1

Clutch (free spooling): Sliding Ring Gear Brake: Automatic Direct Drive Cone

Weight: 89lbs. (36.3kg.)

Wire Rope: 125', 5/16" diameter (38m, 8mm diam.)

Fairlead: Roller

Recommended Battery: 650 CCA minimum for winching

Battery Leads: 2 gauge, 72" (1.83m)





The fast, powerful WARN 9.5xp Extreme Performance is designed for the serious off-roader who demands a winch that will perform under the most extreme conditions in the world. With 9500lbs. of pulling power and the fastest line speed of any WARN winch under load, the 9.5xp delivers extreme performance that eats up the competition-even in competition. The 9.5xp winch features the High Output Parallel Series Wound winch motor that's the strongest and most durable in the industry. The 6 hp motor, 3-stage planetary gearing and extended-duty control pack work in sync to tackle the most demanding pulls. Full face contact drum seals, motor and end housing gaskets deliver extreme-duty water resistance. A high gloss, chip resistant powder coat finish over primer coated alloys affords superior corrosion resistance.

9.5xp SPECS

Rated Line Pull: 9500lbs. (4310kg) single-line Motor: 12V 6 hp, High Output Parallel Series Wound Remote Control: Remote switch, 12" (3.7m) lead

Gear train: 3-Stage Planetary

Gear Ratio: 156:1





Wire Rope: 100', 5/16" diameter (30m, 8mm diam.)

Fairlead: Roller

Recommended Battery: 650 CCA minimum for winching

Battery Leads: 2 gauge, 72" (1.83m)

Warn M8274-50 Pt No. 38631

Loved by off-roaders who compete, it's Warn's fastest winch. No load retrieval speed for the M8274-50 is 73.4 feet per minute, and that's not all. At 150 ft. of 5/16" cable, it also has a very long line capacity. Its unique spur-gear drive train and upright design are totally rugged. Its braking system delivers smooth operation with superior heat dissipation. Roller fairlead, remote control on a 12-ft. lead, free spool clutch and battery cables are included.

M8274-50 SPECS

Rated Line Pull: 8,000lbs. (3630kg) single-line Motor: 12V 4.6 hp/3.43kw Series Wound Remote Control: Remote, 12' (3.7m) lead

Gear train: Spur Gear Gear Ratio: 134:1

Clutch (free spooling): Sliding Motor Pinion Gear

Brake: Automatic, disc type Weight: 110lbs. (50kg)

Wire Rope: 150', 5/16" diameter (46m, 8mm diam.)

Fairlead: Roller

Battery Leads: 2 gauge, 72" (1.83m)





The PowerPlant Dual Force is an Ultimate Performance winch and compressor in one unit, and it's perfect for the off-road enthusiast. Powered by a 4.6 hp motor, the compressor produces 5cfm @ 90psi, with a built-in air tank and intercooler. You can air-up four 35" tyres from 8 psi to 35 psi in eight minutes or less, undo wheel nuts, and more. Best of all, the PowerPlant mounts to a vehicle like any other WARN winch. When you switch to winch mode, the PowerPlant delivers legendary WARN winch technology and reliability. And with a 9,500lb to 12,000lb capacity and line speeds of up to 26.9 you'll have plenty of pulling performance.

vehicle-mounted multi-tool: You'll wonder what you ever did without it.



Rated Line Pull: 9,500lbs. (4310kg) & 12000lbs. (5440kg) single-line

Motor: Gen II Series Wound 4.6 hp 12V, with Thermal Protection Shutoff Switch Remote Control: Remote switch with Thermometric LED and 12' (3.7m) lead

Gear train: 3-Stage planetary Gear Ratio: 156:1 & 261:1

Clutch (free spooling): Sliding ring gear Brake: Integrated direct-drive cone brake

Weight: 100lbs (45kg)

Wire Rope: 125' of 5/16" & 80' of 3/8

Fairlead: Roller

Recommended battery: 650 CCA minimum Battery leads: 2 gauge, 72" (1.83m)

Air Reservoir: 1/2 gallon with Integrated Air Intercooler High Air Flow Rating: 12cfm @ 0psi, 5cfm @ 90psi

Max Air Pressure: 100psi Air Pressure Switch: Yes

Air Hose: 12' nylon, with quick-disconnect. Brass air fittings and couplings



Warn 12.0XE Pt No. 78600

Once again, Warn Industries has raised the bar for winch performance. We've developed a product with more stamina than any other winch of its kind. More power. More speed. More endurance. The WARN 12.0XE winch gives you 12,000lbs. of pulling capacity with the longest duty cycle of any electric winch on the market today - the secret is its innovative cooling system.

