

## 2009 COMMITTEE

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# LANDROVING IN KZN



August 2009

P.O.Box 70650; Overport; 4067

Monthly Newsletter of the LROC of SA KwaZulu-Natal

Find our Home Page at [www.landroverclub.za.org](http://www.landroverclub.za.org)

Hi All,

This month's newsletter a technical section.

Some time ago I got the idea (obviously poaching from magazine's such as SA 4x4 and others) to include a "Technical Section" in the newsletter.

I then co-opted or "army volunteered" the following members as a "Technical Committee" or "panel of experts":

- George Goswell;
- Gary Evangelista;
- Jan Viljoen; and
- Leon Jacobs

The idea is that members submit a "Technical" question to me, I send it to the experts and we publish the answer.

The question I posed this month was "exactly what is an under-drive & what does it do?"

George kindly gave a very comprehensive answer which is included in this newsletter.

**Ed's comment**, "The newsletter is published regularly on an irregular basis every month, printed as and when it seems fit and delivered when it suits. It will be late on your time, **but on time, on my time.**"

If anyone out there has any questions or would like to be part of the Technical Committee plse send me an email.

Enjoy.

Ed

## "ROBBERY IN THE SUBURBS"

Durban has become a very dangerous place to live. Robbery is rife. It is so bad that yesterday even though the 2.5 m gate was closed we were robbed because we left the door open for air. Now have to live behind closed windows and doors, not just high walls. A whole troop of robbers, some babes in arms, invaded the kitchen and cleaned us out of fruit. With the price of fruit today this was no joke, lucky the veg were hidden away. Then to top it all, as they knew the justice system is so bad, they hung around the whole morning looking for more pickings and terrorising the dog. The country has really gone to the monkeys!!

## LROC KZN PROVISIONAL EVENTS DIARY 2009

When	What, where	More Info.	CONTACT PERSON	Grade
Sep / Oct	BOSTON DAY TRIP	The Boston trip has been moved and the details will follow	Jean Ambler 0832250669	1
20 Sep	FUN DAY	Cumberland Nature Reserve outside PMB, family social day. More info to follow.	Jean Ambler 0832250669	1
18 Oct	4 <sup>TH</sup> GATES	Venue to follow	George 0836581324	4 - 5
30 Oct – 1 Nov	ALBERT FALLS DAM	Halloween Camp over at Albert Falls Dam. More info to follow.	Jean Ambler 0832250669	1
Nov	LANDY VS TOYOTA	Land Rover vs Toyota challenge. More info to follow.	George 0836581324	3 - 5
Nov	SOCIAL	More info to follow	Jean Ambler 0832250669	1
27 – 31 Dec	LESOTHO	4/5 day Lesotho trip. Route info to follow.	George 0836581324	3 - 4
Jan 2010	DUZI CANOE	The LROC KZN provides support and marshalling on all 3 days of the Duzi Canoe race. If interested in helping for 1 day or all 3, please give Henry Cochrane a call.	Henry Cochrane 0829220370	1
Feb 2010	21 <sup>ST</sup> AGM LROC KZN	Its that time again, 21 <sup>st</sup> AGM LROC KZN.	Selwyn Ambler 0839926969	1 - 5

**NOTE : 3<sup>rd</sup> Gates Event .**

1. Only paid up LROC members will be able to compete in the Gates Events from now on.
2. Non LROC members welcome to attend as spectators.

Only LAND ROVER vehicles will be allowed to take part. No other make of vehicle.

**TRAIL GRADING: All our Events / Trails are graded according to the 5 grades below.**

1. Complete novice soft dirt road trail, no low range required. Suitable for all Land Rovers including the Freelander.
2. Limited low range required but suitable for the novice driver. Suitable for all Land Rovers including the Freelander.
3. Low range and limited off road knowledge required. Suitable for all Land Rovers with certain trails not suitable for the Freelander.
4. A low range technical trail suitable for the experienced. The inexperienced will be able to do the trail, as assistance will be available from the more experienced members. Suitable for all Land Rovers except the Freelander.
5. Extremely technical, suitable for the experienced only with the possibility of vehicle damage. Suitable for "Series" and modified Land Rovers.

