

July 2017



## ***SUBARU 4WD NEWS***

Meetings of  
THE SUBARU 4WD CLUB of WESTERN AUSTRALIA INC.  
are **normally** held at  
7.30pm on the second Tuesday of each month at the  
**Rotary Hall, 55 Sandgate St., South Perth**

**Subaru 4WD Web Site:** <http://www.subaru4wdclubwa.asn.au>  
**SUBARU 4WD CLUB of WESTERN AUSTRALIA INC**  
**P.O. BOX 434, SOUTH PERTH, W.A. 6951**

# SUBARU 4WD CLUB NEWS

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## 2016/2017 COMMITTEE

<b>PRESIDENT:</b>	Adrian Longwood	<b>0424 723 558</b> <a href="mailto:president@subaru4wdclubwa.asn.au">president@subaru4wdclubwa.asn.au</a>
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<b>TRIPS CO-ORDINATOR:</b>	Travis Maskey	<b>0422 815 737</b> <a href="mailto:trips@subaru4wdclubwa.asn.au">trips@subaru4wdclubwa.asn.au</a>
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<b>COMMITTEE MEMBERS:</b>	Katie Maskey	<b>0408 937 924</b>
	Stephan Millett	<b>0405 221 845</b>
	David Peck	<b>0402 177 886</b>
	Alex Tayler	<b>0439 929 373</b>
	Jim Wilcox	<b>0419 040 969</b> <a href="mailto:comm@subaru4wdclubwa.asn.au">comm@subaru4wdclubwa.asn.au</a>
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	Stephan Millett	<b>0405 221 845</b>
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<b>PROPERTY OFFICER:</b>	Keith Wilcox/Jim Wilcox	
<b>ENVIRONMENT OFFICER:</b>	Joy Unno	<b>0429 473 709</b> <a href="mailto:environment@subaru4wdclubwa.asn.au">environment@subaru4wdclubwa.asn.au</a>

**Club Member of the Year 2016 - 2017: David Peck**

### LIFE MEMBERS

Fred Offer, Keith Anderson, Jonel Householder, Ray Stewart,  
Ian Johnson, Peter Andruszkiw and Ron Counce.

## **PRESIDENT'S REPORT**

The \$20 gift voucher is left unclaimed as no-one sent in an email from the last 2 mags answering the question of 'how many termites does a Numbat eat in a day'. No emails were received (until Travis sent one after I pointed it out to him) with the answer so it sits with me until it gets a new home. I'm off collecting firewood as I'm writing this report although as you get to reading this there will only be ash remains of what will be a great weekend with over 20 people lined up to attend. For those missing out I am sure you will hear about the range of delicious meals prepared and you'll be quick to make sure you don't miss next year's Camp Fire Camp Out!



Coming up this month in July we have the rep from Redarc coming in with a presentation and sample products for us to play with. He will be explain just how some of their products work and imported features to suit the new vehicles with 'smart' low voltage alternators. Please come down get up to date with the latest technology from a leading brand.

Monthly Special on the Bushranger 4wd gear will keep changing every 2 months so be quick to snap up a bargain when you see it.

Safe travels and see you at the next GM.  
Adrian Longwood, The Pres.

### **Life Member Nomination**

At the general meeting on 13 July I shall be nominating Jim Wilcox as a Life Member of the club. Jim joined the club in the early 90's so has been a member for about 25 years. During that time he has helped many people with his extensive electronic, electrical and mechanical knowledge.

Since he moved to Gnangara he has hosted all the 'Fiddles and Nibbles' in his huge workshop allowing everyone to share its facilities of hydraulic hoist and vast array of tools.

I can think of no one more deserving of a life membership and urge all of you who have been recipients of his unselfish help and knowledge to come to the meeting and vote on this nomination.

