

GROUP FIVE

CHASSIS ACCESSORY GROUP

Contents of this group:-

5:1	K3601298AA	RADIATOR
5:2	K3601053AA	SEAT MOUNTING GROUP
5:3	K3601061AB	WIPER MOTOR GROUP
5:4	K3601102AB	HANDBRAKE
5:5	K3601101AC	CENTRE CONSOLE
5:6	K3601105AA	ROLL CAGE
5:7	K3601248AA	SPARE WHEEL CRADLE
5:8	K3601278AA	SWITCH PANEL/CONSOLE SWITCHES

Tools required for assembly of this group: - Qty	
10mm Spanner	2
17mm Spanner	1
13mm Spanner	1
10mm Socket	1
Torque wrench (range 5 - 50Nm)	1
Terminal crimping pliers	1
Rivet gun	1
Drill	1
3.2mm Drill bit	1
5mm drill bit	1
Side cutters	1
Allen keys (range 3 - 8mm)	1
Screw drivers	1
Silicone	1

<p>K3601053AA SEAT MOUNTING</p>  <p>Seat Runner</p> <p>Incl hardware</p>	<p>K3601278AA SWITCH PANEL /CONSOLE SWITCHES</p>  <p>Switch blower</p> <p>Blanking plug</p> <p>Switch button</p> <p>Switch panel</p> <p>Console wiring loom</p> <p>Choke cable</p> <p>Incl hardware</p>
<p>K3601105AA ROLL CAGE</p>  <p>Roll cage spacer</p>  <p>Roll cage standard</p> <p>Incl hardware</p>	<p>K3601248AA SPARE WHEEL CRADLE</p>  <p>Spare wheel cradle</p> <p>Bulb</p> <p>Lamp E30</p> <p>Number plate light loom</p> <p>Spacer 12mm spare wheel bracket</p> <p>Incl hardware</p>
<p>K3601061AB WIPER MOTOR</p>  <p>Relay Mounting plate</p> <p>Ignition adaptor</p> <p>Connector relay</p> <p>Motor wiper</p> <p>Incl hardware</p>	<p>K3601102AB HANDBRAKE</p>  <p>Handbrake lever</p> <p>Handbrake cable</p> <p>Handbrake Balance Bar</p>
<p>K3601298AA RADIATOR</p>  <p>Radiator Assembly</p> <p>Radiator spacer</p> <p>Incl hardware</p>	<p>K3601101AC CENTRE CONSOLE</p>  <p>Gearlever boot</p> <p>Handbrake boot</p> <p>Console upholstered</p> <p>Incl hardware</p>

Components in this assembly		Qty	Part Number
i	Bolt M6 x 60	2	B5358038AA
ii	Nut M6 Nyloc	2	B5358078AA
iii	Washer 6mm x 20	8	B5358080AA
iv	Bolt M6 x 40	2	B5358081AA
v	Radiator assembly	1	M3151059AA
vi	Radiator spacer	4	M3101436AA



Before fitting the radiator, it is necessary to fit the cooling fan and horn group (optional kits from Group 10) and engine installation must be complete.

The brake pipe brackets (supplied in Group 3) are fitted at this stage.

Radiator Fitting Procedure



The front of the chassis has 3 mounting holes on each side. The upper and lower are used for the radiator installation as illustrated below.

1. Place a 6mm x 20 washer onto each of the M6 x 60 bolts and M6 x 40 bolts.

2. Fit the two M6 x 40 bolts with washers attached through the lower bolt holes on the radiator mounting bracket followed by a spacer onto each bolt.



Remove the cardboard covering the radiator.

Mounting holes



3. Offer the radiator up to the front of the chassis and carefully fit the M6 x 40 bolts into the lower bolt hole rivnuts to locate the radiator.

4. Fit the spacers between the radiator mounting bracket and the chassis. Fit the M6 x 60 bolt and washer through the top bolt hole and spacer.