### NON LROC KZN organized events but worth the trip

3 – 4 October	National Observed Trails	These bikes are the 4x4's of the motor bike world. KZN leg of the National Observed Trails Championship. (Rounds 5 & 6) A truly spectacularly 2 day event that will amaze all. Many spectator points from which to watch these wizards on motor bikes. Venue info to follow	George 0836581324	1
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## GATES SCORES – 23<sup>RD</sup> AUGUST 2009

George Goswell

Driver	Vehicle	Score	Springs	Gates Driven
<b>Modified</b>				
Jan Viljoen	D Rangie	240	Coil	7
Gary Evangelista	Def 90 V8	180	Coil	7
Alfie Shilton	Range Rover	140	Coil	6
Leon Jacobs	Range Rover	70	Coil	5
<b>Standard</b>				
Paul Stanley	Def 90 Puma	230	Coil	5
Byron Tonkin	Range Rover	200	Coil	5
Don Erwin	Range Rover	180	Coil	5
Johan Scheepers	Series 1	140	Leaf	4
Mike Cullen	Def 90 V8	No Score	Coil	#
4 Drivers filled in the score sheet but failed to complete any gates.				

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## “Any Given Sunday”

Kenneth Jones

Having missed out on the last Gates event – it was my wife’s birthday – and unexpectedly having been given a Sunday off – my daughter being invited for a play-date - I thought it would be fun to invite a couple of friends & re-enact our own mini-gates.

These kind of “spur-of-the-moment” things always seem to be better than any planned event can possibly be & ,boy, did we have fun.

We “re-created” some of the gates with a couple of us getting stuck in the mud run. We then took the “interesting” way home with some more recoveries along the way.

As always the photos tell the story with Leon’s landy easily getting the prize for best photo opportunity of the day – Gary a close second.





Photo of the day!



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## UNDERDRIVE or CRAWLER GEAR as its sometimes called.

### Why do I need one and what is the benefit ?

By George Goswell

In the good old days of Series Land Rovers with their 4 speed gearboxes the accessory to invest in was the Overdrive. The purpose of the Overdrive unit was to provide an additional set of gear ratios and in effect, a higher top gear while allowing the driver access to the standard range for heavy towing and low speed operation. It gave the 4 speed gearbox a 5<sup>th</sup> gear which reduced engine revs, which in turn reduced fuel consumption, driver fatigue, in cab noise etc. The fact that it worked so well may have been one of the reasons why the 5-speed gearbox was so long in coming to the market. The Underdrive does the opposite, it provides a lower set of gears.

Most owners of Land Rovers use their vehicles mainly for road use, but there are a few amongst us that use the Landy how it was intended to be used, exploring the tracks after the tar and dirt roads have stopped. For this, good ground clearance, traction and a vehicle capable of carrying a load over whatever the trail throws at you is required.

The best money one can spend on the Land Rover is to invest in a good set of All Terrain or Mud Tyres. For those that use their Land Rovers on grade 4/5 trails the norm is to go bigger than standard. Bigger tyres have their advantages and disadvantages. Better ground clearance, good off road traction in mud or soft sand etc but the downside is the larger diameter tyre affects the gear ratios. Changing gear ratios to correct or even better the original low gear ratio for off road use can be done in various ways.

- Change the diff ratios. This option will lower the low range gearing for off road use but will also change the normal ratios for road use. Higher revving engine, use more fuel, lower top end etc on the road means that this option solves the low range problem but causes a high range problem. Changing the Defender diff ratio from 3.54 to 4.7 will change the low ratio from 43:1 to 57:1.
- Change the low gearing in the transfer box. This option will reduce the low range ratios to about 77:1 and does not affect the normal high range. Requires a specialist to fit but is a good solution to correct the gear ratios changed by fitting big tyres.
- Fitting an Underdrive/Crawler Gear. The most expensive option but has the most benefit, about 116:1 low ratio.

The Underdrive box was designed to give owners of Land Rovers with the LT230 transfer cases a very low range option for off road use, but keep your highway gears in place... basically, the best of both worlds for dual duty Landies, and a great asset for off road hard core Land Rovers.

The addition of the Underdrive box allows you to retain your stock diff gearing for use on the highway, but have at your disposal a very low range crawl ratio offroad. So you can now drive to the trails at a decent rpm and highway speed, then when you reach the trail, you can have a crawl ratio that is much lower than anything else offered for the Land Rover. In fact you have the normal high range, your old low range and a new extra low range.

The stock low ratio in a Defender is roughly 40:1. On some trails the 40:1 ratio means a pretty fast crawl ratio, which can cause problems. Problems such as stalling, slipping the clutch, hard start offs on steep hills and the inability to tackle some obstacles. The under drive will drop your crawl ratio to over 100:1 (with 3.54 gears and lower with a change of the diff ratios). The slower the Landy will crawl, means more control on difficult sections and less strain on the engine and your body.

If you simply changed your diff gears you would cut your highway speed and raise your engine rpms on the highway and you wouldn't get anywhere near a crawl ratio of 100:1. The Underdrive is the best of both worlds of unbelievable crawl ratios combined with unchanged highway performance.

