

Rover Owners' Association Newsletter - Volume VII, Number 1

The Land-Rover of member Jim Pappas of North Scituate, Massachusetts graces this issue's cover. Jim's Landy has recently had a Ford V-8 conversion and full details are given elsewhere in this issue. Additionally, as indicated in the article, Jim can make available more complete details for those who are particularly interested.

Some new Land-Rover patches and window decals are being made available to the membership. We hope to provide once again an Association window decal for the membership in the very near future. Unfortunately, cooperation from Rover (now read Leyland) has diminished over the last few years to the point that the brochures, etc. have been unavailable for a very long time. As a matter of fact, the Headquarter Club was disbanded last year, not that their assistance was very substantial, but at least they were there.

Regarding other Association supplies, there are still books available. Land-Rover: <u>Workhorse of the World</u> is still available to the membership at \$10.50 postpaid. The other Graham Robson book, <u>The Rover</u>, is \$13.95 for members since the list price had gone up to \$17.95 las year. We inadvertantly forgot to include the cost of back issues in Volume VI, Number 3, much to the chagrin of many members. The cost is ten cents per page for photocopying costs; the Association will absorb any mailing costs involved.

An AutoTest reprint from <u>Autocar</u> magazine of the automatic version of the new Rover 3500 is reproduced for the membership. Speculation about its arrival on our shores remains uncertain, as it does for the Range Rover and the V-8 engine version of the Land-Rover. Both the 3500 and the Range Rover have been undergoing active testing and certification work here, but the British motor industry, particularly Leyland, is too unpredictable to forcast.

Certainly, however, the Rover V-8 has made its way into quite a number of Leyland's and others' vehicles. We have a listing of some speed equipment for this engine provided through Lawrencetune in England.



The cost of most things, automobiles included, has more than doubled over the past ten years. Many cars, particularly the German cars, have tripled in price in the past seven years. We were quite suprised to discover that the Range Rover, for example, cost a square meal less than 2000 pounds sterling in Britain in 1970 while the current price is something over 7200 pounds sterling basic in England with that price jumping to over 8500 pounds sterling with the British tax included. And the list of waiting customers is even longer today than it was then!

A number of members have communicated their interest in our discontinuing the former practice of listing members after each issue. We stopped doing this about a year ago to allow more content per issue. However, since many of you requested to know of those members in your area, we have produced a current complete list of active duespaying members in this issue. Maybe, we will do this once per year.



THE NEW Rover 3500 has now been in production for several months, and despite the seemingly inevitable disputes which have hampered its progress, its advanced shape is now a more or less familiar sight on British roads. As yet it exists only in 3500 form with the GM-derived V8 engine; the old 2200s have followed the original 3500 into obsolescence, and presumably we may expect smaller-engined versions of the SD1-3500 to succeed them, but not immediately.

Our first test of the new 3500 (31 July 1976) was carried out on a manual-transmission car with its five-speed gearbox and very high top gear. By contrast, the automatic-transmission car tested here has much lower gearing. The final drive remains the same, but top gear is direct-drive, corresponding to fourth gear in the manual box. The transmission used is Borg-Warner's Model 65 three-speed which, with torque converters of various sizes, is virtually Leyland's standard in-line (as opposed to transverse) automatic.

In other respects the car tested here is exactly like that driven for the earlier test. The engine produces 155 bhp at 5,250 rpm, and suspension is by MacPherson struts at the front, with a well-located live axle - with self-levelling dampers - at the back. Power-assisted steering and centralized locking are standard, as is a push-button radio. Extras fitted to the test car included electric windows. Since the continuing supply problem still prevents Leyland from offering fully-fledged road test cars, the test was carried out on our own 3500, purchased through retail channels and part of our long-term test fleet. At the time of the test it had only covered 3,000 fairly gentle miles, and it might reasonably be expected that the performance will improve during the next few thousand miles

# Performance and economy

There is an inevitable loss of performance with any three-speed automatic compared with its manual equivalent, at least where the overall gearing (forgetting for a moment about the manual 3500's fifth gear) is the same. This is seen in the much inferior maximum speed, a mean 114 mph against 123 mph for the manual car in fourth gear. Apart from the comparative stiffness of the automatic, however, the test conditions were far from ideal with a high and gusting wind. It seems reasonable to assume that in better conditions, with more miles behind it, and on a level road rather than the speedscrubbing MIRA banking, even the automatic 3500 should reach a genuine 120 mph. This is made even more likely because each small gain in speed would bring the car nearer its power peak; at 114 mph it is running at less than 4,800 rpm.

In terms of outright acceleration, the automatic car loses progressively all the way through the speed range. Its step-off from rest is



comparatively good, 3.7sec to 30 mph compared with 3.3sec for the manual car with its high first gear. From that point on the gap widens so that the 60 mph time is 10.3sec against 8.4; the 80 mph time is 18.1sec against 15.6; and the 100 mph time is 33sec against 26.5. While these figures rightly suggest that the automatic is a good deal slower than the manual car, it is far from slow in absolute terms and when compared with other automatics, as shown in our comparison data table, it shows up well.

The Borg-Warner 65 transmission changes smoothly, both up and down, but seemed less than willing at times to shift down on part-throttle, forcing the driver to use full throttle and operate the kickdown switch when he did not really want to. Full-throttle upchanges came at 43 and 80 mph, while the kickdown would operate up to 74 mph in top, and up to 37 mph in intermediate for a change down to low ratio. When taking our acceleration figures we found a marginal advantage in holding the lower ratios beyond 5,000 rpm, to the extent of a second gained to 90 mph. Clearly, however, there is no point in doing this on the road.

When it comes to fuel economy, one would expect the automatic 3500 to show up rather badly. Not only does it suffer the inherent power losses of the torque-converter automatic; it also lacks the advantage of the high manual fifth gear with its promise of restful and economical motorway cruising. In practice, the deficit emerged as 10 per cent in overall consumption (18.0 mpg against 20.5), so things are not as bad as they might be. As always, our overall figure takes the car near the bottom end of the scale. More normal driving should achieve 20 mpg, while 25 mpg may

not be out of reach for gentle touring, given restrained use of the kickdown.

Our steady-speed consumption figures show a near-constant deficit of about 12 per cent for the automatic. The key figure is perhaps the 23.5 mpg at a steady 70 mph, compared with 26.2 mpg for the manual test car. Fast drivers might also care to note its 16.3 mpg (compared with 18.7 mpg for the manual) at 100 mph.

#### Handling and brakes

This, naturally, is an area where all our remarks about the manual car still apply, and the Rover deserves an extremely high rating. The key to its performance is the quick and precise power steering, with 234 turns of the wheel between extremes of a 33ft lock. Such sensible gearing takes all the work out of driving the car - not just the effort, but also the arm-weaving which is still called for in some cars (especially American ones) which have power steering but retain "manual" gearing of four or more turns of the wheel between extremes of lock. A Rover 3500 driver has to be doing something extremely ambitious even to feel the need to cross hands on the wheel.

The high gearing probably makes it easy to achieve good steering feel, and the engineers have done a good job of letting the driver know what the front wheels are up to. At times, when making a very quick lane-change manoeuvre, the feel built up into genuine weight as the steering wheel was wrenched first one way, then the other; but it is no bad thing to have some mild discouragement of extremes.

Aside from the steering, the Rover handles extremely well for so big a car. The automatic car was fitted with Avon tyres, rather than the Michelins of the manual test car, and it hung on equally well. The weather of the test period was altogether colder and wetter for the automatic, and gave the Avon tyres ample opportunity to show off their wet grip in particular. It is asking a lot of any tyre to anchor the tail of a V8-powered car when the automatic transmission decides to shift down when negotiating a roundabout, and in this case alone we managed to swing the Rover some way out of line. Recovery was quick, thanks to the rapid steering response.

