



# **TSD 5000 Workshop Manual & Service Information Supplement**

## **Rolls-Royce Motor Cars**

**Applicable to Rolls-Royce  
Corniche S**

**Motor cars built from vehicle  
identification number (VIN)  
\*SCAZC03C7SCX50086\***

**TSD 5602**

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## Introduction

This supplementary manual is written specifically for skilled service personnel who should use the information in conjunction with Workshop Manual TSD 5000. When using this supplement it is assumed that the workshop safety and repair procedures generally accepted by the motor trade are appreciated, understood, and carried out.

Service personnel at Rolls-Royce Motor Cars Limited are always prepared to answer queries or give advice on individual servicing problems. When making an enquiry it is essential that the full vehicle identification number (VIN) is quoted.

This document is applicable to the Rolls-Royce Corniche S from vehicle identification number \*SCAZC03C7SCX50086\*.



## Communications

All communication should be addressed to one of the following depending upon the car's domicile.

**Registered Office, Factory, and Service Centre**

Crewe Cheshire CW1 3PL England  
Telephone: 0270 255155 Administration  
Telephone: 0270 535000 Service reception  
Fax: 0270 586548

**European Operations**

Crewe Cheshire CW1 3PL England  
Telephone: 0270 255155 Administration  
Fax: 0270 586548

**Rolls-Royce Motor Cars International SA**

Au Glapin 1162 St-Prex  
Switzerland  
Telephone: 021 806 2731  
Telex: 454218  
Fax: 021 806 2729

**Rolls-Royce Motor Cars Inc.**

PO Box 476 Lyndhurst  
New Jersey 07071 USA  
Telephone: 201 460 9600  
Fax: 201 460 9392



# General information and Parts list

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# Rolls-Royce Corniche S

## Introduction

This information covers the removal and fitting procedures for the special features fitted to Rolls-Royce Corniche S Motor Cars.

This information should be read in conjunction with the standard Rolls-Royce Corniche IV, and

Bentley Turbo R procedures in TSD 5000 Workshop Manual, TSD 5506 Man Hour Schedules Manual, and TSD 5504 illustrated Parts List.

It should be noted that the number of special features fitted to these particular cars may vary depending on the specification.

## General information

Lubrication system	Transmission oil cooler mounted below the coolant radiator
Turbocharging system	Garrett AiResearch TO4B exhaust driven turbocharger. Boost pressure limited by a 'wastegate' in the exhaust system. Behr intercooler; lowers compressed air temperature
<b>Final drive unit and drive-shafts</b>	
Crown wheel teeth	41
Bevel pinion teeth	18
Final drive unit ratio	2.28:1
Top gear speed per 1000 rev/min	76,35 km/h (47.45 mile/h)
Overall gear ratios – Forward	5.65:1 3.37:1 2.28:1 1.71:1
Reverse	4.74:1
Final drive unit	Hypoid bevel
<b>Wheels</b>	
Size	7½ J x 15
Type	Aluminium alloy
Tyres	255/65 R15 steel braced radial ply

## Workshop safety

In addition to carrying out the usual workshop safety precautions, note the following.

Never work beneath the car if it is only supported on a jack. Always ensure that car stands or blocks are used as a safety precaution.

If it is necessary to raise and support the complete car, reference **must be** made to the information given in Workshop Manual TSD 5000, Chapter A.

## Specification

The following changes have been made to Corniche S motor cars in addition to the fitting of the turbocharged engine, transmission, and running gear, etc.

Front sub-frame engine stabilus dampers fitted.  
Panherd rod to rear sub-frame.

Engine oil cooler relocated under lower left-hand front wing.

Additional transmission oil cooler mounted beneath coolant radiator.

Intercooler mounted under right-hand front wing.

Turbo R type lower steering coupling fitted.

Turbo R type spare wheel carrier utilized.

Air horns resited under front left-hand wheel-arch.

