



WEIDEMANN

Repair Handbook

Telehandlers

T6027



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Technical data, dimensions and weights are only given as an indication. Responsibility for errors or omissions not accepted.

The cover features the machine with possible optional equipment.

Manufactured exclusively for Weidemann GmbH.

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E Introduction



E.1 Notes on the repair manual

Working with the repair manual

This repair book is intended to help ensure continual operational functionality. This ensures the high value of the machine through careful maintenance and after-sales monitoring.

The experiences of our customer service technicians as well as experience gathered from our sites are summarized in this repair book.

Every sequence of images shows the procedure of a repair process. The provided text contains necessary instructions for adjustment, application of special tools, etc.

Major repair procedures are described in such a way that smaller sub-tasks can also be performed individually following the respective procedures.

The manual is appended according to further technical development of the machines and therefore is kept up-to-date to serve as a reference.

For reasons of safety and security, always compare the specified values and capacities with the latest Operator's Manual of the respective machine.

Technical data, dimensions and weights are only given as an indication. Responsibility for errors or omissions not accepted.

Deviations of images are possible.



Information

Careful and prudent working is the best way to avoid accidents!

Explanation of symbols and abbreviations

The indication **left** or **right** in the descriptions always refers to the travel direction of the machine.

Symbols	Explanation
•	Identifies a general list
1	Identifies a list in a table (position numbers)
2	
1.	Identifies activities that must be performed in a certain order
2.	
←	Identifies results
▶	Identifies things to be avoided in the warning and safety instructions



Abbreviations	Explanation
(opt)	Option
(SWxx)	Wrench size (e.g. WS15)
Agricultural/forestry certification	Agricultural or forestry registration
AUS	Acronym from the English term "Aqueous Urea Solution"
DEF	Acronym from the English term "Diesel Emission Fluid"
DOC	Acronym from the English term "Diesel Oxidation Catalyst"
DPF	Diesel particulate filter (AUS: Aqueous Urea Solution)
e.g.	for example
EAT	Acronym from the English term "Exhaust After-treatment System"
Fig.	Figure
FOPS	Falling Object Protective Structure
if nec.	if necessary
max.	maximum
min.	minimum
o/h	Operating hours
Order no.	Order, item or part number
poss.	possibly
resp.	respectively
ROPS	Roll Over Protective Structure
SCR	Acronym from the English term "Selective Catalytic Reduction"
SW	Quickhitch (loader unit)



Repair instructions

Technical data

Technical data, dimensions and weights are only given as an indication. Subject to technical modifications. Responsibility for errors or omissions not accepted.

Cause of damage

Identify the cause of damage, avoid further damage, and secure the machine.

Spare parts

Use original spare parts and corresponding special tools.

When ordering spare parts or submitting technical queries, always provide the machine serial number and, in case of the diesel engine and/or attachments, also the respective serial numbers. This is required to prevent the delivery of wrong spare parts.

Only use spare parts, accessories and accessory devices that come originally from and that have been tested and approved by . This is the only way to ensure constructively that the properties of the vehicle as well as its operational reliability can be maintained. In addition, original parts from maintain the active and/or passive driving safety and operational safety of the machine.

All liability for damages that, in this regard, result from not using original parts, accessories and accessory devices is excluded by .

Diesel engine

Always disconnect the battery cable or operate the battery master switch before working on the diesel engine.

Gearbox

When disassembling the gearbox, always drain the gear oil first before removing the gears. Separate parts that are interlocked with a soft-metal or plastic hammer.

Hydraulic system

In order to ensure that the hydraulics function smoothly, all work must be executed carefully and cleanly.

- Before removing, thoroughly clean the parts of the machine where assembly work is to be performed.
- Clean all the hydraulic screw connections and ports before disassembly.
- Use a suitable container to collect the hydraulic oil as it drains off and dispose of it in an environmentally friendly manner!
- When removing, seal all hose pipes and piping tightly.



Required tools and screw connections

- Standard tools, electric power tools, pit
- 2 x 60 bar (871 psi) pressure gauge
- 2 x 600 bar (8708 psi) pressure gauge
- 1 x 250 bar (3628 psi) pressure gauge
- 2 x micro screw connection 7/16 UNF with O-ring
- 2 x micro screw connection M12x1.5 with O-ring
- 2 x micro screw connection S25 (high pressure up to 600 bar (8708 psi))
- 2 x plug S25 (high pressure up to 600 bar (8708 psi))
- 1 x diesel engine speed sensor (or diagnosis system)
- 1 x multimeter (or diagnosis system)
- Allen key set with spherical lock (retaining function)

Procedure

Replacement of components/warranty handling

Basically, approval is required for replacing the variable displacement pump or the high-speed gearbox. Please always make a note of the name of the person giving the approval and the date of it on the test report. If you are replacing a pump or the gearbox, the following documents must be sent back in paper form together with the old part:

- Standard test report "**Before troubleshooting**"
- Adjusting pump report
- High-speed gearbox report (only if high-speed gearbox is replaced)
- Standard test report "**After troubleshooting**"



E.2 Safety instructions

Pay particular attention to the following

To eliminate risks, the instructions in this system manual must be read and observed by every person using, servicing, repairing, maintaining or inspecting this machine.

In particular, read this section on safety.

Safety symbols and signal words

Explanation

The following symbol identifies safety instructions. It is used for warning against potential personal risk or danger.



DANGER

DANGER identifies a situation causing death or serious injury if it is not avoided.

Consequences in case of non-observance.

- ▶ Avoidance of injury or death.



WARNING

WARNING identifies a situation that can cause death or serious injury if it is not avoided.

Consequences in case of non-observance.

- ▶ Avoidance of injury or death.



CAUTION

CAUTION identifies a situation that can cause injury if it is not avoided.

Consequences in case of non-observance.

- ▶ Avoidance of injury.

NOTICE

NOTICE identifies a situation that causes damage to the machine if it is not observed.

- ▶ Avoidance of damage to property.

The warning and safety signs attached to the machine provide important information for safe operation. Compliance is for your safety.



Safety and accident prevention regulations

- In addition to this service manual also always observe the Operator's Manual of the machine.
- Observe all safety and accident prevention regulations.
- When driving on public roads, observe the respective regulations!
- Before starting the diesel engine, please ensure that no gear is engaged and that all safety devices are attached and set at the safety position.
- Before starting the diesel engine and before switching on the main drive, hoot the horn.
- Start the diesel engine only from the driver's seat. The diesel engine must not be started by short-circuiting the electric connections on the starter because doing so may cause the machine to start moving immediately!
- Do not let the diesel engine run in enclosed areas.
- The assemblers clothes should be close-fitting. Avoid loose-fitting clothes!
- Caution is essential when handling fuel – increased fire hazard.
- Do not smoke during refueling, and avoid fire and sparks.
- Do not smoke when refueling!
- Before refueling, always stop the diesel engine and remove the starting key. Do not refuel in closed rooms.
- Wipe away fuel spills immediately!
- Keep the machine clean to avoid fire hazard.
- Caution is required when handling brake fluids and battery acid. Battery acid is toxic and caustic!
- Only perform work under the lifted machine if safe and secure means of support are used.
- After maintenance work or servicing, reattach the safety devices!

Leaving the machine

- Secure the machine against rolling before leaving it (parking brake, wheel chocks). Stop the engine, remove the starting key and, if necessary, lock the cabin!
- If the vehicle is not going to be moved for a longer period, switch off the battery circuit breaker.
- Never leave the machine untended as long as the engine is still running!
- Before leaving the vehicle, lower the loading unit completely!



Adjustment and maintenance

Due to their function the machine drives are not automatically secured after stopping the engine.

In addition, adjustment work can require that the drives are rotated.

Observe the following:

- Prior to adjustment, cleaning, and maintenance work as well as rectifying functional disorders:
 - Stop the engine.
 - Disconnect the battery circuit breaker.
- Before any adjustment, cleaning or maintenance work or before rectifying any functional faults in the hydraulic system, lower the attachment and/or infeed unit.
- When working on the electric system, always disconnect the battery circuit breaker.
- You must ensure that no-one can start the vehicle or cause the drives to start rotating.
- Fluids emitted under high pressure (fuel hydraulic oil, etc.) can penetrate the skin and cause serious injuries, therefore call a doctor immediately as otherwise serious infections can be caused!
- Repairs to the hydraulic system may only be carried out by specialist workshops.
- Be careful when opening the radiator cap. The radiator is under pressure when the engine is hot!
- Sufficient knowledge and assembly tools in accordance with regulations are required for mounting tires!
- Dispose of oil, fuels and filters properly!
- Re-tighten the wheel nuts regularly!



Jack up the machine

WARNING

Crushing hazard due to incorrectly jacked-up machine.

Serious injury or death of persons underneath the machine can be caused if the machine lowers or falls down.

- ▶ Use jack/jack stand of sufficient lifting capacity.
- ▶ Use hydraulic jacks/jack stands that function reliably.
- ▶ Use the jack/jack stand on firm and level ground.
- ▶ Install a jack/jack stand at a suitable position on the machine.

Parking the machine

Perform the following steps before working on the machine:

- Stop the diesel engine.
- Apply the parking brake.
- Remove the starting key.
- Remove key from main battery switch.
- Wait until all parts of the machine have come to a complete standstill.
- Secure the machine with wheel chocks.
- Ensure that the machine cannot be put into operation by other persons.

Air conditioning



Environment

The air-conditioning system is filled with an HFC refrigerant which can damage the atmosphere. Be particularly careful when working on the air conditioning system. Maintenance and repair work may only be performed by specialized cryo-service centers. Refrigerant must always be extracted and recycled properly



Risk of injury from hydraulic fluids

WARNING

Risk of injury due to liquids under high pressure.

Liquids can penetrate the skin and cause death or serious injury.

- ▶ Work on the hydraulic system may only be performed by authorized service centers.
 - ▶ Check the hose pipes regularly.
 - ▶ Search for leaks with a piece of wood or cardboard.
 - ▶ Ensure that the oil jet is not directed toward your body.
 - ▶ Replace damaged hose pipes.
 - ▶ Replace flexible lines no later than 6 years after production date.
 - ▶ If hydraulic fluids penetrate skin or eyes, this must be treated by a specialist doctor immediately.
-

Pressure accumulator

DANGER

Risk of injury or suffocation!

Risk of suffocation through uncontrolled release of large quantities of gas and risk of injury due to entrained components.

- ▶ Work is only to be carried out by an authorized service center.
 - ▶ Ensure there is ample ventilation while work is being performed.
 - ▶ Only use appropriate devices to perform tests.
-

DANGER

Explosion hazard!

Risk of serious injury through the explosion of the hydraulic accumulator when filling the membrane accumulator with non-approved gas.

- ▶ Work is only to be carried out by an authorized service center.
 - ▶ Fill only with approved gas.
-



 **CAUTION**

Risk of burns and injuries

Burn and injury hazard if hot hydraulic oil escapes under high pressure.

- ▶ Do not operate the machine with leaking or damaged hydraulic system components.
- ▶ Never search for leaks with your bare hands. Wear protective gloves and clothing.
- ▶ Wear safety glasses to protect the eyes. If oil contacts the eye, flush immediately with clean water and seek emergency medical treatment.
- ▶ Seek immediate medical attention if oil penetrates the skin. Oil can cause serious infections.
- ▶ Retighten leaking threaded fittings and hose connections only when the hydraulic system is not under pressure. In other words, release the pressure before working on pressurized lines.
- ▶ Never weld or solder damaged or leaking membrane accumulators. Have damaged parts replaced by an authorized service center.
- ▶ Do not check for leaks with an open flame due to explosive fire risk from vaporized oil mist.

-
- Have the membrane accumulator checked by an authorized service center in accordance with the maintenance plan intervals in chapter 7.x.
 - Damaged membrane accumulators cannot be repaired and must be replaced.
 - Seek the help of an authorized service center for disassembly and replacement.

First-aid measures

Breathing:

- Supply persons with fresh air and seek medical attention depending on symptoms.
- Remove person from the danger zone.

Eye contact:

Rinse thoroughly several minutes with plenty of water. Seek medical attention if necessary.

Skin contact:

Wash thoroughly with plenty of water and soap, immediately remove soaked clothes, seek medical attention in case of skin irritations (reddening, etc.).

Swallowing:

Do not induce vomiting, immediately seek medical attention.



E.3 Tightening torques

General tightening torques

Screw dimensions	Tightening torques ¹ in Nm (ft.lb)		
	8.8	10.9	12.9
M4	3 (2,2)	4 (3)	5 (3,7)
M5	5,5 (4,1)	8 (5,9)	10 (7,4)
M6	10 (7,4)	14 (10,3)	16 (11,8)
M8	23 (17)	34 (25,1)	40 (29,5)
M10	46 (33,9)	67 (49,4)	79 (58,3)
M12	79 (58,3)	115 (84,8)	135 (99,6)
M14	125 (92,2)	185 (136,4)	220 (162,3)
M16	195 (143,8)	290 (213,9)	340 (250,8)
M18	280 (206,5)	400 (295)	470 (346,7)
M20	395 (291,3)	560 (413)	660 (486,8)
M22	540 (398,3)	760 (560,5)	890 (656,4)
M24	680 (501,5)	970 (715,4)	1150 (848,2)
M27	1000 (737,6)	1450 (1069,5)	1700 (1253,9)
M30	1350 (995,7)	1950 (1438,2)	2300 (1696,4)

1. These values are valid for screws with untreated, non-lubricated surfaces.

Specific tightening torques

Designation	Tightening torque in Nm (ft.lb)
Wheel nut	400 ^{±20} Nm (295 ^{±14} ft.lbs.)



Torque values for metric coarse-pitch thread

Screws and nuts

The tightening torques specified below only apply if:

- A friction coefficient of $\mu_{tot} = 0.14$ is reached in connection with a thread lubricant. A surface protection, for example A3C+L, Dacromet or Termosil, is recommended for this.
- No other tightening torque is specified in the text.
- No additional screw locks, for example MK screws or a liquid screw lock, are used.

Tightening torques in Nm (ft.lb)				
Property class		8.8	10.9	12.9
Designation	Dimensions			
Hexagon head cap screw ISO 4014 to ISO 4018 Cheese-head screws ISO 4762 Hexagon nuts ISO 4032	M4	2,9 (2,1)	4,3 (3,2)	5 (3,7)
	M5	5,8 (4,3)	8,5 (6,3)	10 (7,4)
	M6	10 (7,4)	14,5 (10,7)	17 (12,5)
	M8	24,5 (18,1)	36 (26,6)	42 (31)
	M10	48,5 (35,8)	71 (52,4)	83,5 (61,6)
	M12	83,5 (61,6)	123 (90,7)	144 (106,2)
	M14	133 (98,1)	196 (144,6)	229 (168,9)
	M16	207 (152,7)	304 (224,2)	355 (261,8)
	M18	296 (218,3)	422 (311,3)	494 (364,4)
	M20	417 (307,6)	594 (438,1)	695 (512,6)
	M22	570 (420,4)	813 (599,6)	951 (701,4)
	M24	718 (529,6)	1022 (753,8)	1196 (882,1)
	M27	1058 (780,3)	1506 (1110,8)	1763 (1300,3)
	M30	1437 (1059,9)	2046 (1509,1)	2395 (1766,5)
	M33	1944 (1433,8)	2770 (2043)	3240 (2389,7)
	M36	2500 (1843,9)	3561 (2626,5)	4167 (3073,4)
M39	3237 (2387,5)	4610 (3400,2)	5394 (3978,4)	



Torque values for metric fine-pitch thread

Screws and nuts

The specified tightening torques only apply if:

- A friction coefficient of $\mu_{tot} = 0.14$ is reached in connection with a thread lubricant. A surface protection, for example A3C+L, Dacromet or Termosil, is recommended for this.
- No other tightening torque is specified in the text.
- No additional screw locks, for example MK screws or a liquid screw lock, are used.

