



TF053: TERRAFIRMA SPARE WHEEL CARRIER

DISCOVERY 3 & 4

FITTING INSTRUCTIONS

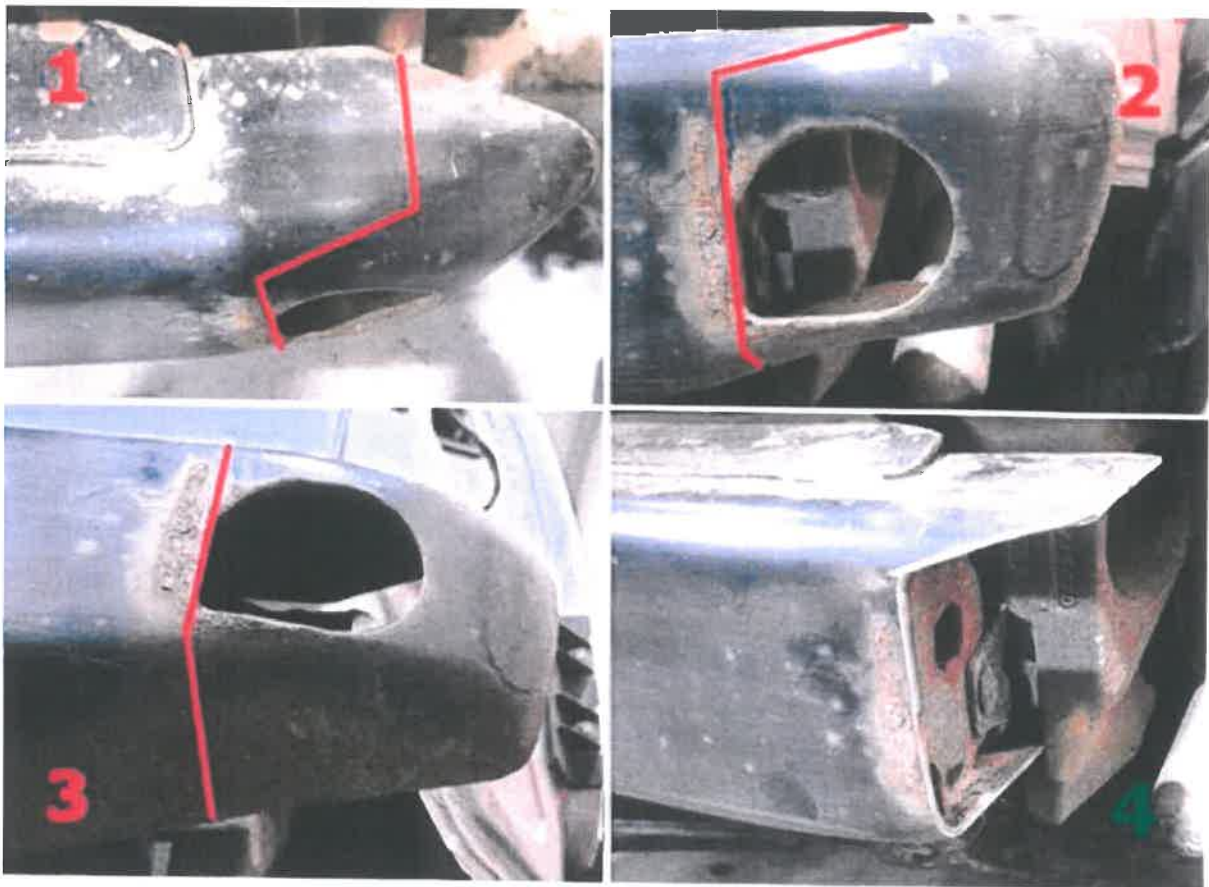
Kit contents

- Wheel mount
- Swing Arm.
- Chassis bracket.
- Latch Pack.
- Chassis bracket fitting pack
- Damper bracket
- Gas strut.
- Cover plates with double sided sheet.
- Cutting Templates

Instructions

Remove bumper as per normal Land Rover removal instructions.