Keith Wilcox (No relation)

### TRIP CO-ORDINATOR'S REPORT

Hi All

Over the last 2 months, we have been seeing who is reading the Mag and who isn't. A \$20 getaway voucher was put up for grabs, but it went begging. Each month Keith puts together a collection of promo's, trip report and articles. Each month is kind of similar, but different in many ways. For new members, it contains a wealth of knowledge and ideas to take away and use for your selves. To just ignore these, and pass them off as not important, is stupid. Everything I have done to the back of my car to make it the way it is, came from this club. I have taken Ideas, many of which came from this very publication, and put them together to make my car a great allrounder. My shelves and bumper table came from this mag. Other ideas have come from seeing what other people have done to their cars. That has meant going out on trips and heading along to meetings. This club has HUNDREDS of years' worth of experience, and we are willing to pass that on to others FOR FREE. No need to Youtube anything. Just come to a meeting or put your name down for just a social event. When you get there ask questions. Whatever you like. There are no stupid questions. If you don't know, then you don't know.... until you ASK!

On a less ranty subject. We are trying to get a fishing trip up and running for August. These are usually fun, very relaxed overnight trips. In the past, we have had prizes given out. I got one for the first to throw up. Still got the little boat. If you are interested, let me Or Adrian know.

Once again, if you need any gear to get out on any trip, please let Adrian, or me (Trav) know and we'll do our best lend you what you need.

See you all out there.



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[www.facebook.com/subieliftoz](http://www.facebook.com/subieliftoz) [nachaluva@gmail.com](mailto:nachaluva@gmail.com)

## TRIP PROMOTIONS/ INFORMATION

### FIDDLES AND NIBBLES - Sunday 16 July 2017

Jim Wilcox kindly offers his place and workshop to host a day of tinkering, learning, installing and general social chit chat.



The important part of the day is to prepare, service and inspect cars ahead of long remote trips.

**\*\* No Major works are to be done on this day (clutches, lift kits etc)\*\***

There is also plenty of experience and tools on hand to help install lights, UHF radios, dual batteries, and other similar accessories.

While all this is going on we will run through basic mechanical checks on cars such as fluid levels, tyre tread and wear, brakes, suspension and air/cabin filters so you can identify if any of these need replacing and prevent major repairs.

Morning tea/lunch and a relaxing chat in the shade of the patio is generally the most popular part of the day. BYO eats, drinks, plates, cutlery etc. BBQ plate available.

**Time:** 9am - 3pm

**Contact:** Jim Wilcox 0419 040 969

This is a good opportunity to check out your vehicle for the Rudall River and Lorna Glen trips in August.

## TRIP PROMOTIONS/ INFORMATION

### Christmas in July - Sat 22nd to Sun 23rd

Break out the ugly Christmas sweaters and join us for a yummy buffet Christmas in July meal at Redgum Village Dandaragan.



Redgum is a very laid back venue, we want people to feel at home this way all can enjoy themselves. Your hosts are Evan and Gaylene Bradshaw.

The webpage is [www.redgumvillage.com.au](http://www.redgumvillage.com.au) No one will leave hungry.

**Start time:** 6pm.

**Cost:** Buffet meal including dessert \$50 per head. BYO Alcohol no corkage.

Breakfast Sunday morning optional dependent on number - \$15 for full buffet. Numbers need to be confirmed a week before.

**Accommodation:** For those that want to stay the night the accommodation options are as follows and need to be booked direct with Gaylene on 0428550046 or [rgv@wn.com.au](mailto:rgv@wn.com.au).

Single bed shared facilities \$65 per head, double bed (not twin) shared facilities \$80 per head, ensuite king single bed \$90.00 per head, ensuite double bed \$120.00.

Shared rooms with no bathroom available \$40.00 per head.

Family room with bathroom double bed and bunks also available.

All rooms have bedding, towels, aircon, heating, TV, and fridge.

There is a camp kitchen there for people who would prefer to make their own breakfast in the morning.