Tightening torques in Nm (ft.lb)					
Property class		8.8	10.9	12.9	
Designation/dimensions					
Hexagon head cap screw ISO 8765, ISO 8876	M8 x 1	26 (19,2)	38,5 (28,4)	45 (33,2)	
	M10 x 1	54 (39,8)	79 (58,3)	92,5 (68,2)	
	M10 x 1.25	51 (37,6)	74,5 (54,9)	88 (64,9)	
	M12 x 1.25	90,5 (66,7)	134 (98,8)	156 (115,1)	
	M12 x 1.5	87 (64,2)	128 (94,4)	150 (110,6)	
	M14 x 1.5	143 (105,5)	210 (154,9)	246 (181,4)	
	M16 x 1.5	219 (161,5)	323 (238,2)	378 (278,8)	
	M18 x 1.5	331 (244,1)	470 (346,7)	551 (406,4)	
	M18 x 2	313 (230,9)	446 (329)	522 (385)	
	Hexagon nuts ISO 4032	M20 x 1.5	459 (338,5)	655 (483,1)	766 (565)
		M22 x 1.5	622 (458,8)	886 (653,5)	1037 (764,9)
		M24 x 1.5	809 (596,7)	1152 (849,7)	1348 (994,2)
		M24 x 2	778 (573,8)	1108 (817,2)	1297 (956,6)
		M27 x 1.5	1173 (865,2)	1672 (1233,2)	1956 (1442,7)
		M27 x 2	1135 (837,1)	1617 (1192,6)	1892 (1395,5)
		M30 x 2	1580 (1165,3)	2251 (1660,3)	2634 (1942,7)
		M33 x 2	2116 (1560,7)	3015 (2223,7)	3528 (2602,1)
	M36 x 2	2773 (2045,3)	3951 (2887,6)	4623 (3409,7)	
M39 x 2	3557 (2623,5)	5067 (3737,2)	5930 (4373,7)		



Tightening torques for hydraulic screw connections and air-conditioning screw connections with sealing cone and O-ring DIN 3865

Outside tube diameter in mm (in)	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
6 (0,24)	10 (7,4)	15 (11,1)
8 (0,31)	15 (11,1)	25 (18,4)
10 (0,39)	25 (18,4)	35 (25,8)
12 (0,47)	35 (25,8)	50 (36,9)
15 (0,59)	50 (36,9)	–
16 (0,63)	–	80 (59)
18 (0,71)	80 (59)	–
20 (0,79)	–	110 (81,1)
22 (0,87)	110 (81,1)	–
25 (0,98)	–	160 (118)
28 (1,1)	160 (118)	–
30 (1,18)	–	210 (154,9)
35 (1,38)	210 (154,9)	–
38 (1,5)	–	320 (236)
42 (1,65)	320 (236)	–



Tightening torques for hydraulic screw connections with olive DIN 3861

Outside tube diameter in mm (in)	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
6 (0,24)	15 (11,1)	25 (18,4)
8 (0,31)	25 (18,4)	35 (25,8)
10 (0,39)	35 (25,8)	50 (36,9)
12 (0,47)	50 (36,9)	80 (59)
15 (0,59)	80 (59)	–
16 (0,63)	–	110 (81,1)
18 (0,71)	110 (81,1)	–
20 (0,79)	–	160 (118)
22 (0,87)	160 (118)	–
25 (0,98)	–	210 (154,9)
28 (1,1)	210 (154,9)	–
30 (1,18)	–	320 (236)
35 (1,38)	320 (236)	–
38 (1,5)	–	400 (295)
42 (1,65)	400 (295)	–



Tightening torques for hydraulic system screw-in spud SDS

Shape B with sealing edge (cutting edge) and shape E with soft O-ring seal

Dimension	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
M5	–	–
M6	–	–
M8 x 1	–	–
M10 x 1	18 (13,3)	–
M12 x 1.5	30 (22,1)	35 (25,8)
M14 x 1.5	45 (33,2)	55 (40,6)
M16 x 1.5	60 (44,3)	70 (51,6)
M18 x 1.5	70 (51,6)	110 (81,1)
M20 x 1.5	–	140 (103,3)
M22 x 1.5	140 (103,3)	170 (125,4)
M26 x 1.5	180 (132,8)	220 (162,3)
M27 x 2	190 (140,1)	250 (184,4)
M33 x 2	300 (221,3)	300 (221,3)
M42 x 2	500 (368,8)	550 (405,7)
M48 x 2	550 (405,7)	600 (442,5)
G 1/8 A	20 (14,8)	25 (18,4)
G 1/4 A	35 (25,8)	40 (29,5)
G 3/8 A	70 (51,6)	90 (66,4)
G 1/2 A	100 (73,8)	150 (110,6)
G 3/4 A	180 (132,8)	270 (199,1)
G 1 A	250 (184,4)	350 (258,1)
G 1-1/4 A	450 (331,9)	500 (368,8)
G 1-1/2 A	550 (405,7)	600 (442,5)
7/16-20	–	–
1/2-20 (UNF)	–	–
9/16-18	–	–
3/4-16	–	–
7/8-14	–	–
1-1/16-12	–	–
1-5/16-12	–	–
1-5/8-12 (UNF)	–	–
1-7/8-12 (UNF)	–	–
2-12 (UNF)	–	–



Shape F with O-ring and plug

Dimension	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
M5	2,8 (2,1)	–
M6	5,2 (3,8)	–
M8 x 1	7 (5,2)	–
M10 x 1	11 (8,1)	–
M12 x 1.5	15 (11,1)	15 (11,1)
M14 x 1.5	25 (18,4)	25 (18,4)
M16 x 1.5	35 (25,8)	35 (25,8)
M18 x 1.5	50 (36,9)	50 (36,9)
M20 x 1.5	–	55 (40,6)
M22 x 1.5	80 (59)	80 (59)
M26 x 1.5	110 (81,1)	110 (81,1)
M27 x 2	110 (81,1)	160 (118)
M33 x 2	160 (118)	210 (154,9)
M42 x 2	210 (154,9)	320 (236)
M48 x 2	320 (236)	420 (309,8)
G 1/8 A	–	–
G 1/4 A	–	–
G 3/8 A	–	–
G 1/2 A	–	–
G 3/4 A	–	–
G 1 A	–	–
G 1-1/4 A	–	–
G 1-1/2 A	–	–
7/16 - 20	15 (11,1)	20 (14,8)
1/2-20 (UNF)	20 (14,8)	25 (18,4)
9/16-18	30 (22,1)	30 (22,1)
3/4-16	35 (25,8)	60 (44,3)
7/8-14	70 (51,6)	90 (66,4)
1-1/16-12	85 (62,7)	100 (73,8)
1-5/16-12	150 (110,6)	170 (125,4)
1-5/8-12 (UNF)	250 (184,4)	300 (221,7)
1-7/8-12 (UNF)	300 (221,7)	350 (258,1)
2-12 (UNF)	350 (258,1)	400 (295)



Shape H with O-ring and chamber ring

Dimension	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
G 1/8 A	20 (14,8)	20 (14,8)
G 1/4 A	40 (29,5)	40 (29,5)
G 3/8 A	75 (55,3)	75 (55,3)
G 1/2 A	85 (62,7)	85 (62,7)
G 3/4 A	180 (132,8)	180 (132,8)
G 1 A	310 (228,6)	310 (228,6)
G 1-1/4 A	450 (331,9)	450 (331,9)
G 1-1/2 A	540 (398,3)	540 (398,3)



Tightening torques for hydraulics rotating threaded fittings

Dimension	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
M10 x 1	20 (14,8)	30 (22,1)
M12 x 1.5	35 (25,8)	40 (29,5)
M14 x 1.5	45 (33,2)	50 (36,9)
M16 x 1.5	60 (44,3)	70 (51,6)
M18 x 1.5	75 (55,3)	80 (59)
M20 x 1.5	–	100 (73,8)
M22 x 1.5	125 (92,2)	130 (95,9)
M26 x 1.5	130 (95,9)	–
M27 x 2	130 (95,9)	140 (103,3)
M33 x 2	300 (221,3)	300 (221,3)
M42 x 2	500 (368,8)	500 (368,8)
M48 x 2	600 (442,5)	600 (442,5)
G 1/8 A	20 (14,8)	–
G 1/4 A	40 (29,5)	40 (29,5)
G 3/8 A	65 (47,9)	70 (51,6)
G 1/2 A	90 (66,4)	100 (73,8)
G 3/4 A	130 (95,9)	130 (95,9)
G 1 A	270 (199,1)	380 (280,3)
G 1-1/4 A	500 (368,8)	600 (442,5)
G 1-1/2 A	600 (442,5)	700 (516,3)

Tightening torques for banjo bolts DIN 7643

Dimension	Tightening torque in Nm (ft.lb)
M8 x 1	8 (5,9)
M10 x 1	15 (11,1)
M12 x 1.5	27 (19,9)
M14 x 1.5	38 (28,)
M16 x 1.5	70 (51,6)
M18 x 1.5	45 (33,2)
M20 x 1.5	58 (42,8)
M22 x 1.5	95 (70,1)
M26 x 1.5	130 (95,9)
M30 x 1.5	183 (135)



Tightening torques for adjustable hydraulics screw-in spuds SDE

Shape F with O-ring

Dimension	Tightening torque (very lightweight series) in Nm (ft.lb)	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
M8 x 1	–	–	–
M10 x 1	20 (14,8)	15 (11,1)	–
M12 x 1.5	–	25 (18,4)	35 (25,8)
M14 x 1.5	–	35 (25,8)	45 (33,2)
M16 x 1.5	–	40 (29,5)	55 (40,6)
M18 x 1.5	–	45 (33,2)	90 (66,4)
M20 x 1.5	–	–	140 (103,3)
M22 x 1.5	–	60 (44,3)	170 (125,4)
M26 x 1.5	–	100 (73,8)	190 (140,1)
M27 x 2	–	100 (73,8)	190 (140,1)
M33 x 2	–	160 (118)	310 (228,6)
M42 x 2	–	210 (154,9)	330 (243,4)
M48 x 2	–	260 (191,8)	420 (309,8)
7/16-20	–	15 (11,1)	20 (14,8)
1/2-20 (UNF)	–	30 (22,1)	40 (29,5)
9/16-18	–	35 (25,8)	45 (33,2)
3/4-16	–	55 (40,6)	60 (44,3)
7/8-14	–	80 (59)	90 (66,4)
1-1/16-12	–	100 (73,8)	100 (73,8)
1-5/16-12	–	150 (110,6)	170 (125,4)
1-5/8-12 (UNF)	–	290 (213,9)	340 (250,8)
1-7/8-12 (UNF)	–	325 (239,7)	415 (306,1)
2-12 (UNF)	–	350 (258,1)	450 (331,9)



Shape H with O-ring and chamber ring

Dimension	Tightening torque (very lightweight series) in Nm (ft.lb)	Tightening torque (lightweight series) in Nm (ft.lb)	Tightening torque (heavy series) in Nm (ft.lb)
M8 x 1	10 (7,4)	–	–
M10 x 1	20 (14,8)	18 (13,3)	–
M12 x 1.5	–	30 (22,1)	35 (25,8)
M14 x 1.5	–	45 (33,2)	55 (40,6)
M16 x 1.5	–	60 (44,3)	80 (59)
M18 x 1.5	–	70 (51,6)	105 (77,4)
M20 x 1.5	–	–	140 (103,3)
M22 x 1.5	–	125 (92,2)	125 (92,2)
M26 x 1.5	–	180 (132,8)	180 (132,8)
M27 x 2	–	180 (132,8)	180 (132,8)
M33 x 2	–	300 (221,3)	380 (280,3)
M42 x 2	–	450 (331,9)	500 (368,8)
M48 x 2	–	600 (442,5)	600 (442,5)
G 1/8 A	20 (14,8)	20 (14,8)	25 (18,4)
G 1/4 A	–	35 (25,8)	45 (33,2)
G 3/8 A	–	70 (51,6)	75 (55,3)
G 1/2 A	–	100 (73,8)	100 (73,8)
G 3/4 A	–	180 (132,8)	180 (132,8)
G 1 A	–	300 (221,3)	300 (221,3)
G 1-1/4 A	–	450 (331,9)	450 (331,9)
G 1-1/2 A	–	540 (398,3)	540 (398,3)



Tightening torques for brake line threaded fittings

Shape F male fitting screws and shape FS male fitting screws with flare

Dimension	Tightening torque in Nm (ft.lb)
M10 x 1	14+2 (10,3+1,5)

Tightening torques for worm drive hose clamps

Width of the bracket in mm (in)	Tightening torques for new hoses for first installation in Nm (ft.lb)	Tightening torques for re-tightening or new assembly in Nm (ft.lb)
7,9 (0,31)	0,9±0,2 (0,7±0,1)	0,7±0,2 (0,5±0,1)
13,5 (0,53)	4,5±0,5 (3,3±0,4)	3,0±0,5 (2,2±0,4)
15,9 (0,63)	7,5±0,5 (5,5±0,4)	4,5±0,5 (3,3±0,4)

Tightening torques for spring-loaded worm drive hose clamps

Width of the bracket in mm (in)	Diameter of the bracket in mm (in)	Tightening torque in Nm (ft.lb)
12 (0,47)	60-80 (2,36-3,15)	5+0,5 (3,7+0,4)
12 (0,47)	70-90 (2,76-3,54)	5+0,5 (3,7+0,4)

1 Maintenance



1.1 Maintenance preparations, instructions

Information on maintenance

Responsibilities and prerequisites

Have the following maintenance performed by an authorized service center otherwise warranty claims will not be acknowledged:

- Delivery inspection,
- "A" 1st inspection at 100 o/h
- "B" 2nd inspection at 500 o/h and every 500 o/h,
- "C" every 1500 o/h (once a year).

The daily work that is to be performed "every 10 hours of operation (daily)", as well as the care work that is to be done "every 20 hours of operation", which is indicated in the maintenance schedule, has to be performed by a specially trained operator. – see "Maintenance plan" on page 1-7.

The manufacturer shall not be liable for damage or personal injury caused by failure to observe instructions!



Information

Insist on using original spare parts for repairs.

The machine's permits, certifications, registrations, etc., may be withdrawn if machine parts/components with a prescribed condition or quality, or machine parts/components that can put persons at risk during operation, are subsequently modified or exchanged!

Please contact your dealer if you require more information on maintenance.



Safety instructions concerning maintenance work

CAUTION

Risk of injury from maintenance work!

Injury hazard!

- ▶ Apply the parking brake.
 - ▶ Stop the engine and remove the starting key.
 - ▶ Observe the danger indications and safety instructions during maintenance.
 - ▶ Always park the machine on firm and level ground and secure it to prevent it from rolling away.
 - ▶ Secure the raised loader unit against unintentional lowering.
 - ▶ Switch of battery master switch **S008**.
 - ▶ Follow the maintenance and safety instructions given in the operator's manuals of the attachments.
-
-

NOTICE

In order to avoid damage from malfunctions in the electronic regulation of the diesel engine, do not unscrew main battery switch **S008** from the frame immediately after switching off the engine!

Follow the correct order (see label)!

It is not possible to operate an external vehicle heater (optional) when the main battery switch **S008** has been removed.



Parking the machine

Perform the following steps before working on the machine:

1. Park the machine on level and firm ground.
2. Apply the parking brake.
3. Retract the telescopic boom and lower the telescopic arm to the ground.
4. When working on a raised telescopic arm – see *"Mounting the safety prop onto the lift ram" on page 1-5.*
5. Stop the diesel engine.
6. Remove the starting key.
7. Secure the machine with wheel chocks.
8. Wait until all parts of the machine have come to a complete standstill.
9. Switch off battery master switch S008 – see *"Switch off the battery master switch S008" on page 1-4.*
10. Ensure that the machine cannot be put into operation by other persons.

Jack up the machine



WARNING

Crushing hazard due to incorrectly jacked-up machine.

Serious injury or death of persons underneath the machine can be caused if the machine lowers or falls down.

- ▶ Use jack/jack stand of sufficient lifting capacity.
- ▶ Use hydraulic jacks/jack stands that function reliably.
- ▶ Use the jack/jack stand on firm and level ground.
- ▶ Install a jack/jack stand at a suitable position on the machine.





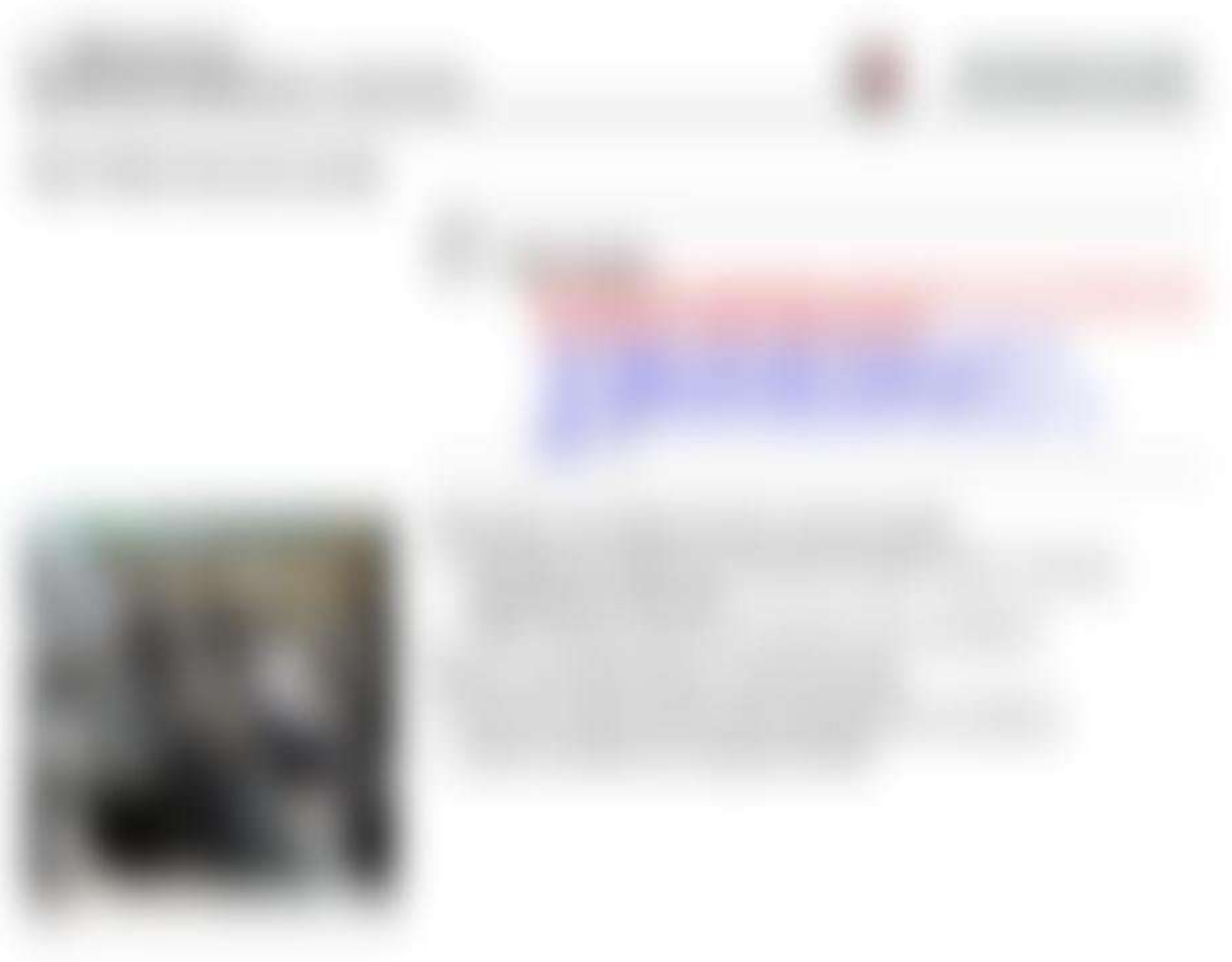




















Figure 1: [Illegible text describing the image above]



Item	Description	Quantity	Unit Price	Total Price
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Section of text, likely a title or introductory paragraph, describing the tractor model or component.