- Mark rear bumper support bar at right side (looking at rear bumper) as per red lines in images 1-3 below.



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- Cut carefully with an angle grinder ensuring you protect glass and body work against sparks.
- Once cut dress the cut edges (image 4) and protect with an anti-corrosion paint/spray.
- Position the Chassis Bracket as below, ensure welded bracket A is not fouling the chassis bracket. You may need to use a dead blow hammer (or hammer and block of wood) to get the unit to locate fully as it is intentionally a tight fit.



- Drill and bolt holes 1 using captive nut plates as supplied. Once holes A are fully tightened then drill and bolt the rest starting at the top. Holes underneath also have a captive plate.



Please note that on final assembly, the pivot mount highlighted by the red arrow above requires lubrication to ensure ease of movement, preferably with a copper-based lube.

Bumper cutting:

Using Template: TF053 REAR BUMPER TEMPLATE.

Cut out the template, align using the parking sensor aperture and bumper swage line and stick in place with tape. Then carefully mark holes A & B.

Hole A is best cut out by drilling a series of holes to create a hole large enough for a hacksaw blade. Slight variance of hole size is normal and is easily covered with the cover plates supplied. Centre punch Hole B and drill using a smaller drill first then finally a 10mm hole. File holes to dress edges.

Using Template: TF053 Pivot Template.

Mark hole centre and either use a 52mm hole saw or drill a string of holes around the diameter and finally file the hole smooth, then dress.

- Refit Bumper, stick Latch Striker Cover Plate in position using double sided tape supplied.
- Insert Ball Joints from Gas strut, one on to the strut bracket and secure with M8 nut. And other with a washer and thread lock into the M8 tapped hole in the bottom of the Swing Arm