When the Rover is hustled along winding roads, the steering partly disguises its determined basic understeer. As with most understeering cars, the tidiest results are achieved by aiming just inside the intended apex of each corner. letting the nose correct the situation by running wide as it wants to The automatic transmission makes it slightly more difficult to flatte: one's driving by balancing the understeer with power, but the car remains capable of out-running more overtly sporting machinery Clumsy driving - the too-fas approach to a corner, the piling or of extra lock and the corrective dai at the brakes - is rewarded as i should be, with an undignified bu safe scrubbing of the front tyre and rapid loss of speed without an great deviation from the intende line.

Straight-line stability is one c the Rover's strong points and thi was especially noticeable durin the test period. Despite the stron and gusty winds, often combinewith patches of standing water o the road surface, the car ran ver straight and felt extremely relaxe even at 70 mph or more.

The Rover's brakes consist of bi discs at the front, backed up by 9ir. rear drums, and a conventiona front/rear split of the hydrauli circuits. Our tests on the manua car were hampered by a wet sur face which restricted ultimat stopping performance, and it wa nice to confirm with the automati that the system is well-balance and capable of achieving a 1g sto for a moderate 80lb pedal pressure As before, some drivers complaine that the brakes were over-servoe for gentle check braking, an needed too conscious a restrair when trying to stop smoothly. A the limit, all four wheels began t lock at the same time and the ca slid straight ahead.

While the brakes emerged we

enough from our standard ten-stop fade test from 70 mph, it sometimes seemed that they had too little reserve at higher speeds. For instance, six successive stops from 110 mph during our acceleration runs brought on the juddering "railway-train" effect, though without apparently affecting stopping ability; one driver encoun-tered the first signs of fade when hurrying down a long and twisting hill. In speed-limited Britain there is little to worry about but it is, perhaps, an area in which export cars deserve a closer look.

The handbrake worked well, achieving a stop of better than 0.3g when used alone on the level, and it held the car facing either way on the 1-in-3 test gradient. While the manual car had a slight struggle to restart on this hill, the automatic had no trouble at all but pulled away smoothly and accelerated well.

# Comfort and convenience

From the driver's point of view, the Rover gains high marks in the first place for the adaptability of its driving position. With the steering wheel adjustable both for reach and rake, and a generous foreand-aft range of seat movement. the car should suit almost everyone. Headroom in the front is better than average, as well.

The main driving controls are well laid out but the non-circular steering wheel still strikes us as gimmicky, even on longer acquaintance. Nor does it achieve its



intended purpose of rendering the instruments clearly visible, since it cuts across the minor instruments on the left of the panel, including the fuel contents gauge. The main instruments, speedometer and rev counter, the latter with a 5,500 rpm red line, are large and clearly marked; the instrument lighting is variable by means of a rheostat knob to the right of the instrument binnacle. When the dials are brightly lit, a faint reflection is cast in the screen not from the dials themselves, but from their tunnelhousings; there is also a stronger reflection in the driver's side window. Apart from this, very tall or long-backed drivers have some difficulty seeing the topmost figures on the main dials.

The transmission selector is a pleasing feature of the car, a simple T-handle moved to one side to clear its various detents. The gate is properly set up for British driving conditions in that it is possible to pull back the lever from D to 2 without having to clear a detent, while the return from 2 to D can be made without any danger of an inadvertent overshoot into N. Leyland would do well to remember. though, that this pattern is not universally approved of, especially in America.

The brake pedal is wide enough to permit braking with either foot, while the pendant-type accelerator is retained. While the accelerator gave no cause for complaint in the manual car, several drivers of the automatic found themselves suffering from ankle-ache after long journeys, and suggested that an

organ-pedal control might overcome this.

The back seat, which folds in simple fashion to extend the load platform, is wide enough to take three average-size people in comfort. There is legroom in plenty, even behind a tall driver, but headroom is rather less than in the front. With only two back seat passengers, the ingenious centre armrest can be unfolded to give better location.

One very strong point of the Rover, thanks to its long suspension travel, firm damping and self-levelling facility, is its ride. There is no such thing as a universally satisfactory ride because this is an area where one man's comfort can be very much another's nausea; if anything, the Rover looks kindly on the latter because its low-speed ride is on the firm side, at times slightly "knobbly" in consequence. As far as our test team is concerned, this is a good thing al-though admirers of the American "boulevard ride" will not agree with us. In any event, it seems a small price to pay for the Rover's ability to be hustled along poor roads at high speed without upsetting the occupants - and without sacrificing anything in the way of handling and stability. The highspeed motorway ride is rock-steady and gives a great feeling of security.

In the wet weather of the test period, we appreciated the large sweep of the wipers with their two continuous speeds and one intermittent setting. The wipe/wash control, like the other minor controls, takes the form of a column-

Wide centre console houses transmission selector, handbrake, electric window switches, cigar lighter and manual choke, leaving facia relatively clear. Note the four fresh air inlets, two in the centre and one each for driver (in instrument panel) and passenger. Minor controls are mostly column-mounted stalks. Radio in this car is non-standard unit, installed to order



# Specification

LINGHAL	drive
Cylinders Main bearings	8, in 90 deg vee
Cooling	Water
Bore, mm (in.)	88.9 (3.50)
Stroke, mm (in. Capacity, cc (in	) 71.1 (2.80) ) 3.528 (215.0)
Valve gear Camshaft drive	ohv Chain
Compression	9 35 to 1
Octane rating	97 RM
Max power	155 bhp (DIN)
Max torque	at 5,250 rpm 198lb ft a
· .	2,500 rpm
TRANSMISSI	ON_
Туре	Three-speed automa with torque conver
Gear Ratio	mph/1000rpm 23.8
Inter 1.45	16.4
Final drive gear	Hypoid bevel
Ratio	3.08-to-1
SUSPENSION	MacPharson struts
i tom-location	lower links
dampers	Telescopic
Rear-location	Yes Live axle, torque tub
	trailing arms, trans- verse Watt linkage
springs	Coil
anti coll bar	self-levelling
anti-ron bar	NO
Type	Rack and pinion
Power assistance Wheel diameter	e Standard 15½ x 16in.
BRAKES	elliptical
Front	10.2in. dia. disc
Servo	Vacuum type
WHEELS	
Rim width	Pressed steel disc 6.0in.
Tyres – make – type	Avon (on test car) Badial-ply tubed
- SIZE	185-14in.
Battery	12 volt 66 Ah
Headlamps	Four-lamp halogen.
Reversing lamp	110/220 watt (tot. Standard
Hazard warning Electric fuses	Standard
Screen wipers	2-speed plus
Screen washer	Electric
Interior trim	Cloth seats
Floor covering	carpet
Jack Jacking points	Screw pillar 2 front, 2 rear
Windscreen	under bumpers Laminated
Underbody	Bitumastic overall
MAINTENANC	e
Fuel tank	14.5 imp. galls
Cooling system	19.5 pints
Engine sump	9.5 pints SAE
Gearbox	20W/50 2.7 pints SAE
Final drive	80EP
Grease	90EP
Valve	Hudroulie
Ciearance	self-adjusting
breaker	Electronic
ignition timing	at 750 rpm)
and alum	

- type

- gap

Champion N12Y 0.030in. F26: R26psi (normal driving) 1.243lb (564kg)

