



Rangers' Review

Volume 3 No. 2

Mount Lofty Rangers Inc.
PO Box 1150, Blackwood S.A. 5051

July 1997



Sponsored by Alltrac

Ted Bal won the prize for being the only member to spot the hidden camera

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VICE PRESIDENTS REPORT

Once again the President is away, and I will be chairing the meeting. (This is becoming a habit). Taxation time is upon us again and I trust that this will cause you no agro. Will we still need to submit a Tax Return under a G.S.T.?

I have been reminded by some club members that our aim is: Trips, Training, Social. Unfortunately the social suffers a bit because many of us have already established our social circle. However, the June 28 dinner at the Flagstaff was very enjoyable, and all who attended were very satisfied with the meal.

We will soon be offering another 'DAU Level 1 course to members, and there are only 6 places left. Please give your name to Wally Fee if you are interested. The date is yet to be decided.

Anyone who is serious about 4W Driving should be aware of the image that we convey to others (new members, the public and children). To this end we should be concerned about the obvious consumption of alcohol during club activities. Consumption of alcohol during breaks may be O.K., but to be seen wondering around with an alcoholic drink during an activity may convey the wrong impression to others. (especially the public).

Remember, our aim is to promote the members of the 4-W-Drive movement as responsible people who are concerned with safety and the environment.

Clyde Paton (SILVER HAWK)



SOCIAL

With the New Social Co-ordinator disarmed, (arm in sling and all), this report comes from the Editor by phone line. (let's see all of you people who hate doing written reports beat this one!!) Dedication.

The top five results from the social survey which was handed out a while back are the Movies, Mystery days, fishing Trip, Dinner Under the Stars, Southern Vales Winery.

With all of this information gathered we feel we have these covered or well under way. We already have the movies, thanks to Ted & Margaret Bal, Look on the board to see what movies are on, they are great value and a really good night is had by all who attend.

Bryan & Joyce Gray have arranged a fishing trip at Rapid Bay, check the trip list in this magazine for the time and date. This should be a great day for all the family.

The formal dinner under the stars is in the preliminary stages along with the winery day, we are waiting for quotes to come back from different bus companies. I will have more information to where this is at, at the next meeting.

A lot of effort has been put into these social outings, so if you can attend please do so as without attendance there will be no social outings and i feel that this is a great way to meet other members in a friendly, family environment.

On a more serious note I wish Cheryl a speedy and full recovery.

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JULY 1997

Sunday 20th - Tour the Unknown, Day trip - Scared, if not meet at the Blackwood Football Club 9.15am. Bring your own lunch and drinks as you never know where you may be. Trip Leader Joyce and Brian Gray Phone 8278 1576



Saturday 26th-27th- Marron Grass re-plant

Adventurous trip to Lake George. Sand Sand & more Sand with spectacular coastal Scenery and Beach driving - test thoughts skills you think you have. Only two hours work required for the replant. 1st time Trip Leader - Steve Riech Phone 8322 0801.

AUGUST 1997

Saturday 2nd thru to 24th -East of Alice- Vacancy exists on planned trip for 1 vehicle to join us. Travelling mainly through the outback of South Australia and the area East of Alice Springs inc Harts Range, Altunga and Ruby Gorge Interested parties to phone Dean Dayman on 8296 6390.

Sunday 3rd Swan Reach Cave- Day Trip - Suitable for the whole family, Travelling the backtracks and off road to Swan Reach on the river. Depart the Club rooms 8.00am sharp. Full tank fuel, bring you own lunch and old clothing, 1 torch per person a must. Sound like fun!! Trip Leader Merv Tucker on phone 8278 1414.



Saturday 9th thru to 24th - Simpson Desert Visit

many Historical sites during this ideal time to see and cross the Simpson. Approx 900km of adventure. Well maintained reliable vehicles a must with need to carry 250/350L of fuel. UHF communication preferred- need to be total self sufficient. Expressions of Interest contact Trip Leader George Vlahos Phone (08) 8278 9229

SEPTEMBER



Friday 5th thru to 8th - Muloorina Station, Lake Eyre South.