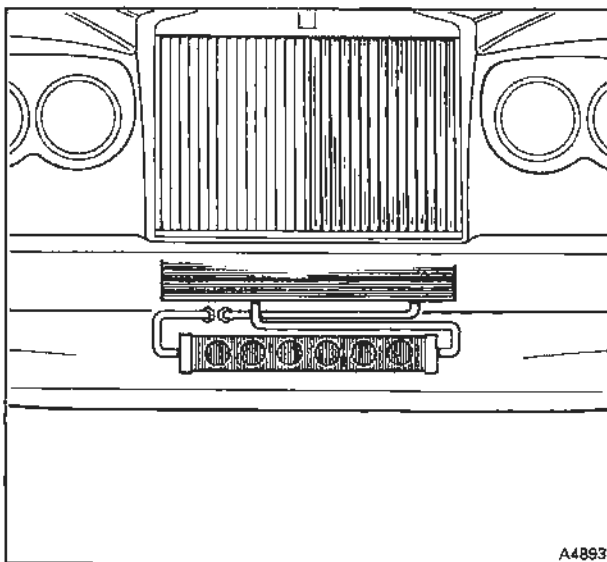
Transient boost wiring loom relocated under left-hand wheel-arch.

Unique right-hand bonnet hinge with gas damper strut.

All red badging to exterior.

Continental R type centre box armrest between front seats, with smaller CD autochanger.

Rear quarter ashtray, cigar lighter, and veneer panel deleted and rear light switch relocated in the



**Fig. 1 Transmission oil cooler**

trim panel. Ashtray and cigar lighter for rear seat passengers mounted in rear face of centre console between front seats.

Stainless steel treadplates fitted to sills.

Rolls-Royce logo in door waistrails.

Limited edition plaque in centre console woodwork.

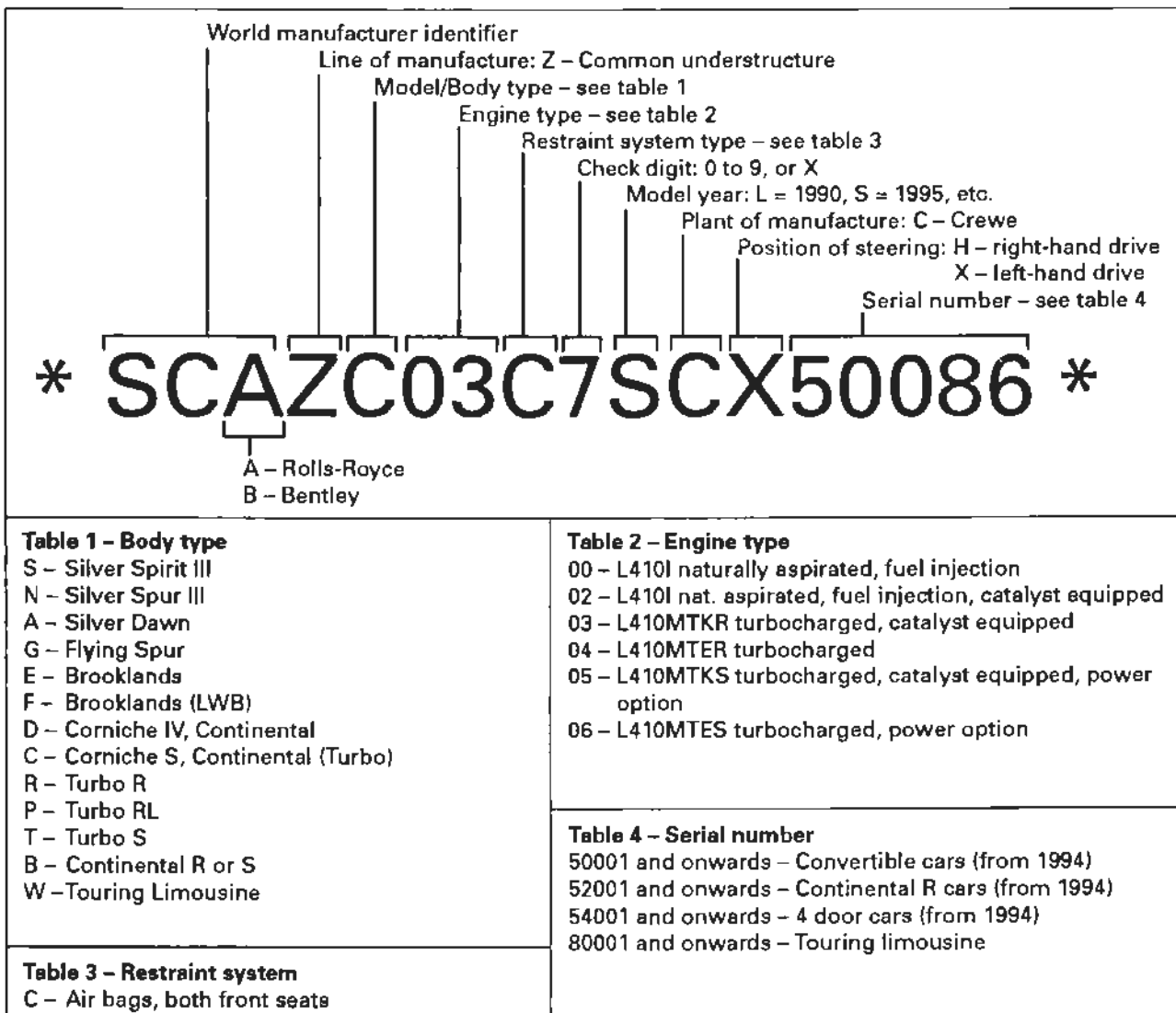
A Golf and a Ladies umbrella fitted to luggage compartment lid.