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kerb fuel tyre weight gall size	power wheelbase length width bhp in. in. in.	тах 0-60 очегаії сарасіту тах 0-60 очегаії сарасіту трі зес тру с.с.	Comparisons E
OVERALL RATING4.27	EAR TRACK 4' 11-1"		FRONT TRACK 4' 11.1"
(мегаде оf scoring by kutocar fload Test ream)           Кайлде: 6 Excellent 5 Good           5 Good           5 Good           4 Better than average           2 Good           2 Yourse than average           3 Worse than average           2 Food           2 Food           3 Worse than average           3 Worse than average           4 Botter than average           2 Food           2 PERFORMEDET is than average           3 Worse than average           3 Worse than average           3 Worse than average           4 67           7 60           7 1 5           7 10	- OVERALL HEIGHT 4' 53"		
Test Scorecard			
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Parts Cost         Brake pads (2 wheels)         — front         Mindscreen         Effont wing	Consumption (SAE 20W/50) 1,500 miles/pint Test Condition (SAE 20W/50) Test Condition Wind: 15.22 mph Temperature: 12 deg C (54 deg F) Wind: 15.22 mph Wind: 15.23 m Hg Baromete: 29.7 m Hg Surace: dry asphalt and concrete Surace: dry asphalt and concrete Figures taken at 3,120 miles by our Pest distance: 767 miles own staff at the Moror Industry Muneaton. Muneaton. Muneaton. Muneaton. Editor's written permission Editor's written permission	10         13         35<	πμπ       secs       πμπ         30       3.7       3.0         30.110       2.7       -       -         80.100       15.7       -       -         80.100       15.2       -       -       -         80.100       12.4       10.7       -       -         80.100       12.4       10.7       -       -         10.2       -       -       3.6       -       -         110       46.5       11.2       -       -       -       -       -         10.10       12.4       10.7       -
Interval           Change         3,000         6,000         12,000           Engine oil         check         yes         yes           Clainge         3,000         6,000         12,000           Bark plugs         check         yes         yes           Spark plugs         check         no         yes           Air cleaner         check         no         yes           Air cleaner         check         no         yes	Autocst formula Hard driving, difficult conditions 16.4 mpg Avenage driving, average conditions 19,8 mpg Gentle driving, asery conditions 23.4 mpg (97 RM) (97 RM) Mileage recorder: 0.8 per cent over- reading oil	Fuel         31.6           Overall mpg: 78.0         33.0           (15.7 litres/100km)         34.1           Calculated (DIN) mpg: 21.4         33.0           40         34.1           70	True         Time         Speedo           True         Time         Speedo
Regular Service	uondu	unsuo)	sbeeq2 mumixeM

mounted stalk following the Leyland "house pattern". The big rear window is electrically demisted as standard, but at low speeds in the rain we found we also would have liked a rear wiper to clear its steeply-raked surface. At night, the halogen headlamps give reasonable output but not enough to match the full performance of the car; the clean nose shape simply does not permit sufficient reflector area. It also causes short drivers a few problems when parking in a tight space, since the last foot or so of nose is not visible. At the other end of the car, though, there is hardly any "tail" beyond the lower edge of the rear window.

Just as the test weather made us grateful for the wipers, so also we appreciated more than usually the good ventilation and powerful





heater. The heater is a "corporate" design used also in the Princess (its first application) and the TR7. It uses a big, low-speed fan to push air into the car - there is no pure ram-air setting. In the Rover, we found it easy to control temperature and distribution exactly, while on its higher speeds the fan produced a prodigious through-flow. When we needed maximum temperature, to dry out after becoming soaked clear through when photographing in the rain, we found this was achieved with the second rather than the highest fan speed; and it was sufficient to "cook" us in less than a quarter of an hour. Another good feature of the heating system is the positive ducting of hot air through the front doors and up to the windows to keep them clear.

In general, the Rover is a quiet car but there were two points worthy of note in the test vehicle. The first was a mild heterodyning (the "beating" of two near-identical frequences) which was annoying only because it came in at almost exactly 70 mph. The other drawback was wind noise from the top of the driver's door, suggesting the need for a stiffer seal or a closer fit. To be fair, this was only noticed at speeds in excess of the British limit and then only in certain conditions. For instance, we found when lapping the MIRA circuit that the noise was severe when running across or into wind, but much less when running downwind, even at our best one-way speed of 119 mph.



Top: Folded back seat extends carpeted luggage platform Left: Plenty of space under bonnet Above: Spare wheel lives in well beneath platform



# Living with the **Rover 3500**

As might be imagined from all that has gone before; the 3500 is a satisfying car to live with. Nothing is totally satisfying, however, and the car has its minor drawbacks. The 141/2 gallon fuel tank, in combination with the automatic transmission, gives a safe range of 300

miles but it is the work of a patient man to trickle in the last gallon or so. As for other minor quibbles, one needs to remember to warn passengers before operating the centralised locking system, which works with a sudden loud thump. In the latest test car, which had stiffer doors than those previously tried, we found the lack of grip under the door handles annoying and potentially nail-breaking. In

long-term service, too, the rear parcel shelf seems flimsy and wobbly as it rises with the tailgate; and it slips out of its retaining pegs if one tries to slip some slightly oversize object beneath it.

On the other hand, the versatile loading arrangements are a great plus-point over other cars in this class and the amount of luggage space is nothing if not impressive. Inside the car, all the equipment. standard or extra, works as if it was meant to; the radio installation is of high quality (though our long-term Rover has a non-standard, specially-ordered set), while the electric windows work fast and without fuss. Note, however, that they are wired through the ignition remember to wind them all up before you jump out and lock the car. Under the bonnet, the scene is one of surprising simplicity. A good deal of space has been left for extra emissions equipment, air-conditioning plumbing and in-line sixcylinder engines, which means lots of room in which the British mechanic can work.

#### In conclusion

As we said in our previous test. the new Rover 3500 justifies a high measure of enthusiasm. It is perhaps a trifle damped by the lower overall gearing of the automatic, which loses one of the more appealing features of the manual car. The other qualities are there in full, however, and the 3500 is a serious challenger to the executive cars of Europe on the grounds of road-worthiness. performance. space and comfort. One is sorry to see inflation already forcing up the price, and hopes above all that its design qualities will be matched by those of consistently high finish and steady deliveries. If they can be, the 3500 must be assured of a long and successful future in Britain and overseas.

#### MANUFACTURER: Leyland Cars. Leyland Coventry House. Station Square, Coventry

PRICES	
Basic	£4,060.00
Special Car Tax	£338.33
VAT	£351.87
Total (in GB)	£4.750.20
Seat Belts (front)	standard
Licence	£40.00
Delivery charge (London)	£27.00
Number plates	£6.48
Total on the Road	
(exc. insurance)	£4.974.44
Însurance	Group 6
EXTRAS (inc. VAT)	
Automatic transmission*	£149.76
Electric windows*	£99.45
Sports wheels & 195/70	
tyres	£175.50
Denovo wheels & tyres	£91.26
Passenger door mirror*	£19.89
Rear inertia seat belts • Fitted to test car	£35.10
TOTAL AS TESTED	
ON THE ROAD	£5.243.54

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In addition to our regularly available Rover and Land-Rover memorabilia we have the following decals and patches available. The illustration is full-size and they are available either as a patch or as a decal. The background is yellow with green border and lettering. The decals are pressure sensitive for inside windows and are \$1.00 each post paid. The patches are \$2.25 post paid.



Rover Owners' Association Newsletter - Volume VII, Number 1

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LAND-ROVER 88/302 FORD V-8 CONVERSION: Member Jim Pappas, 85 Mann Hill Road, North Scituate, Massachusetts, 02060 recently provided us with his account of his Land-Rover/Ford V-8 conversion. For any member who would like further detailed information on the 289/302 Ford V-8 conversion send \$1.00 to Jim care of the afore-listed address to cover postage and handling. Jim writes:

I contemplated my Landy's future when the trusty little four banger hit the 100,000 mile mark with the only major surgery needed being that of front and rear seals and it was still using only one quart of oil in 500 miles. However, the amazing lack of power evident in two-wheel drive operation made me look to other options before investing \$700 to rebuild 75bhp.

I arrived at the decision to tackle the Ford 302 small-block V-8 conversion utilising the adaptor kit available from Atlantic-British Parts in Mechanicville, New York. Before I ordered the kit, I obtained the instructions from ABP. At first glance, the instructions seemed a joke; totally vague and lacking in detail. Upon second glance, the suspicions I arrived at from my first glance proved correct. A decent understanding of the Landy's running gear and basic auto mechanics are an absolute must before attempting the conversion.