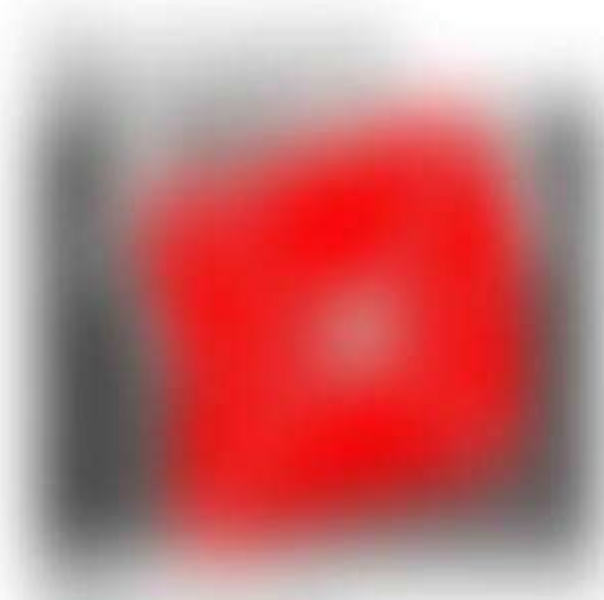
Section of text, likely a title or introductory paragraph, describing the tractor model or component.

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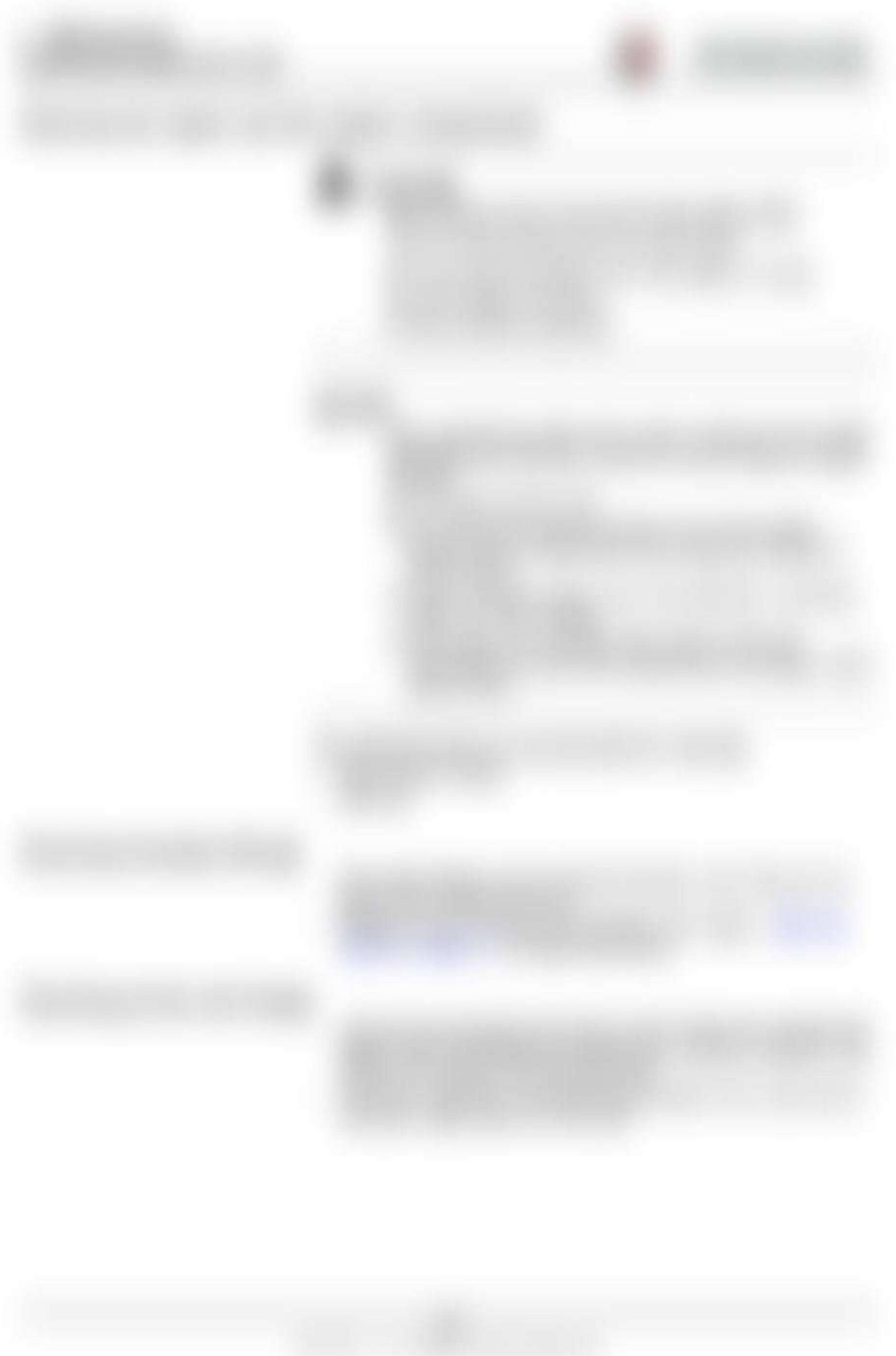


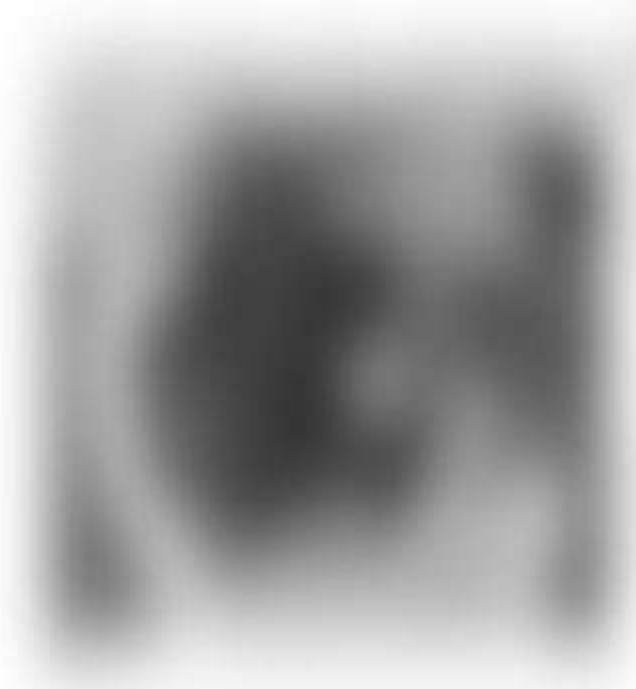
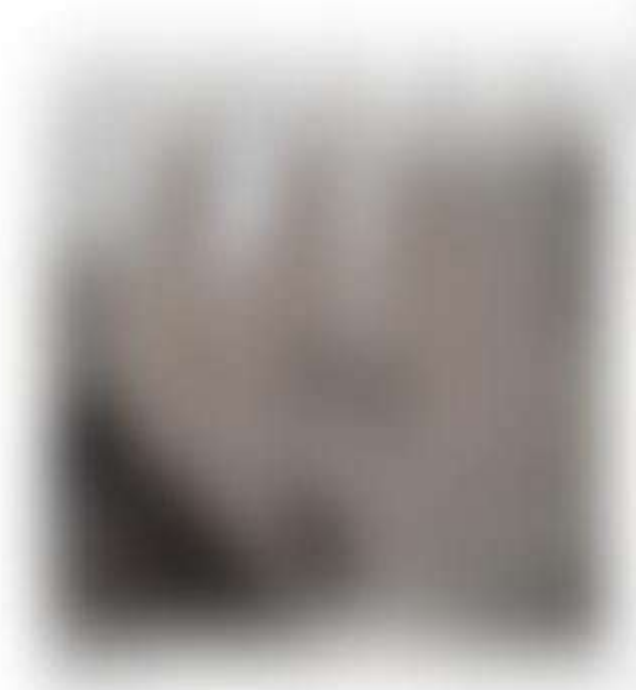


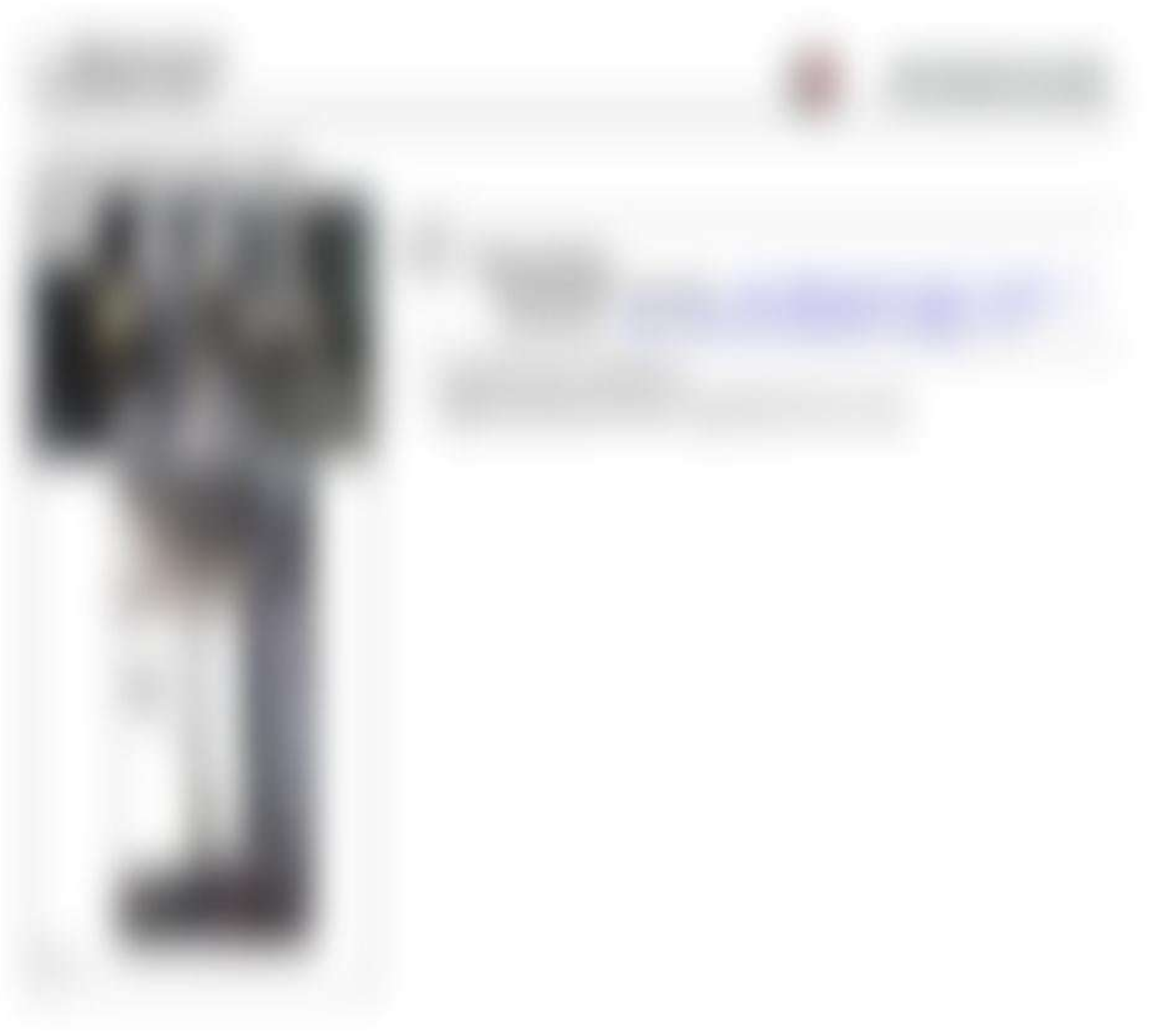












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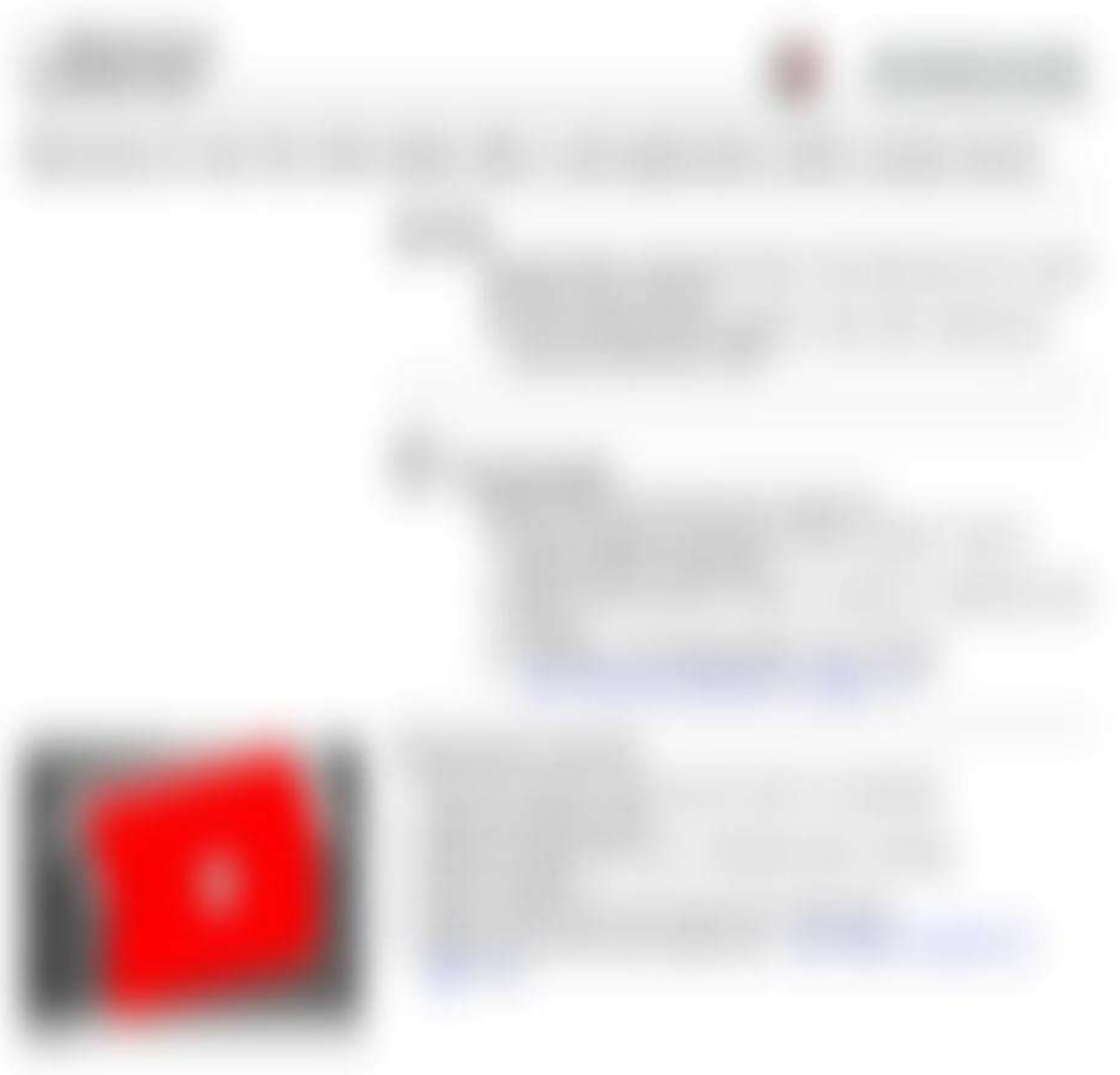
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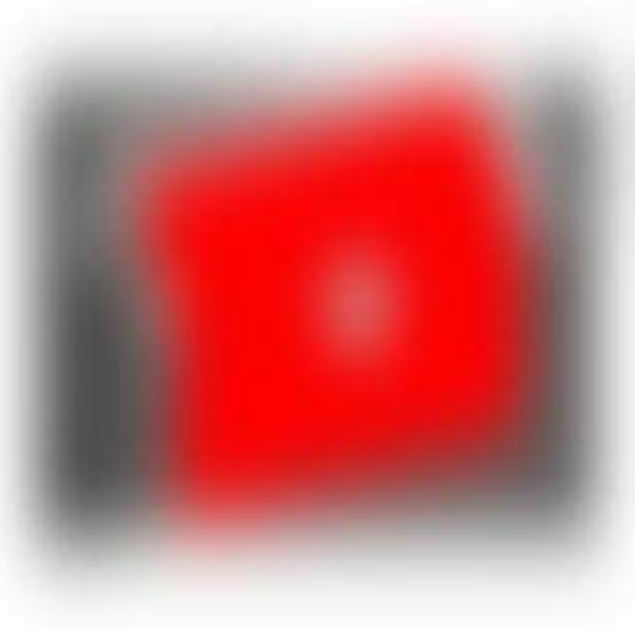