**Trip leader:** Jo Norton

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**TRIP PROMOTIONS/ INFORMATION**

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**Lorna Glen - 12 to 27 August**

This is preliminary expressions of interest for a trip to Lorna Glen station. It will be similar to last year with us helping out with work at the station interspersed with exploring the surrounds. This is now confirmed by DPAW and the traditional owners the Martu. Maximum of 8 vehicles, 2 people per vehicle so double up if a single.



Lorna Glen homestead

**Trip leader:** Jim Wilcox 0419 040 969 See website for more info.

**Rudall River Reconnoitre - August 5 to 27**

The trip is full with 7 vehicles but there are vacancies for passengers to double up with singles. Drivers will go on a waiting list in case of cancellations.

The trip finishes by joining Jim at Lorna Glen for his second week (see above).

**Trip leaders:** David Peck 0402 177 886 and Stephan Millett 0405 221 845

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- \$38.95 - Tire Repair Kit
- \$60.00 - Hitch Receiver w/shackle
- \$70.00 - SUV Snatch Strap (6T)
- \$88.00 - Digga 3pc H/D Shovel
- \$126.50 - 3pc 2/3m Sand Flag
- \$269.00 - Side Shade Awning
- \$250.00 - Black Max Compressor
- \$350.00 - Max Air III Compressor

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**TRIP PROMOTIONS/ INFORMATION**

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**Barrabup Sanctuary Sat 23 - Mon 25 September**

It is some time since we visited the Barrabup Sanctuary near Nannup. The LWE in September is an ideal time to visit the area for flora and fauna.



Plus the Blackwood River Classic 250 dinghy race is on this weekend as well. The Sanctuary is 32 Hectares of mainly Jarrah, Marri, Blackbutt, Banksia and Rivergum with frontage at the beautiful Blackwood River.

We will be staying at a campsite right by the river which has toilets, showers and a large covered area for congregating. There is no power so bring everything for as you would for a bush camp. A trip on Sunday will be made to Workers Pool and Barrabup Pool where you can walk, swim if warm enough or launch a canoe if you have one.

**Cost:** to be confirmed but around \$15-\$20 per person per night.

**Bring:** tent, camper trailer or small caravan, gas cooking gear.

**Trip leader:** Keith Wilcox 0413 266 245

## TRIP PROMOTIONS/ INFORMATION

### Israelite Bay - Balladonia Sat 14 - Sun 22 October

East of Esperance featuring Israelite Bay (3 nights) & the beautiful woodlands up to Balladonia.

Pt Malcolm is at the most S'ly and W'ly end of the Great Australian Bight - fishing gear optional.

Time to practice or learn more about your car, camping, cooking and many bush skills with experienced members. Three nights at Israelite Bay or Point Malcolm, Several two-night camps elsewhere.