5. Holding a 6mm x 20 washer between the spacer and the chassis feed the top bolts fully through the chassis member.

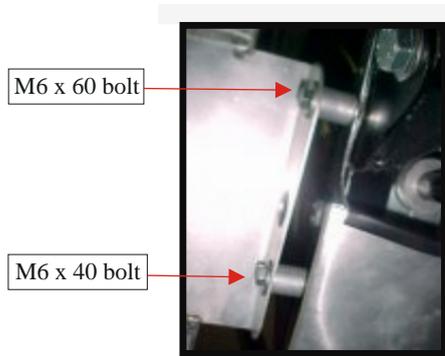


Tighten only sufficient to hold the radiator in place. DO NOT tighten fully.



Radiator Fitting Procedure Cont.

The result of the fitted bolts as illustrated below.



6. Place a brake hose mounting bracket (supplied in Group 3 Upright assembly) onto the thread of the M6 x 60 bolt protruding from the chassis member. Follow with a 6mm washer and Nyloc nut.

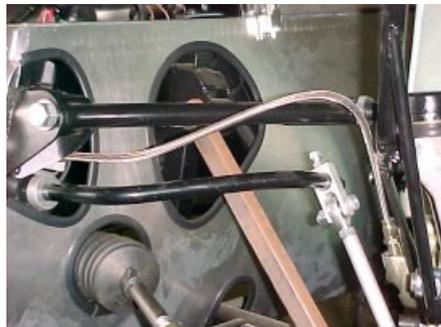


Ensure the brake pipe mounting face of the brackets are nearest to the outside of the chassis as seen in Step 6.

7. Repeat steps 4 - 6 for the right hand top mounting.

Torque all radiator bolts to 10Nm.

8. Feed the flexible brake hoses attached to the brake caliper in between the anti-roll bar and upper wishbone as illustrated below.



9. Place the male end of the brake hose fitting through the brackets then place a 10mm washer followed by a M10 x 1 pitch nut over the thread and fully tighten. This is illustrated in Fig 1 and Fig 2 below.



Hold the nut on the brake pipe to ensure that it does not twist when tightening the securing nut.

Fig 1.

Nut



Fig 2.

Securing nut



10. Align the brake pipes with the male brake pipe fittings ensuring the fit is snug onto the tapered end.



11. Fit the female brake pipe nut onto the male thread and fully tighten to 11Nm.



Hold the nut on the brake pipe to ensure that it does not twist when tightening the female nut.



It is essential that the brake pipe nut is correctly aligned before it is tightened to avoid cross threading.



Components in this assembly		Qty	Part Number
i	Setscrew M06 x 12 S/S A2	4	B5358077AA
ii	Seat Runner	1	M3101037AA
 Seat runners are fitted to the driver's seat only.			

Seat Mounting Procedure



The lever indicates the front of the seat runner.

1. Turn the runners upside down and retract the inner slides to reveal the front rivet nuts.

2. Place the runners in position as illustrated below.



For the Left Hand drive, the levered runner is nearest the centre of the chassis. For the Right Hand drive, the levered runner is nearest the outer wall of the chassis.

3. Ensure the rear mounting bolt holes align with the rear mounting points of the chassis.

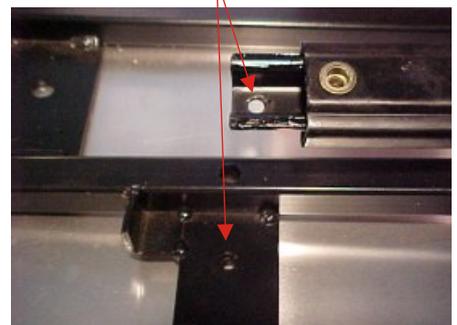
Left Hand Drive



Right Hand Drive



Bolt holes



Seat Mounting Procedure Cont.

4. Fit a M6 x 12 setscrew into each of the rear mounting points until hand tight. DO NOT tighten fully.



5. Using the locking lever, retract the two runners to reveal the front bolts holes and ensure they are aligned with the front chassis mounting points.