Here's how it works: The specially designed cooling fan (which is mounted under the vehicle's hood) automatically turns on when the winch's motor reaches a certain temperature. The fan forces air through a hose and directly into the winch's motor housing, cooling the motor. The air then flows out of the motor housing via a second hose and is discharged.



Warn wireless winch remote control Pt No. 76080

The WARN Wireless Control System lets you operate your truck's winch remotely from up to 50' away. The system will work with any WARN winch with a 5-wire electrical system.

The system is easy to install and a cinch to use. For easy installation, the Wireless Control System comes with a receiver with an internal antenna, and all of the necessary mounting hardware. The receiver is potted for extreme resistance to water and the elements.

The weather-proof transmitter has two large buttons that make it easy to operate, even while wearing gloves, and its two-colour LED provides operator feedback. When installed, the system is simple to operate. To begin activation, hold down both buttons on the transmitter for five seconds until the two-colour LED turns green. This indicates the system has been activated. To begin the winching process, hold down the power-in or power-out buttons, and the LED will turn red, showing that winching is in process. The LED will blink if the transmitter's battery is low. System automatically turns off to conserve battery life.

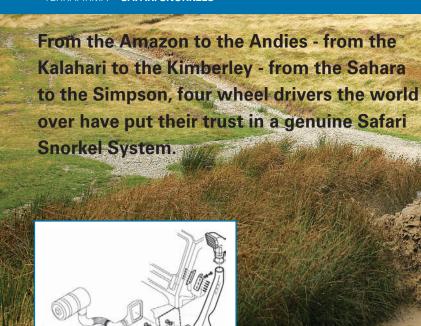
With the WARN Wireless Control System, you can now operate your winch with no strings (or wires) attached.



www.terrafirma4x4.com 75







Pioneered in Australia in the early 1980's, Safari Snorkels were born out of a need to protect 4WD engines from the hazards of dust and water commonly encountered in touring and off road applications.

In arguably the best, if not toughest environment, Safari Snorkel Systems are thoroughly researched, tested and manufactured specifically for each Land Rover. Genuine Safari Snorkels - the snorkel trusted by Australians and sold all over the World.

Safari Snorkel Systems are manufactured to the highest standards in durable, UV stable, cross linked polyethylene material and deliver a continuous and cooler additional protection from the supply of air for maximum engine performance. Each system includes quality fixtures and fittings that deliver superior sealing.

OEM levels of presentation and long-term durability. In addition, Safari Snorkels are positively sealed in order to provide the engine with the

ultimate in protection during river crossings and dusty desert driving conditions. All Safari Charge Air Rams feature a highly effective water separator system built right into the air ram in order to remove rain water from the incoming air stream - thus ensuring safe engine operation through even the most torrential tropical storms.

An added benefit of the unique Safari Charge Air Ram is that it can be rotated to any position. This means great peace of mind for those who plan to travel in cold or high altitude conditions where heavy snow falls are anticipated. By rotating the air ram to face away from the prevailing wind/direction of motion, the air ram delivers choking effects of snow buildup inside the air intake.

Safari Snorkels were twice awarded Best After Market Product of the Year by 4X4 Australia Magazine.





Safari Snorkel application guide				
Vehicle	Model	Part No.		
Defender	200Tdi 1990-1994	500HF		
Defender	V8 1990-1994	525HF		
Defender	300Tdi 1994-1998	550HF		
Defender	Td5 1998-2007	575HF		
Defender	Td5 1998-2007 left hand drive	575HF LHD		
Defender	Td4 2007>	580HF		
Discovery 1	200Tdi 1990-1994	300HF		
Discovery 1	V8 1990-1994	325HF		
Discovery 1	300Tdi &V8 Non ABS 1994-1998	350HF		
Discovery 3	TDV6 2.7 diesel 2004>	385HF		
Discovery 1	300Tdi & V8 with ABS 1994-1998	390HF		
Discovery 2	Td5 &V8 1998-2004	395HF		

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Serious 4x4 Accessories



Terrafirma is an Allmakes 4x4 brand

www.lrparts.co.uk

Terrafirma accessories are available in most countries throughout the World
To find your local distributor visit www.terrafirma4x4.com
or call: + 44 (0) 1235 821122

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