DEFECT

Headlights are not working

CAUSE(S)	CHECK	SOLUTION(S)
• Bad /wrong plug connections • Broken or pinched wires • Broken welding • Faulty LED • Faulty auxiliary board	**If only one light is not working** • Visual check of plug (I or G) connections • Visual check of plug L connection • Visual check for unbroken or pinched wires • Visual check on the auxiliary board plug (I or G) welding • Visual check on the auxiliary board plug (L) welding **Open the tank and start it** • Touch and move the plug I, G or L and look for any reaction • Pull and push the wire near the LED and move it, check for any reaction	• First of all, push in the plug if found to be loose • Broken or pinched wires -> needs replacement part or soldering skills • If the LED reacts when touched, there's a faulty welding on the LED leg -> needs replacement LED light part • If the auxiliary board plug welding looks broken or loose -> needs replacement part • If the LED reacts when the auxiliary board plugs are touched and the plugs are already well pushed in, there's a faulty welding -> need replacement auxiliary board part
	If both lights are not working at all • Visual check of plug L connection • Visual check on the auxiliary boad plug (L) welds **Open the tank and start it** • Touch and move the plug L and see for any reaction	• First of all, push in the plug if found to be loose • If the auxiliary board plug welding looks broken or loose -> needs replacement part • If the LED reacts when the auxiliary board plugs are touched (plug connections already checked), there's a faulty welding -> need replacement auxiliary board part

DEFECT

Turret motor isn't working

CAUSE(S)	CHECK	SOLUTION(S)
• Poor /wrong plug connections • Broken or pinched wires • Broken welding • Faulty motor • Faulty auxiliary board • Stuck gears • Broken gear • Missing gear	• Visual check of plug A connection • Visual check of plug L connection • Visual check for unbroken or pinched wire • Visual check on the auxiliary board plug A welds • Visual check on the auxiliary board plug L welds • Visual check on gearbox for any openings or gaps **Open the tank and start it** • Touch and move the plug A or L and look for any reaction • Pull and push the wire near the motor and move it, check for any reaction **Listen carefully when operating:** 1. Motor sound, no movement 2. Tickling sound, no movement 3. Tickling sound, movement with continuous stops 4. No sounds at all	• First of all, push the plug if found to be loose • Broken or pinched wires -> needs replacement part or soldering skills • If the motor reacts when touched, there's a faulty welding on the motor spot -> needs replacement part • If the auxiliary board plug welding looks broken or loose -> needs replacement part • If the motor reacts when the auxiliary board plugs are touched, and the plugs are already well pushed in, there's a faulty welding -> need replacement auxiliary board part ***Listening when operating:** 1. Missing or broken gear -> open the gearbox and double check -> needs replacement 2. Stuck gear -> open the gearbox, check the gear, clean, add grease, close the gearbox -> try again 3. Motor overload/ stuck parts -> loosen the screws involved in the turret assembly -> check again -> repeat until the turret unlocks 4. Faulty motor -> needs replacement part

DEFECT

The smoke is not working

CAUSE(S)	CHECK	SOLUTION(S)
• Bad /wrong plug connections • Broken or pinched wires • Broken welding • Faulty motor • Faulty coil • Stuck gears • Broken gear • Missing gear	• Visual check of plug D connection • Visual check for unbroken or pinched wire • Visual check on the auxiliary board plug D welding • Visual check for broken welding on gearbox board • Visual check on gearbox for any openings or gaps **Open the tank and start it** • Touch and move the plug D and look for any reaction • Pull and push the wire near the motor and move it, check for any reaction **Listen/look carefully when operating:** 1. Motor sound, no smoke 2. Motor sound, no smoke 3. Motor sound, no smoke 4. Tickling sound, no movement 5. No sounds at all	• First of all, push in the plug if found to be loose • Broken or pinched wires -> needs replacement part or soldering skills • If the motor reacts when touched, there's a faulty welding on the motor spot -> needs replacement part ***Listen when operating:** 1. Missing or broken gear -> open the gearbox and double check -> needs replacement 2. Broken coil -> open the gearbox when operating and check if the coil burns the oil -> if the coil doesn't work, needs replacement 3. Missing oil/too much oil -> add oil/wait a bit since needs more time to burn the oil 4. Stuck gear -> open the gearbox, check the gear, clean, add grease, close the gearbox -> try again 5. Faulty motor -> needs replacement part

DEFECT

The camera is not working

CAUSE(S)	CHECK	SOLUTION(S)
• Bad /wrong plug connections • Broken or pinched wires • Broken welding • Faulty camera	• Visual check of plug Q connection • Visual check for unbroken or pinched wire **Open the tank and start it** • Touch and move the plug Q and look for any reaction • Pull and push the wire near the camera and move it -> restart the tank and check for any reaction	• First of all, push in the plug if found to be loose • Broken or pinched wires -> needs replacement part or soldering skills • If the signal reacts when touched, there's a fault on the camera welding -> needs replacement camera light part • If the auxiliary board plug welding looks broken or loose -> needs replacement part • If the signal reacts when the auxiliary board plugs are touched and the plugs are already well pushed in, there's a faulty welding -> need replacement auxiliary board part • Broken antenna -> need replacement part

DEFECT

The gun barrel is not elevating at all

CAUSE(S)	CHECK	SOLUTION(S)
• Bad /wrong plug connections • Broken or pinched wires • Broken welding • Faulty motor • Faulty auxiliary board • Stuck gears • Broken gear • Missing gear	• Visual check of plug U connection • Visual check of plug Z1 connection • Visual check for unbroken or pinched wire • Visual check on the auxiliary board plug U welds • Visual check on the auxiliary board plug Z1 welds • Visual check on gearbox for any openings or gaps **Open the tank and start it** • Touch and move the plug U or Z1 and look for any reaction • Pull and push the wire near the motor and move it, check for any reaction **Listen carefully when operating:** 1. Motor sound, no movement 2. Tickling sound, no movement 3. Tickling sound, movement with continuous stops 4. No sounds at all	• First of all, push in the plug if found to be loose • Broken or pinched wires -> needs replacement part or soldering skills • If the motor reacts when touched, there's a faulty welding on the motor spot -> needs replacement part • If the auxiliary board plug welding looks broken or loose -> needs replacement part • If the motor reacts when the auxiliary board plugs are touched and the plugs are already well pushed in, there's a faulty welding -> need replacement auxiliary board part ***Listen when operating:** 1. Missing or broken gear -> open the gearbox and double check -> needs replacement 2. Stuck gear -> open the gearbox, check the gear, clean, add grease, close the gearbox -> try again 3. Motor overload/stuck parts -> loosen the screws involved in the gun barrel assembly -> check again -> repeat till the gun barrel unlocks 4. Faulty motor -> needs replacement part