6. Fit two M6 x 12 setscrews into the front mounting points until hand tight. Then using a 10mm socket torque to 4.5Nm.



7. Using the locking lever, retract the 2 runners to reveal the rear setscrews. Ensure they are still hand tight and then tighten using a 10mm socket torque to 4.5Nm.

Components in this assembly		Qty	Part Number
i	Rivet As3212	3	B5358095AA
ii	Relay Mounting plate	1	M3201138AA
iii	Screw M5 x 12 C/H	2	B5358031AA
iv	Setscrew M6 x 12 S/S	1	B5358077AA
v	Nut M6 Nyloc	1	B5358078AA
vi	Washer 6mm x 20	6	B5358080AA
vii	Bolt M6 x 20 E/Gal	3	B5358082AA
viii	Nut M5 Nyloc	2	B5358089AA
ix	Washer 6mm flat	2	B5358090AA
x	Washer 5mm x 10 flat	2	B5358094AA
xi	Ignition adaptor 6 spade	1	B5451134AA
xii	Sleeving 4 mm PVC	.03m	B5451315AA
xiii	Sleeving 8mm PVC	0.5mtr	B5451316AA
xiv	Heatshrink 4.8	0.15mtr	B5451322AA
xv	Motor wiper	1	B5451323AA
xvi	Grommet	3	B5451374AA
xvii	Terminal 6.3 Female	5	B5451403AA
xviii	Terminal 6.3 Male	18	B5451424AA
xix	Wire 1mm Blue	0.25mtr	B5451453AA
xx	Wire 1mm Yellow	0.25mtr	B5451454AA
xxi	Wire 1mm Green/White	0.25mtr	B5451461AA
xxii	Wire 1mm Blue/Black	0.25mtr	B5451464AA
xxiii	Connector relay NPNx5	5	B5451650AA
xxiv	Plug female 8 pin (Join main to dashboard loom)	3	B5451736AA

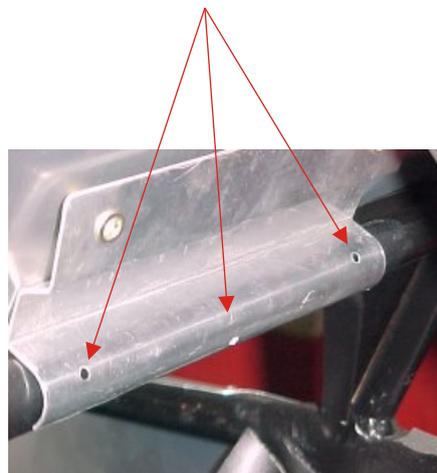
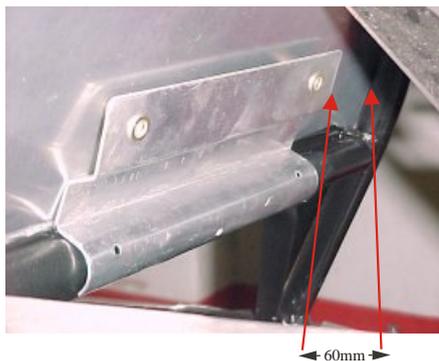
Relay Mounting Plate Fitting Procedure

1. The relay mounting plate needs to be fitted 60mm away from the outer tubing as per illustration below using three rivets 3212.



Position rivets as per illustration below.

2. Fit the connector relay to the relay mounting plate using two screws M5 x 12 and two washers M5 x 10.



Plug Female 8 Pin Fitting Procedure

1. Fit the three 8 pin female plugs onto the fuse box mounting plate as illustrated. These clip into position.

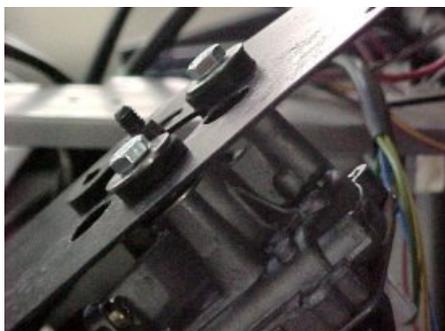


Wiper Motor Fitting Procedure

The wiper motor mounting plate is located above the passenger's legs between the top dash tube and the top frame platform.