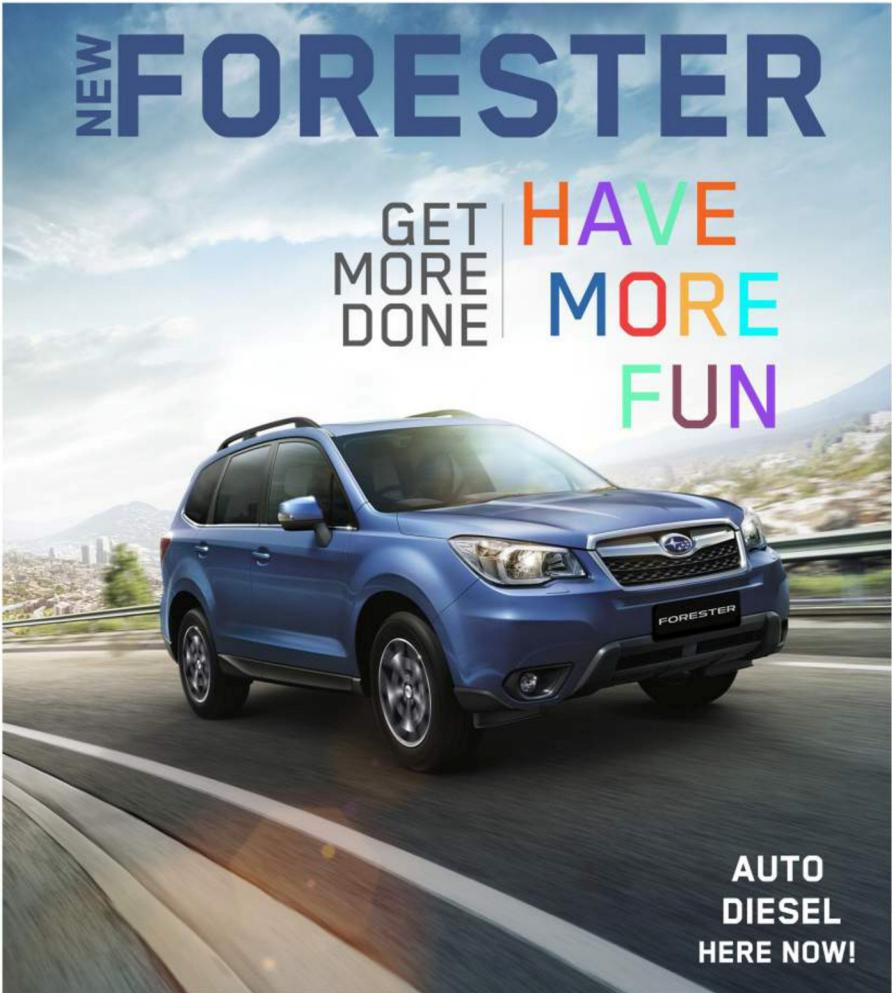


Israelite Bay Telegraph Station Ruins. Photo credit: ExplorOz

The area is steeped in history and we will visit many pioneer localities and settlers huts that have been lovingly restored. Mount Ragged beckons - climb it for 360° views. There are also granites with diversified nature and intrigue! It is spectacular country to drive through with a surprisingly wide range of habitats, terrain, scenery and camping off well-travelled tracks - mostly dirt; some corrugations. Check the map and click the LINK button on the website for a full screen view.

From Fraser Range station home via a choice of routes - Coolgardie, or Norseman-Hyden road. All Subaru's OK. Tracks vary from sand to dirt to gravel - expect corrugations in parts. Trailers on application. If interested, even slightly, please get back to me ASAP for a comprehensive handout. Join as a driver or passenger. Vehicle numbers restricted. Extra fuel needed. **New members especially welcome.** Join as a passenger with a member. **Let's go Camping in the Bush!**

**Contact:** Ian Johnson 0419 936 566 [echidnawrx@westnet.com.au](mailto:echidnawrx@westnet.com.au) or [trips@subaru4wdclubwa.asn.au](mailto:trips@subaru4wdclubwa.asn.au)



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# SUBARU 4WD CLUB NEWS

## CLUB CALENDAR

July 2017						
S	M	T	W	T	F	S
30	31					
 2	3	 4	5	6	7	8
9	10	 11	12	13	14	15
 16	17	18	19	20	21	 22
 23	24	25	26	27	28	29

**Sat 1-Sun 2nd:** Camp Fire Cookout

**Tue 4th:** Committee Meeting

**Tue 11th:** General Meeting

**Sun 16th:** Fiddles and Nibbles at Jim's - Page 5

**Sat 22nd-23rd:** Christmas in July Dandaragan - Page 6

August 2017						
S	M	T	W	T	F	S
		 1	2	3	4	 5
6	7	 8	9	10	11	 12
 13	14	15	16	17	18	 19
 20	21	22	23	24	25	26
27	28	29	30	31		

**Tue 1st:** Committee Meeting

**Sat 5th-Sun 27th:** Rudall River Reconnoitre - Page 7

**Tue 8th:** General Meeting

**Sat 12th-Sun 27th:** Lorna Glen Station - Page 7

**Sun 13th:** Swan Valley Tour

**Sat 19th-Sun 20th:** Fishing Challenge - Page 14

September 2017						
S	M	T	W	T	F	S
					1	2
3	4	 5	6	7	8	 9
10	11	 12	13	14	15	16
17	18	19	20	21	22	 23
 24	 25	26	27	28	29	30