I purchased a 1973 302 engine with 40,000 miles on it and the engine appeared quite clean - the truck it had been in was rear-ended and totalled. Purchase price from the wrecking yard was \$300. Another \$400 was invested in the engine as I deceided that as long as I had not installed it yet, a rebuild would pay off in the long run. It was a sound decision as upon disassembly I found a frozen exhaust valve. The aforementioned \$400 included rings, gaskets, deep oil pan, high-volume oil pump, valves, Holley intake manifold and 4v carburetor, Accel dual point distributor, and miscellaneous fittings and hardware for re-assembly. In addition, new rod bearings were fitted, cylinders honed and heads hot tanked and valves installed at the shop. The machine shop prices were quite reasonable, and to one accustomed to repair bills for authorised Land-Rover work, they seemed trifling.

Once the new engine had been completed, I decommissioned my old faithful 2.25 litre engine. An engine crane was rented and the old engine was pulled with suprisingly little effort. To facillitate easy removal (and re-installation of my new engine) the front wings, grille and radiator are removed. The old engine is removed complete, leaving only the bellhousing, transmission and transfer case in original place. The V8 is lowered into position with the ABP adaptor plate bolted in place. At this point (while engine is still out of Landy) it behooves one to align the clutch pressure plate disc. We were unable to obtain an aligning tool although more than one source lists one for the Land-Rover. Instead, we sanded down a piece of wooden dowel to two diameters for the job. The engine assembly was then mated to the bellhousing and bolted into place. At this point, the engine is centered and jacked up as far as possible (the transmission limits the amount of travel) to allow the front driveshaft to clear the bottom of the adaptor plate. With the engine in position, a set of motor mounts were fabricated out of  $\frac{1}{4}$ " angle and welded up at a shop for a total cost of five dollars. One end of the mount bolts to the Landy body mount bracket (three bolts at bottom of bracket through frame) and the other side to the Ford insulators on either side of the engine. The triangle mounts make for an extremely strong mount, and one need not worry about broken mounts provided that the welds on the mounts are sound and the bolts through the frame are at least grade five or higher.

Once the motor was mounted in the Rover, all fittings were connected including original Rover instruments in addition to various aftermarket gauges. The Rover oil and water gauge sending units may be retained intact. All that remains is to adapt them to the Ford openings. This may be accomplished by a trip to the local hardware store where various pipe fittings will be on hand to suit the requirements. All threads should be taped with Teflon prior to buttoning up. Rover Owners' Association Newsletter - Volume VII, Number 1

# LAND-ROVER 88/FORD 302 V8 CONVERSION (continued):

My Landy is a 1966 IIa, requiring the after portion and top plate of the foward frame cross-member to be removed (just foward of the radiator) in order that there be sufficient clearance for the radiator. The radiator <u>must</u> sit in the "valley" of the bottom and front sides of the partially removed cross-member to allow both for sufficient fan clearance as well as for clearance for the headlamp socket assembly (on all Rovers except Series III). I utilised a stainless steel flex fan of a sixblade configuration for added cooling over the stock rigid Ford fan.

When everything was connected, the dynamo was fitted to the Ford engine using the original Landy bracket and the rear of the unit was fastened into one of the heads on the Ford. An Accel Super Coil was installed and original Rover starter switch retained because of owner preference (a built-in theft deterrent of minimal cost).

After cold cranking the engine for about 30 seconds to build up oil pressure, the ignition wastswitched in and the engine roared to life. The engine was allowed to run while checks were made for oil pressure and leaks. After the usual kinks were ironed out, the Rover was put on the road. Obviously, the most immediate impression conveyed was that of seemingly limitless power in comparison with the old four-cylinder. Starting in first gear was a virtual waste due to the combination of Rover gearing and the 240 plus foot pounds of torque from the Ford; and attempting this produced a series of violent lurching motions. In fact, it was possible to start from a standstill in third gear. Acceleration was very robust, as expected, and off road evaluations will be made following break-in. It is expected to be phenominal in low gear.

To date, I have logged 150 miles on the 302 Landy and the engine is still in the break-in stage. Initial gas consumption figures gave 11 mpg for combined (mostly city) driving, including long periods of idle and rapid acceleration within the confines required in breaking-in a new engine. I conservatively expect 2-3 mpg gain in sustained highway driving. This I consider quite acceptable in that a best avearage of 16.1 mpg highway was achieved with my old Rover engine. This summer I intend to install the Fairey Overdrive unit which should allewiate (or at least help) the horsepower/gearing overkill I now have, as well as contribute to improved gas consumption. I expect gas performance to equal or better my best record with the old engine after the overdrive is installed and, in my opinion, to gain such a large increase in performance (not to mention: no more parts hassles from the engine) with little or no overall sacrifice in fuel economy, represents an extremely good way to stretch out the Landy's lifespan.

WILL WE EVER SEE ANY MORE ROVER PRODUCTS IN THIS COUNTRY: Continued reports in the automotive press regarding the future of Rover in the US seem mixed at best. Two recent blurbs deserve some comment: In an effort to counter upcoming 4WD competition from Mercedes at the upscale end of the European market, British-Leyland will offer its Land-Rover with V-8 power sometime next year. And: 4WD expansion program at Leyland (\$405 million) which is geared to boest Land-Rover annual production to 125, 000, while Range Rover output would rise to 29,000 per year. Nice rumors, both. But honorary member Avery Fisher, just back from London, advised that not one British dealer held any hope for future export of the new Rover 3500 to the US now or in the forseeable future. And, on top of that, Rover was contemplating the phase-out of a TR-7 plant, the result of which could be a company-wide strike. Notably, there are no TR-8's yet in this country and we've heard mixed reports concerning the UScertification of the Rover V-8.

If any members have had leaks in their power steering pump shaft seals, there is a simple and totally successful cure by using seals from earlier model Eaton pumps (used by Ford and Chysler.). Aver Fisher's source is Mel's Transmissions, 919-65th Street, Brooklyn, New York, 11219. Either send in the original seal for matching or send in the pump itself.

Engine-Tuning Componenets for the Rover V-8: Now that the Rover V-8 has made its way into so many of Leyland's cars apart from the Rover there appears to be a fair number of performance parts shops opening up in England. One of the most wellknown and respected is Lawrencetune Limited. They have been providing performance parts for Triumphs and Morgans for well over a decade. We thought the membership would be interested in what they have available for the Rover V-8 engine. The following Lawrencetune components are listed in Pounds Sterling and do not include shipping to the U.S.

#### Price 130.00 Exhaust manifolds These are fabricated construction consisting of 15" primaries, terminating in collector boxes near chassis openings. All hot bends are made to the highest standards and head faces are ground; much improved performance is gained throughout the range. Manifolds fit directly on Rover gearbox gars, and with slight modification, to the Moss box cars. Weber carburettor kit Price 475.00 Includes 4 4R DCNF Weber carburettors mounted on our own light alloy cast manifold with provision for thermostat. Kit comes complete with all necessary throttle linkages and fuel pipeing. This is the ultimate carburetion system for competition and road use. Holley carburettor kit Price 170.00 Comprises Holley 550 cfm double pumper carburettor and Edelbrock "Torquer" manifold. This is an ideal combination for fast road use. Kit comes complete and ready to fit. Camshaft kits Race kit or Road kit Price 150.00 Road cam kit - Duration 258°, lift 0.445 in. Race cam kit - Duration 294°, lift 0.506 in. The above kits give optimum performance increase when used in conjunction with the special exhaust manifolds. Steel can sprocket Price 31.00 This replaces the standard plastic gear and is recommended for use with the race cam. The kit includes a heavy-duty timing chain; the standard crank sproket is