(50kms North of Marree) Trip to leave Thursday night 4th Sept. and camp at Mambray Creek. Camp at water- hole on Muloorina Station with day trips from camp site. Communication 27mhz. Another 1st time Trip Leader Peter Graham phone 8370 6224.



(continued)

SEPTEMBER 1997

Sunday 14th - A Social Outing to RAPID BAY - This is the opportunity you've all been waiting for. The chance to drown some bait or show how good you are with the 'ole rod 'n reel. The day also offers those present to walk, talk and explore. Depart Blackwood Football Club 9.15am. Please bring a plate of food for a combined Lunch Table. Tea Coffee and Cordial available, BYO other drinks, chairs fishing gear and bait. Prizes for the heaviest catch and biggest fish. Trip Leader Brian & Joyce Gray Phone 8278 1576

OCTOBER 1997

Saturday 4th/5th and 6th (Long Weekend) The last of our training runs at Geranium. Camping area with 1 shower and Toilet block - plenty of shade - Vehicle charge \$10.00 per day - Must be self sufficient. Contact Ted Bal on 8382 1932.

NOVEMBER 1997

DECEMBER 1997

Sunday 7th - Christmas Picnic breakup. Last year was well attended so once again the Social Committee will be organising something similar to last year. Venue to be advised.

Results of our Associations Fundraiser

South Australian Association of Four Wheel Drive Clubs Inc.

Commiseration to all members who participate in the raffle for the Jeep Wrangler - congratulations to the winner Mr. Peter Lovett of Torrensville.

Not all was lost as our Club will share in the \$2780 allotted for ticket selling. Thank you to all those who supported the S.A.A.4.W.D.C fund-raiser.



Secretary Dean Dayman with wife Kathy

Dean Dayman - Club Secretary

Dean has been a 4WD enthusiast for 6 years now since doing a trip around Western Australia in a Commodore and caravan and being embarrassed on several occasions after being extracted from a variety of situations by 4WD vehicles. "If a track is there it must go to something, it just doesn't appear by itself". Married to Kathy they have 2 grown up sons and 1 daughter-in-law. Their only two 4WD vehicles have both been Pajero Automatics, hence the call sign 'Auto Cat'. They first joined the Mitsubishi 4WD Club and Dean was soon active serving on the Committee as Trips Co-ordinator for 2 years followed by a further 2 years as Treasurer before joining the Mt Lofty Rangers serving on the steering committee and becoming the club's 1st Treasurer and Short Trip Co-ordinator. Over the 6 years they have managed to travel all over Australia and seen most of Australia's dirt roads without any further embarrassment.

Most asked Questions

Why own an Automatic - 'It's Kathy's car'

What 4WD would you own - 'Automatic Pajero'

Best Trip - 'All great but Cape York, our first major trip, was a great experience'

Most exciting 4WD moment - Two occasions - 1st Driving the Jardine River. 2nd Driving up Western Australia's highest mountain Mt. Meharry'

Roughest Track - '4WD Track from Sandy Creek HS to the Lost City in Lichfield National Park, Northern Territory (now closed)'

Most Scenic Area - 'The Bungle Bungles'

Best State for 4WD driving - 'Has got to Western Australia, just love it!'

Best Country Town - 'Kalbarrie, Western Australia would like to retire there.'

Your Thoughts on the Club - It's got a great mix of people and just the right size.

Your advice to Club Members - Do the National 4WD Driver Training course.

TECH TALK

The subject of particular interest to most four wheel drivers is how best to keep the beer cold, (not to mention the food). Hopefully the following will assist the would be purchaser of a car fridge by clarifying the operation of the different systems used and the range of models and sizes available. Refrigeration is the removal of unwanted heat from a selected space or object and its transfer to another space or object. Refrigerants are chemical compounds which are compressed and condensed into a liquid and then permitted to expand into a vapour or gas as they are pumped through the mechanical refrigerating cycle. This cycle is based on the fact at a liquid expanding into a gas extract heat from the surrounding area i.e. the "latent heat" principle. Latent heat is the heat which changes the state of a substance (e.g. melting, freezing, vaporisation, liquefaction) without changing the temperature. Refrigerants evaporate or boil at much lower temperatures than water which allows them to extract heat at a more rapid rate.