**Tue 5th:** Committee Meeting

**Sat 9th:** Ravenswood Hotel lunch Page 14

**Tue 12th:** General Meeting

**Sat 23rd-Mon 25th:** Barrabup Sanctuary near Nannup Page 9

## SUBARU 4WD CLUB of W.A. INC

### October 2017

S	M	T	W	T	F	S	<b>Tue 3rd:</b> Committee Meeting <b>Tue 10th:</b> General Meeting <b>Sat 14th</b> Gnangara Pines <b>Sun 15th</b> Wilbinga overnighter <b>Sat 14th-Sun 22nd:</b> Israelite Bay & Balladonia Page 10 <b>Sat 28th</b> Annual Dinner - Castle Hotel York
1	2		4	5	6	7	
8	9		11	12	13		
	16	17	18	19	20	21	
22	23	24	25	26	27		
29	30	31					

### November 2017

S	M	T	W	T	F	S	<b>Tue 7th:</b> Committee Meeting <b>Fri 10th-Sun 12th:</b> 4WD Show <b>Tue 14th:</b> General Meeting <b>Sun 19th:</b> Lancelin Sand Dunes  <b>Next month:</b> <b>Sat 9th Dec:</b> Christmas Party
			1	2	3	4	
5	6		8	9			
	13		15	16	17	18	
	20	21	22	23	24	25	
26	27	28	29	30			

### Upcoming trips:

**January 26 -28: Aust Day LWE - Rountuit Northcliffe CP**

**March 3-5 LWE: Yeagarup Hut**

**Mar 30-Apr 02 Easter: Bremer Bay**

### SCHOOL AND PUBLIC HOLIDAYS

**School Holidays:** July 1 - July 16, Sept 23 - Oct 8, Nov 27 - Feb 26

**Public holidays:** September 25, December 25 & 26, January 1 & 26

**Potential members are most welcome to come along on any Club activities before joining. Please phone the Trip Leader for further information. Also contact the trip leader if you have to cancel, as we don't want to wait for someone who does not turn up!**

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**TRIP PROMOTIONS/ INFORMATION**

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**Resurrected Annual Fishing Challenge - Sat 19 -Sun 20 Aug**

Head down to Dunsborough for a weekend of shore and boat fishing for the Subaru 4WD Club Fishing Challenge.

Dunsborough will be the host of our next fishing challenge, based at the Lakes Resort Caravan Park, we will take a boat out for fishing in the bay and sit by the waters edge in the arvo when the sun sets and drop a line in.

Come along and join in the fun, whether you're a novice or pro taking time away from your tournaments to come, it's the weekend for you!

If you have a boat, we often take turns going out in it so all members can get out on the water that want to. If you don't have a boat then you will have a chance to go on someone else's

Don't stress if you haven't much gear as others will lend a little and Getaway Outdoors Bentley offer Club Members a discount.

**Contact:** Adrian LONGWOOD 0424 723 558

**Lunch at the Ravenswood**

Come socialize with other club members over lunch at the Ravenswood Hotel.



Time: 12 noon onwards

Location: Ravenswood Hotel [www.ravenswoodhotel.com.au](http://www.ravenswoodhotel.com.au)

There is camping nearby and fishing ability for those that want to make a weekend of it.

**Contact:** Jo NORTON 0411 151 024

## TRIP & SOCIAL REPORTS

### **Coral Bay - 18<sup>th</sup> April Tuesday** - Adrian Longwood, Trip Leader

Waking to calmer winds and sunshine in Coral Bay was an absolute delight after arriving in the early evening the night before to a windy and overcast day. It was a slow start for most as it was a late night with noise from nearby campers and strong winds flapping everything around. Soon enough it was time for an eagerly awaited snorkel and a short walk to the beach had us swimming around amongst the display of wonderfully vibrant coral and fish. After our first swim a few of us ventured further round the side crossing deeper water but being presented with only more fish and even better coral. To our surprise we stumbled across Ray and Dena kitted up in their wetsuits which became a good chat as we floated along.

