

Before starting please check all components

Additional items requires for completion:
Radio gear, motor, prop, tuned pipe/silencer, cyno,
Epoxy resin, good quality tools and a very sharp blade!

WE RECOMMEND HITEC RADIO EQUIPMENT AS USED BY THE WESTON UK DISPLAY TEAM:
Throttle HS 422 Ailerons HS 625 MG Eleveator HS 645 MG

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Parts List

Fuselage
Wing
Tail fin
Tailplane x 2
Aileron servo mount (W18)
Elevator Servo mount (D23)
Elevator Servo Cover
Accessory Packs containing the following;

- Fueltank
- Engine mount
- Throttle wire
- Wing bolt
- Engine Mount Bolts + washers
- Elevator Pushrod inner x 2
- Elevator Pushrod joiner
- Elevator Pushrod insert x 2
- Aileron Pushrods x 2
- Snaplinks x 4
- Quicklink (Metal) X 1 (For Elevator Pushrod Joiner)
- Swing keeper x 2
- Control horns x 2
- 2mm Screws x 4
- Throttle Servo Brass Swivel Link



Wing

Place the Aileron mounting tray over the Servo cutout in the wing. Using a felt tip pen, mark the edge of the mount and then cut away the covering film. Using cyno, stick the mounting plate to the wing then screw the servo to the mounting plate. Screw the snaplinks to the Aileron pushrods then attach the pushrods to the servo arm using the swingkeepers, adjust the length of the pushrod accordingly.

Remove the ailerons from the hinges, cut away any excess covering from the hinge slots, push the hinges halfway into ailerons, then put two drops of thin cyno onto the hinge (at the control surface), allow to dry. Using epoxy, glue the aileron torque rod in and then gently push the aileron into the wing, when a good fit is achieved (move freely) apply two drops of thin cyno to each hinge, turn the wing over and repeat the process.

Push plastic bolt as supplied through the wing, cut a small piece of silicone tubing and push onto the wing bolt. This will stop the bolt from dropping out in transit.

Fuselage

Aerial Tube

Push the throttle wire down the aerial tube out through the end of the fuselage, piercing the covering.

Throttle

Install the throttle servo into the pre-cut servo mount (see diagram 1). Pass the throttle wire through the hole in the firewall then attach the wire to the throttle servo (Z bend) to prevent the wire rubbing. Notch out the front former.

Fueltank

Make up the fueltank (see Diagram 4), attach your desired tubing to the tank, then place the tank into the tankbay wedging in place using foam. Ensure that the throttle wire does not bind/snag on the tank or padding.

****Note ** We have identified a minor problem with the tank installation**. You simply need to notch out bulkhead no.1 to allow the tank to go 3mm deeper into the fuselage. Place the tank in the aeroplane, mark around the corners where it touches the curved bulkhead and with a knife or dremel relieve it, this allows the tank to sit deeper in the fuselage which solves the problem.

Tailfin

Place the tailfin in the slot. Using a knife (as the covering is black), mark around the fin where the fuselage meets the fin. Remove the fin from the slot and carefully cut away the covering using a sharp knife. Insert the fin back into the slot and using some slow cyno or epoxy carefully glue the fin into the slot.

Battery Mounting

The battery is mounted on the ply frame in front of the wing mounting plate using Ty-raps and foam padding. The battery should be slid up inside the canopy section to the desired position as this will avoid any contact with the aileron servo and control rods.

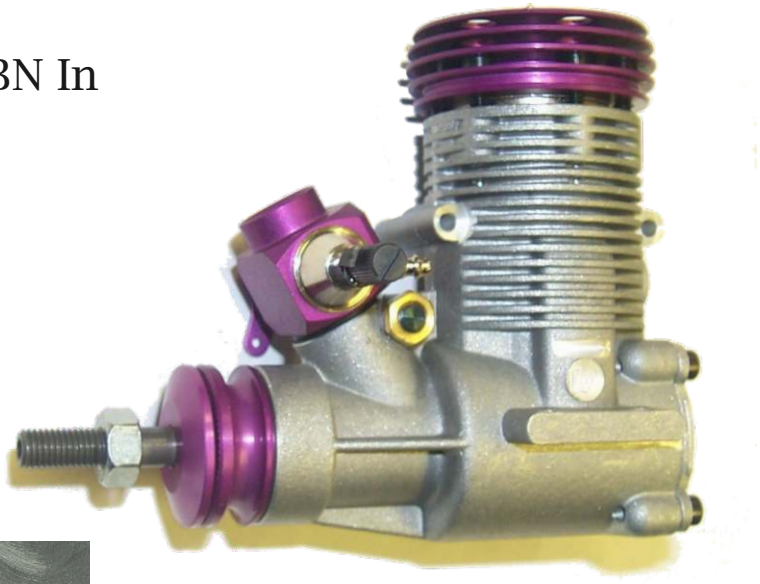
Receiver

The receiver is placed under the canopy behind the balsa sheeting, wrap the receiver in foam before wedging in place (slide backward towards rear of plane). Feed the aerial through the aerial tube and

Switch
Mount the switch harness in the switch hole provided on the side of the fuselage near the receiver (on the opposite side to the exhaust/pipe), ensuring free movement of the switch.