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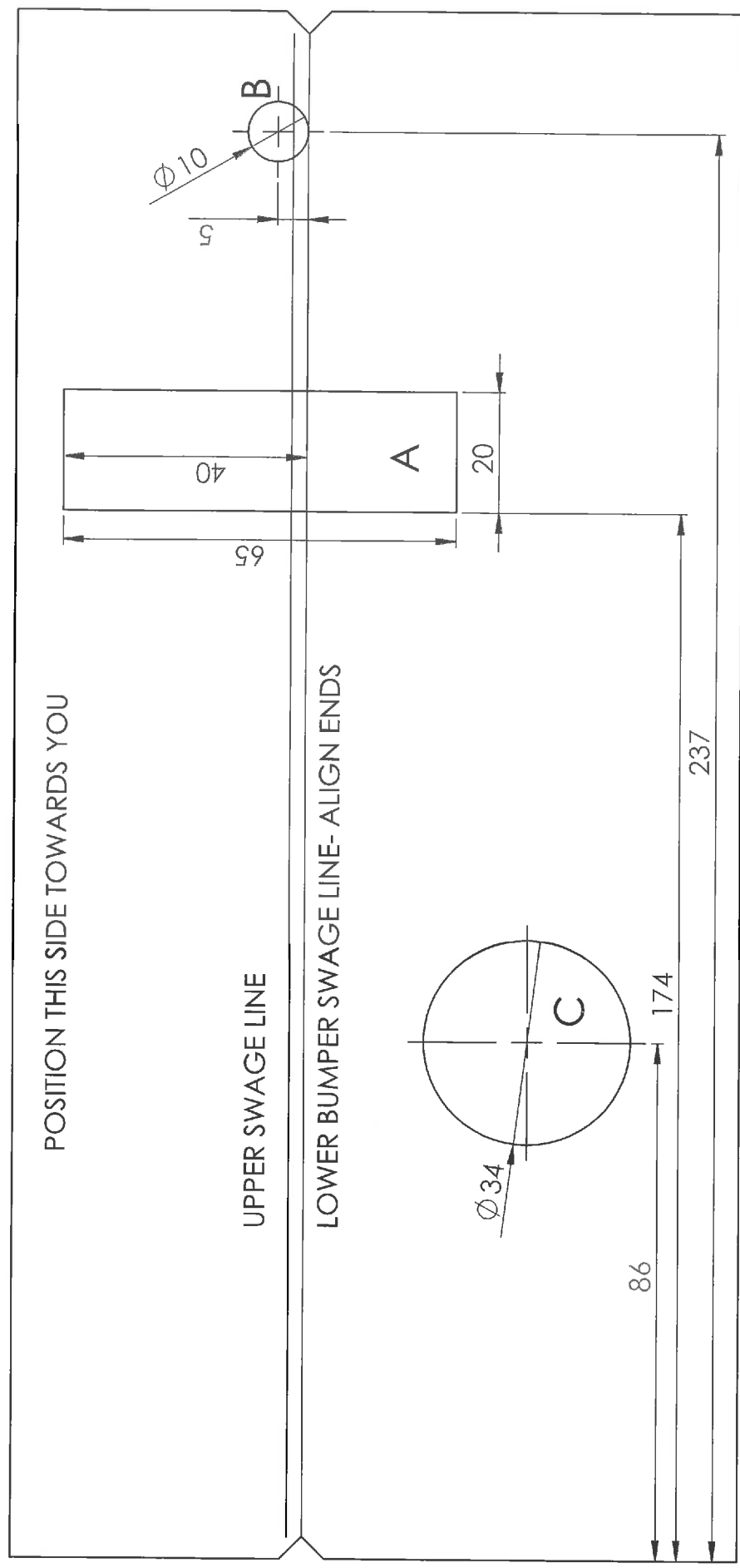
- Bolt on Strut bracket to left hand side of latch striker using M6 bolts supplied pushing bracket as far forward towards bumper as possible. Attach gas strut to ball joint on bracket and insert securing pin.
- Apply Double side tape to underneath of Pivot Hole Cover Plate, position loosely on hole without removing tape.
- Assemble Latch Assembly as per drawing. Bolts that pass through the main latch bracket can be tightened, whilst bolts passing through the C shaped moving parts need to be slightly loose to allow pivot, but not enough to rattle.
- Apply adhesive to back of pivot cover plate but do not remove the adhesive tape which is to be applied to bumper. Position plate over hole and pass swing arm through this into bushed pivot. Then ensuring an even gap remove the backing on the adhesive tape and stick down cover plate to bumper.
- From underneath the bumper, insert a M10x30 bolt and washer through the large pivot securing disc, apply thread lock to threads and tighten into the hole in the bottom of the pivot shaft. Tighten sufficiently to allow the pivot to pivot freely. This is mainly so the unit cannot be lifted off easily.
- Bolt Wheel mount to top female sliding receiver using supplied nuts (standard LR Style only supplied) if you have aftermarket wheels the nuts may differ.
- Attach gas strut to ball joint and insert retaining clip.
- **GASSTRUT**
Test closing and opening pressure- gas strut is adjustable in pressure via an Allen key on the side of the unit, HOWEVER you cannot put the gas back in so let a small amount out at a time until you have the pressure you require. The gas strut is there to help keep the wheel out of the way of the tailgate if parked on an incline. **BEWARE! HIGH PRESSURE THE UNIT CAN BE DAMAGED BY OVER PRESSURE**
- Screw rubber bump stop into drilled 10mm hole and tighten. If you find difficulty in closing the latch you can shave rubber off this stop to make it easier.
- Once the wheel is mounted the latch will close easier than without a wheel. The bracket is stainless steel and hence when the powder coating rubs off due to contact it won't rust and look unsightly. The assembly may be tight to start with but will free off once used.