Colour keyed grilles, speakers, demister duct, top roll, and seat belt caps (BC posts).

### Transmission

**Additional transmission oil cooler – To remove and fit**

1. Drive the car on to a ramp.
2. Select park position with the gear range selector lever. Switch off the ignition and remove the gearchange isolating fuse from the fuseboard.
3. Remove the coolant radiator (refer to Chapter L).



**Fig. 2 Vehicle identification number**

4. Disconnect the pipe connections from either side of the oil cooler.

**Note** Ensure that the cooler union is always supported with a second spanner when either slackening or tightening the pipe nuts.

Ensure that a suitable container is available to collect any oil which may run out. Blank the open ports and pipes.

5. On cars with the following vehicle identification numbers (VIN), drill out the pop rivets which secure the upper positions on the cooler mounting brackets.

\*SCAZC03C7SCX50086\*

\*SCAZC03C6SCX50094\*

\*SCAZC03C8SCX50095\*

\*SCAZC03CXSCX50096\*

6. Remove the self-tapping screws from the lower mounting positions of the oil cooler brackets.

**Note** On cars from the VIN numbers mentioned in Operation 5, all oil coolers are secured by self-tapping screws.

7. Lower the oil cooler from the car.

8. To fit the oil cooler, reverse the removal procedure noting the following.

9. Check the condition of the rubber isolation strips between the mounting brackets and body. Renew if necessary.

10. On completion, check the oil level in the transmission and top-up if necessary.

## Suspension

### Automatic ride control

An electronically controlled automatic ride control system is incorporated in the suspension system of the Rolls-Royce Corniche S.

The system operates by changing the damping rates of the front suspension dampers and the rear suspension struts. Three ride modes are available, comfort, normal, and firm, the correct setting being selected by an electronic control module.