Stephan and I continued our way back leaving Ray and Dina to continue on, but before swimming in I realised we were in the circular current and called Stephan back. Conveniently the water led us slowly back to the main area with little effort and topped off what already was a really good swim. Working up an appetite from all that swimming (and floating) I went along to the bakery for lunch with Cam. Founding it to be pretty good food we tucked in.

The arvo snuck upon us quickly and I spent most of it assisting Ray and Dena with their Solar Panel setup, as they were having issues keeping the battery charged, fridge running and wires in the correct order. Spending some time explaining the features and connections of it all we popped to the shops to get some extra clips and cables and plugs to get it wired up correctly. Having a few things on hand like a soldering iron (but no solder) and some descent spare cables was helpful, despite it all being stored under my fridge. It turned out anything I needed over the next few days was somehow stored under the fridge.... Wayne and Julie were also having troubles maintaining charge in their batteries by this point and I spent some time with them boosting their solar and using the watt meters to ensure things are working.

The day wore on and there was no more to be done on the wiring and battery setups. Which could only mean one thing, dinner time! What better way to do it than with fish and chips and a cold beer watching the sunset. With clouds rolling in we weren't overly excited but nature put a show on for us that night with on the best sunsets I've seen turning the skyline vibrant colours of oranges through the different layers of cloud for

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a short window in time. It sure drew the crowds as the water's edge filled with up with more cameras than people very quickly. It was a brief stop-over, but thoroughly enjoyed and one to remember and reflect on for years to come. Thanks again Coral Bay. I'll be back for more!

### **Karijini - Thursday 20th April - Julie Shrubsall**

After a long drive from Coral Bay we finally reached Dales camp site in Karijini National Park where we set up camp, had dinner while fighting the bugs off in the dark then we literally fell in to bed but we woke up the next morning to a bright sunny day, after setting off around 8.30am. We firstly went to pay for our camp site at the visitors centre. After about 1/2hr we were on our travels again to explore some of the gorges, Adrian, Stephan, Cam, Wayne and myself .

The first gorge was Oxer Lookout after about 1/2hr looking around taking



photo's we all decided to jump into our cars and off to our next destination which was Weano Gorge, where we all walked down to the bottom but at the bottom was a small water pass going thru to the Handrail Pool because we where not sure how deep the water was and not wanting to get our camera's, GoPro ,clothes wet we decided to walk the other way and make our way back to the cars for lunch. Then the men were ready and refreshed for the next gorge which was Hancock Gorge but to go down that one there was a ladder on the rock face of the gorge, so I decided to stay back and go for a swim back down at Weano Gorge. The water was very cold to start with but very refreshing in the heat, I suppose the guy's were gone for about 1hr or so, so as I was like a shrivelled prune I made my way back to the car where by chance I met the guys. After changing our wet clothes and having a drink & talk, Adrian & Cam decided to go back down Weano Gorge to make it round to Handrail Pool, while myself ,Wayne and Stephan made our way back to the Eco retreat to have

a nice flat white coffee but their machine had broken so it was just an ordinary coffee before making our way back to the camp site for a relaxing evening ,early tea and to discuss our activities of the day with Ray and Dena. That evening was so relaxing looking at the stars, no noise except the bugs hitting the car or landing on us but I think overall a great day had by all.

### **Leaving Karijini - Monday 24th April - Wayne Ratcliffe**

After going to bed early just after dark having packed most of the car to beat the rain that was coming we woke early Just on sunrise, it was an interrupted sleep with some of the time watching the lightning storm wander off into the distance.