THE TECHNICALITIES

There are three basic systems available in portable car fridges.

1.) Absorption 2) Thermoelectric Solid State 3) Dry Evaporative & Eutectics

1) THE ABSORPTION SYSTEM

The continuous absorption system of cooling operates by the application of a limited amount of heat, furnished by either gas or electricity, to move a coolant through an evaporator by convection. It is a somewhat more sophisticated version of the system used in the old style kero refrigerator.

The coolant or "charge" consists of a quantity of ammonia, water and hydrogen at a sufficient pressure to condense the ammonia at room temperature. When heat is applied to a boiler bubbles of ammonia gas are produced which rise and pass through a water separator and then heat from the ammonia vapour, causing it to condense to a liquid in which state it flows to the evaporator (the finned unit inside the cabinet.) The evaporator is supplied with hydrogen which passes across the surface of the ammonia, lowering the ammonia vapour pressure sufficiently to allow the liquid ammonia to evaporate. This extract heat from the evaporator which in turn extracts heat from the food storage space.

The mixture of ammonia and hydrogen then passes to the absorber where it is supplied with a weak ammonia solution which is absorbed into the mixture leaving the hydrogen free to return to the evaporator. The hydrogen thus circulates continuously between the evaporator and the absorber. The strong

ammonia solution produces in the absorber then flows to the boiler, thus completing the cycle. (whew!)

Free air circulation around the back and top is most important to these units to remove the heat which is generated by the process of absorption. Heat must be dissipated from the condenser in order to cool the ammonia vapour sufficiently for it to liquefy before passing to the evaporator inside the cabinet.

The whole unit operates by the heat applied to the boiler system and it is of paramount importance that this heat is kept within the necessary limits and is properly applied. Circulation of liquid in these units is purely gravitational.

2) THE THERMOELECTRIC SYSTEM:

This system uses a piece of electronic wizardry to draw heat from the interior of the unit and transfer it to the outside air and is sometimes known as an electric heat pump. In its simplest form, a thermoelectric cooling device consists of pairs of semiconductor blocks connected in series and arranged as a sandwich, one face of which becomes hot and the other cold when a suitable direct current is applied. Therefore in effect, heat is taken from one side and discharged on the other, an ample heat sink being provided for its removal. These units draw considerable power for their capacity.

3) THE DRY EVAPORATOR & EUTECTIC SYSTEMS

This is the usually the most efficient type of refrigeration and uses an electric compressor to pump refrigerant through a condenser to liquefy it and then to an evaporator. Cooling occurs in the evaporator as the refrigerant changes from a liquid to a gas. This is the type normally used in household units. "Engels" etc.

The efficiency of this system may be increased by immersing the evaporator in a "eutectic". This is a mixture of chemical compounds which give a freezing point different to that of water and can be varied with the use of different chemicals to suit a given application (a bit like putting antifreeze in your radiator to lower the freezing point). When the evaporator freezes the eutectic there is a loss of latent heat in changing from a liquid to a solid and this is here the system gains some of its efficiency as the process takes some time, creating a constant load on the compressor. This system requires up to 4 hours initially to cool to operating temperatures.