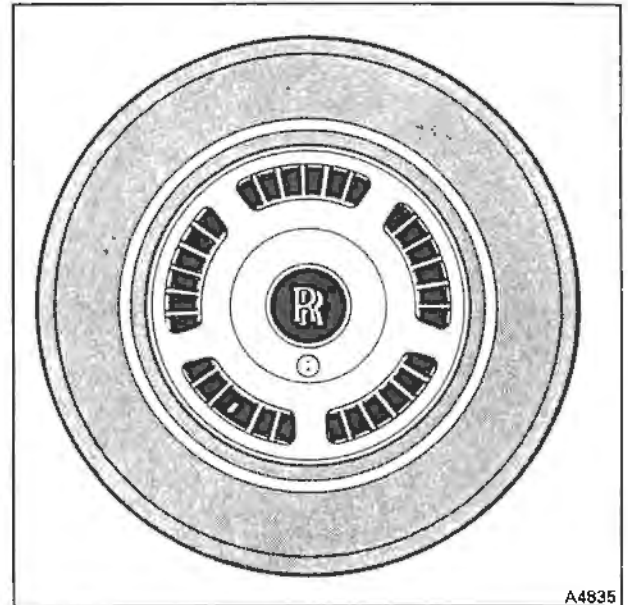


Fig. 3 Wheel/tyre assembly

The control module (CM) is identical to that fitted to Rolls-Royce Corniche IV motor cars. The part number for the CM is situated above the diagnostic socket cover.

## Wheels and tyres

### Recommended tyres and tyre pressures

This section refers to the recommended tyres and tyre pressures for the Rolls-Royce Corniche S.

Removal, balancing, and fitting procedures of wheel and tyre assemblies, are described in Workshop Manual TSD 5000, Chapter R.

Rolls-Royce Corniche S motor cars are fitted with 7½ J x 15 aluminium alloy wheels.

Tyre manufacturer /Construction	Size	Load/Speed rating	Sidewall markings	Loading conditions	Tyre pressures
Avon/Radial ply steel	255/65 R15	106V	Avon Turbospeed CR27 255/65 R15 106V	Up to two occupants and 22 kg (50 lb) of luggage	Speeds up to 180 km/h (110 mile/h) Front 1,80 bar (180 kPa, 26 lbf/in <sup>2</sup> ) Rear 2,10 bar (210 kPa, 30 lbf/in <sup>2</sup> ) Sustained speeds in excess of 180 km/h (110 mile/h) Front 2,10 bar (210 kPa, 30 lbf/in <sup>2</sup> ) Rear 2,50 bar (250 kPa, 36 lbf/in <sup>2</sup> )
				Up to maximum vehicle capacity weight	Speeds up to 180 km/h (110 mile/h) Front 2,10 bar (210 kPa, 30 lbf/in <sup>2</sup> ) Rear 2,50 bar (250 kPa, 36 lbf/in <sup>2</sup> ) Sustained speeds in excess of 180 km/h (110 mile/h) Front 2,20 bar (220 kPa, 32 lbf/in <sup>2</sup> ) Rear 3,00 bar (300 kPa, 44 lbf/in <sup>2</sup> )



To ensure the designed handling characteristics of the car are achieved, it is important to maintain the differential in tyre pressure between the front and rear wheels.

When checking tyre pressures ensure that the tyres are cold.

After checking the tyre pressures, ensure that the valve caps are fitted. The valve caps protect the valve from the ingress of water and provide a secondary air seal. Always ensure that a valve cap of the same metal as the valve stem is fitted. The fitting of a different metal cap will result in corrosion and prevent subsequent cap removal.

## Man hour schedules

### Introduction

The following information is intended to supplement that contained within TSD 5506 Man Hour Schedule Manual in order to assist dealer personnel in obtaining repair times and for claiming warranty against Corniche S motor cars.

The majority of MHS codes are as 1994 model

year Corniche IV and this should be used as the starting point for obtaining a code. Where differences exist between the MHS codes for Corniche S and Corniche IV they are listed in the following table.