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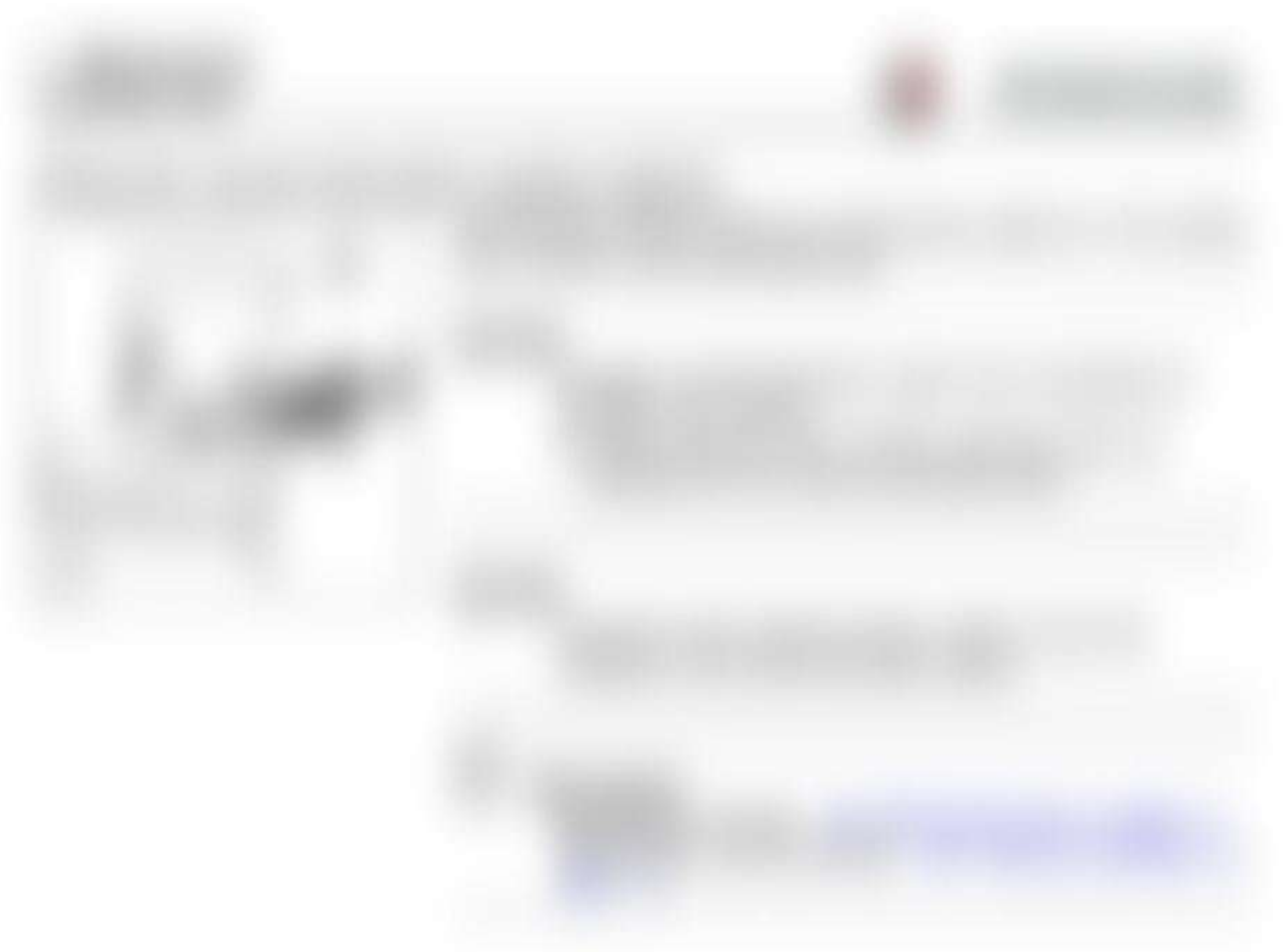
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Blurred text block containing illegible information, possibly a description or technical details.





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PTO shaft assembly



PTO shaft assembly



PTO shaft assembly

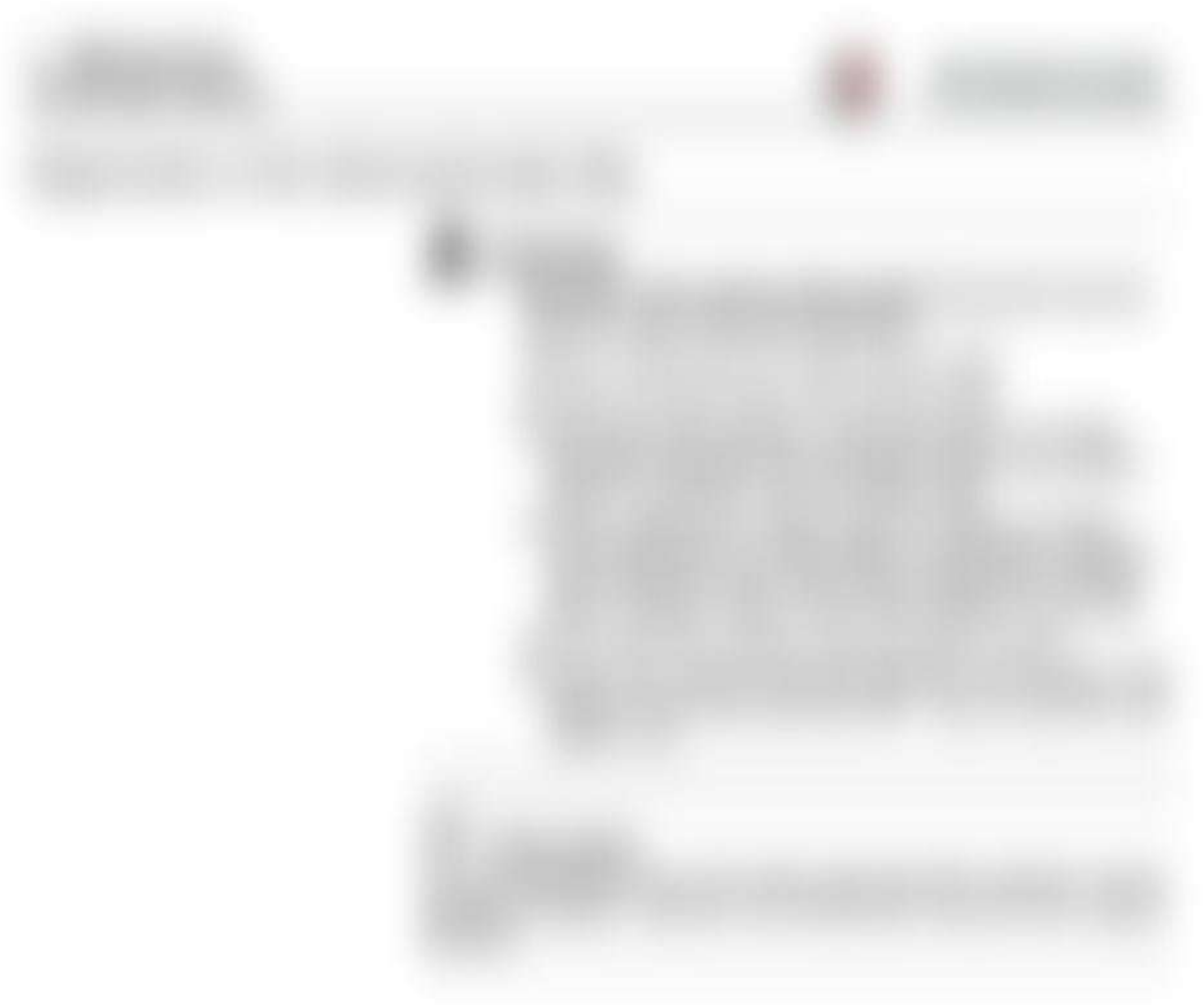




Navigation or menu items, mostly illegible due to blurring.



Main body of text, consisting of several paragraphs that are completely illegible due to extreme blurring.





Section 1

Section 2

Section 3

Section 4

Section 5

Section 6

Section 7

Section 8

Section 9

Section 10

Section 11

Section 12

Section 13

Section 14

Section 15

Section 16

Section 17

Section 18

Section 19

Section 20

Section 21

Section 22

Section 23

Section 24

Section 25

Section 26

Section 27

Section 28

Section 29

Section 30

Section 31

Section 32

Section 33

Section 34

Section 35

Section 36

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Section 41

Section 42

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Section 46

Section 47

Section 48

Section 49

Section 50





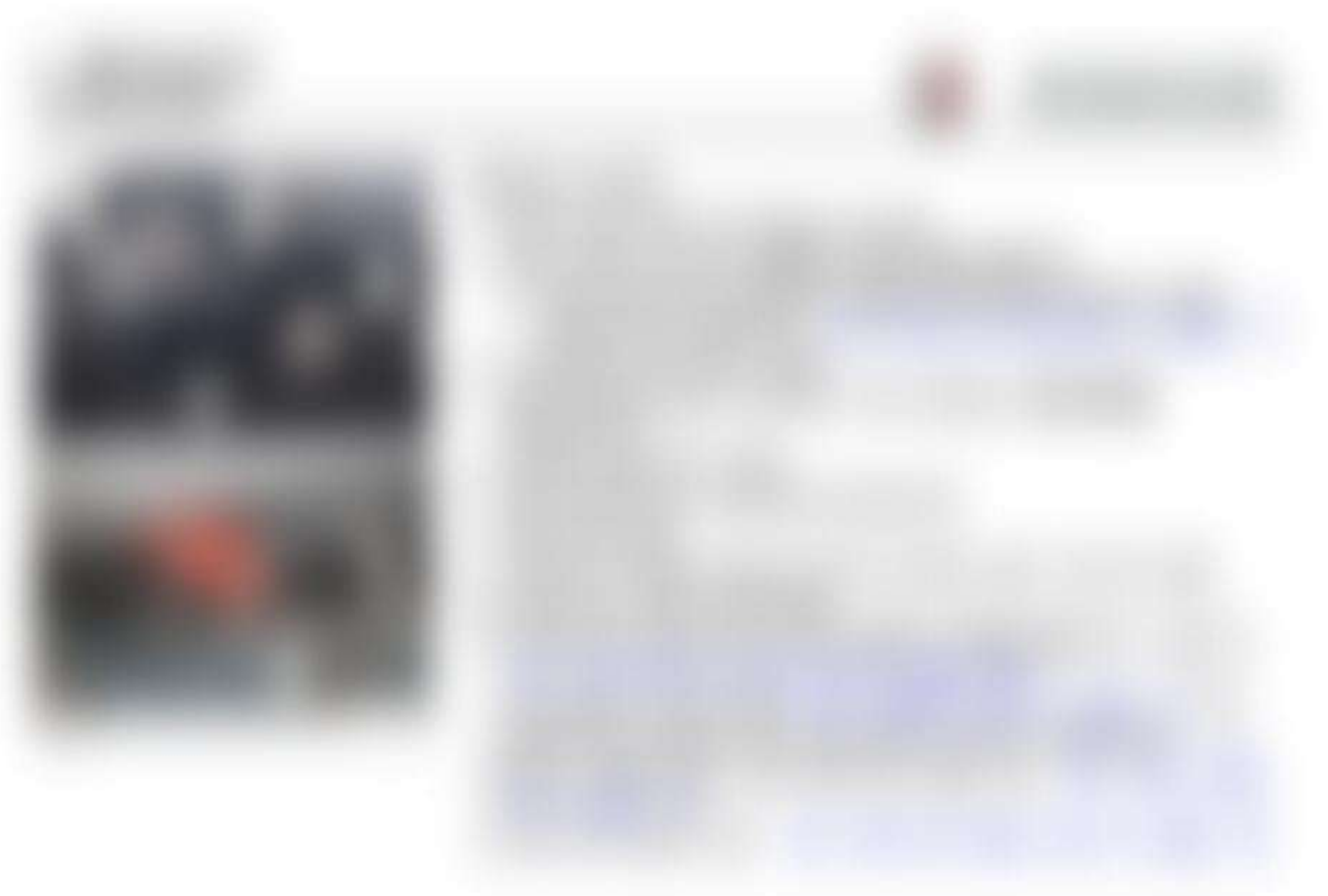
Main content area containing several blurred images and text blocks, likely representing a list of items or a detailed description.



Top section of the page containing several lines of blurred text.



Main body of the page containing multiple paragraphs of blurred text.



Main body of text, consisting of several paragraphs. A blue horizontal bar highlights a section of text in the middle of the page.



Continuation of the main body text, located below the blue highlighted section. The text is arranged in a standard columnar format.



Blurred text content, likely a list or table of items.





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1. Introduction

2. Description of the component

3. Technical specifications

4. Installation and operation

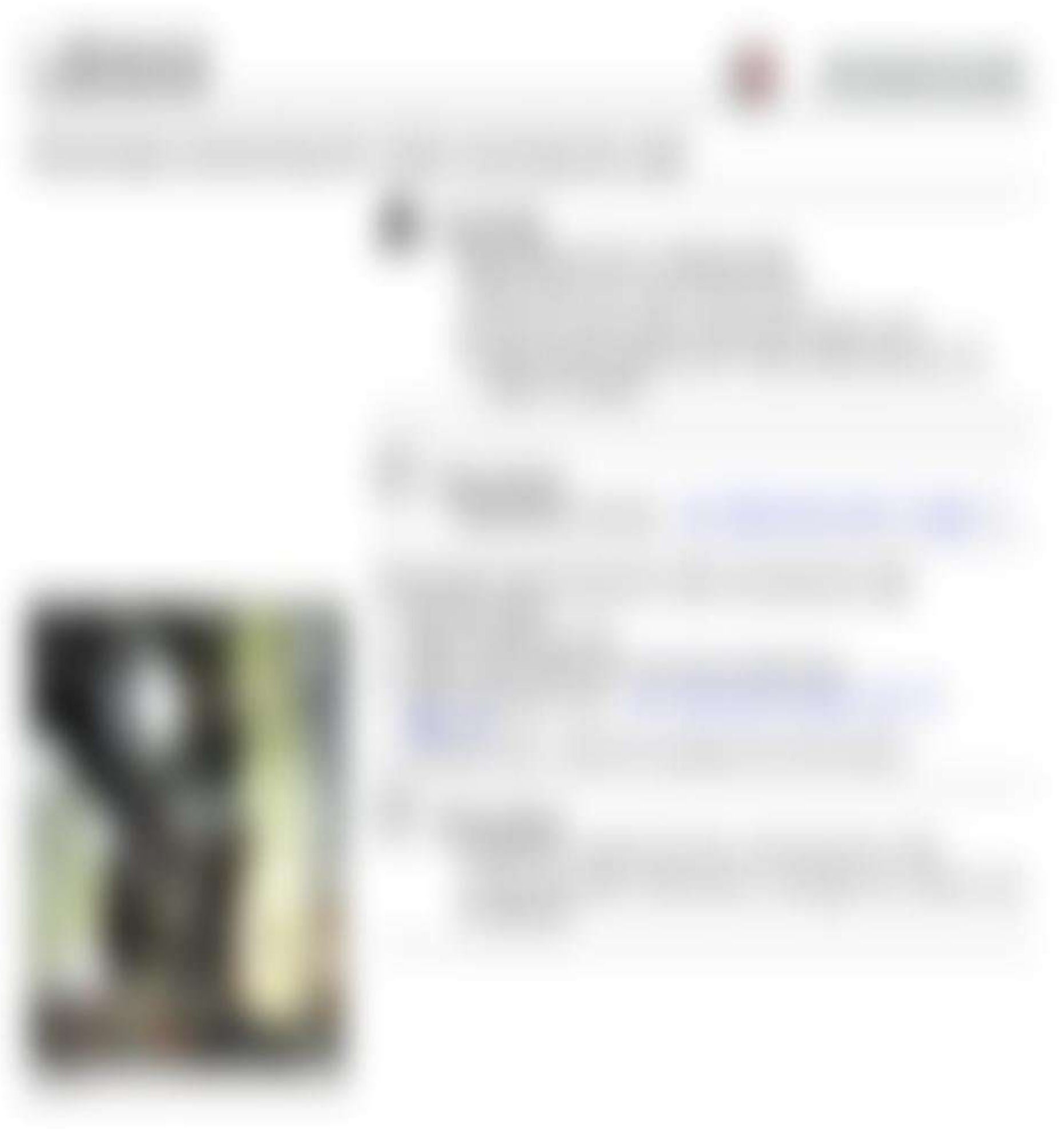
5. Maintenance and troubleshooting

6. Conclusion



Main content area containing several paragraphs of text, likely a news article or report. The text is heavily blurred and illegible.









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Top section of the page containing introductory text or a main heading.



Main body of the page containing several paragraphs of text, likely the primary content of the article or document.