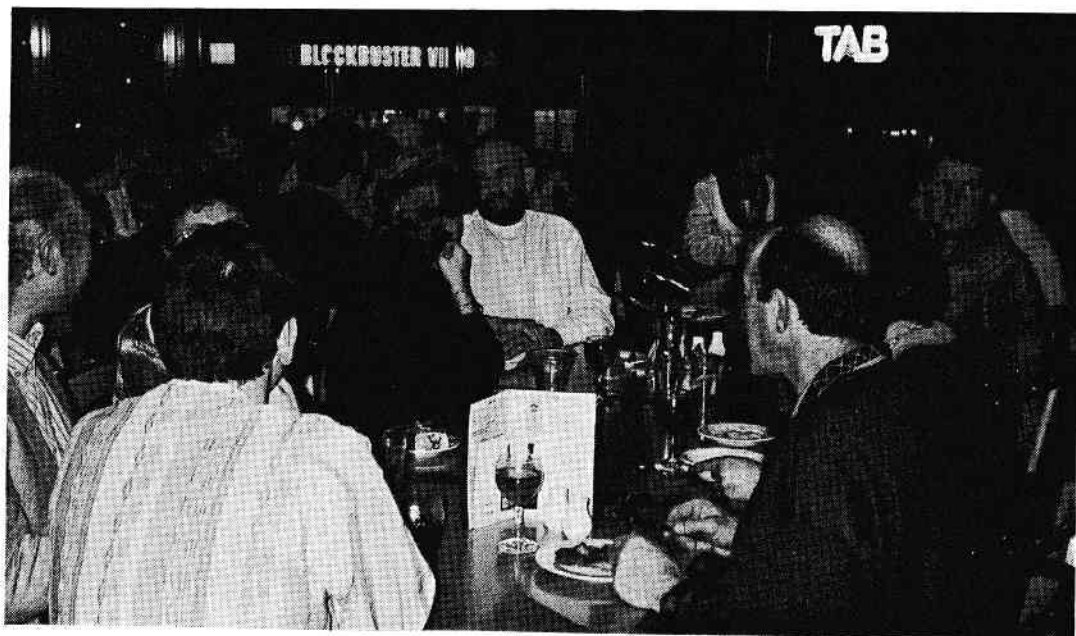
With normal dry evaporator systems the load on the compressor is high

initially and low once the contents of the fridge have cooled. At low load the compressor is cutting in and out continually which is much more demanding on the power source.

Once the autectic is frozen it shows another aspect of efficiency. The mixture must regain latent heat to change back to a liquid. During this phrase it does not change its temperature and can keep the contents of the fridge cool in the same ay as ice or freezer blocks and it is therefore not necessary for the compressor to run to maintain low temperatures. By selecting the right mix of chemicals for the eutectic, the amount of latent heat extracted in freezing and consequently having to be gained in melting can be considerably more than that of water, once more increasing the efficiency.

As the freezing point of most eutectics used in refrigeration is around three to four degrees Celsius, being the most suitable temperature for foodstuffs, some efficiency is lost if the unit is used as a freezer. The frozen autistic acts as an insulator, and although temperatures of well below freezing are easily obtained, cycling will occur in the same fashion as a non eutectic system, increasing the power requirements. This produces this system being used as a "deep" freeze as they won't reach the -18 to 20 degrees required but is excellent for good energy efficient refrigeration.

Thanks to Mitsubishi and Ian Spiller for this article and to our Vice - President for supplying it to me at the last minute so we would have something in the magazine.



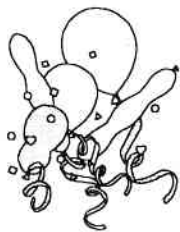
Some of the Club members at table 1

SOCIAL DINNER

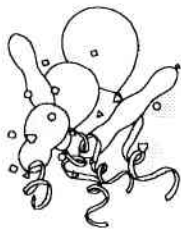
Table 1.

They still put the chewy under the table as Clyde found out, but it didn't stop him from getting his fill from the smorgasboard as did the smallest male member. Wherever did he put all from those high piled plates? Another diner liked ice-cream or was it pushing the green button he liked? A couple of ladies looked full but said they felt comfortable even though one got up and did a spot of chatting halfway through to jog the first courses down. Then of course we had to have one - **FLASHER** - don't know if the results will be seen. Everyone had food and then an empty plate so presume they enjoyed the meal, and the company, as talking was also popular. A few stayed on to see the footy results and then some decided to make their fortune on teh Pokies. Ten minutes decided that, so after a cup of coffee the last Rangers (not Lone) drove home.