The installation of the Underdrive can be done without removing the gearbox or transfer box from the vehicle.



An underdrive gearbox makes use of the PTO mounting on the rear of the transfer gearbox ( blue colour item in the picture), and is effectively a complete additional gearbox between main and transfer 'boxes.

Fitting the unit is fairly simple. The bearing support / PTO cover is removed and the input gear drawn out. The Underdrive unit is fitted into the PTO housing. A separate gear lever is fitted in the cab to engage the Underdrive unit

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**The winch that made**  
**By George Goswell**

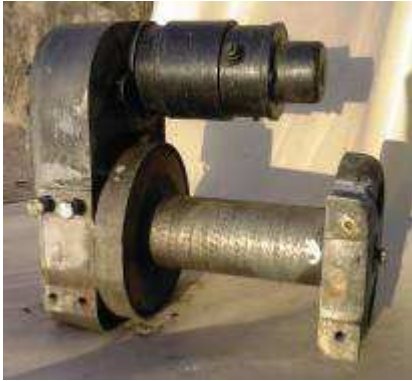


**famous was not designed by them!**

I picked up an old winch, which I was told was an old Warn 8274. The winch had no marking on it and I decided to do a little research on it. What I found was that the winch was made in 1959 by an American company called Belleview, based in Portland, Oregon. The company was the 1<sup>st</sup> company worldwide to fit an electric motor to a vehicle winch. Up to then all winches were mainly PTO driven or hydraulic. Warn at the time were not into winches and were manufacturing overdrives and free wheel hubs. Warn managed to purchase the Belleview Company in 1960 and branded the winch as their own. Belleview had rated the winch as a 6000lbs winch, which was changed to an 8000 lbs winch once marketed by Warn.

Warn initially called it the M5687 and later the M8000. The winch remained changed until 1974 when Warn updated the design and called it the M8274. The 8 stands for 8000lbs, the 2 for 2<sup>nd</sup> generation and 74 for the year, 1974. This was and still is one of Warn's best selling winches, known for its strength and speed and was not even designed by Warn.





The Bellevue winch was designed to be operated from inside the cab of the vehicle and had hand controls fitted to the dashboard. Controls are all push pull cables, which control the clutch (power in / free spooling out), manual hand brake and winch electric motor power. They do NOT have a power-out option, which is their only disadvantage otherwise these are strong durable winches, which are sought after in the USA for fitment to vintage 4x4 vehicles.

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## **FITTING NEW OVERSIZE BF GOODRICH MUD-TERRAINS Kenneth Jones**

I wish I could say that I was the one fitting new tyres but unfortunately not.

The lucky recipient of new tyres was “Shackle” – Paul’s red Puma 90. The tyres are BF Goodrich Mud-Terrain 315’s – somewhere in-between 33” and 35” – and reportedly the largest possible fit without any major modification to vehicle.

I caught up with Paul Stanley at the tyre fitment centre.....





The last picture compares the tyre size between my standard BFG Mud-Terrains and Paul's new treads – need I say more?



## WOMAN AS EXPLAINED BY MATHEMATICS

Kenneth Jones

Hopefully my wife doesn't read this...

- 1 To find a woman you need Time and Money therefore:

$$\text{Woman} = \text{Time} \times \text{Money}$$

- 2 "Time is money" so

$$\text{Time} = \text{Money}$$

- 3 Therefore

$$\text{Woman} = \text{Money} \times \text{Money}$$

$$\text{Woman} = (\text{Money})^2$$

- 4 "Money is the root of all problems"

$$\text{Money} = \sqrt{\text{Problems}}$$

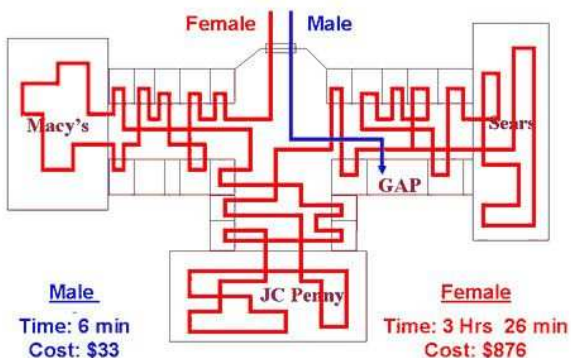
- 5 Therefore

$$\text{Woman} = (\sqrt{\text{Problems}})^2$$

$$\text{Woman} = \text{Problems}$$

A+

### Mission: Go to Gap, Buy a Pair of Pants



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## “ENGLISH”

**Kenneth Jones**

The European Commission has just announced an agreement whereby English will be the official language of the European Union rather than German, which was the other possibility.