The three grommets (xvi) must be installed into the three 10mm holes drilled into the wiper motor mounting plate. Fit three M6 x 20 bolts with three M6 washers as illustrated below.

One washer is fitted either side of the grommet with the bolt from the top into the wiper motor. The wiper motor is positioned with the drive shaft protruding through the hole and the motor parallel to the plate.



Components in this assembly		Qty	Part Number
i	Capscrew M8 x 20	2	B5358016AA
ii	Nut M6 Nyloc	2	B5358078AA
iii	Washer 8mm flat	2	B5358088AA
iv	Washer 6mm flat	5	B5358090AA
v	Nut M8 Nyloc	1	B5358092AA
vi	Setscrew M8 x 20 H/T E/Gal	2	B5358096AA
vii	Washer 8mm spring	2	B5358122AA
viii	Bolt M6 x 45	1	B5358271AA
ix	Capscrew M6 x 30 CSK	1	B5358272AA
x	Rubber bonnet scuttle	.25mtr	B5451232AA
xi	Handbrake cable	1	B5451968AA
xii	Handbrake Balance Bar	1	M3101419AA
xiii	Handbrake lever	1	M3101421AA
xiv	Handbrake cable locator bracket	1	M3251164AA

Procedure 1 - Fitting the Handbrake cable to chassis

1. Peel off the backing from the rubber and stick on the back of the handbrake locating bracket.



Using a knife, cut through the rubber to expose the mounting hole.

2. Remove 'E' clip from the eye end of the handbrake cable, then slide the cable through the handbrake locator bracket. Replace the 'E' clip.

'E' clip



3. Using 2 M8 x 20 setscrews and 2 M8 spring washers, bolt the bracket to the chassis up against the aluminium back panel. There are two threaded bobbins welded on to the chassis members for this purpose.

Threaded bobbins



Torque setscrews to 10Nm.

4. Remove the M10 nut from the threaded end of the handbrake cable.



5. Slide cable through the hole in the aluminium back panel located below the brake and fuel lines.

Then slide cable through the anchor bracket positioned on the chassis member as illustrated below.

Fig 1



6. Replace M10 split nut previously removed.



Adjust the M10 nuts onto anchor bracket to the measurement illustrated in Fig 1.

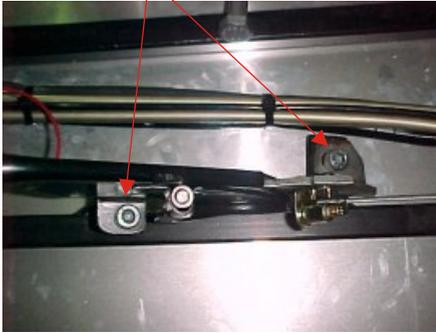
Procedure 2 - Fitting the Handbrake lever to chassis

1. Using two capscrews M8 x 20, one M8 Nyloc nut and two M8 washers, bolt the handbrake lever to the mounting points on the chassis.

2. Remove M6 nut from handbrake cable and slide cable into the lower cable guide..

3. Use one M6 washer and M6 nut to retain the cable in the guide.

Torque capscrews to 10Nm.



Procedure 3 - Fitting the Handbrake lever cable to axle

1. Slide the eye end of the handbrake cable into the slot in the centre of the balance bar. Fit the M6 x 30 countersunk capscrew (vi) through the balance bar and the cable eye. Ensure the head of the capscrew faces the handbrake locating bracket. Place the 6mm flat washer (iv) and M6 Nyloc nut (ii) into position and torque to 4.5Nm.

2. Slide the two axle cables through the slots on either end of the balance bar. Using M6 x 45 bolt (v), four M6 washers and M6 Nyloc nut (ii), anchor the cable eyes to either side of the upper tube welded to the top of the locator bracket. Use one 6mm flat washer (iv) either side of the brake cables.