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1 2 3 4 5 6



POSITION THIS SIDE TOWARDS YOU

UPPER SWAGE LINE

LOWER BUMPER SWAGE LINE- ALIGN ENDS

ALIGN SIDE WITH COVER PLATE APERTURE

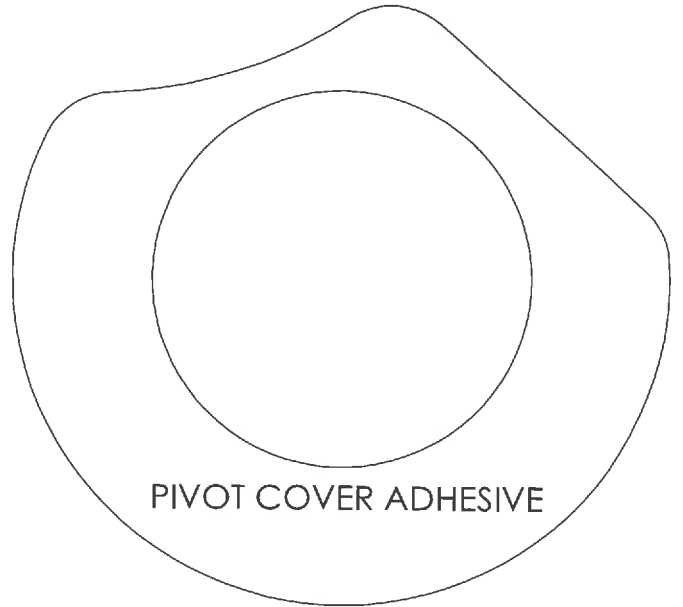
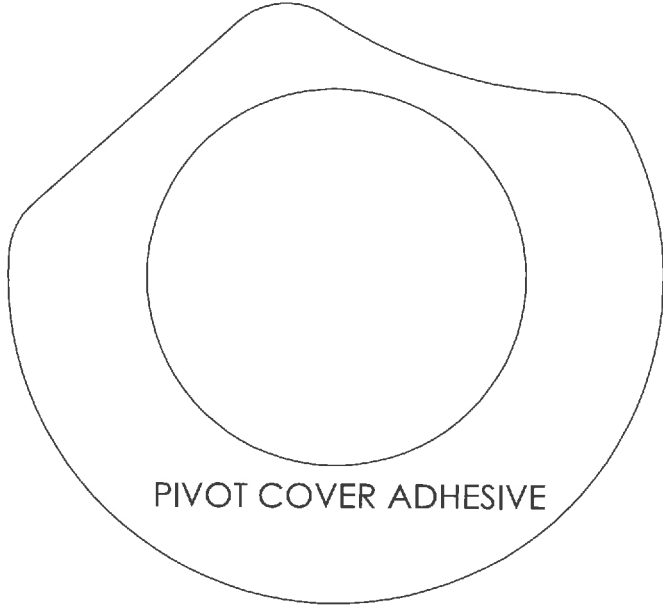
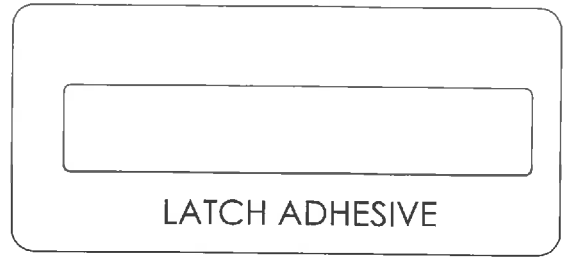
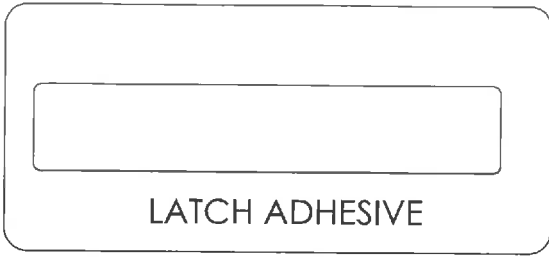
CUT OUT PAPER TEMPLATE AND HOLES.
 ALIGN SENSOR HOLE (C) AS WELL AS
 GUIDE LINES.
 MARK HOLE A AN HOLE B.
 CUT/DRILL OUT HOLES.