We packed our beds and tent, finished strapping a couple of items to the roof rack and we hit the road. Today we left Adrian and Cam to drive back to Perth, Ray & Dena were still packing up and as Dena was now becoming sick we were also heading home. Which now left Stephan, Julie and my-

self. We drove out of Karijini NP after 5 days of exploring gorges and tracks and swimming holes and viewing points and an abundant variety of bugs, creepy crawlies and things that do go bump in the night. I was sad to leave this amazing place but now want to plan a return visit. This visit had bruised some of us with falls and twisted ankles and wrists, we had been bitten, it was hot and sticky at times and we all found and tested muscles that had not been used for a while but none of that mattered now. Our next stage in the trip had begun and we are driving to Tom price for petrol, water and some food then onto Mount Augustus, approx 300 kms most of that on metal roads.

Now 10.30 am and leaving Tom Price after a visit to Coles for supplies and the petrol station. We stopped into the info centre to find the road we wanted to use The Ashburton downs road was closed due to the rainfall. We worked out another route which was longer but mostly highway so would be quicker.

### The long, long and slow way home from Karijini - Stephan Millett

We had a late lunch at Nanutarra and refuelled before heading south. Near Barradale we turned east onto Towera Road. Here we let our tyres down to 25psi and took it easy on a reasonably well-maintained road that had suffered from many small and recent wash-aways. The daylight ran out so we camped by the side of Lyndon-Towera Road that passes through Lyndon Station. We were still about 200km from Mt Augustus. The next morning, which was our 12th day after leaving Perth (we spent time at Kalbarri, Coral Bay and Karijini) we headed to Mount Augustus. The road was quite good, with the highlight being the crossing at Fletcher Creek where water each side of the crossing stretched away into the distance. The light was wonderful and the reflections and bird life made it special. I marked a waypoint there as there was a good little campsite for 4 or 5 cars. This crossing was special also because the original concrete crossing, built by hand and shovel by Fred Fletcher and Fred Bashford in 1963, was still in place.

We could see Mt Augustus from many kilometres away and as we headed toward it we became increasingly aware of the sheer size of this monocline rock. However as we got really close we realised the true majesty of the rock was best observed from some kilometres away.



We refuelled at the tidy and green Mount Augustus caravan park then did a circuit of the rock, looking in on some cave art places at its base. These were not the best rock art examples and were a little disappointing. After looking at a few examples we headed off toward Cobra station and Dairy Creek Road, aiming for Murchison Settlement on the Carnarvon - Mullewa Road. Again the light beat us and we camped at a small roadside quarry. I was a little concerned because I believed there was something amiss with my clutch, but with nearly 800km still to go to Perth there was little choice but to press on.

## SUBARU 4WD CLUB NEWS

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We refuelled at Murchison. My car was still OK, so we pressed on. Things got worse and we made it only 70km of the 200km to Mullewa before my clutch stopped working.



It was then that Wayne found a phonebox, put his undies on the outside of his clothes and tucked a towel into his shirt as a cape: enter SuperWayne and his super sidekick Julie. We agreed to try towing my Forester and the small TVan I was towing. We had re-

covery straps, a tree guard to connect the straps to my tie-down loops and we had rated shackles. One strap was just not long enough to tow safely so we joined two together: looping them through each other and inserting a folded tea towel into the join so we could get them apart. We gave it a go. Nearly three hours and 130km later - more than half of it gravel - we got to Mullewa where the RAC took over. I had taken out Ultimate Roadside assistance and my car and van and I were delivered safely to my home by about 10.30 that night. A new clutch will be installed a week after writing this.