Flagstaff Hotel
Table 2 Talk
28/06/97



A great trip attended by approximately 38 members and a good time was had by all, an abundance of food and drink. Speaking of which Cheryl was heard to say quite early in the evening, "I'm a cheap drunk so it doesn't matter about the wine." It was red, Cheryl!! Two seats down person accompanied by Gail boasted 3 to 4 trips to the food supply - excuse being "small plates". A Port Power supporter, complete with the Power's logo painted on a finger nail, had trouble in controlling her noodles, while, not to be outdone, Dean's dessert selection consisted of a concoction resembling Port Power's colours. Chris offered to do a paint job on him but observing Dean's short finger nails we wonder what she was offering to paint. By the way, our esteemed colleague has selective hearing when it comes to footy scores. If Port are loosing he can't hear! (Editor "Heard everything that night.") Meanwhile Doug L. missed the real goodies dessert table consisting of his favourites, Pauloua & Cheesecake. He got stuck into the soft serve Ice-cream before realising his mistake. Perhaps he should wear his glasses next time. Tut tut Peter, caught having dessert when you hadn't finished the main course. Was it something to do with the X-rated demonstration you were shown using tea leaves and a spoon, compliments of Neil Penno. Good one Neil!! By this time the RW (red wine) Group had finished the carafe and were enjoying a bottle of red liquid. Jack helped himself to a second main course, stating that he doesn't eat dessert until 10pm. True to his word it was 10.15pm when he fronted with some sweet selections. I was advised that Jack faces a fine for being the only guy sporting a tie. It appeared by the amount of red liquid on the table that a member of the RW Group had a spillage problem. The glass had a slow leak, did it Hubert? Heard a tale of woe!! One club member caught gold fever while travelling through mining country. He had such a high fever he bought shares in this company - you guessed it - the bottom fell out of the gold prices and more recently fell again - he warned fellow 4wdrivers. The repeat showing of the X-rated demonstration so intrigued Paul that he took a second look just to make sure the image really resembled what he thought it did the first time. What other uses can members come up with for tea leaves from a tea bag?

Take care all!! You never know who is watching and listening

From the 'Table Mike'

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IF YOU HAVE A BUSINESS WHICH YOU WOULD LIKE TO ADVERTISE IN THIS MAGAZINE PLEASE SEE GAIL DODD or IF YOU HAVE AN ITEM FOR SALE WHICH YOU WOULD LIKE TO HAVE ADVERTISED PLEASE SEE DEAN DAYMAN. Our Phone numbers are on the back of this magazine along with the other committee members.



SUBSCRIPTIONS ARE NOW DUE

*Renewal of membership to
to be paid by
end of July 1997*

<i>Full member</i>	<i>\$35.00</i>
<i>Non -Club member</i>	<i>\$25.00</i>
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Sell - Allen Towbar (2 Tonne towing capacity) to suit Toyota Landcruiser HZJ 75. \$100.00

set of five tyre and rims 31 x 10.5 R15 \$700.00ono(second spare for free)

set of Toyota Landcruiser Manuals/Chassis and Body repair Manual &

2F Engine repair manual \$50.00 the lot.

Contact Ted Bal Mobile 0411223555 Bus Hrs or 8382 1963 a/h

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Contact Jerry Scott 08 86711104 or 82934357

.....

Sell - Nissan Steel Mesh CARGO BARRIER made by Milford - \$100.00

BOX- Sealed light galvanised box, suit storage of sleeping bags or cloths etc. on roof rack 45"Lx24"Wx12"H. \$75.00

BOX- Sealed light galvanised Box, suit spares etc 24"Lx12"Wx12"H. \$35.00

ENQUIRIES FOR THESE 3 ITEMS PHONE PAUL WEST 015 393 569.

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Sell - Tyre one only used as Spare - never been on the road. BF Goodrich's Allterrain TA 31.1050 15" rim — \$150.00 ono MAX ALMOND 8278 3848

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Give Away - Front Bumper & Set of Mud Flaps for HJ60 Toyota Landcruiser
Contact Steve Wroble phone 8276 4505.

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Classified ads can be placed in this section of the magazine by Phoning Dean Dayman After Hours on 8296 6390 between 6.00pm and 9.00pm Monday to Friday.

Your Committee

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MOUNT LOFTY RANGERS