Racing valve kit Price 148.00 Comprises inlet valve, diameter 1.625 in. and exhaust valve, diameter 1.375 in. (maximum possible head diameters for standard combustion chambers), both with reduced stem diameter of 5/16 in. to permit increased gas flow through the ports. Also included are valve guides and special bullock-type cotters and spring retaining caps, which reduce the possibility of failure of these items, normally a common fault. Competition head gaskets Price 22.00 Reinforced composite construction gaskets. These are slightly thicker than the standard crimped steel, with much improved resistance to gasket failure. Vital on competition and high compression engines, these are supplied as a complete

retained.

top end overhaul kit. Oil cooler kits This comes complete with oil cooler, mounting brackets, adaptor housing, remote

oil filter assembly and all pipes with fitted unions. A vital system if frequent high speed motoring is contemplated. Racing pistons and liners Pistons and liners (per cyl) Price 50.00

The pistons and liners are made by Cosworth to Lawrencetune specifications. These are of 92.5 mm diameter and, with the standard crank, increase the engine capacity to 4050cc. The forged aluminum flat top pistons have valve cut-aways and fully floating gudgeon pins. The above system is available on an exchange block service. Complete block suitably machined with liners fitted, plus pistons 500.00. Macm bearing bolts For engines running at high revs, or producing a lot of power we do a conversion set of studs to strengthen up the bottom end of the V8 engine. This kit comes complete and ready to fit. Rover Owners' Association Newsletter - Volume VII, Number 1

WORKSHOP MANUALS: ABC Equipment, The Green, Clayton, Doncaster, DN5 7DD, England has the following manuals available. All of those quoted are original factory publications and prices quoted are in Pounds Sterling. Prices do not include postage and packing; these will be charged extra at cost, depending upon whether Air or Sea postage is required.

4291	Land-Rover Factory Workshop Manual (1948-1958)	5.50
606408/7	Land-Rover Factory Workshop Manual (Series IIa: 2 parts)	10.00
607314	Land-Rover Factory Workshop Manual (Series III)	5.00
AKM3630	Range Rover Factory Workshop Manual	5.00
606162	Land-Rover Owners' Maintenance Manual (Series IIa)	.75
607324	Land-Rover Owners' Maintenance Manual (Series III)	.75
	Range Rover Owners' Maintenance Manual	.75
RTC9018C	Range Rover Factory Parts Catalog (Current Edition)	5.50
4107	Land-Rover Factory Parts Catalog (Series I 86", 107"	
	and 109" 4th Edition) Used copy	7.00
4187	Land-Rover Factory Parts Catalog (Series II 1961 Edition)	
Alidore	Used copy	7.00
608024A	Land-Rover Factory Parts Catalog (Series IIa Current editi	on5.50

RTC9007C Land-Rover Factory Parts Catalog (Series III Current edition5.50 RTC9009C Land-Rover Optional Equipment Catalog (Current Edition) 5.50 Mr. Fred Booth of ABC also indicates that he handles all Rover saloon manuals as well as the above. He does have some material on the 60, 75 and 90 series Rovers and even has material on the Rover 10, 12, and 14's. Anyone interested in those can write for details.

Association member Terry Brown of 6112 12th Street East, Bradenton, Florida, 33507 has worked as a Rover/Land-Rover mechanic for a dealer and is currently setting up shop himself specializing in quess what. For anyone with service problems in the Bradenton/Sarasota, Florida area please feel free to contact Terry/

Inquiries from Leyland International regarding the future of Rovers in this country brought the following response from Mr. G.O. Ehrman of British Leyland Motors Inc. U.S. The letter was dated January 23, 1978.

Mr. M.J. Hodge of British Leyland has sent me a copy of your letter together with his reply. I note that he does not address himself to the possible importation of various Rover models.

As of this date, there are no plans whatsoever to introduce the Range Rover or the Land-Rover, either with the present engine or the V8 version, into this market.

Furthermore, in view of the National Highway Traffic Safety Administration release of last week attempting to include 4 wheel drive vehicles in the gas mileage restrictions, this position may never change.

With regard to the new Rover 3500, this model is very much under discussion and environmental testing; however, any introduction of this model would be no earlier than the 1979 model year.

Member James E. Trogdon, P.O. Box 1525, Placerville, California, 95667 would like to know the manufacturers names and parts numbers for air shocks to fit the model 88 Land-Rover. Also, Jim is looking for the address on the Conestoga Camper which is manufactured in Ontario, Canada. This camper unit bolts to the roof and has a canvas covering with three aluminum bows. Rover Owners' Association Newsletter - Vo, ume VII, Number 1

<u>Rent a British Car:</u> Although we are particularly partial to Rover products I suspect that many of us are partial to British cars in general. At least this writer is. Perhaps one of the most exciting contemporary cars (if one can call it that) that is unavailable here is the Morgan +8 5 speed lightweight roadster. The Morgan, which has always been a exciting car, is even more so with the Rover V-8 and new 5 speed gearbox from the SD-1 3500. Elsewhere in this issue is a listing of speed equipment for the Rover V-8 which should do wonders with it; It would undoubtedly allow the Morgan +8 to out-accelerate a Ferrari Daytona, maybe even the Berlinetta Bomer as well. The Rover V-8 has really come a long way since it was first purchased from General Motors, Buick Division, in 1967. Today, it is employed in the Rover 3500, Range Rover, Land-Rover, Triumph TR-8, MGB-GT V-8, and in the Morgan +8. I thought it might be interesting for the membership to see some of the cars which can be rented in England (just a thought for your next trip there):

SportsHire Limited, 12/14 Kendrick Mews, Reece Mews, London SW7, England has the following interesting range of sports cars available: (All prices are in Pounds Sterling) MG Midget roadster 80.00/wk 150.00/2 wks. MGB roadster 100.00/wk 180/ 2 wks. MGB GT 3500 V-8 140.00/wk 260.00/2 wks. Morgan 4/4 1600GT 140.00/wk 260/2 wks. Morgan +8, 5 speed 209.00/wk 360.00/2 wks. Triumph TR-7 140.00/wk 260/2 wks. Mercedes 350SL 260.00/wk 450.00/2 wks.

RoverHire, Lillie Hall, Seagrave Road, London SW¢ 1SF, England, which provides a 15% discount for Association members, has the following available: Rover 2200 Auto 116/7 days 431/28 days Rover 2300 Auto 143/7 days 532/28 days Rover 2500 Auto 148/7 days 547/28 days Rover 3500 Auto 175/7 days 646/28 days Jaguar XJ 3.4 & 4.2 222/7 days 820/28 days Range Rover 206/7 days 762/28 days Triumph TR7 108/7 days 398/28 days

Guy Salmon Limited, 7-23 Bryanston Street, Marble Arch, London, W1, England has an even broader range: 147/wk. Rover 2600 Auto Rover 3500Auto 175/wk. Range Rover 224/wk Jaguar XJ6L 4.2 224/wk. Daimler Sovereign 224/wk. Porsche 924  $22^{1}/wk$ . BMW 728 245/wk. 420/wk. Jaguar XJS Mercedes 450SEL 420/wk. Mercedes Limo 420/wk. Rolls-Royce Silver Shadow 686/wk.

- FOR SALE: Unique Rover 2000TC: Rustless! Ten years old. 30,000 miles. Never been driven on winter roads. Arden green. Registered & insured. Best offer. Hamilton Winslow. Clarks Summit, Pennsylvania. 717-563-1263.
- FOR SALE: Land-Rover parts. Contact W.K. Hilliard, Jr. evenings or weekends. 208-587-7644. 119 Abbott Drive, Mountain Home, Idaho, 83647.
- FOR SALE: Land-Rover and Rovers Bought, Sold, or Traded. Also parts service. Contact: John David, 2254 66th Avenue, Sacramento, California, 95822. 916-392-5848.
- FOR SALE: 1961 Rover 100. RHD, 4 speed with overdrive, radio, gray with red interior. Total mileage 15,000. All toools, manuals and sales literature plus spares. This car is in NEW CONDITION. Price \$6000.00 or will trade for Bentley or Rolls. Contact: Rod Agee, 2022 So. Juniper, Escondido, California, 92025 or call 714-746-1583.