Ensure that the balance bar is not up against the locator bracket.



Tighten the "A" bolt into the Nyloc and back off to allow the cables to pivot freely on the bolt.

Components in this assembly		Qty	Part Number
i	Nut M5 Nylock	7	B5358089AA
ii	Washer 5mm x 10 flat	7	B5358094AA
iii	Capscrew M5 x 16 domehead	7	B5358221AA
iv	Washer M5x20x1.6mm flat	7	B5358270AA
v	Console upholstered 1814	1	M3351034AB
vi	Handbrake boot	1	M3351051AA
vii	Gearlever shroud 1814	1	M3351052AA



The following must be fitted before the console:

1. Handbrake (5:4) (correctly adjusted)
2. Engine, gearbox and propshaft
3. Carpet set

M5 capscrews and nyloc nuts can be used in place of the As4812 Large flange rivet (i) and the 5mm washer rivet (ii).

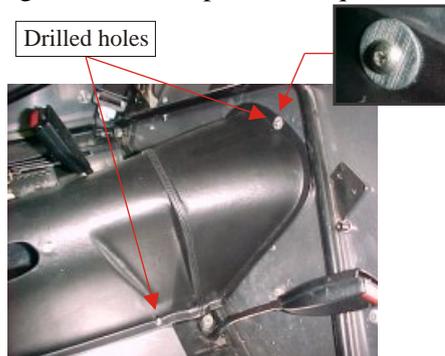
Centre Console Fitting Procedure



The Centre Console can be bolted or riveted in place.

Fitting console with 5mm Capscrews

Drill hole as illustrated below. Using capscrew and M5 x 20 washer fit from underside of floor panel once through console, fit M5 washer and Nyloc nut. At the top of the console fit capscrew and M5 x 20 washer through console and back panel. Then fit 5mm washer and Nyloc nut up against the back panel. Torque to 4.5Nm.



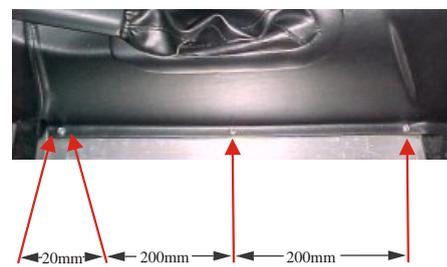
1. Place the console in the centre of the passenger compartment with the two sides on the outside of the two centre floor chassis members.



2. Ensure that the console is all the way back against the back panel and the front edges are on either side of the gearbox panels in the footbox area as illustrated in Fig 1 and Fig 2 below.



3. Drill and secure into place in three places down either side of the centre console and one at the top of the console where it meets the back rest panel. Fit capscrew/rivet from the underside of the floor panel, once through the console, fit M5 washer to capscrew/rivet. Drill holes as illustrated below.



Centre Console Fitting Procedure continue.

4. Run a thin line of silicone (iii) on the console where it meets the floor, back panel and gearbox panels.



5. Fit the handbrake boot (V) by sliding it over the handbrake lever and clipping it into position.



6. Fit the gearlever shroud with the bolts provided with the console.



The following must be in place before the roll cage is fitted:



- Fuel tank	(1:3)	- Console kit	(5:5)	- Rear shock absorber	(10:8)
- Boot liner	(1:6)	- Hand brake	(5:4)	- Seat belt	(10:11)
- Rear suspension	(4:1)	-Fuel sender unit	(10:1)	- Fuel pump and lines	(10:15)
- Rear disc axle	(4:2)				

Components in this assembly		Qty	Part Number
i	Capscrew M8 x 20	4	B5358016AA
ii	Capscrew M8 x 30 CSK	2	B5358021AA
iii	Capscrew M10 x 35 CSK	2	B5358046AA
iv	Washer 8mm flat	4	B5358088AA
v	Nut M10 Nyloc	2	B5358128AA
vi	Roll cage standard	1	M3251022AA
vii	Roll cage spacer	2	M3401009AA

Roll Cage Fitting Procedure

1. Place one roll cage spacer washer (vii) on each of the roll cage mounting platforms as illustrated below.



2. Place the roll cage in position and fit the four M8 x 20 capscrews (i) and 8mm flat washers (iv) into the rear brace mountings protruding through the rear of the boot liner. Do not tighten at this stage.