As part of the negotiations, Her Majesty's Government conceded that English spelling had some room for improvement and has accepted a 5-year phase-in plan that would become known as "Euro-English".

In the first year, "s" will replace the soft "c". Certainly, this will make the sivil servants jump with joy. The hard "c" will be dropped in favour of "k". This should klear up konfusion, and keyboards kan have one less letter.

There will be growing publik enthusiasm in the sekond year when the troublesome "ph" will be replaced with "f". This will make words like fotograf 20% shorter.

In the 3rd year, publik akseptanse of the new spelling kan be expekted to reach the stage where more komplikated changes are possible. Governments will enkourage the removal of double letters which have always ben a deterrent to akurate speling.

Also, al wil agre that the horibl mes of the silent "e" in the languag is disgrasful and it should go away.

By the 4th yer peopl wil be reseptiv to steps such as replasing "th" with "z" and "w" with "v".

During ze fifz yer, ze unesesary "o" kan be dropd from vords kontaining "ou" and after ziz fifz yer, ve vil hav a reil sensibl riten styl. Zer vil be no mor trubl or difikultis and evrivun vil find it ezi tu understand ech oza.

Ze drem of a united urop vil finali kum tru. Zen ve vil rul ze vorld!!

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### **WELCOME TO THE FOLLOWING NEW MEMBERS.**

Remember it's your club and you will get out of it what you want to. You have purchased **THE BEST 4 x 4 x FAR** and now its time to use it. See you at the next club event.

Owner	Vehicle	Address
Total Membership	136	

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**Classifieds** If you wish to place an advert, please forward the info to [kenneth@pcvs.co.za](mailto:kenneth@pcvs.co.za)

**Plse note that ads will run in two successive newsletters whereafter they will be removed.**

**For ease of reference those highlighted in red have already appeared and will not appear in the next newsletter unless you specifically send me an email asking me to keep the ad.**

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- **For Sale**

**5 X TYRES BF GOODRICH ALL-TERRAINS INCLUDING DEFENDER ALLOY RIMS**

These tyres probably still have 70% tread left, if not more. My original intention was that I would keep them and use them for highway driving with the mud-terrains used for off-road fun. The rims are in mint condition.

I've never actually swapped them & simply keep the muds – too much schlep to change. I can't see myself ever using them so they are simply taking up space in my garage.

One of the members has expressed interest in the tyres but I would prefer to get rid of tyres and rims together. If someone out there just wants the rims I can sell him the tyres & you the rims.

**What offers?**

Ph: Kenneth Jones 084 509 1427 or email: [Kenneth@pcvs.co.za](mailto:Kenneth@pcvs.co.za)

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- **For Sale**

4 No white 16inch 7J rims for sale, excellent condition R 1,000  
2 No 16inch General tyres for sale, 90% tread life left R 1,200

Vehicle also for sale by Darryne as follows:


- Landrover Disco 1 3.9 litre V8
- Iron man suspension
- Detroit lockers
- 35" BFG tyres
- Full sound system incl amp and subs
- Dual battery system
- Hi lift jack
- Spare 35" BFG tyre
- Chamber correction arms imported from Spain


Plus many more extras to mention


Selling Price R 70 000. I have attached some photos too.




Darryne Welgemoed

 : (+27) (0)31 764-5660

 : (+27) (0)31 764-5661

 : 082 568 5658

 : [darryne@fountain.co.za](mailto:darryne@fountain.co.za)

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- **For Sale**

I have a Landy, long wheel base, Safari(?) that I am stripping for spares or that must go complete. Included is the heynes restoration manual. Was given to me as a restoration project but time is not allowing me to get round to it.

Any interested parties can contact me on 0717689191 (John) or 0837832424 (Elly)

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- **For Sale**

1977 S3 Lightweight partly stripped, complete with canvas tilt and LPG gas. Vehicle was running prior to stripping front fenders and wiring. Urgent sale call Mike Cullen 082 447 3699 or 031 7673557

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- **For Sale**

Land rover series 1 88 inch and land rover series 1 107 station wagon for sale , both missing some parts for more info please send me an email [landyloverscoza@telkomsa.net](mailto:landyloverscoza@telkomsa.net). Johan.

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- **Wanted:**

Do you have or do you know of someone who has an old shipping container that they would like to get rid of. The LROC KZN is looking to acquire / purchase an old container to be used to store the clubs assets. (Trailer, tents, old clubs records etc.) The LROC will arrange the transport of the container. Please contact George 0836581324 or Selwyn 0839926969.