### MHS codes

Code	Description	Repair	Time
09 . 01 . 35 . 00	Timing Cover	R	9.2
09 . 01 . 37 . 00	Gasket – Timing Cover	R	9.2
09 . 01 . 39 . 00	Lip Seal Front Crankshaft	R	9.5
09 . 05 . 01 . 00	Cylinder Head	R	15.0
09 . 05 . 02 . 00	Cylinder Head Gasket	R	15.4
09 . 13 . 16 . 00	Flexplate/Flywheel	R	6.9
09 . 20 . 01 . 00	Turbocharger	R	4.9
09 . 20 . 16 . 00	Adapter for Dump Valve Signal Pipe	R,T	S/T
09 . 26 . 03 . 00	Oil Filter Pedestal	R	9.0
09 . 31 . 01 . 00	Turbocharger Heatshield	A	S/T
09 . 31 . 01 . 00	Turbocharger Heatshield	R	0.5
09 . 31 . 03 . 00	Bolt	R,T	S/T
09 . 31 . 05 . 00	Turbocharger Oil Return Heatshield	A,R	S/T
09 . 33 . 01 . 00	Oil Cooler	R	S/T
09 . 35 . 01 . 00	Flexible Mount	R	S/T
09 . 35 . 05 . 00	Pipe Oil Filter to Oil Cooler Feed Hose	R,T	S/T
09 . 35 . 17 . 00	Oil Feed Pipe – Crankcase to Turbocharger	A,V	S/T
09 . 35 . 18 . 00	Gasket	R,V	S/T
09 . 35 . 19 . 00	Retaining Bolt	R,T	S/T
09 . 35 . 21 . 00	Oil Drain Pipe – Turbocharger to Crankcase	R	S/T
09 . 35 . 22 . 00	Gasket	R	S/T
09 . 35 . 23 . 00	Retaining Bolt	R,T	S/T
15 . 05 . 04 . 00	Valve (Accumulator Sphere)	R	1.5
31 . 54 . 01 . 00	Hose – Turbocharger to Boost Feed Pipe	R	S/T
31 . 54 . 02 . 00	Clip	R,T	S/T
31 . 54 . 05 . 00	Boost Feed Pipe	R	S/T
31 . 54 . 07 . 00	'O' Ring	R	S/T
31 . 54 . 09 . 00	Bolt	R,T	S/T
31 . 54 . 12 . 00	Dump Pipe	R	S/T
31 . 54 . 14 . 00	'O' Ring	R	S/T
31 . 54 . 15 . 00	Bolt	R,T	S/T
31 . 54 . 21 . 00	Hose	R	S/T
31 . 54 . 22 . 00	Clip	R,T	S/T
31 . 56 . 45 . 00	Vacuum Hose Dump Valve Solenoid	R	S/T
31 . 56 . 65 . 00	Banjo Connector – Transient Boost	R,T	S/T