- FOR SALE: Land-Rover parts. All years and models. Presently parting out 1962 88, 1967 88, 1969 88, 1966 88 and 1971 88. Contact: Robert M. Shevchik, 143 West South Hills Avenue, State College, Pennsylvania, 16801, or call 814-237-0030.
- WANTED: Land-Rover 109, new or used, for Alaskan expedition. Contact: George M. V. Hook, Jr., 47 Fletcher Road, Belmont, Massachusetts, 02178.
- FOR SALE: 1972 Series III Land-Rover 88. Green with black trim; 30,960 original miles; one owner. Vehicle was serviced by Morris Garage, Maryland, New York. This Rover is the one featured in Four Wheeler Magazine, September, 1977, page 73. There are many ext ras that have been added, such as: brush guard, headlamp guards, white spoke wheels by Jackman, a rollbar, Viper headers with a Rochester carb, electronic ignition, burglar alarm, driving lights, extra tool boxes, extra gauges, plus the inside is fully insulated and earpeted. For more information contact: Jim Simonds, Barnes Road, Stratford, New York, 13365 or phone 315-429-3678. Best offer will take it. Reason for selling: plan to buy another vehicle, Land-Rover or Range Rover, and completely rebuild and customize.
- FOR SALE: 1962 Land-Rover 88 Series II. Please contact: Dennis McQuerry, 1496 Norman Avenue, San Jose, California, 95125.
- FOR SALE: Land-Rover parts and service. If you can't find something, we can. We have a stock of Land-Rovers from Series II and up to the present. Engines, transmissions, axles, etc. Contact: P.J. Cull, 920 Koloa, Merritt Island, Flori da, 32952 or phone 305-452-4458.
- WANTED: P.J. Cull is also interested in a Foward Control model Land-Rover. Contact him at above-listed address.
- Land-Rover and Range-rover factory service tools. The same tools used by FOR SALE; Rover Factory mechanics. With these tools and the aid of a workshop manual. most Rover owners can repair and maintain their beloved Rovers themselves, and possibly do a better job than many Authorized and independent Rover service facilities, few of whom really care enough about the vehicles they service, to invest in and use the proper service tools. In addition to making it much easier to service your own vehicles, the Rover factory service tools can help free you from dependence upon Leyland and independent Rover service facilities and possibly save you a good deal of hard-earned money in the process, as well as provide you with a more thorough knowledge of your Rover and how it works. If you can read and understand your Rover workshop manual, you should, with the aid of the Rover factory service tools be quite capable of performing your own maintenance. This is an excellent opportunity for Land-Rover and Range Rover enthusiasts to ban together and form a TOOL POOL. With a number of Rover Association members ontributing towards the purchase price of factory service tools the cost per member would be quite reasonable. British Standard/Whitworth and American wrenches, sockets, ratchets, micrometers, torque wrenches, and just about anything else that is required in the way of hand tools for servicing Land-Rovers is available if required, even a Rover Repair Operation Times Manual with flat rate times for all repairs on Land-Rovers, Range Rovers and Rover 2000's and 3500's. For further details please write to: Rover Tools, 18151 Shook Lane, Yorba Linda, California, 92686. Will ship freight pre-paid anywhere in the lower 48 states.

Eugene W. Adams Rodney B. Agee Dr. Claude Anderson Paul Arbuthnot Nicholas Arnett Hollis B. Austin Thomas A. Austin Alvin E. Babbitt Walter Banta Peter Barclay James H Barnett David I Barrett Norman F. Barry Lorenzo W. Barton Barry Beck Sidney Berlin Arnold Betbeze Ira Bigeleisen Stanley Bleeker Edwin D. Bloodworth Eugene W Boehne, Jr. Anthony J Bonanno Nate Borodinsky Chris Boulsbee Richard Boylan Timothy Braithwaite Bill Brennan Col. Russell Broner Frank C. Brooks, Jr. George L. Brown T. Donald Brown

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1972 Land-Rover 88 1961 Rover 100 1968 Rover 2000TC, 1969 2000TC 1949 Rover 75 1967 Rover 2000TC 1970 Land-Rover 88 1967 Land-Rover 109 1970 Rover 3500S, 1968 2000TC 1972 Land-Rover 88 1973 Land-Rover 88 1970 Rover 3500S, 1967 2000TC 1970 Rover 35005 1965 Rover 2000SC 1973 Land-Rover 88 1970 Land-Rover 88 1965 Rover 2000SC 1969 Rover 2000TC 1971 Land-Rover 88 1970 Land-Rover 109 Carawagon 1964 Land-Rover 109 Pickup 1971 Land-Rover 88 1968 Rover 2000TC 1970 Land-Rover 88 1967 Rover 2000TC 1972 Land-Rover 88 1967 Rover 2000TC, 1969 2000TC 1966 Land-Rover 88 1971 Rover 2000TC, 1970 3500S 1965 Rover 3-litre

Terry & Debbie Brown John Ray Burton, Jr. Claude Bylinksi George G. Cain Roderick T. Campbell H. Don Caldwell, Jr. Michael Alan Cane J. Burchfield Cartwright 7 Elysian Way Charles L Castro, Jr. Phil Castro Richard Cendak Tim Cheadle William M Chick John Norris Childs III Ogbonna Chinwah Michael Clarke John Crittenden P.J. Cull William E. Daley Robert Danko Robert A. Deardorff Pat De Esposito George B. De Gennaro Creighton Dennis Art Detrich C.X. Diep Roger Diggle John C. Dillingham Joseph M Dolan Thomas Dorian Verl D Dotson

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1963 Land-Rover 88 1964 Land-Rover 109 1969 Land-Rover 88 1970 Rover 3500S 1974 Land-Rover 88 1970 Land-Rover 88 1962 Land-Rover 109 1968 Rover 2000TC 1970 Rover 3500S Four Rover 2000's 1962 Land-Rover 109 1962 Land-Rover 109 1966 Rover 2000TC 1965 Land-Rover 109 1961 Rover 100

1970 Land-Rover 88
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1968 Rover 2000TC
1968 Rover 2000TC
1969 @000TC, 1970 3500S
1961 Land-Rover 109
1973 Land-Rover 88
1970 Rover 3500S, 1969 2000TC

Bruce B Dressell Mary & Roy Dunn Elliot Dwick Brian Dyer James Easterday Paul Eisman Ronald Engleman David Evans Jerry Faken Ward Faulkner Sylvestor Felty John W Finken Avery Fisher Brian T Fitzgerald James G. Elynn Mark Fontanella Robert L Ford Chas/Stephanie Fuller Thomas Gallucci Charles Gifford Jerome E. Gilles Steven H. Gillum Andrew Goldfine Damasco Gomez David N. Goodson Earle G. Goodwin, Jr. Alice S. Gray P.A. Grayce John P. Green James N. Babor Stephen J. Gaseau

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1971 Land-Rover 88 1970 Rover 3500S Numerous Rovers & Land-Rovers 1963 Land-Rover 109, 1961 88 1970 Rover 3500S 1970 Rover 3500S 1951 Land-Rover 1965 Land-Rover 88, 1967 109 1968 and 1969 Rover 2000TC's 1967 Rover 2000TC 1969 Rover 2000SC 1967 Rover 3-litre Mark III 1967 Land-Rover 88 1962 Land-Rover 109 Land-Rover 1973 Land=Rover 88 1964 Land-Rover 88 Diesel 1973 Land-Rover 88 1967 Land-Rover 88 1973 Land-Rover 88 1973 Land-Rover 88 1973 Land-Rover 88 1968 Rover 2000TC 1967 Land-Rover 109 1967 Rover 2000TC 1970 Rover 35005 1974 Land-Rover 88 1967 Land-Rover 109 1973 Land-Rover 88 1967 Land-Rover 109 Dormobile

