



AMBrc DP Transponder Installation Manual

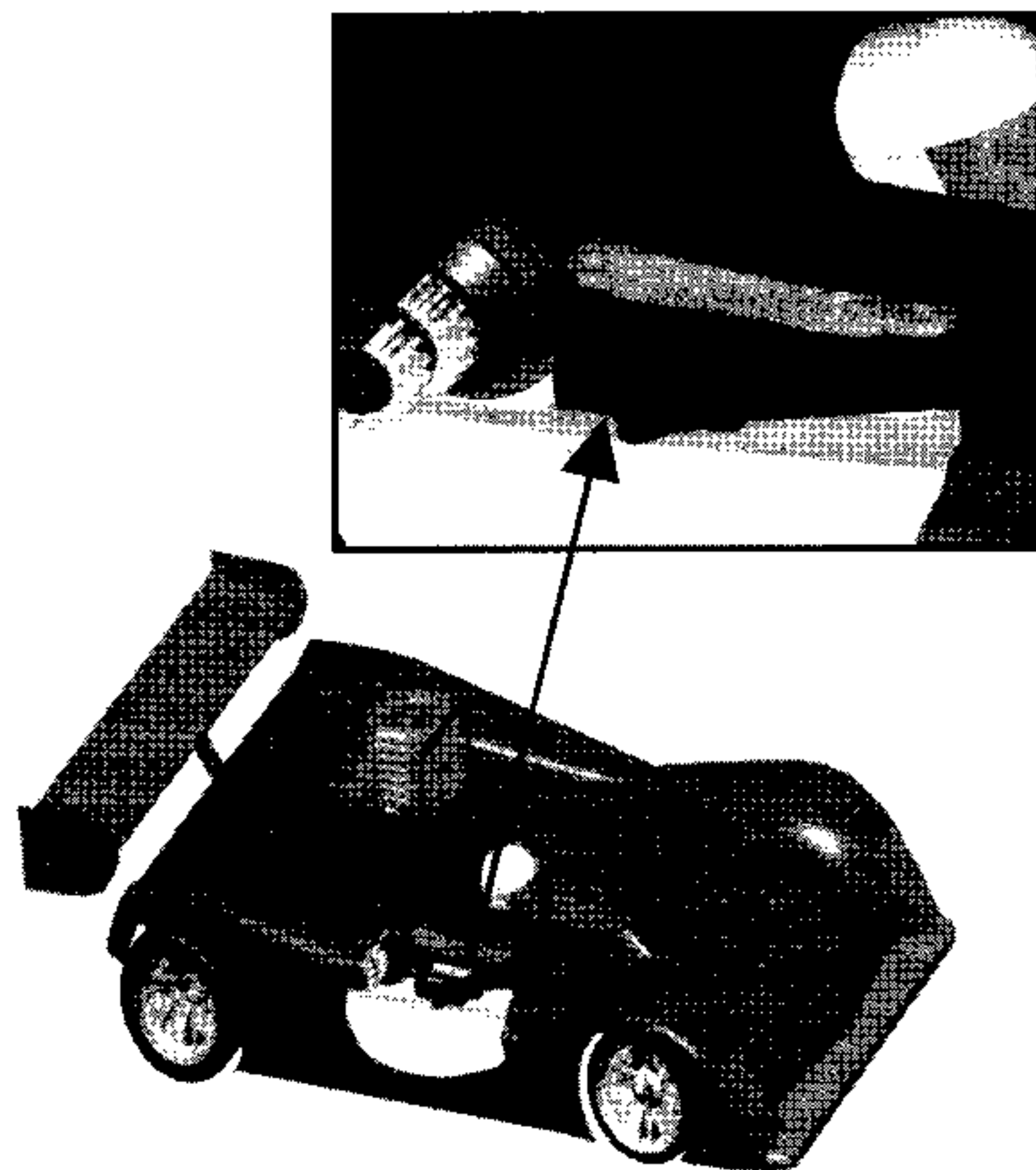


Figure 1

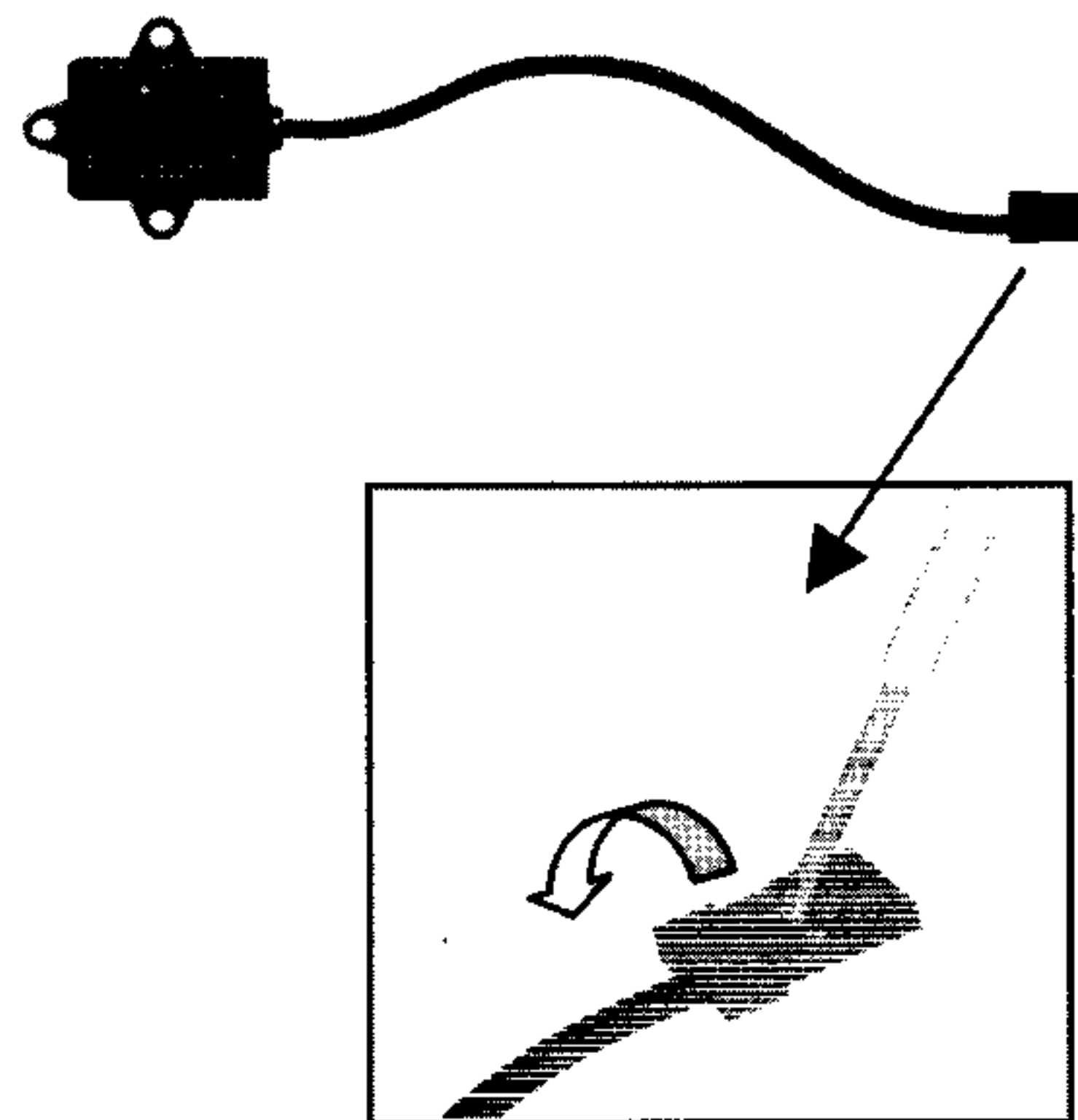


Figure 2

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Transponder Installation (fig.1)

Mount the transponder horizontally no higher than 15 cm/ 6 in (lower is better) from the track. Make sure no metal or carbon fibre is between transponder and track.

Transponder position must be identical in all cars for best finish accuracy. Fix it with double-sided tape or nuts and bolts. Make sure it cannot get detached.

If no free servo or battery channel is available, use a Y-splitter servo wire from your local hobby store. The transponder LED should be on while the radio receiver is also turned on.

On a mini-Z car the transponder can be mounted horizontally on top.

Carbon fibre / metal chassis

The transponder signal will be weakened considerably when fitted directly onto a carbon fibre or metal chassis. This will cause low hit and strength readings from the AMBrc decoder (in AMBrc mode only).

If this is the case, try to find a transponder position free from the chassis, such as the front bumper, for better readings from the decoder.

Hits should be no less than 10+ (at speed) and strength 100+. For further information, see the system manual: Operating; Trouble shooting.

If no acceptable horizontal position can be found, the transponder may be placed vertically, with the wiring facing the left or right side of the car.

Polarity and length of wire (fig. 2)

If the polarity of the servo plug does not match your receiver, it must be reversed (red wire is +). Also the wire can be made shorter.

Carefully lift the plastic lugs on top of the golden connectors and pull them out. Afterwards make sure the connectors are properly fitted into the plug when the plastic lugs are pushed back in

When more than 8 VDC is to be used, a resistor of 100 Ohms per volt over 8 VDC must be connected in series with the red wire. So 10 VDC requires 200 Ohms. Power of the resistor should be 0.1 watt per volt, so 0.2 watt or more is required for 10 VDC.

Interference and the transponder

Rc model cars can suffer from self-generated interference, resulting in poor range of the radio. This is usually caused by improper wiring layout.

The transponder does not use frequencies used by Rc model cars, and will not cause radio interference if installed correctly. In order to avoid possible interference, keep the transponder away from the receiver!

To check if the signal from the transponder is causing interference, disconnect the transponder power plug and check the performance of the car. To check if the wiring causes interference, remove one lead out of the power connector and check the performance of the car.