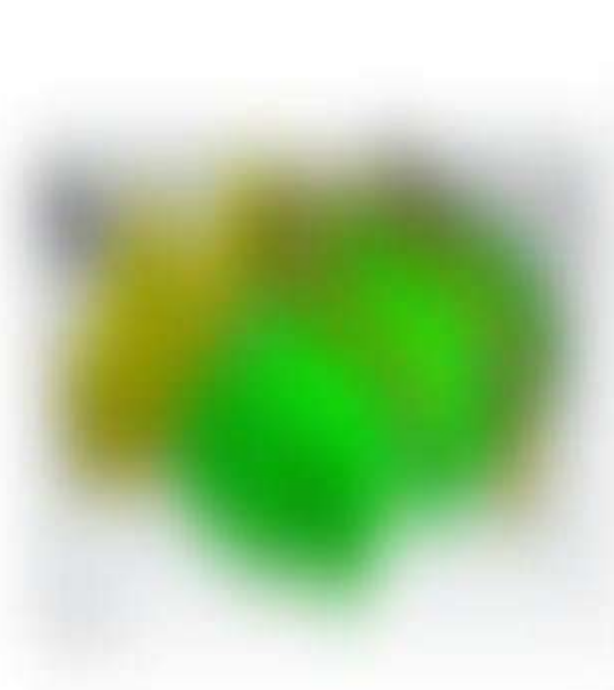
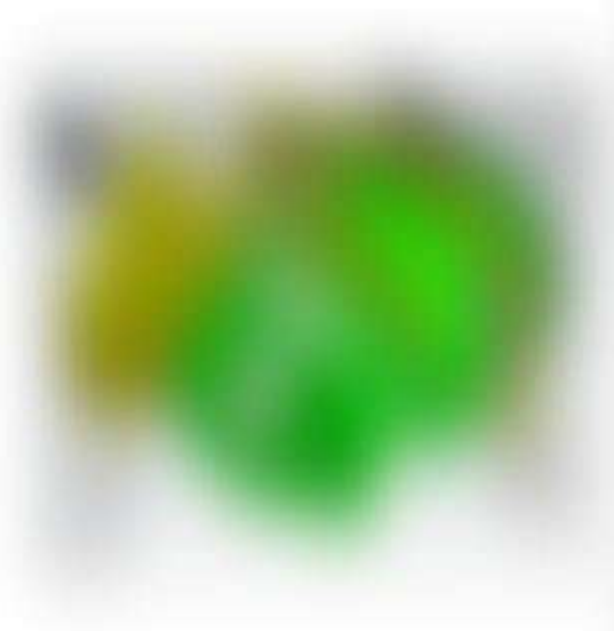






Diagram illustrating the components of a tractor's engine system. The diagram shows a cross-section of the engine block with various parts labeled. The labels include: Piston, Connecting Rod, Crankshaft, Flywheel, Oil Pan, and Valve Train. The diagram is a technical drawing showing the internal components of the engine.

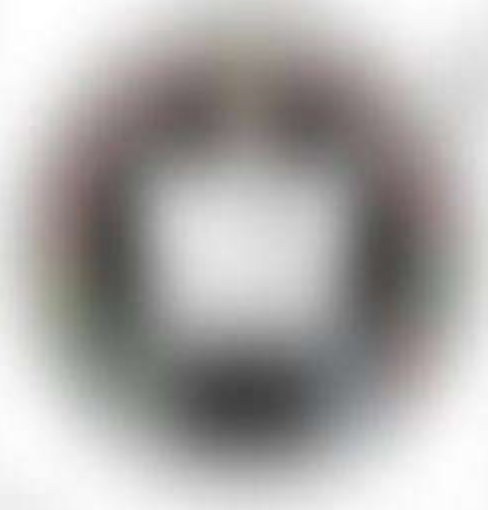
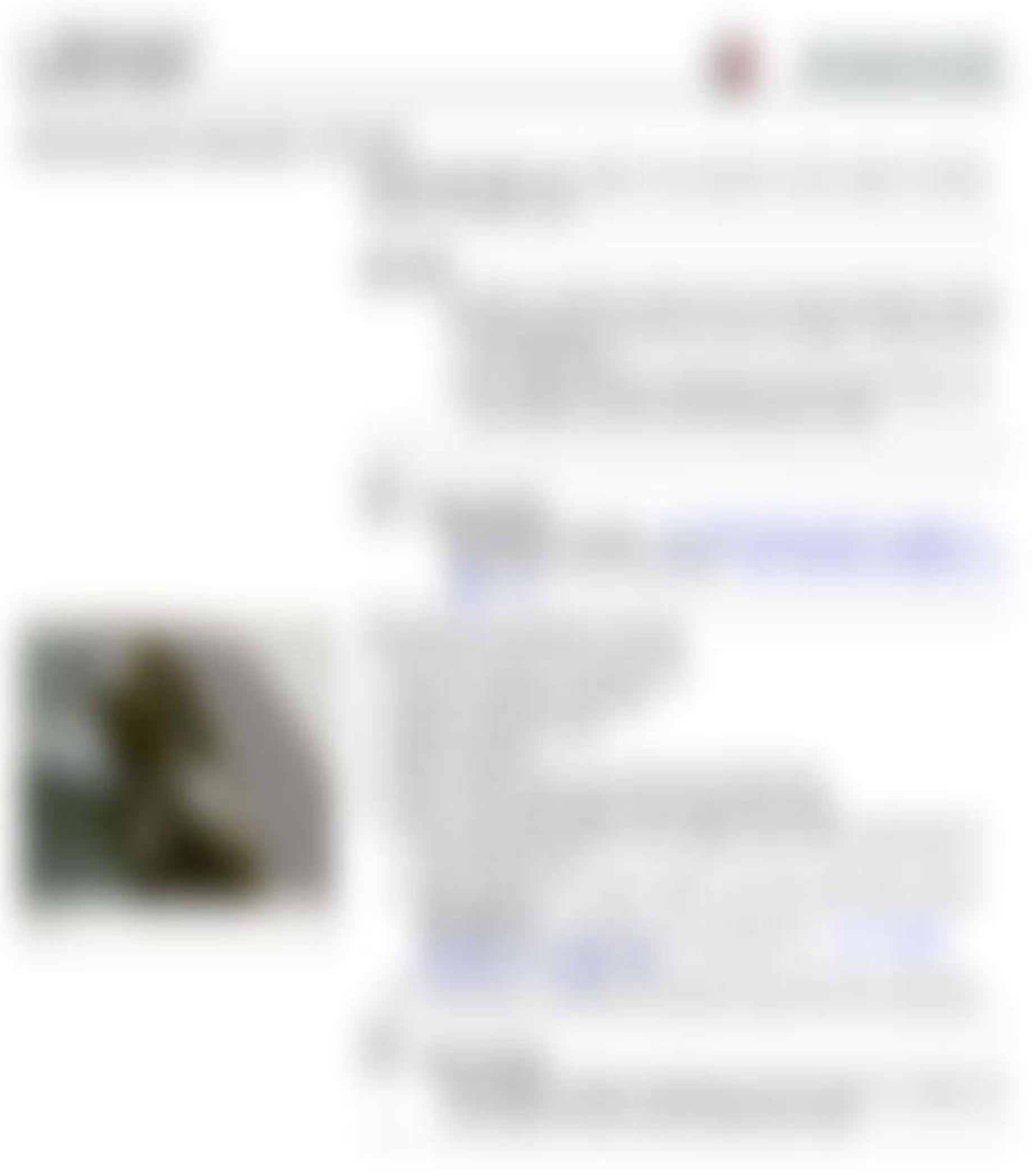


Diagram illustrating the components of a tractor's transmission system. The diagram shows a cross-section of the transmission housing with various parts labeled. The labels include: Input Shaft, Output Shaft, Gear Set, Clutch, and Shaft. The diagram is a technical drawing showing the internal components of the transmission.







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Tractor Manualz

Tractor Manualz

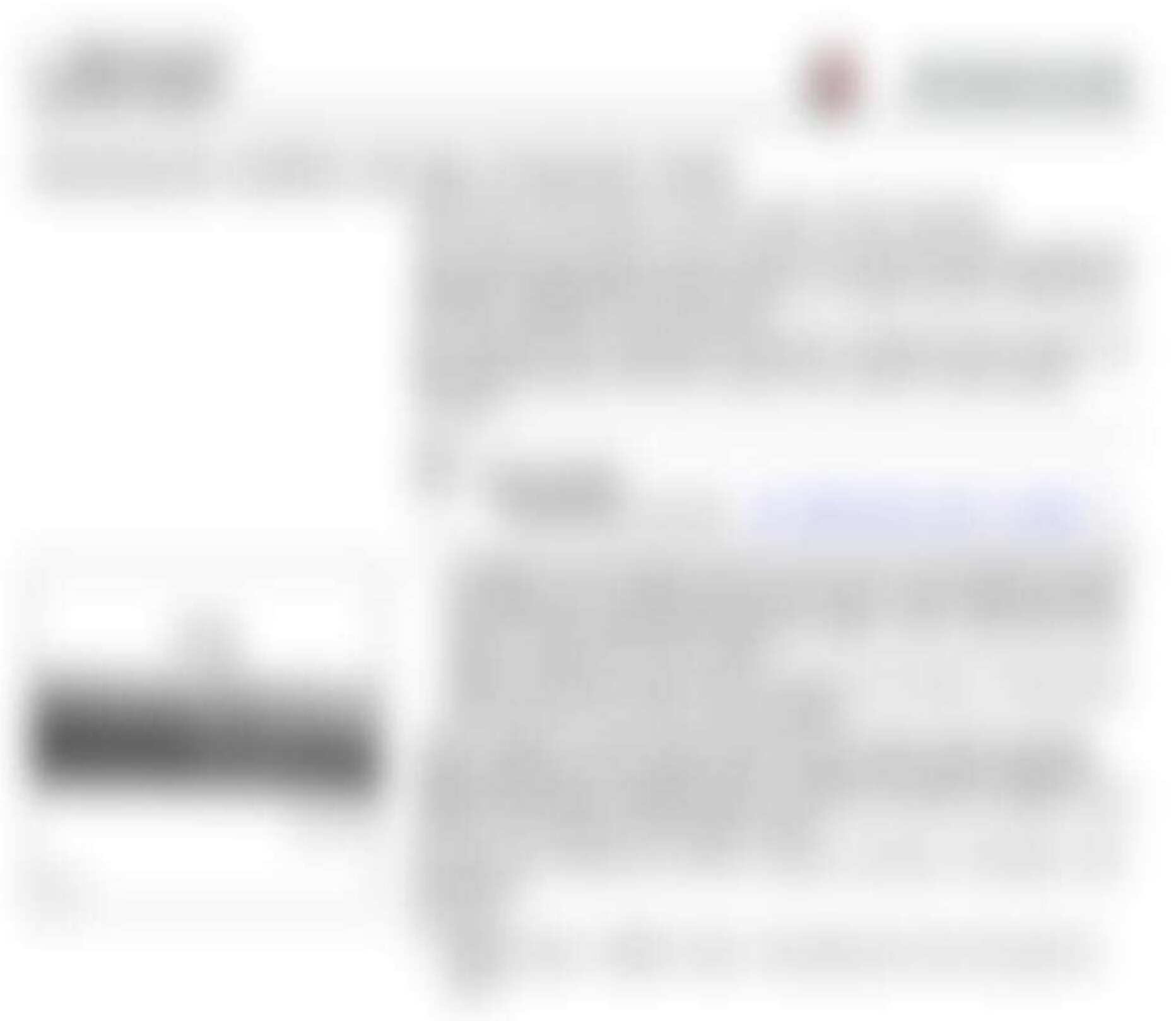
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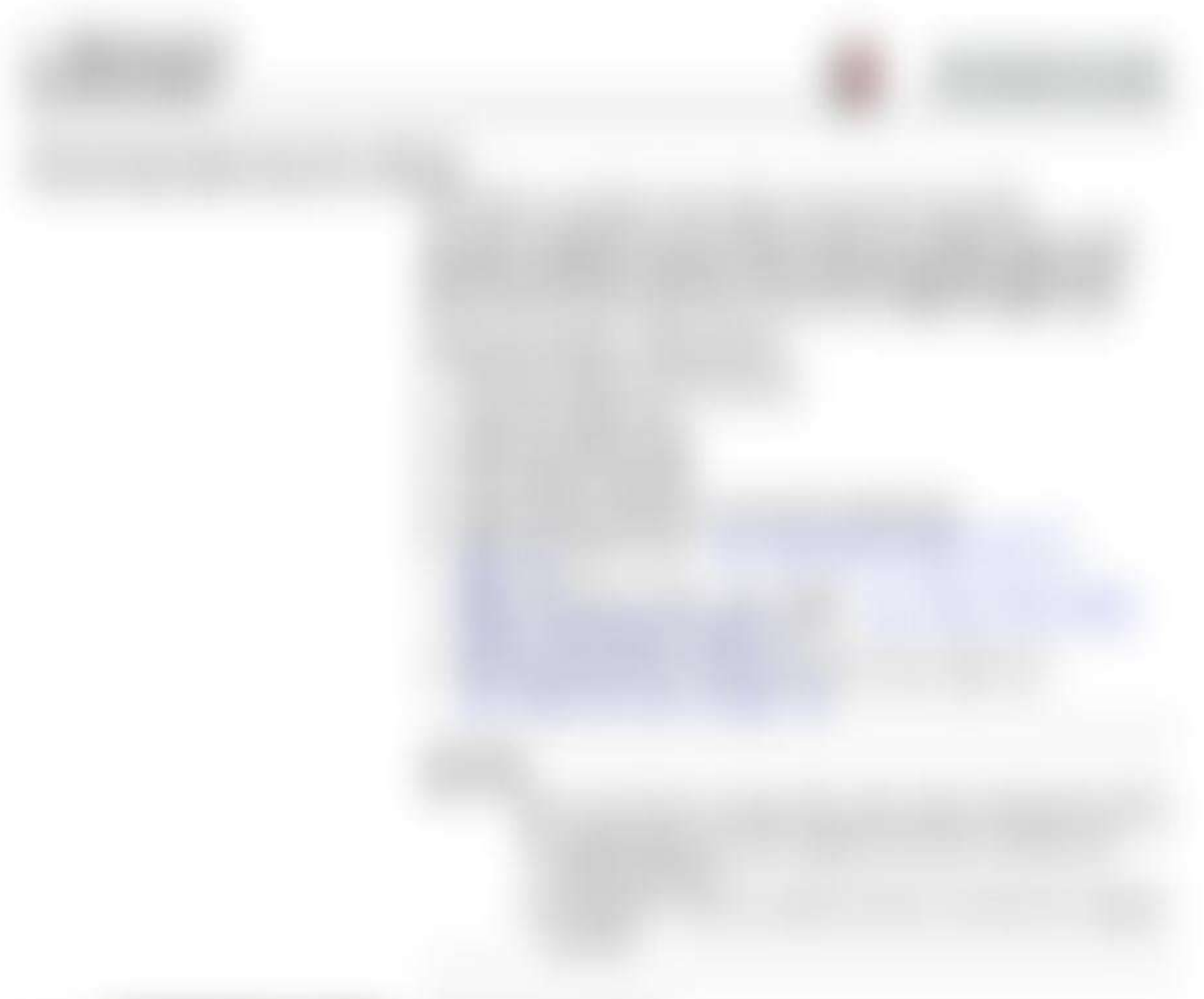
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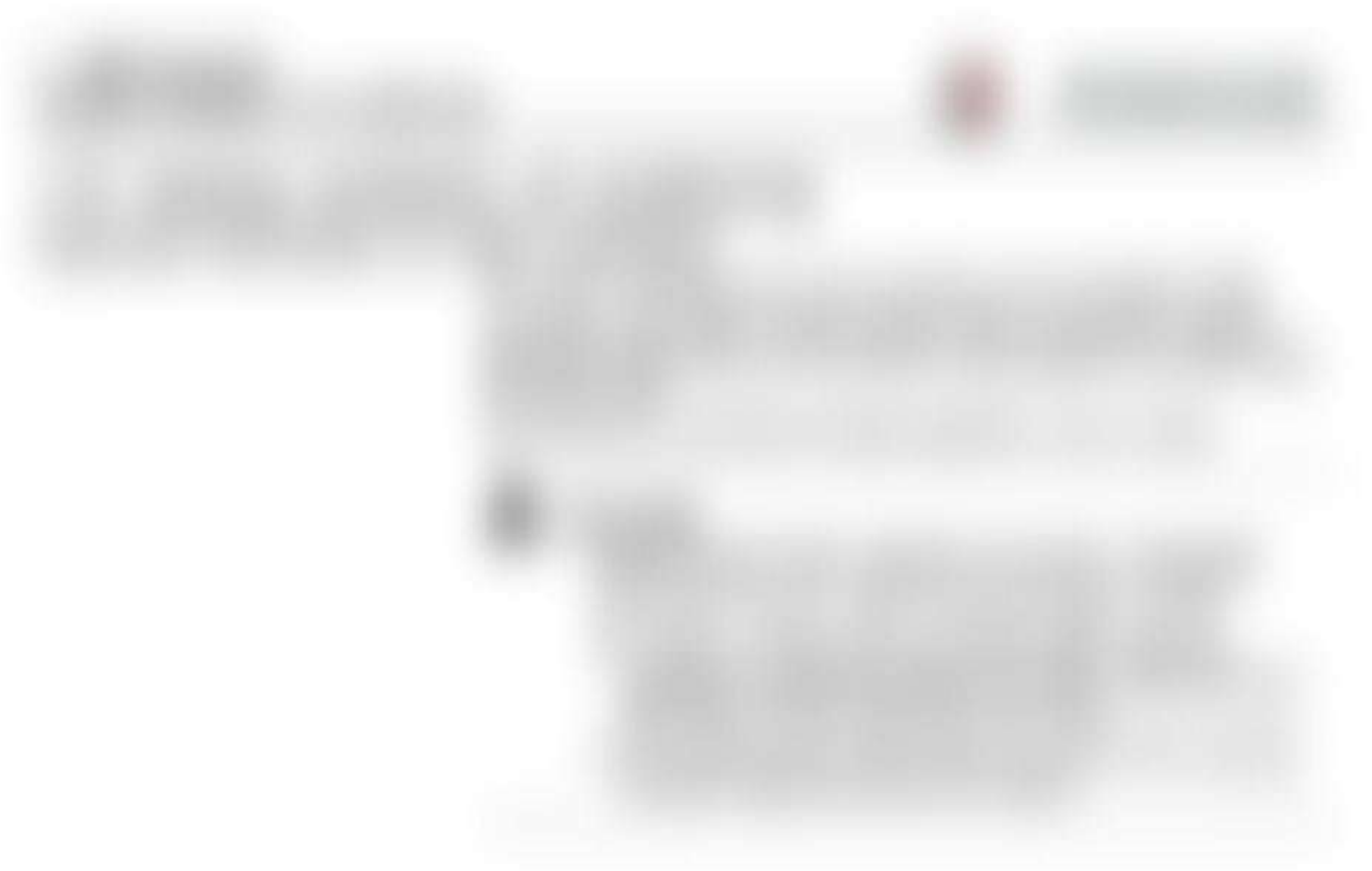
Technical description of the engine, including specifications, performance data, and maintenance instructions. The text is organized into paragraphs and includes a table of specifications.