James F. Gast Matthew Greenwood Lawton D. Gresham Alexander P Srice IV Emil C. Grohman Greg Gruse Victor Guarino Alfred R. Haas Mark Halpern WK Hammond John E. Hanna Sonny Hansen Cdr. TJ Harper. USN Dwight A Hartman Dermot Harvey Winston S Harvey Susan & Terry Hawker Joseph Hayden Keiller Haynie, Jr. Phil Hedley Grant E Hegranes Roy B Henderson C. Henningsen John & Lois Henricks J. Thomas Henry Woody Hering Donald Lynn Hickman Larry Higby Stephen M Hill WK Hilliard Mark V. Hillman

276 Kelton Avenue San Carlos, CA, 94070 7101 Point of Rocks Circle Sarasota, FL, 33581 2000 Dollwood Drive Greensboro, NC, 27408 420 ₩ Bute Street Norfolk, VA, 23510 21430 Ontago Farmington, MI, 48024 **Et 1, Box 357** Swedesboro, NJ, 08085 71 Payson Avenue New York, NY, 10034 2026 Pinto Lane Las Vegas, NV. 89106 3800 El Centro Palo Alto, CA, 94306 3400 Rhonda Valley, Unit 26 Mississaula, ONtario, Canada 1580 So Monroe Street Denver, CO, 80210 PO Box 2323 Paterson, NJ, 07509 COMNAVSOUTH, Box 168 FPO, NY, 09524 6922 Preston Fall City Rd SE Issagrah, WA, 98027 17 Church Street Garnerville, NY, 10923 4 Franklin Road Bedford, MA, 01730 1278 First Street Simi Valley, CA, 93065 1113 Sheppard Road Burkburnett, TX, 76354 3601 Sunset Farmington, NM, 87401 26565 Masur Drive Palos Verdes, CA, 90274 PO Box 60875 Oklahoma City, OK, 73106 2632 Guilford Avenue Baltimore, MD, 21218 3411 E. Van Buren Phoenix, AZ, 85008 615 No 14th Avenue Melrose Park, IL, 60160 730 Gilpin Street Denver, CO, 80218 425 Hedwig Houston, TX, 77024 432 Palmary El Paso, TX, 79912 Box 20, PoPo Agie Rte Lander, WY, 82520 2645 Church Lane San Pablo, CA, 95822 119 Abbot Drive Mountain Home, ID, 83647 12718 4th NW Seattle, WA, 98177

**1963** Land-Rover 109 Land-Rover 1967 Rover 3-litre Mark III 1972 Land-Rover 88 1969 Land-Rover 88 1974 Land- Rover 88 Land-Rover 1960 Land-Rover 88 1967 Rover 2000TC 1965 Land-Rover 109 1957 Land-Rover 88 1958 Land-Rover 88 1972 Land-Rover 88 1961 Rover 3-litre 1961 Land-Rover 109, 1965 109 1966 Rover 2000TC 1966 Land-Rover 109 1972 Lnad-Rover 88 1965 Land-Rover 88 1967 Land-Rover 88 1969 Rover 2000TC 1970 Rover 2000TC 1967 Land-Rover 109 Land-Rover 1964 Land-Rover 109 1969 Rover 2000TE 1970 Rover 3500S 1967 Land-Rover 109 1966 Land-Rover 88 Diesel 1973 Land-Rover 88 1967 Land-Rover 109 Dormobile 1956 86, 1959 109 1966 Land-Rover 88

Willard Hodges George M.V. Hook, Jr. W. Hosford Phillip E. Hunter Wm Post Hubert Chas/Brenda Jackson Jeffrey Jackson **Rick Jenkins** Jamie Jenny Robert Johnson Reginald S Johnson B.T. Jones Robert P. Jones Ron Jones Edward Judge Jr Michael Kamoff A.A. Kamishlian Paul D. Kane C. Brian Kapalin Horman A. Karl Dr. A.A. Karpinski John W. Keienburg Robert N. Kennedy John F. Kenney Steve Kershner Bruce Steven Kessler Capt. John Kiland Joseph E Kinnebrew IV John Kirk Charles Klein

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1969 & 1970 Rover 2000TC's

1969 Rover 2000TC 1974 Land-Rover 88 Numerous Land-Rovers 1969 & 1970 Rover 2000TC's 1970 Rober 3500S 1972 Land-Rover 88 1969 # 1971 Land=Rover 88's 1970 Rover 2000TC 1969 Rover 2000TC 1973 Land-Rover 88 1966 Land-Rover88 Countless Rovers 1971 Land-Rover 88 1971 Rover 35005, 1964 3-litre 1972 Land-Rover 88 1972 Land-Rover 88 Numerous Rovers 1969 Land-Rover 88 1966 Land-Rover 109 1965 & 1968 Land-Rover 88's 1967 Rover 2000SC 1972 Land-Rover 88 1964 Land-Rover 109 1972 Land-Rover 88

1966 Land-Rover 109 1970 Land-Rover 88 1974 Land-Rover 88

Wolfgang Klien Kenneth E. Kruchemeyer Fred E. Kusterer Norman Law Christopher S. Laws Glen G. Larsen John E. Lee TH Leist Edward Lemanski James J Leons Daniel M Less Michael Leverland David M Lewis, DDS Norman F. Lewis, Jr. J. Birney Linn Cdr. Harry Lineback John Lissol Capt. Patrick Longan Dr. Desmond Longford George Loredo Rod McConnell Robert W. McCoy Sharpe McCullough, Jr. W. Richard McCutchan Henry McKee Michael McKeegan Cdr. BF McMahon Cyrus C McNutt, MD Dennis L. McQuerry Braan MacKid **RB** Maguire

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1962 Land-Rover 88 1966 Land-Rover 109 1967 Land-Rover 88 Diesel 1961 Land-Rover 109, 1964 88 1964 Land-Rover 88 1972 Land-Rover 88 1969 Rover 2000TC 1966 Land-Rover 109 1969 Land-Rover 08 1967 & 1968 Rover 2000YC's 1971 Land-Rover 88 1966 Land-Rover 109 1962 Land-Rover 109 1974 Land-Rover 88 1957 & 1965 Land-Rover 88's 1969 Rover 2000TC 1971 Land-Rover 88 Numerous Land-Rovers Numerous Rovers 1965 Rover 2000SC 1970 Rover 3500S 1965 Land-Rover 88 1967 Rover 2000TC 1959 Land-Rover 109 1967 Rover 2000TC 1971 Land-Rover 88 1973 Land-Rover 88 1966 Land-Rover 109, 1973 88 1966 Land-Rover 109 , 1974 88 1965 Land-Rover 88 1971 Land-Rover 88

Mark Maloziec Milford Manley Reginald Manwell George E. Matas Mr/Mrs Howard Maxwell Dennis Medford James Meek Walter Meissner Hal Meredith Steve A. Messer Gerard Metzger JF Metzger Harry Michael Rob Millberry Ctac, William Miller John Milligan Jack D. Minch J. Marshall Moore Jacques Morency Dail W. Mortimer Patrick Mulloy William J Murphey, Jr Nicholas F. Muska Peter Neely Tom Newsom Martin G. O'Brien Ken Ockfen Richard Officer Robert Osterman John H. Oswald Raymond F Ouellette

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1973 Land-Rover 88 1966 Land-Rover 109 1964 Rover 110, 1968 2000TC Land-Rover Diesel Pickup 1966 Rover 2000TC 1969 Land-Rover 88 1970 Rover 3500S 1972 Land-Rover 88 1972 Land-Rover 88 1970 Rover 2000SC Numerous Rovers & Land-Rovers 1970 Rover 3500S 1970 Rover 3500S 1974 Land-Rover 88 1967 Rover 2000TC 1968 Rover 2000TC 1973 Land-Rover 88 1967 Rover 2000TC, 1970 3500S 1967 Rover 2000TC 1968 Rover 2000TC 1967 Rover 2000TC 1970 Rover 3500S 1972 Land-Rover 88 1967 Land-Rover 109, 1969 88 1969 Land-Rover 88

