Suspension installation

Front suspension

Rear suspension

- 1. Loosen wheel nuts
- Jack the front of vehicle up, rest chassis on trestles and remove front tyres
 (GEN4 – remove the front cross member to be replaced with the new one later)
- 3. Jack up one side of the diff and remove Top shock nut
- 4. Remove the opposite side, top shock nut
- Remover ABS Cable from metal clip retainer (GEN3 – undo plastic clip retainer)
- Slowly lower down the jack till the shock is no longer compressed and can be wiggled in top housing.
 NOTE: Keep an eye on the ABS cables, if they need more slack, undo the next clip restraining the cable
- 7. Undo the bottom shock retainer bolts and remove the shocks and coils This may require further lowering.
- Refit new coils and insert the shocks (bolt only the bottom of the shock in place) – Rotate the coil till the bottom coil nested correctly in the housing (see figure 3)
- Raise the diff with the jack (one side at a time), compress the shock, release it and guide it thought the top mount hole.
- Tighten bottom shock bolt to 90nm tighten top shock so that 3-4 threads are visible as per Figure.1 (do not over compress the rubber)
- 11. Replace brake lines with the extended brake lines (see brake line replacement below)
- 12. Refit the wheels and torque them to 110nm.
- 13. Fit the new cross member.
- 14. Jack up the vehicle, remove trestles and lower the vehicle back to the ground

Figure.1



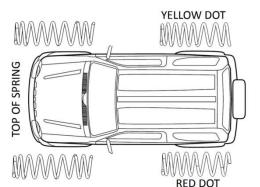
- 1. Loosen wheel nuts
- 2. Jack the rear of vehicle up, rest chassis on trestles and remove rear tyres
- 3. Jack up one side of the diff slightly and undo bottom shock bolt (raise and lower the diff to find the neutral position of the shock and the bolt will come out easily)
- 4. Loosen the opposite side, bottom shock bolt
- GEN4: Remove ABS Cable from metal clip retainer and remove head light levelling bracket (GLX /Auto Only)
- 6. Remover top bolts from both shocks
- Slowly lower down the jack.
 <u>NOTE:</u> Keep an eye on the ABS cables, if they need more slack, undo the next clip restraining the cable
- 8. Refit new coils and insert the shocks (bolt only the bottom of the shock in place) Rotate the coil till the bottom coil nested correctly in the housing (see figure 3)
- 9. Refit new coils –RED dot (shorter coil) on the Passenger/Left hand side, yellow dot (Longer coil) on the driver/right hand side (RHD only) tighter coils up
- 10. Insert the shocks (bolt only the bottom of the shock in place)
- 11. Raise the diff with the jack (one side at a time), compress the shock, release it and guide it into the top mount bracket.
- 12. Insert top bolts and Tighten all 4 bolts to 90nm
- 13. Replace extended brake lines (see brake line replacement below)
- 14. Fit the new headlight levelling bracket (Figure.2)
- 15. Refit the wheels and torque them to 110nm before removing the trestles and lowering the vehicle to the ground. Adjust head light levelling bracket to suit your vehicles ride height.

Figure.2









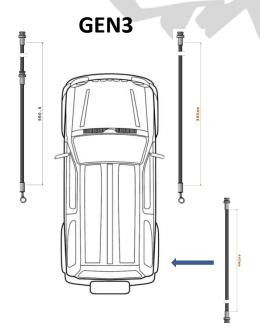
Brake Line Replacement

Front Brake lines

- 1. Loosen wheel nuts
- 2. Jack the front of vehicle up, rest chassis on trestles and remove front tyres
- Undo the bottom potion of the brake line from the caliper Allow the brake line to drip into a bucket
 - **NOTE:** do not lose any of the washers
- 4. Bolt the new line on the caliper ensure that the washers have been placed correctly on either side of the Banjo.
- Loosen the top of the brake line, then remove retaining clip and completely remove the Brake line
 - <u>NOTE:</u> Only use a PIPE spanner (brake line spanner) to undo this nut, a standard spanner will strip the nut.
- 6. Bolt the top half of the brake line on the brake pipe, replace clips and then tighten the line.
- 7. Once complete rinse the areas thoroughly in case any brake fluid has dripped on to the steel.

Rear Brake lines

- 1. Loosen wheel nuts on the right hand side (drivers side)
- 2. Jack the rear of vehicle up, rest chassis on trestles and remove right rear tyres
- Start on the right hand side of the vehicle and undo the bottom potion of the brake line from brake pipe, then remove retaining clip Allow the line to drip into a bucket
 NOTE: Only use a PIPE spanner (brake line spanner) to undo this nut, a standard spanner will strip the nut.
- 4. Bolt the new brake line on the brake pipe Replace the clips
- 5. Undo the top of the brake line, then remove the clips and fit the loose end of the new brake pipe in its place Replace the clips and tighten the brake line nuts.
- 6. Replace the center brake line with the right hand side line in the same order as above it.
 - NOTE: The GEN4 stock right rear line replaces the stock left rear line (center of diff)
 - The new line is for the right rear



Flushing Brake Fluid

- Start with the right rear (furthers line from the reservoir). Connect a see through tube on to the bleed nipple.
- Operator 1. must press and hold the brake peddle down while operator 2. opens the bleed nipple, then closes it before operator 1. releases the peddle.
- 3. Repeat this operation till there is no more air bubbles coming out of the system.
- 4. Move to the next closest brake line and repeat
 - NOTE: Constantly check the levels of the brake fluid in the reserve bottle.
 - Do not let it drop past the minimum level line.