Parameter	Value
Displacement	1.8 L
Power	15 HP
Speed	2000 RPM
Weight	120 kg



Technical description of the transmission, including specifications, performance data, and maintenance instructions. The text is organized into paragraphs and includes a table of specifications.

Parameter	Value
Gear Ratio	1:1
Weight	80 kg
Material	Steel



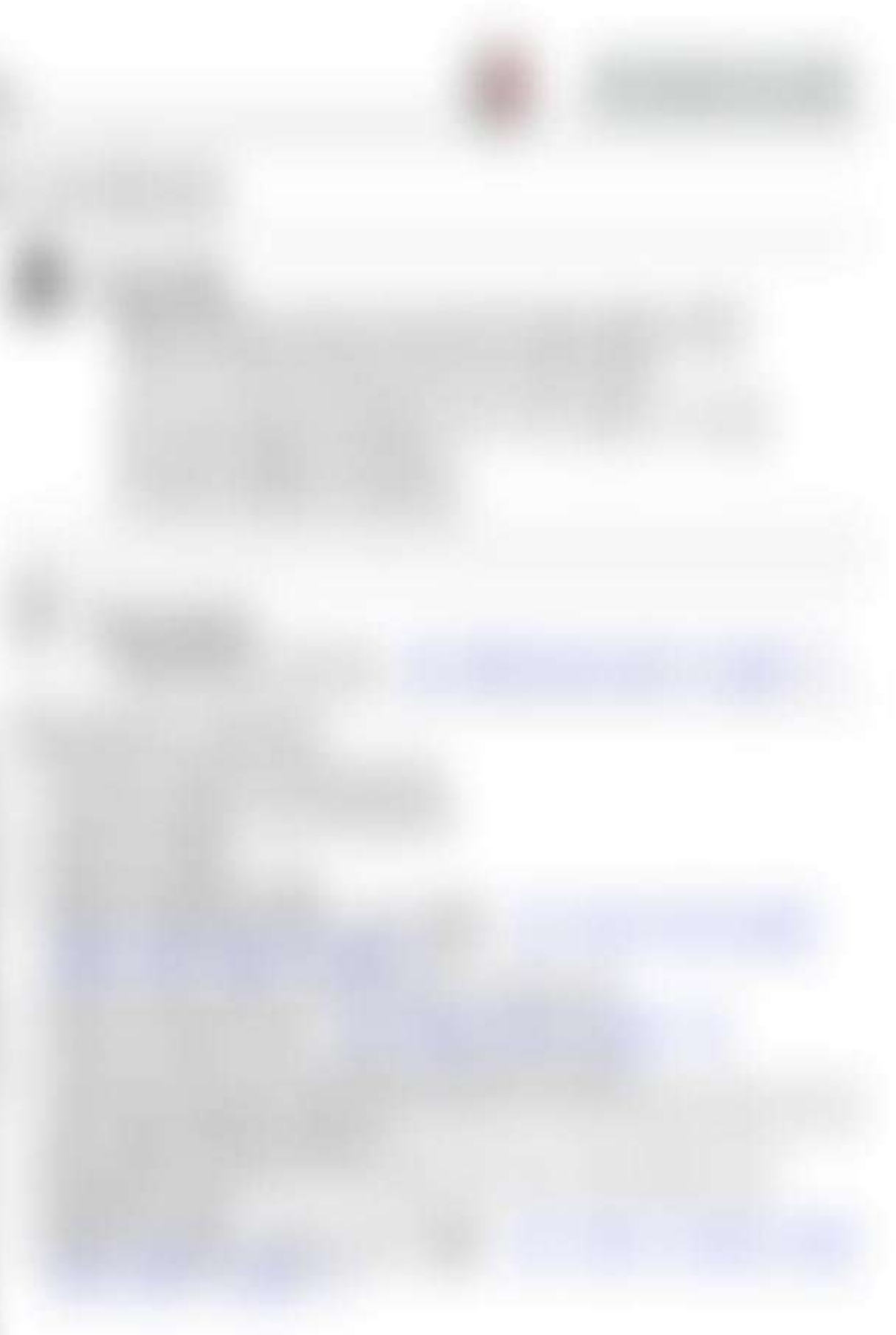


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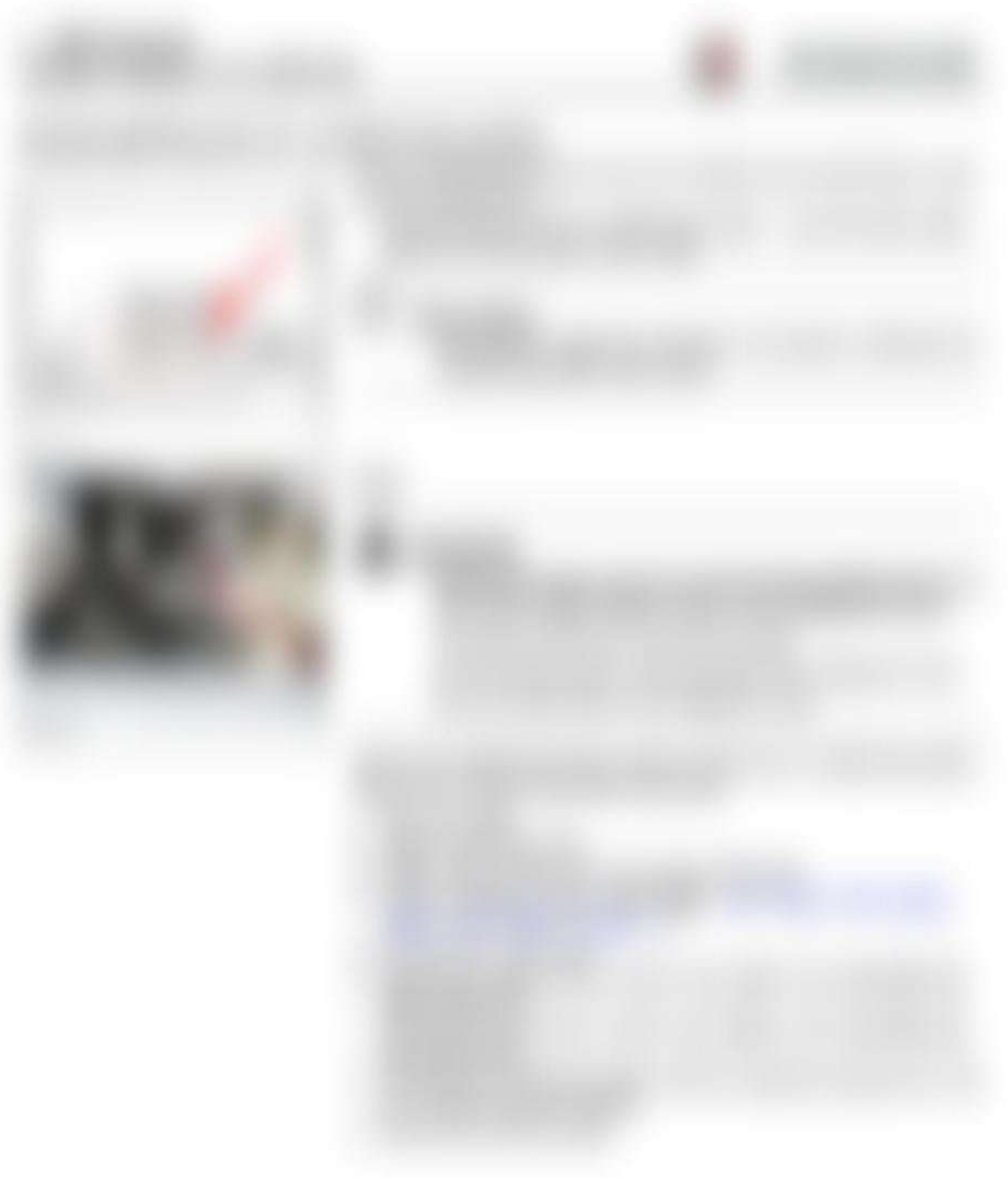
















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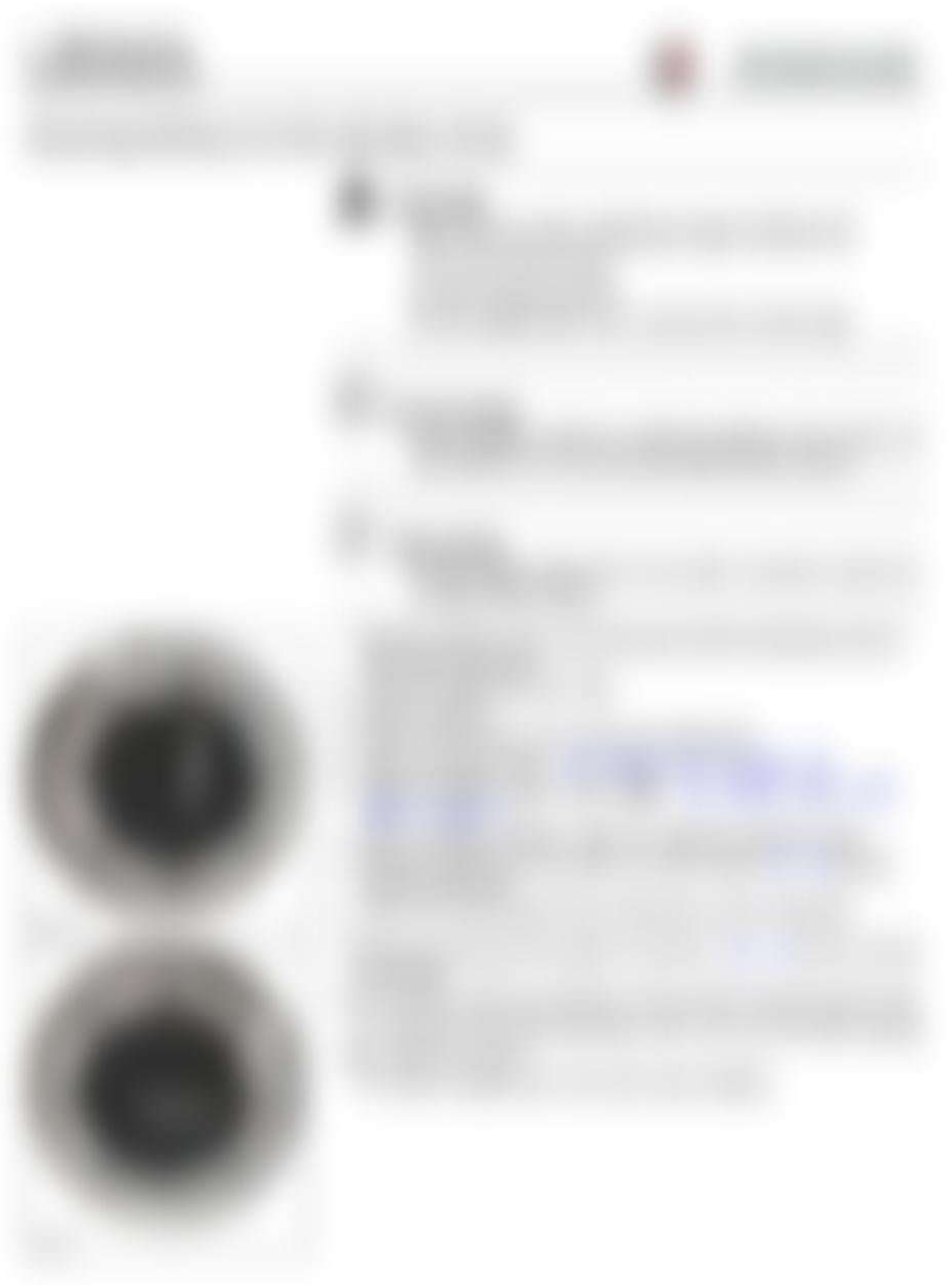






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1. The first step is to identify the problem. In this case, the problem is that the engine is not starting. There are several possible causes for this problem, including a dead battery, a faulty spark plug, or a clogged fuel filter. The first step is to check the battery. If the battery is dead, it should be recharged or replaced. If the battery is good, the next step is to check the spark plug. If the spark plug is faulty, it should be replaced. If the spark plug is good, the next step is to check the fuel filter. If the fuel filter is clogged, it should be replaced.



2. The second step is to check the fuel filter. The fuel filter is located in the fuel line between the fuel tank and the engine. It is responsible for filtering out any dirt or debris that may be in the fuel. If the fuel filter is clogged, it will prevent fuel from reaching the engine, which will cause the engine to not start. To check the fuel filter, you will need to remove it from the fuel line. Once removed, you can inspect it for any signs of clogging. If the filter is clogged, it should be replaced.

3. The third step is to check the spark plug. The spark plug is responsible for igniting the fuel in the combustion chamber. If the spark plug is faulty, it will not be able to ignite the fuel, which will cause the engine to not start. To check the spark plug, you will need to remove it from the engine. Once removed, you can inspect it for any signs of wear or damage. If the spark plug is faulty, it should be replaced.









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The text in this section is completely illegible due to extreme blurring. It appears to be a paragraph of text, possibly describing the tractor or the equipment shown in the images.



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Section 1: Introduction to the manual, covering the scope and purpose of the document.

Section 2: Safety instructions and warnings, detailing the necessary precautions for handling the equipment.

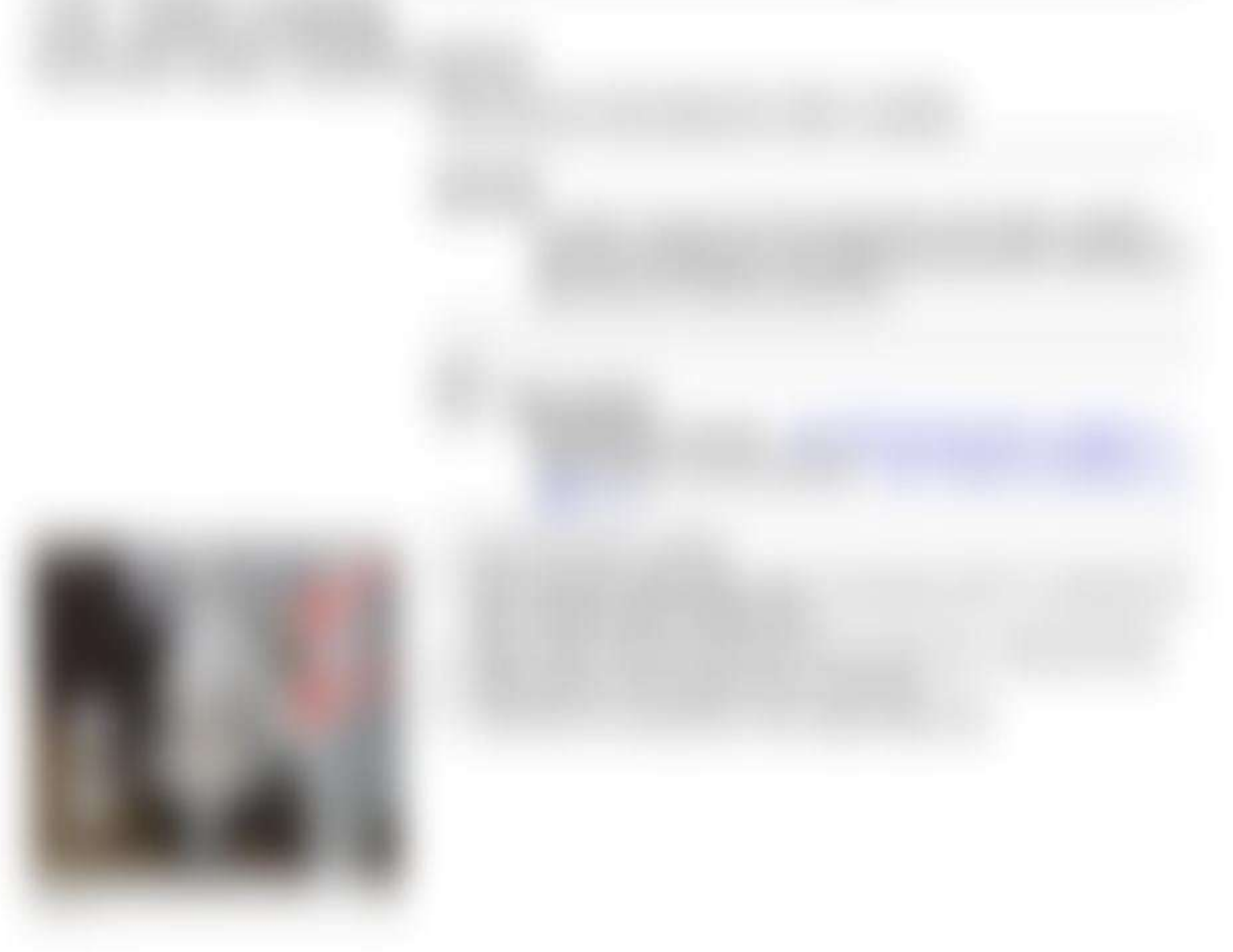
Section 3: Operation instructions, providing a step-by-step guide on how to use the machine.