TF053 REAR BUMPER TEMPLATE

Terrafirma
 Serious 4x4 Accessories

SCALE 1:1

1 2

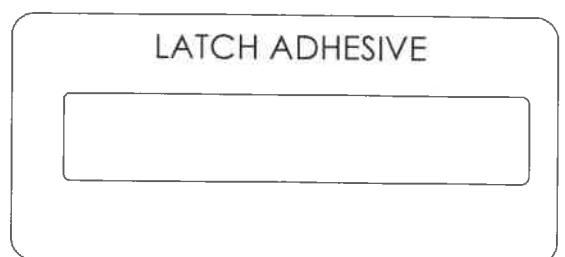
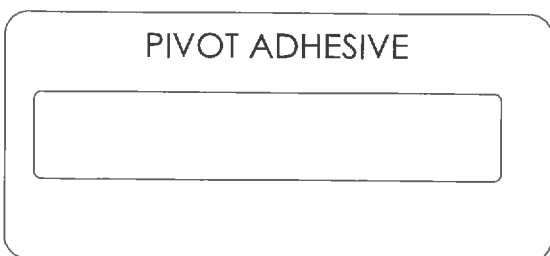
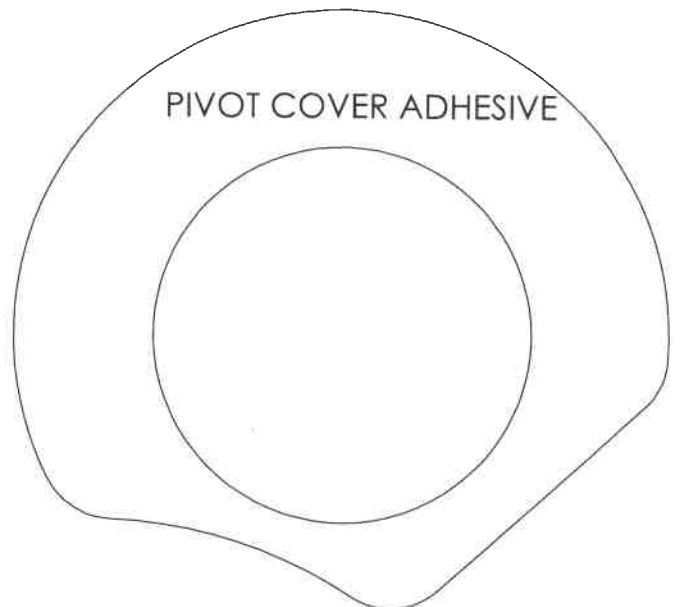
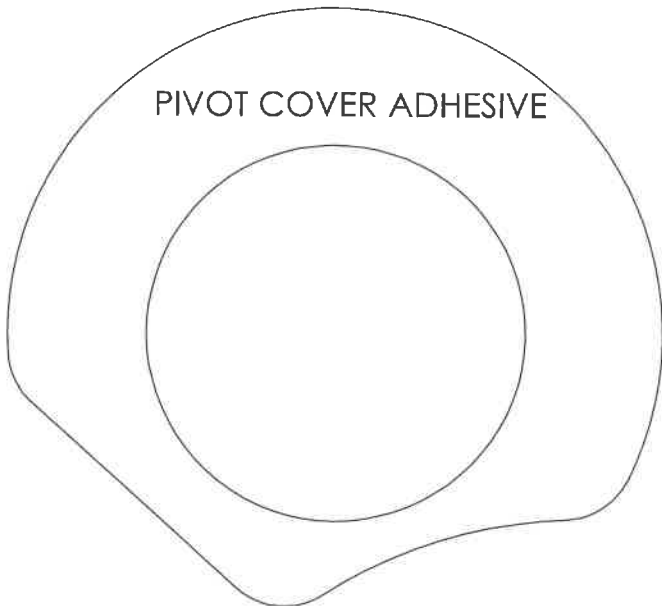