**MHS codes (continued)**

Code	Description	Repair	Time
31 . 56 . 68 . 00	Transient Boost Pipe	R	S/T
31 . 56 . 71 . 00	Clip	R,T	S/T
31 . 56 . 73 . 00	Hose – Pipe to Transient Boost Solenoid	R	S/T
31 . 56 . 76 . 00	Hose – Transient Boost Solenoid to T-Piece	R	S/T
31 . 56 . 78 . 00	T-Piece	R	S/T
31 . 56 . 80 . 00	Hose T-Piece to Turbo	R	S/T
31 . 56 . 83 . 00	Hose – Boost Solenoid to T-Piece	R	S/T
31 . 57 . 01 . 00	Intercooler	R	S/T
31 . 57 . 02 . 00	Intake Hose	R	S/T
31 . 57 . 03 . 00	Clip	R,T	S/T
31 . 57 . 04 . 00	Mountings	A,R,T	S/T
31 . 57 . 05 . 00	Outlet Hose	R	S/T
31 . 57 . 06 . 00	Clip	R,T	S/T
31 . 57 . 07 . 00	Retainer	R,T	S/T
34 . 06 . 01 . 00	Volute Casing	R	6.7
34 . 06 . 02 . 00	Gasket	R	6.7
34 . 06 . 03 . 00	Seal Strip	R	6.7
37 . 06 . 01 . 00	Starter	R	3.0
37 . 10 . 01 . 00	Fuel Pump	R	0.7
37 . 11 . 22 . 00	Boost Control ECU	R	S/T
37 . 11 . 24 . 00	Boost Control Solenoid	R	S/T
37 . 11 . 27 . 00	Dump Valve	R	0.5
37 . 11 . 29 . 00	Dump Valve Solenoid	R	0.3
37 . 11 . 30 . 00	Transient Boost ECU	R	S/T
37 . 11 . 32 . 00	Transient Engine Loom	R	S/T
37 . 11 . 34 . 00	Transient Boost Solenoid	R	S/T
43 . 02 . 00 . 00	Waste Gate	R	1.8
43 . 02 . 00 . 00	Waste Gate	U	3.4
43 . 02 . 06 . 00	Sealing Ring	R	S/T
43 . 02 . 07 . 00	Nut	T	S/T
43 . 03 . 02 . 00	Downtake	A	1.0
43 . 03 . 02 . 00	Downtake	R	3.2
43 . 03 . 02 . 00	Downtake	V	0.5
52 . 23 . 46 . 00	Wheel trim	A,P,R	N/A
52 . 23 . 46 . 01	Painted Ring	R,U	N/A
52 . 23 . 46 . 02	Clip	R	N/A
52 . 23 . 46 . 08	Lock Cover	R	S/T
52 . 23 . 46 . 15	Wheel Trim Retaining Bolt	R,T	N/A
52 . 23 . 47 . 00	Rim Embellisher	R,U	N/A
52 . 23 . 47 . 01	Retaining Block	R,U	N/A
55 . 03 . 00 . 00	Transmission	K	14.0
55 . 03 . 00 . 00	Transmission	R	6.0

**MHS codes (continued)**

<b>Code</b>	<b>Description</b>	<b>Repair</b>	<b>Time</b>
55 . 03 . 41 . 00	Torque Converter	R,U	6.3
55 . 03 . 46 . 00	Front Pump	R	6.8
55 . 03 . 47 . 00	'O' Ring Front Pump	R	6.8
55 . 03 . 50 . 00	Lip Seal	R	7.0
55 . 07 . 13 . 00	Pipe – Oil Cooler Feed	R	2.0
55 . 07 . 14 . 00	Pipe – Oil Cooler Return	R	2.0

## Parts list

### Introduction

The following information is intended to supplement that contained within the illustrated parts list TSD 5504 in order to assist dealer personnel in obtaining parts for Corniche S motor cars.

When using the parts list in relation to Corniche S motor cars it should be remembered that

Engine/transmission parts will be found under the 1994 Bentley Turbo R listings.

The following table indicates those parts which differ from Rolls-Royce Corniche IV. All other parts are to be found in TSD 5504 as listed under 1994 model year Corniche IV.

Part number	Description	Quantity
PD 10212 A3	Assy. Final Drive	1
PW 82270	S/Steel Section Wheel Arch Bulkhead	1
UA 152Z	Setscrew	1
UA 266Z	Setscrew	2
UA 302Z	Nut, Plain	1
UA 304Z	Nut, Plain	2
UA 1252Z	Washer, Plain	2
UA 1254Z	Washer, Plain	4
UA 6102ZP	Washer	6
UB 14894	Glove Fastener	1
UB 14895	Glove Fastener	1
UB 14896	Glove Fastener	1
UB 14897	Glove Fastener	1
UB 32872	Outlet Grille Demister Duct	1
UB 43377	Cover, Escutcheon	1
UB 43553	Pivot Link	1
UB 43565	Gasket, Front Ashtray	2
UB 43896	Assy. Screw - Spare Wheel Carrier	1
UB 43972	Assy. Vanes (Cars without Mascot Alarm)	1
UB 83670	End Panel Through Console	1
UB 84490	Assy. Vanes (Cars with Mascot Alarm)	1
UB 84887	Adhesive Pad	2
UB 85507	B.I.W. Rolls-Royce	1
UB 87470	Assy. Ashtray - Console	2
UB 88460	Cover, Running Loop - Front Seat Belt	1
UB 91047	Treadplate	1
UB 91079	Nameplate, Rolls-Royce - Red	1
UB 91080	Corniche S Body Mod. Kit	1
UB 91081	Nameplate, Corniche S - 'A' Post	1
UB 91082	Medallion Rolls-Royce - Red	2
UB 91083	Boot Badge	1
UB 91084	Golf Umbrella - Rolls-Royce	1
UB 91085	Ladies Umbrella - Rolls-Royce	1
UB 91086	Assy. Treadplate	2
UB 91087	Badge, Treadplate	2
UB 91088	Assy. Trimmed Cover - Running Loop	2

