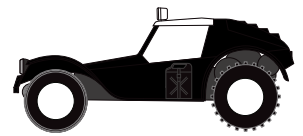


HOLIDAY BUGGY (2010)



1/10th SCALE RADIO CONTROL OFF-ROAD CAR, BUT NARROWER

NARROW TRACK MODIFICATION

This modification aims to use as much of the original kit as possible. If you do not have a donor car (I used some axle bits from an M03 Mini), the additional parts required are for the most part widely available.

The only unusual part to source is HDPE sheet, but it is inexpensive. I got mine from Direct Plastics.

Please be careful and use your own judgment if you choose to follow these guidelines.

ADDITIONAL TAMIYA PARTS REQUIRED

Supplier Fusion Hobbies unless otherwise suggested
 50602 Bevel Gears (£2.75 eBay)
 9805368 Splined Output Shafts
 50823 Axles (£2.75 eBay)
 9804206 5mm Ball Connector Nut
 50597 Damper O-Ring Red (need 2/4)
 50596 5mm Adjuster (need 8 in total)
 50581 12mm Countersunk Tapping Screw (eBay)

NON-TAMIYA PARTS REQUIRED

HPI A552 50mm Dogbones (eBay)
 M3x25mm Button Head Screws (eBay) x4
 M3x40mm Button Head Screws (eBay) x2
 M3 Studding Threaded rod (eBay)
 M3 Locnuts Nylock Nuts (eBay) (need 6)
 5mm HDPE Black, 500x500mm (Direct Plastics)

TOOLS USED

Drill plus 1.5/2.5/3mm & countersink drill bits
 Dremel plus cutting wheel (and goggles)
 Junior Hacksaw, Bradawl, Stanley Knife

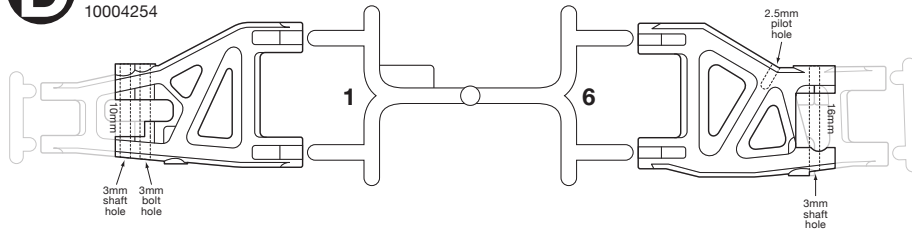
PARTS MODIFIED

19005987 C Parts
 10004254 D Parts
 10004255 E Parts

SUPPLIERS

Fusion Hobbies www.fusionhobbies.com
 Direct Plastics www.directplasticsonline.co.uk
 eBay: boltonmodelmart
 CLIPS-BITS
 boys toys by stavros_one
 TBW Fasteners

D PARTS x2 10004254



FRONT LOWER WISHBONE

Cut off end after the double bulges. Keep the bulges side as is, but cut other side to leave a 10mm gap. Cut a little at a time!

Drill through existing holes to widen to 3mm and continue right through other side; the new outer hole is to allow the screw pin to be put through (from back to front); the inner hole is for a 40mm bolt to hold the bottom of the damper (finish with a 3mm washer and locnut).

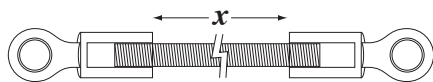
FRONT UPPER ARM

Cut two 22mm lengths of M3 studding, fit ball adjusters to each end, leaving $x = 12$ mm. Both ends attach to ball connector nuts (9804206) on M3 bolts; the tower end bolt and the bolt through the top of the upright are 25mm. Both bolts are finished with a locnut.

Right front as above, except rod is XX mm & $x = 30$ mm.

STEERING TIE RODS

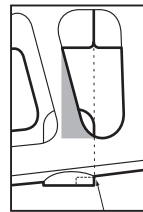
LHS has M3 studding cut to 40mm, $x = 30$ mm.
 RHS use kit short one or cut rod to 63mm, $x = 53$ mm.