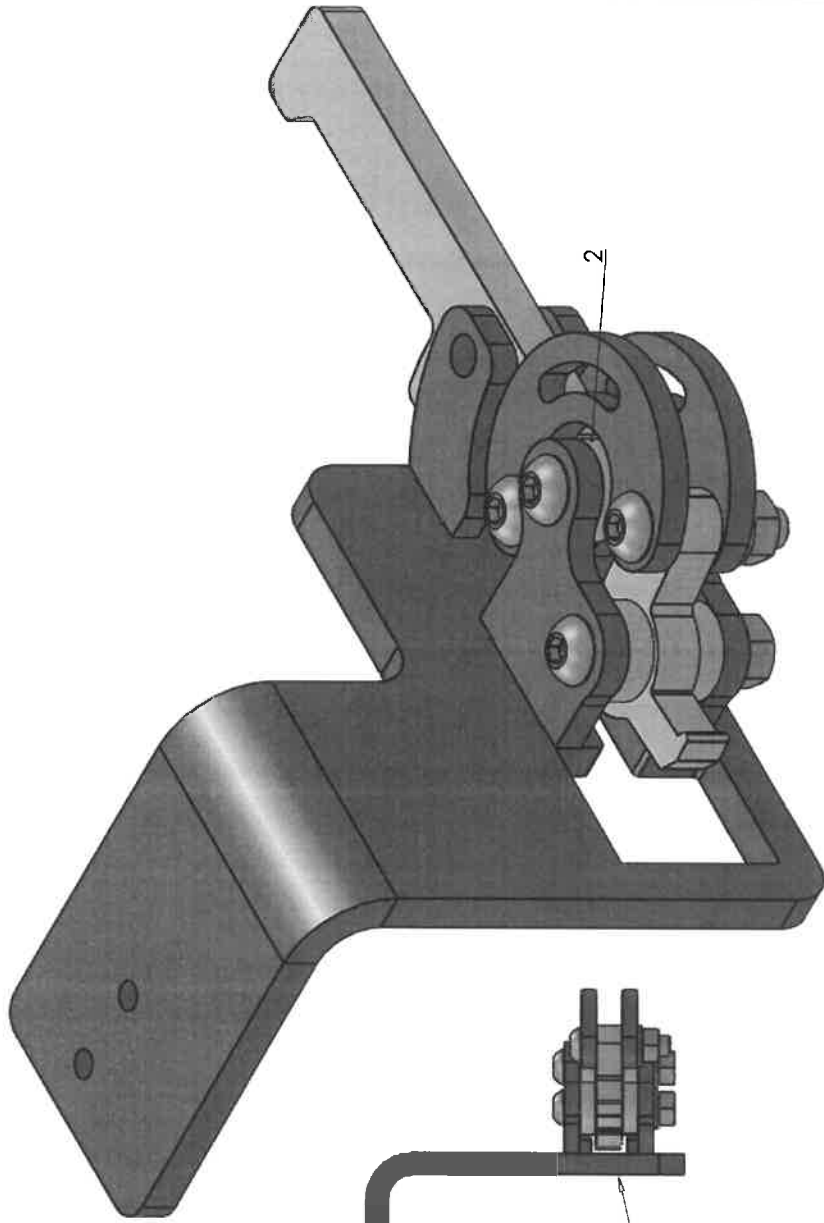
TF053 ADHESIVE COVER PLATE TEMPLATES

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Latch Bracket		1
2	Spacer Ring		4
3	Latch Pivot		1
4	Latch Handle		1
5	Latch Crescent		2
6	Buffon M8 x 45 SS		2
7	Buffon M8 x 35 SS		2
8	8mm Form B Washer SS		4
9	M8 Nyloc type T-SS		4

TF053 LATCH ASSEMBLY

Terrafirma
Serious 4x4 Accessories

195mm



TF053 PIVOT HOLE TEMPLATE

Terrafir a

Series 4x4 Accessories

WMSR 7