Engine mounting
Install engine onto the pre-drilled engine mount and secure with self tapping allen key screws. Attach the throttle wire arm using the plastic snaplink supplied.

WEST EUROTECH V1 .50 ABN In excess of
2.8BHP @ 21,500RPM





TUNED PIPE/MANIFOLD AND SPINNER
(Spinner supplied for £6.95)

Also available for noise sensitive sites the Genesis mini pipe



If you have purchased the engine and kit package mount the tuned pipe to the fuselage using the supplied mount and tiewrap, you should use a 4mm bolt and washer to fix the pipe mounting to the fuselage (over the pre-installed reinforced area of the fuselage).

Join the pipe using the West moulded silicone joiner and tiewraps provided.

Tailplane and Elevator
The tailplane is in two halves and must be inserted into the fuselage which has a pre-set anhedral. Once inserted mark the film with a pen along the points at which the film has to be removed. Once removed from fuselage remove film and re-install to ensure good fitment. When happy with the fitment apply gap filling cyano or "wet assemble" with epoxy.

Remove the elevator from the hinges, cut away any excess covering from the hinge slots, push the hinges halfway into elevator, then put two drops of thin cyno onto the hinge (at the control surface), allow to dry. Gently push the elevator into the tailplane, when a good fit is achieved (move freely) apply a few drops of thin cyno to each hinge, turn the tailplane over and repeat the process.

Using the screw supplied and 5 min epoxy secure elevator mounting plate (D23) to the fuselage behind the wing mounting bolt (see diagram 2) and drill and mount elevator servo. Assemble the pushrods and joiners (see diagram 3). Push the rods through the tubes and connect to servo, ensuring servo is in neutral position.

The pushrods will overlap the elevator, using this as a guide attach the control horns at the same angle as the pushrods. Ensure that the front of the horn is flush to the chamfer on the elevator, then drill and bolt in place.

Trim the pushrods as required, then push the metal rod into the pushrod. This is done easily if you remove the pushrods from the fuselage and hold the metal rod in a vice or pliers and screw metal rod into the plastic. Refit the pushrods then fit the snaplinks and fix to the control horns.

Manually move the elevator by pushing the pushrod to ensure that they move freely (bend metal rods slightly in the tube to facilitate free running).

Install the elevator hatch and mark out the center point at the rear of the hatch. Drill a hole 5mm from the rear of the hatch and through the tongue on the underside ensuring that the installed elevator control system is not drilled or damaged. Secure hatch with screw supplied.

General Information

PLEASE NOTE:- We recommend you seal all round the edges of the covering with Tufkote to ensure no covering will lift during high speed flight.

C of G; this should be 135 - 145mm from the wingroot.

Movements; Elevator 10mm up and down
Ailerons 8mm up and down

The MagnumR is very stable and likes long fast sweeping manoeuvres. We suggest you have someone to launch the model for the first few flights until trimmed and you have become familiar with the Magnum.

If fitted with the WEST EUROTEC .52 V1, you will soon have no problem in launching the model on your own.

We suggest that for the first few flights you use an APC 9 X 6/7 prop, for you to get used to the general feel of the plane. Then for ultimate performance use an APC 8 x 8 prop.



Diagram 1 - Throttle servo mounting plate, D23

Please use 5 min epoxy and screw to secure elevator servo tray

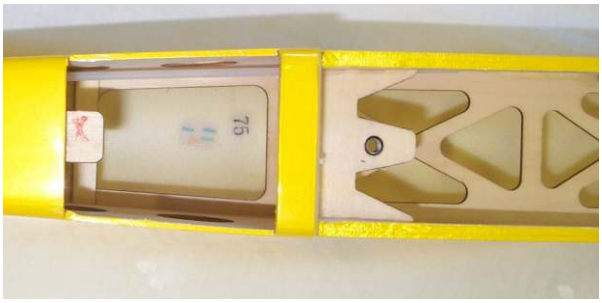


Diagram 2 - Elevator servo

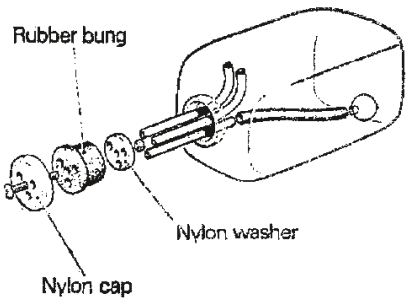


Diagram 3 - Elevator pushrod joiner

ASSEMBLY INSTRUCTIONS FOR R/C CLUNK TANK

Assemble the parts of the kit as shown in the diagram but do NOT tighten up the nut and bolt before inserting the assembly into the neck of the bottle.

After insertion tighten up the bolt which will result in the rubber bung expanding in the bottle neck and making a perfect leak-proof seal.



The two bent vent tubes should be pointing upwards in the bottle and the tank can be assembled with either the narrow or wide side of the bottle uppermost to suit the shape and size of your fuselage.

Diagram 4 - Fueltank Assembly details