REAR LOWER WISHBONE

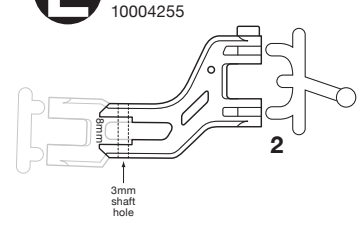
Cut off end after the double bulges. Cut small amounts off each side (slightly more off the double-bulge side) to make a new opening with room for the bottom of the hub carrier to fit smoothly.

With a bradawl, mark a point for your pilot hole at the edge of the unused mount hole (see close-up). Helpfully, the centre line is marked by the mould line. Drill through (working up through the drill sizes) aiming for the centre of the pair of cylindrical bulges. Drill right through the other side. Cut away enough of the unused mount hole to allow the shaft pin to sit flush. This shaft line cancels the 2° toe-in of the original kit. If you wish to keep the toe-in, adjust accordingly. The grey area above needs the remaining raised portions only to be removed on the upper side,



For the new damper mount hole, mark a point on the centre line and drill a pilot hole and then a 2.5mm hole into and along the diagonal brace (see part diagram ②). A 50582 step screw can now go in here to hold the damper.

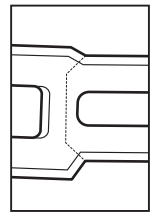
E PARTS x2 10004255



REAR UPPER WISHBONE

Cut off the end, using the diagonal return as a sort of guideline (see right).

Cut small amounts off each side of the new opening until there is room for the top of the hub carrier to fit smoothly. The under side will need more removed than the upper side to allow the hub carrier room to move during suspension travel.



Where you make the new shaft hole depends on how much camber you want. The position shown in part diagram ③ above gets the wheel more or less vertical.

When you assemble the rear, you may want an O-Ring in one or both cups.

TAMIYA SPACE FILLER

白いスペースを残すことができない。
 それは非能率的である。
 何かでそれをいっぱいになさい。

FRONT SHOCK MOUNT

Cut 5mm HDPE to size (hacksaw is quicker, Stanley is neater) and mark with a bradawl the holes as shown in the diagram. (It may help to download and print the template PDF, stick it to the HDPE and cut/mark through.)

For holes marked as uphill, when drilling from the front aim up to match the rearward lean of the shock tower.

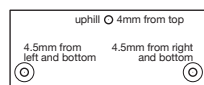
With the rear piece, drill the lower pair of holes whilst offering up the piece to the shock tower and continue the hole through into the tower.

With the front piece, drill the bottom hole first. Only drill the other 3 holes when this piece is mounted; the holes will then go through the rear piece.

Cut the shock tower as shown in part diagram ④.

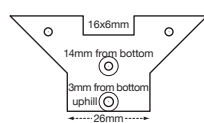
This new shock mount might allow the option of different positions for different dampers - drill your own hole!

The use of the other body mount (M5) included in the kit means you can slightly lower the body height at the front.



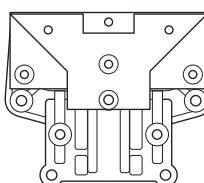
Rear Piece

62x24mm
 All 3 holes end up as 2.5mm
 Lower pair countersunk.



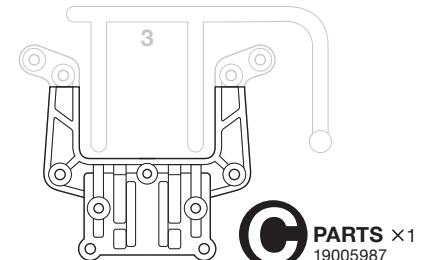
Front Piece

62x30mm overall
 16x6mm notch at top allows for kit spare body mount.
 Top 3 holes end up as 2.5mm, bottom hole 3mm.
 Lower pair countersunk.



New Tower

New pieces are held together by centre screw and shock mount step screws and in turn both are attached to cut-down tower by 3 countersunk screws



④ PARTS x1 19005987

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白いスペースを残すことができない。
 それは非能率的である。
 何かでそれをいっぱいになさい。