Section 4: Maintenance and troubleshooting, including information on regular servicing and common problem solutions.













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1. Introduction

2. Objectives

3. Methodology

4. Results

5. Discussion

6. Conclusion



7. Appendix

8. References

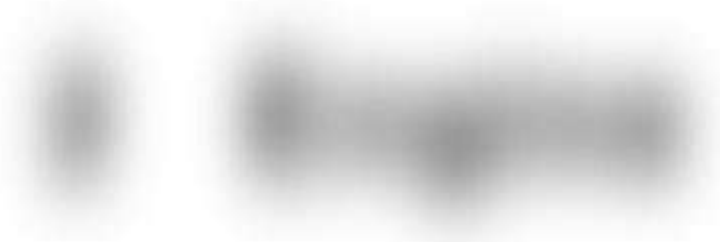
9. Acknowledgments

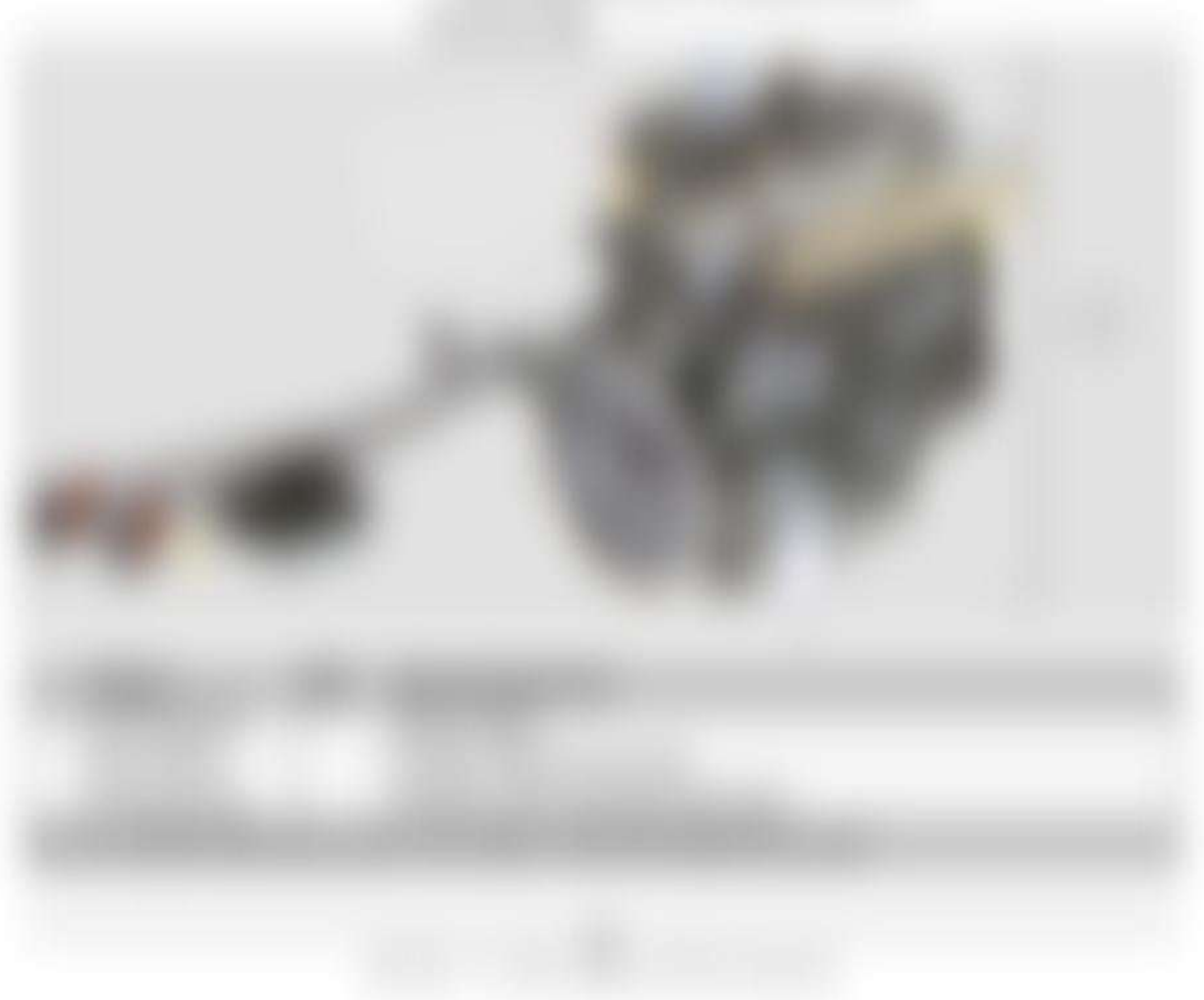
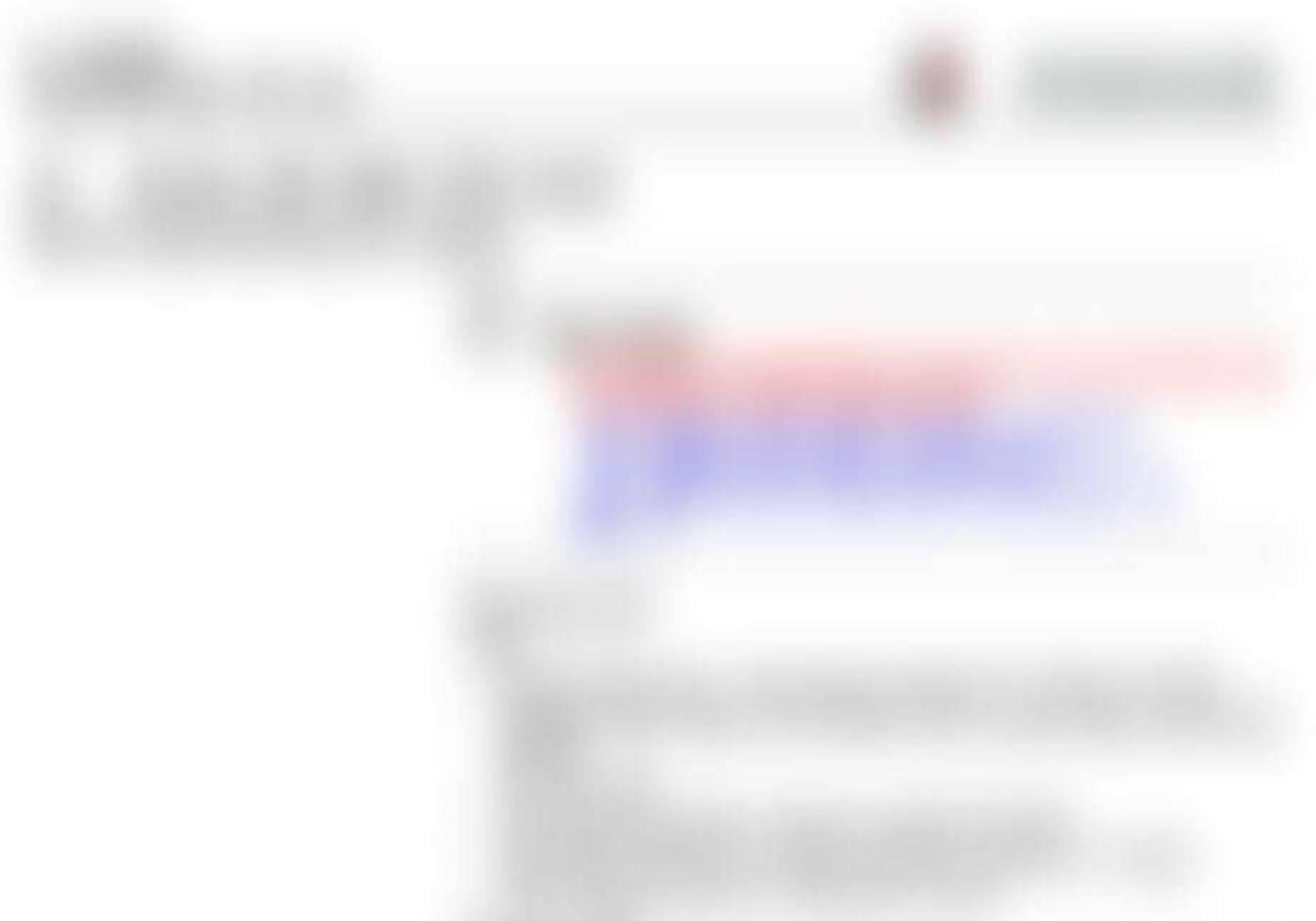
10. Contact Information

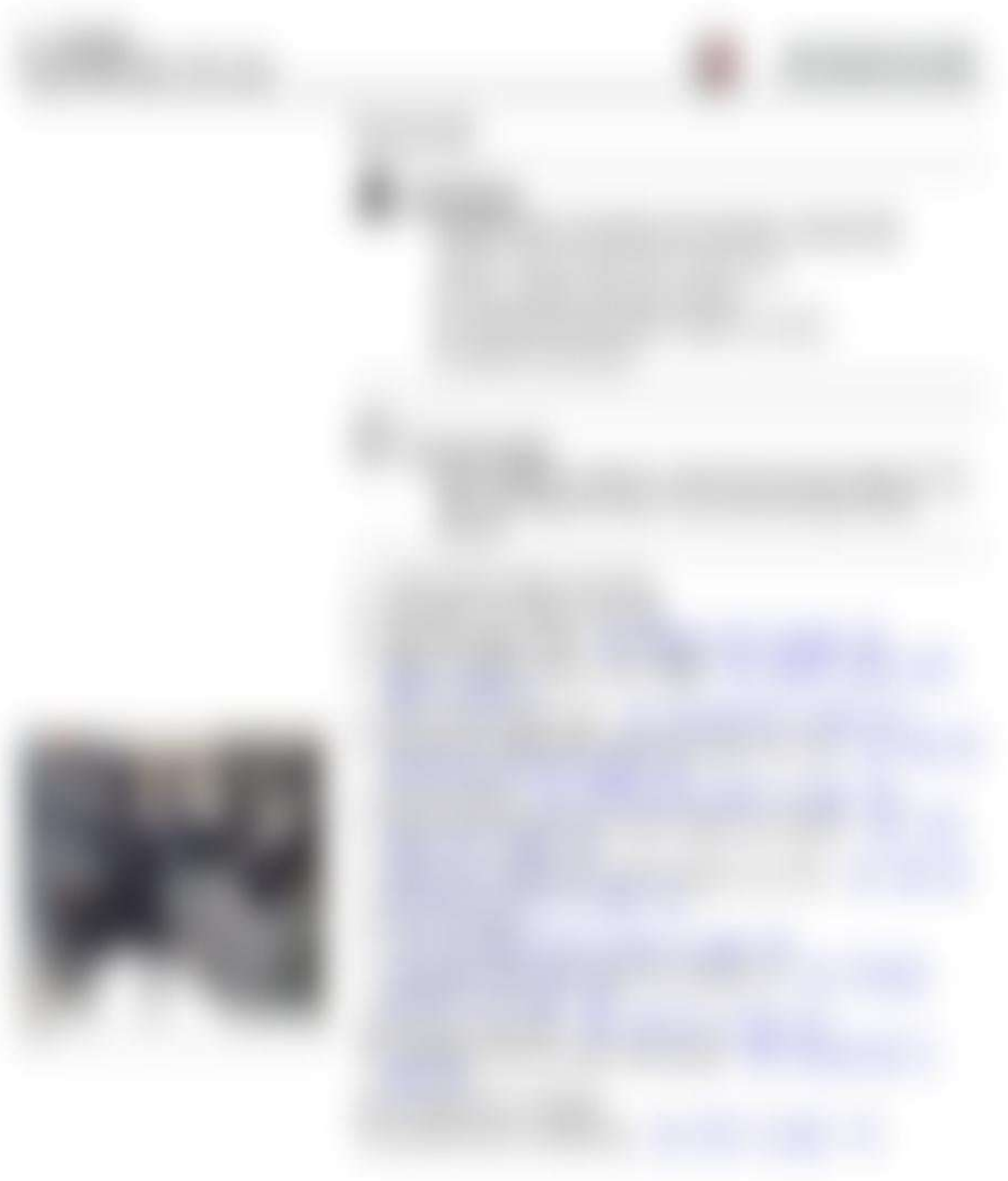














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1. The radiator fan is driven by the engine belt. The fan is used to cool the radiator. The fan is located at the front of the engine compartment.

2. The radiator is located at the front of the engine compartment. The radiator is used to cool the engine. The radiator is located at the front of the engine compartment.

3. The water pump is located at the front of the engine compartment. The water pump is used to circulate the coolant. The water pump is located at the front of the engine compartment.

4. The thermostat is located at the front of the engine compartment. The thermostat is used to regulate the flow of coolant. The thermostat is located at the front of the engine compartment.

5. The coolant reservoir is located at the front of the engine compartment. The coolant reservoir is used to store the coolant. The coolant reservoir is located at the front of the engine compartment.





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Tractor Manualz

Tractor Manualz is a website that provides free access to tractor manuals for various brands and models. The website is designed to be user-friendly and easy to navigate, allowing users to quickly find the manual they need. The manuals are available in PDF format and can be downloaded for free.

The website features a search bar where users can enter the brand and model of their tractor. The search results will display a list of manuals that match the criteria. Users can click on the manual to view it online or download it to their computer.

The website also offers a variety of other resources, including tractor parts catalogs, repair guides, and technical specifications. These resources are available for a wide range of tractor brands and models, making it a valuable resource for anyone who owns a tractor.

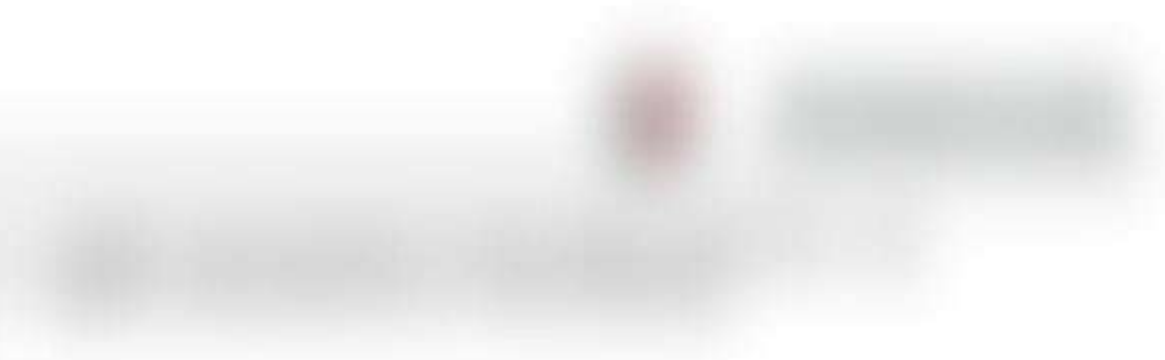
Tractor Manualz is a free website that provides a wide range of tractor manuals and resources. The website is easy to use and provides a convenient way to access the information you need. Whether you are a tractor enthusiast or a professional, Tractor Manualz is a website that you should visit regularly.

The website is updated regularly with new manuals and resources, ensuring that users have access to the most up-to-date information. The website is also available in multiple languages, making it accessible to a wider audience.

Tractor Manualz is a website that is dedicated to providing free access to tractor manuals and resources. The website is a valuable resource for anyone who owns a tractor and is looking for information on how to maintain and repair it.

The website is a free website that provides a wide range of tractor manuals and resources. The website is easy to use and provides a convenient way to access the information you need. Whether you are a tractor enthusiast or a professional, Tractor Manualz is a website that you should visit regularly.