### **WA 4WD Assoc Gathering, Chapman Valley Showgrounds, Geraldton Sun 04-06-17 by Joy Unno - Part 1.**

After breakfast, we assembled in our queue for the non-4WD tour of Geraldton. We had two cars representing the Club - David in his Forester with passenger Charm, and myself in the new XV. Adrian and Melanie had joined a more adventurous 4WD trip to Coronation Beach. Our trip leaders were Coral & Ross from the Geraldton 4WD Club and our first stop was the HMAS Sydney (II) Memorial, a declared National Memorial situated on a hill summit overlooking Geraldton Harbour. Here we met with Coral's friend who was a Geraldton Volunteer Guide, and who gave us a very personal tour, explaining the history and symbolism behind the various components of the Memorial for the Sydney (II) tragically lost at sea with all hands after being sunk by a German warship in

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1941 off the coast of Shark Bay.

These components were the Dome of Souls, the Eternal flame, the Wall of Remembrance, the Stele, the Waiting woman, and the Pool of Remembrance. The Sydney (II) had connections with the town of Geraldton as the ship had berthed there and, in fact, there were two hawsers from the wharf where the Sydney (II) tied up now incorporated in the path to the Dome of Souls. Four boat propellers form the base of flagpoles and a larger propeller is under the Dome, with all of them facing downwards to indicate a sinking ship. The large propeller was donated by the local tug boat company with the understanding that the four smaller propellers would be part of the package.



The Dome consists of 645 interlinked steel seagulls representing the souls of the lost sailors and was inspired by a flock of seagulls flying over the hill during the dedication of the memorial site in 1998. Under the Dome, the red and green ship lights are alight constantly, symbolically keeping alive the spirits of the sailors. Curving around one side of the Dome, the black granite Wall of Remembrance is embedded with gold flakes from Norseman and engraved with all the names of the lost crew. The Stele is in the form of the prow of a ship and represents the Sydney (II) herself. Adjacent to the Stele is the bronze statue of the Waiting Woman representing all the families of the lost sailors who did not know the final fate of their loved ones for 67 years. This leads to the last component, the Pool of Remembrance built after the Sydney (II) was found in 2008. A map of the WA coast near Shark Bay forms the floor of the terraced pool and a single seagull has its wing embedded at the co-ordinates where the ship was found.

### Adrian's powerpoint presentation. Part 2.

#### Battery Types

##### Starting Battery:

- Designated for starting the vehicle
- Includes basic 12V outlets for running appliances while vehicle is on
- High discharge (high Cold Cranking Rating (CCA) but low 'Amp-hour' capacity
- Wet cell type of battery and must only be installed upright.
- Can't be installed in cabins as they discharge harmful gases

##### Deep Cycle:

- Low discharge but steady discharge over long periods with higher 'Amp-hour'
- Little or no Cold Cranking Rating
- Made of AGM/Gel, Standard Lead Acid, Calcium, or Lithium and some have the ability to be installed on their side
- Amp hour rating can range from 15 up to 300+
- These would be mounted and hard wired in to the vehicle with designated cabling, and isolation from the starting battery.
- Safe to be installed in the cabin as they are sealed and they are no harmful gases escaping

##### Portable Battery Packs:

- Made up of a deep cycle battery but cases that are protective and robust, are a portable solution for deep cycle battery storage
- Wide range of sizes and features from 15Amp-hour to 120Amp-hour.
- These can be charged from the vehicle but it's recommended to install designated charging cables for it.  
Suitable for in cars, 4wds, boats and caravans

## Battery Storage Capacity:

- Batteries (deep cycle) are rated in Amp-hours which defines their maximum capacity.
- This is a theoretical maximum and it's very difficult to actually use 100% of its capacity
- Flattening batteries effects their lifecycle.
- We can often easily get 60% out of its capacity before charging to do it no harm and even up to 80% at a stretch.
- Most fridges can't actually operate down to voltages too low to protect their components.
- Some fridges cut out at as low as 10.2V/10.7V/11.2V and others don't cut out at all draining batteries right down to 8V.

We will calculate capacity of 80% of original rating based on fridges cutting out before full capacity can be used and not draining the battery beyond its optimum limits.

40A/H > 32A/H, 60A/H > 48A/H, 80A/H > 74A/H, 100A/H > 80A/H,  
120A/H > 96A/H

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