Part number	Description	Quantity
UB 91089	Trim Panel, Skived	1
UB 91091	Assy. Complete Through Console	1
UB 91096	Assy. Centre Armrest	1
UB 91100	Assy. Complete – Rear Quarter – Right-hand	1
UB 91101	Assy. Complete – Rear Quarter – Left-hand	1
UB 91102	Cover, Armrest – Rear Quarter – Right-hand	1
UB 91103	Cover, Armrest – Rear Quarter – Left-hand	1
UB 91104	Cover, Hide Top Panel – Right-hand	1
UB 91105	Cover, Hide Top Panel – Left-hand	1
UB 91106	Cover, Hide Side Panel – Right-hand	1
UB 91107	Cover, Hide Side Panel – Left-hand	1
UB 91108	Assy. Side Armrest – Right-hand	1
UB 91109	Assy. Side Armrest – Left-hand	1
UB 91110	Lower Shelf Armrest – Right-hand	1
UB 91111	Lower Shelf Armrest – Left-hand	1
UB 91112	Quarter Trim, Ply. Right-hand	1
UB 91113	Quarter Trim, Ply. Left-hand	1
UB 91126	Mounting Bracket – Right-hand Side	1
UB 91127	Mounting Bracket – Left-hand Side	1
UB 91128	Assy. Radiator Shell and Vanes (Without Mascot Alarm)	1
UB 91129	Assy. Radiator Shell	1
UB 91130	Badge, Rolls-Royce – Red	1
UB 91131	Assy. Radiator Shell and Vanes (With Mascot Alarm)	1
UB 91132	Label, Tyre Selection	1
UB 91144	Outlet Grille – Painted	2
UB 91145	Assy. Umbrella Strap – Handle	2
UB 91146	Sewn Strap	1
UB 91147	Strap, Fixing Plate	2
UB 91148	Strap, Fixing Plate	2
UB 91149	Assy. Umbrella Strap – Loop	1
UB 91155	Oil Pipe Mounting Bracket – Engine Oil Cooler	1
UB 91161	Wheel Arch – Front Left-hand Side – Finished	1
UB 91162	Wheel Arch – Front Right-hand Side – Finished	1
UB 91163	Wheel Arch – Rear Left-hand Side – Finished	1
UB 91164	Wheel Arch – Rear Right-hand Side – Finished	1
UB 91165	Assy. Hinge Right-hand	1
UD 11739	Stud Anchor, Escutcheon	2
UD 14426	Eyelet	1
UD 23221	Knob & Plug Cigar Lighter	2
UD 23296	Housing – Inline Blade (Posilok)	3
UD 26694	4 Way Keeper Bar	1
UD 70032	4 Way TTS Plug	1
UD 70897	Assy. Boost Control Loom	1