1973 Land-Rover 88

James W. Oxton Mr/Mrs Lester Palangi Jim Pappas Gary W. Passmore Hugh K. Penney Frank Pescherine Jan C. Peterson Joseph Peterson, Jr. James W. Pilcher, Jr. W. James Pile Mark Pitcher Mr/Mrs Calvin Pixley David J Place Mark Pliskin, MD William E Polsca Allan/Marjorie Powell Milton H Raffle Eric V Ramsing Jeffry H Richardson Michael Rogsby Charles E Ritts III Carl L Roberts James B. Russell Wayne L Russell, Jr. RP Saldamando David B. Sampson Luigi Saporito George R. Sawin Harlan F. Sawyer Larry Scavone Bejamin Hall Schapiro

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1966 Land-Rover 88 1974 Land-Rover 88 1967 Land-Rover 88 1973 Land-Rover 88 1973 Land-Rover 88 1963 & 1967 Land=Rover 88's 1952 Rover 75, 1961 100 1970 Rover 35008 1973 Land-Rover 88 1967 Rover 2000TC 1967 Land-Rover 109 Various Land-Rovers 1962 Land-Rover 88 1972 Land-Rover 88 1968 Rover 2000TC 1970 Rover 3500S 1963 Land-Rover 109 1951 Land-Rover 86 1969 Rover 2000SC 1972 Land-Rover 88 1963 Land-Rover 88, 1967 109 Rover 2000TC 1966 Land-Rover 88 1972 Land-Rover 88 1969 Land-Rover 88 1970 Rover 3500S 1967 Rover 2000TC 1970 Land-Rover 88 1968 Rover 2000TC 1965 Land-Rover 109

Dick/Marty Schlink . Jim Sewell Phillip B Shepard, MD Edwin L Sherrill III Robert M. Shevchik Donald A. Sick James Simonds Dan R. Simons Jack Sloanaker **Bill Slunt** James S. Smith Michael Smith Robert Smith Robert J Smith Dr. Vance Smith William K Smith Albin J Smollin Dwaine E. Spann Sebastian Spataro Fred Spencer Hope Spencer Dennis Staffne Star Contracting Co Terry Stinson J. Clarence Stoekler Gerald W. Stone, Jr. Ira Strauss William B Sturtevant Jack Earl Sullivan Roger H Sweet ME Sykes. Jr.

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1967 & 1963 Land-Rover 88's 1970 Rover 3500S 1972 Land-Rover 88 1973 Land-Rover 88 1972 Land-Rover 88 1969 Land-Rover 88 1972 Land-Rover 88 1974 Land-Rover 88 1967 Land-Rover 109 1969 Land-Rover 88 1970 Land-Rover 88 1973 Land-Rover 88 1962 Rover 3 litre 1973 Land-Rover 88 1965 Land-Rover 109 1967 Land-Rover 88 1970 Rover 3500S 1972 & 1973 Land-Rover 88's 1957 Rover 105S 1965 Rover 2000SC, 1970 3500S 1970 Rover 3500S 1973 Land-Rover 88 1968, 1969, 1970 Rover 2000TC's 1973 Land-Rover 88 1965 Rover 2000SC 1965 & 1963 Land-Rover 109's 1973 Land-Rover 88 1966 & 1972 Land-Rover 88's 1966 Rover 3 litre, 1967 2000 1963 Land-Rover 88 Numerous Land-Rovers 1965 Land-Rover 109

Malcom Tarkington Daniel J. Taylor Peter Tester Ernest Thompson Ian Thompson Ernie Thor Peter Thomson Glyn Thorman Douglas Thors jo Richard Tins Robert S. Tobin Anthony Toart III David D. Traynham Stephen J Tricano James E Trogdon Dave Turner Doug Turner Richard Turner David Turnoff JF Valdez Aart Van der Starr Katherine P Van Norden John H Van Vleck Raivo Vest Dr. William J Wallace Per O. Walthinsen Daniel A Wasmund King Waters Ronald Watt Waldon R Weber Lt. Lawrrence M Weed

424 E Clinton 1970 Rover 3500S Huntsville, AL, 35801 Box 643 Cascade Road, New Canaan, CT, 06840 129 Pointe Claire Avenue Point Claire, Quebec, Canada H9S 4M7 1221 Parker Place #1 San Diego, CA, 92109 1435 Seiger Drive Springfield, MO, 65804 260 Castleton Way San Bruno, CA, 94066 2425 Grenallen Drive, Burlington 1970 Land-Rover 88 Diesel Ontario, Canada L7B 1W1 Trollhaugen Road Dresser, WI, 54009 Bessey Ridge Road Albion, ME, 04910 1503 Ridgecrest Austin, TX, 78746 343 E 30th Street New York, NY, 10016 Box 32317 Washington, DC, 20007 2202 N Dale Street #9 St Paul, MN, 55113 15 Norwood Place Norwood, NJ, 07648 PO Box 1525 Placerville, CA, 95667 210 Bergstrom Court Lackland AFB, TX, 78236 RR#2, Uxbridge Ontario, Canada, LOCIKO 1104 W Glendale Phoenix, AZ, 85021 1200 Springdale Road Placerville, CA, 95667 1401 Wilshire San Antonio, TX, 78209 656 Chemin Street Henry, Ste Marthe Vaudreuil County, Quebec, Canada, JOP 2WO 505 Wakefield Drive Metuchin, NJ, 08840 989 Memorial Drive Cambridge, MA, 02138 RD 1, Box 279 R Centre Hall, PA, 16828 San Diego <sup>D</sup>tate University San Diego, CA, 92182 2926 NE 58th Avenue Portland, OR, 97213 Rt. 1, Box 41A Hoxley, IO, 50129 3603 Dumbarton Houston, TX, 77025 127 Point Claire Avenue Pointe Claire, Quebec, Canada H9S 4M7 Bog 1748 Litchfield Park, AZ, 85340 4249 31st Street North Arlington, VA, 22201

1966 Rover 2000TC 1974 Land-Rover 88 1972 Land-Rover 88 1965 Rover 2000SC, 1969 2000TC 1970 Rover 3500S 1964 Land-Rover 88 1967 Land-Rover 88 Numerous Land-Rovers 1969 Rover 2000TC Land-Rover 1973 Land-Rover 88 1972 Land-Rover 88 1969 Rover 2000TC Numerous Land-Rovers 1969 Rover 2000TC 1971 Land-Rover 88 1972 Land-Rover 88 Land-Rover 1969 Rover 2000TC 1973 Land-Rover 88 1967 Rover 3-litre 1966 Land-Rover 88 1967 Land-Rover 109 1953 Rover 75, 1970 3500S 1966 Land-Rover 109 diesel 1973 Land-Rover 88 1970 Rover 2000TC 1969 Land-Rover 88 1973 Land-Rover 88

Gerald M Weil Joseph Weissbart Stephen Weston James M Whitcomb Earl L Whitmore George D. Whitmore Richard Wilkinson, Jr. JA Williams John Williams Alan H Willis David F Wilson Prentiss Willson James G. Wolf Connie/Jon Wood Phil S Work Paul A. Wright Thomas Yokubinas A.L. Zeller Michael Zimmerman Bill Ziegenbein Kendall Wilson Jr

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1970 Rover 3500S 1969 Rover 2000TC 1969 Land-Rover 88 1962 Land-Rover 88 1973 Land-Rover 88 1968 Rover 2000SC, 1970 3500S 1972 Land-Rover 109 1967 Rover 2000TC 1962 Land-Rover 88 1967 Land-Rover 109 1964 Land-Rover 88 1968 Rover 2000TC 1966 Land-Rover 109 1969 Rover 2000TC Land-Rover 1974 Land-Rover 88 1974 Land-Rover 88 1966 Rover 3-litre Mark III Numerous Land-Rovers 1965 Land-Rover 88 Rover