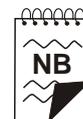
3. Fit two M8 x 30 CSK capscrews (ii) into the rivnuts installed already in the chassis.



4. Lift the front of the roll cage and slide the seat belt top anchor plate between the roll cage and the chassis.



5. Fit the two M10 x 35 CSK capscrews (iii) and the M10 Nyloc nut (v), pull anchor plate firmly forward and secure.



Check that the seatbelts are correctly positioned and not twisted.

6. Torque all fasteners in this operation to 22Nm.

Components in this assembly		Qty	Destination
i	Capscrew M8 x 20	2	B5358016AA
ii	Setscrew M10 x 35	1	B5358120AA
iii	Washer 10mm flat	1	B5358132AA
iv	Washer 8mm flat	2	B5358208AA
v	Lamp E30	1	B5451104AA
vi	Bulb	1	B5451105AA
vii	Terminal 5mm ring	1	B5451363AA
viii	Plug Female 1 pin	1	B5451500AA
ix	Terminal female/angled	2	B5451501AA
x	Spare wheel stud	1	B5451861AA
xi	Spacer 12mm spare wheel bracket	1	M3101387AA
xii	Spare wheel cradle	1	M3251151AA
xiii	Number plate light loom	1	M3501015AA

Spare Wheel Cradle Fitting Procedure

1. Using fishtape or a length of stiff wire, feed the number plate light loom (xiii) through the holes in the spare wheel cradle (xii)



Mounting points as illustrated below.

Mounting points

2. Fit the spare wheel cradle (xii) to the car using two M8 x 20 capscrews (i), two 8mm flat washers (iv), M10 x 35 setscrews (ii), 10mm flat washer (iii) and 12mm spacer



The (xi) spacer is fitted between the cradle and aluminium panel.

The two M8 x 20 capscrews (i) will bolt into the rivnuts placed in the lower tube of the frame.

4. Remove the lens from the E30 lamp (v) and fit the lamp to the cradle.

5. Crimp the terminal 5mm ring (vii) to the earth wire and fit to the lamp mounting stud and secure with the nut.



Spare Wheel Cradle Fitting Procedure Continue.

6. Fit the two female/angled terminals (ix) to both wires in the lamp and slide on to the adapters.

Fit the bulb and replace the lense.



7. Remove female plug from the free end of the loom exposing the male terminal, feed the loom between the fuel tank and chassis member towards the right hand mudguard.

8. Refit female 1 pin plug (viii), connect under the R/H mudguard to the blue wire in the tail light loom.

5:8

CARBON FIBRE SWITCH PANEL / CONSOLE SWITCHES - K3601278AA

Components in this assembly		Qty	Part Number
i	Blanking plug	2	850
ii	Washer 3mm rivet	2	B5358093AA
iii	Rivet 3208 AS	2	B5358116AA
iv	Washer copper 7/16"	1	B5358171AA
v	Switch button	1	B5451115AA
vi	Switch blower	1	B5451196AA
vii	Switch heater knob	1	B5451197AA
viii	Switch heater nut	1	B5451198AA
ix	Choke cable	1	B5451200AA
x	Switch panel - carbon fibre	1	M3301071AA
xi	Console wiring loom	1	M3501034AA

Carbon Fibre Switch Panel Fitting Procedure

1. Fit buttons, switches and cables to switch panel.

2. Connect console wiring loom (ix)

3. Place switch panel (xiii) on the top front of the console and secure with two 3208 AS rivets (ii) and two 3mm rivet washers (i).

4. At the point of contact between the bottom edge of the panel and console, run a thin bead of silicone from the inside of the console.