Part number	Description	Quantity
UD 71749	Posilok Blade	3
UD 72430	Label, Control Module	1
UD 73216	Moulding, Grille Top Roll	1
UD 73355	DIN To DIN Extension Lead – 2 Metres	1
UD 73760	Escutcheon	1
UD 74232	Transducer Loom	1
UD 74524	Assy. Grille & Thermistor	1
UD 75112	Control Module – Transient Boost (TCT)	1
UD 75653	Control Module Transmission (TCM)	1
UD 75654	Label, Control Module	1
UD 75811	CD Changer – Alpine 5960	1
UD 75812	Assy. Grille & Thermistor – Painted	1
UD 75813	Moulding, Grille Top Roll – Painted	1
UD 75814	Assy. Cable – Interior Lights	1
UD 75815	Assy. Switch – Interior Lights	1
UD 75816	Assy. Loom Right-hand Valance – Mod.	1
UE 6398	Grommet	1
UE 71306	Bracket	1
UE 74400	Hose – Evaporative Loss Canister Engine	1
UE 74560	Hose, Intercooler To Air Intake	1
UE 74909	Silencer & Pipes Inter SWB Turbo	1
UE 74912	Silencer & Pipes Rear Turbo	1
UE 75086	Intercooler	1
UE 75471	Hose, Feed Turbo Comp.	1
UE 75240	Control Module – Boost Control (TCB)	1
UE 75622	Badge, Turbo – Engine Cover	1
UE 75700	NRA – Pressure Transducer	1
UE 79092/259	Hose, Air Meter To Turbo	1
UE 79128	Label, V.E.C.I.	1
UE 79276	Label, Fuel Economy	1
UE 79285	Hose – Evaporative Loss Canister	1
UE 79286	Mod. Intercooler	1
UE 79287	Mounting Bracket – Intercooler	1
UE 79289	Assy. Canister – Evaporative Loss	1
UE 79291	Mounting, Rubber	2
UE 79292	Assy. Pipe – Engine To Engine Cooler	1
UE 79293	Assy. Pipe – Engine To Engine Cooler	1
UE 79294	Assy. Pipe – Radiator To Engine Cooler	1
UE 79295	Assy. Pipe – Transmission To Engine Cooler	1
UM 20206Z	Washer	2
UM 20221Z	Washer	6
UM 20706Z	Hexagon Screw M5	2
UM 20894Z	Screw M3 X 12	2

Part number	Description	Quantity
UM 20975Z	Hexagon Nut 4mm	6
UM 20976Z	Hexagon Nut 5mm Diameter	2
UM 21465Z	Setscrew	2
UM 21557ZP	Hexagon Nut 6mm Diameter	6
UR 10436	Bolt	2
UR 20316	Pipe Sill	1
UR 27359	Link Bolt	1
UR 27358	Link Bolt	1
UR 27370	Assy. Mounting Bracket	1
UR 70070	Mounting Bracket	1
UR 70075	Panhard Rod & Bush	1
UR 70816	Pipe	1
UR 70827	Assy. Lower Joints	1
UR 71629	Assy. Tube & Bracket – Spare Wheel Carrier	1
UR 71752	Wheel 7.5 X 15	1
UR 72428	Assy. Wheel & Tyre	5
UR 73238	Heatshield – Damper Front Sub-frame	1
UR 73386	Assy. Wheel & Tyre (White Wall Tyre)	5
UR 73390	Assy. Hub Cap & Lock	4
UR 73504	Assy. Wheel & Tyre – Chrome (Black Wall Tyre)	5
UR 73506	Wheel – Chrome	5
UR 73507	Assy. Wheel & Tyre – Chrome (White Wall Tyre)	5
UR 73509	Mod. Pipe Sill	1
UR 73516	Assy. Hub Cap – Black Badge	1
UR 73516U	Assy. Hub Cap – Unpainted	1
UR 73526	Assy. Hub Cap – Chrome	4
UR 73527	Transmission Oil Cooler	1
SPC 2664	Screw	2
SPM 1616	Starlock Washer	2
SPM 1617	Mounting, Metallastic	1
SPM 1936	Washer	4
SPM 1951	Hose, Clip – Norma Torro	1
SPM 1952	Torro Clip	1
SPM 1953	Hose, Clip – Norma Torro	1
SPM 1954	Torro Clip	1
SPM 2100	Mounting, Metallastic	2
SPM 2332	Spacer Stud, Control Module – Transient Boost	3
SPP 52129	Rubber Pad, Treadplate	8
XB 13882R	Rivet	8