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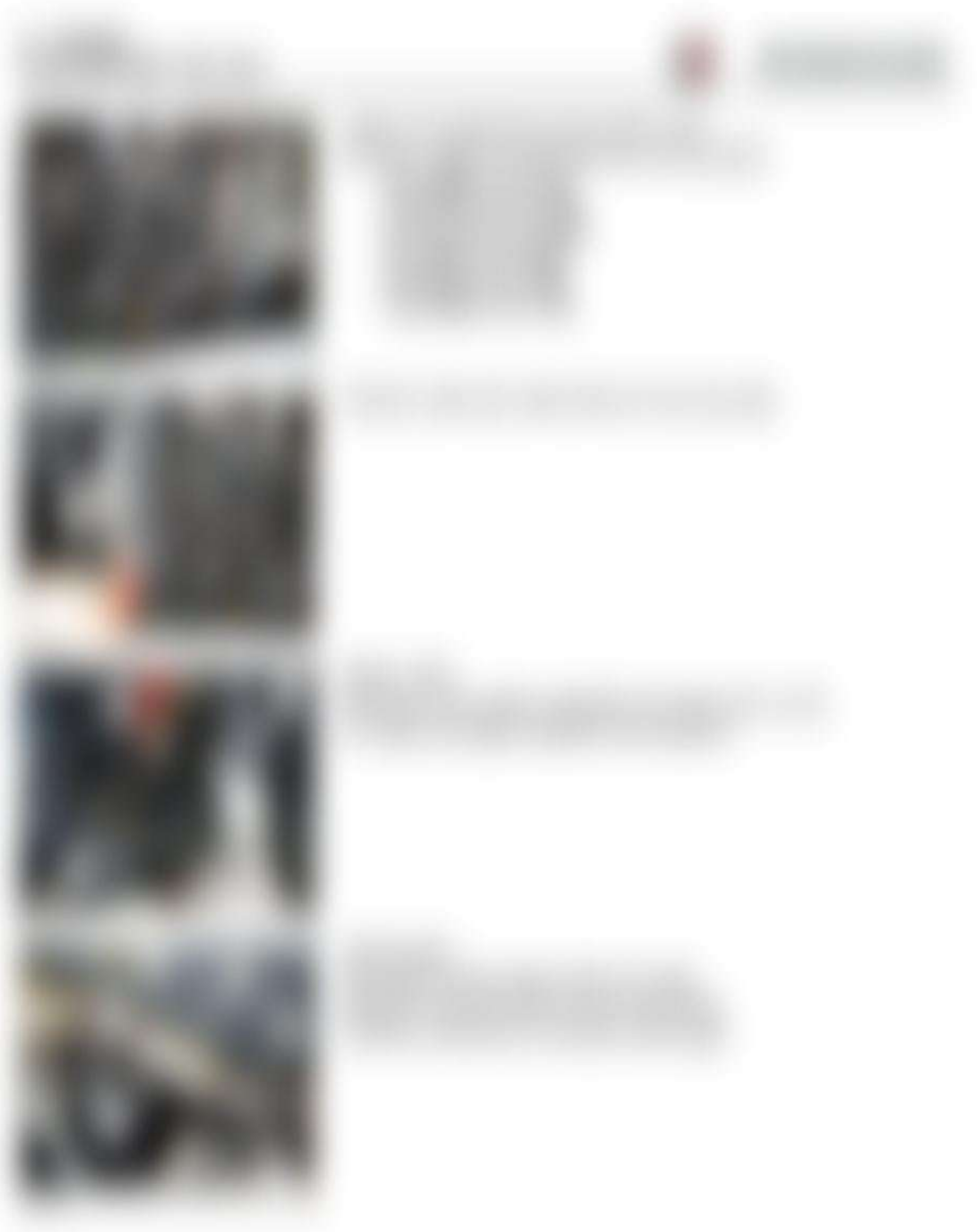
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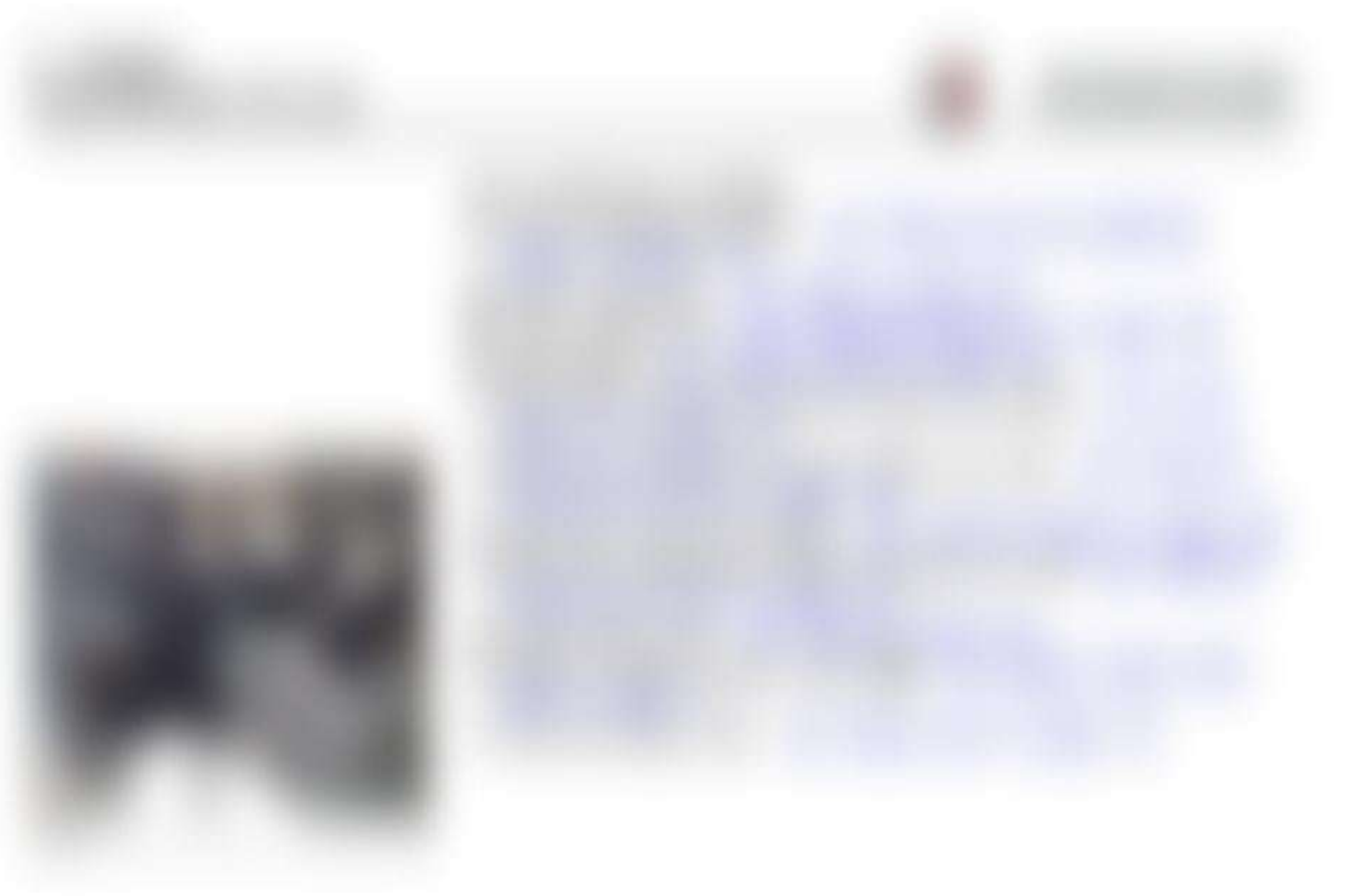
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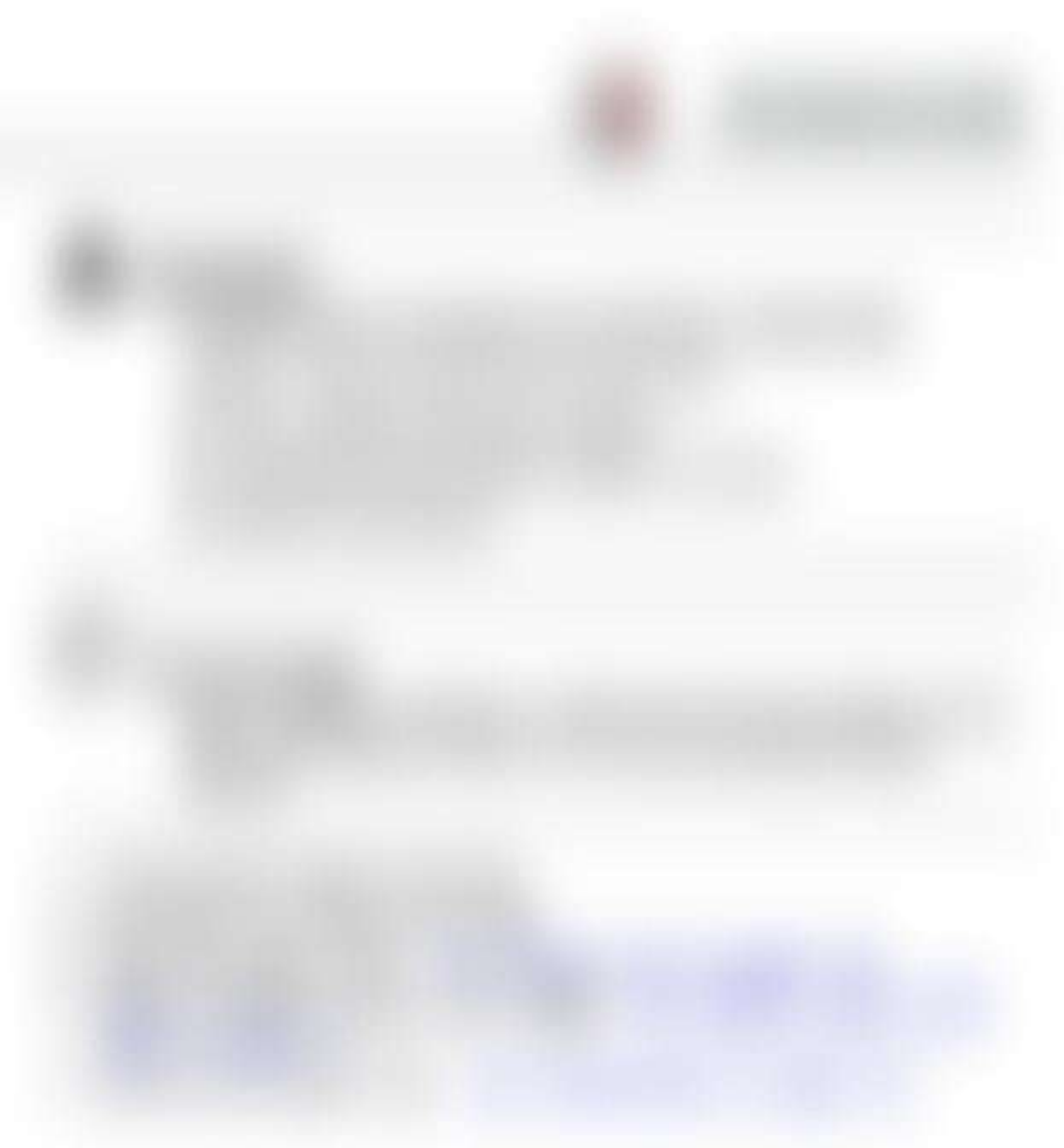
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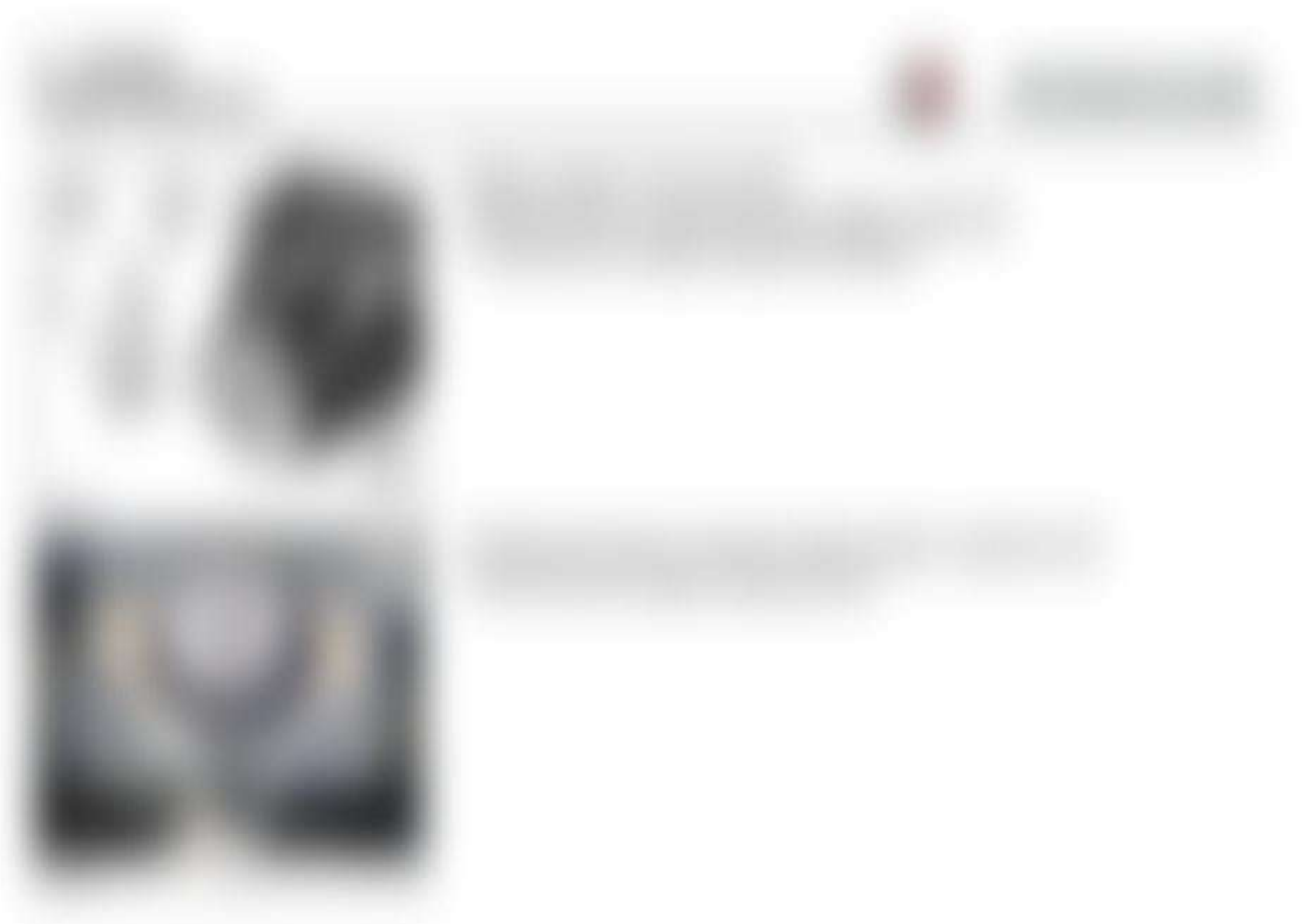
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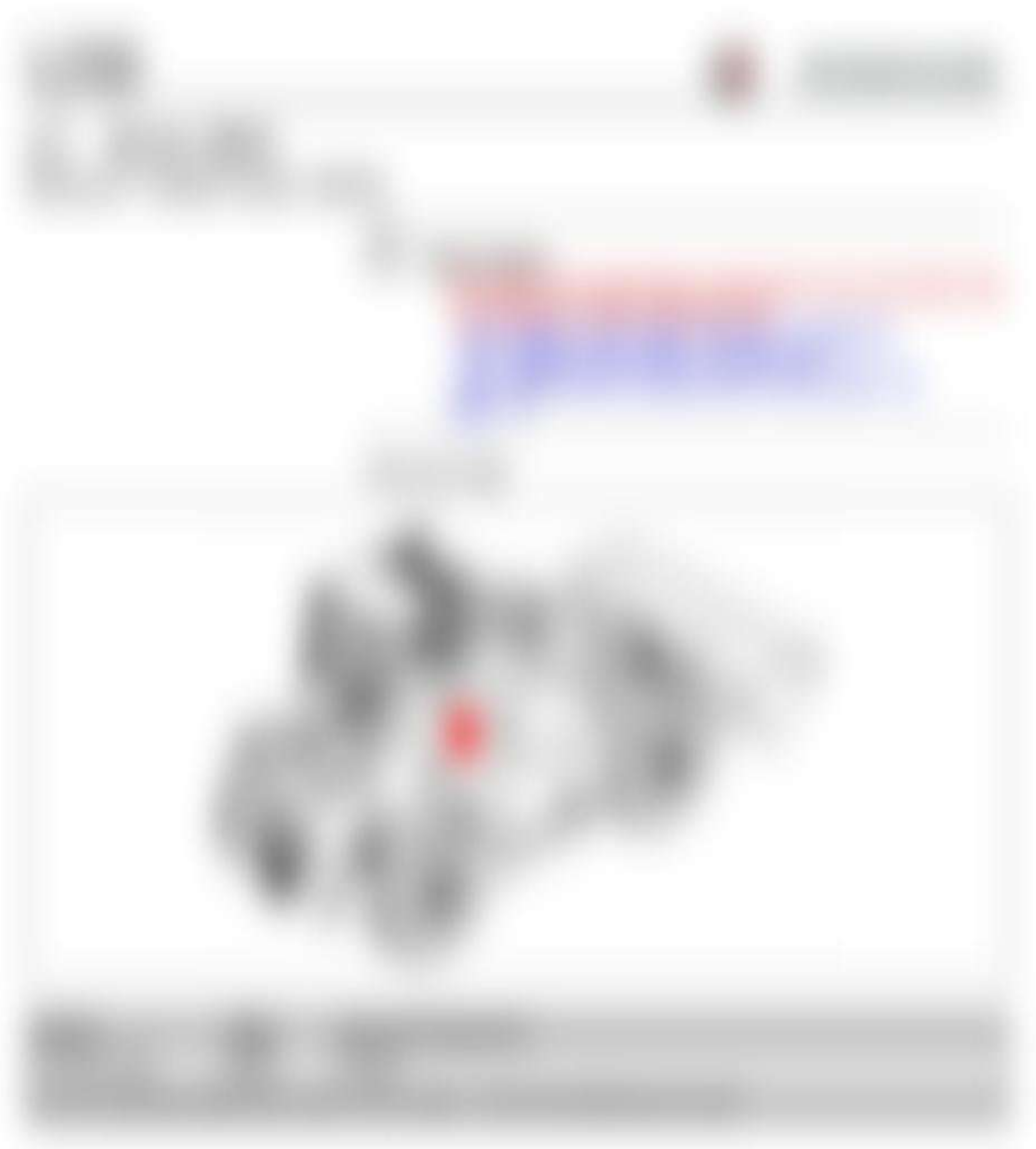
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Top section of the page containing introductory text.

Second section of text, possibly a sub-header or detailed description.

Third section of text, continuing the main content.

Fourth section of text, likely a list or detailed steps.



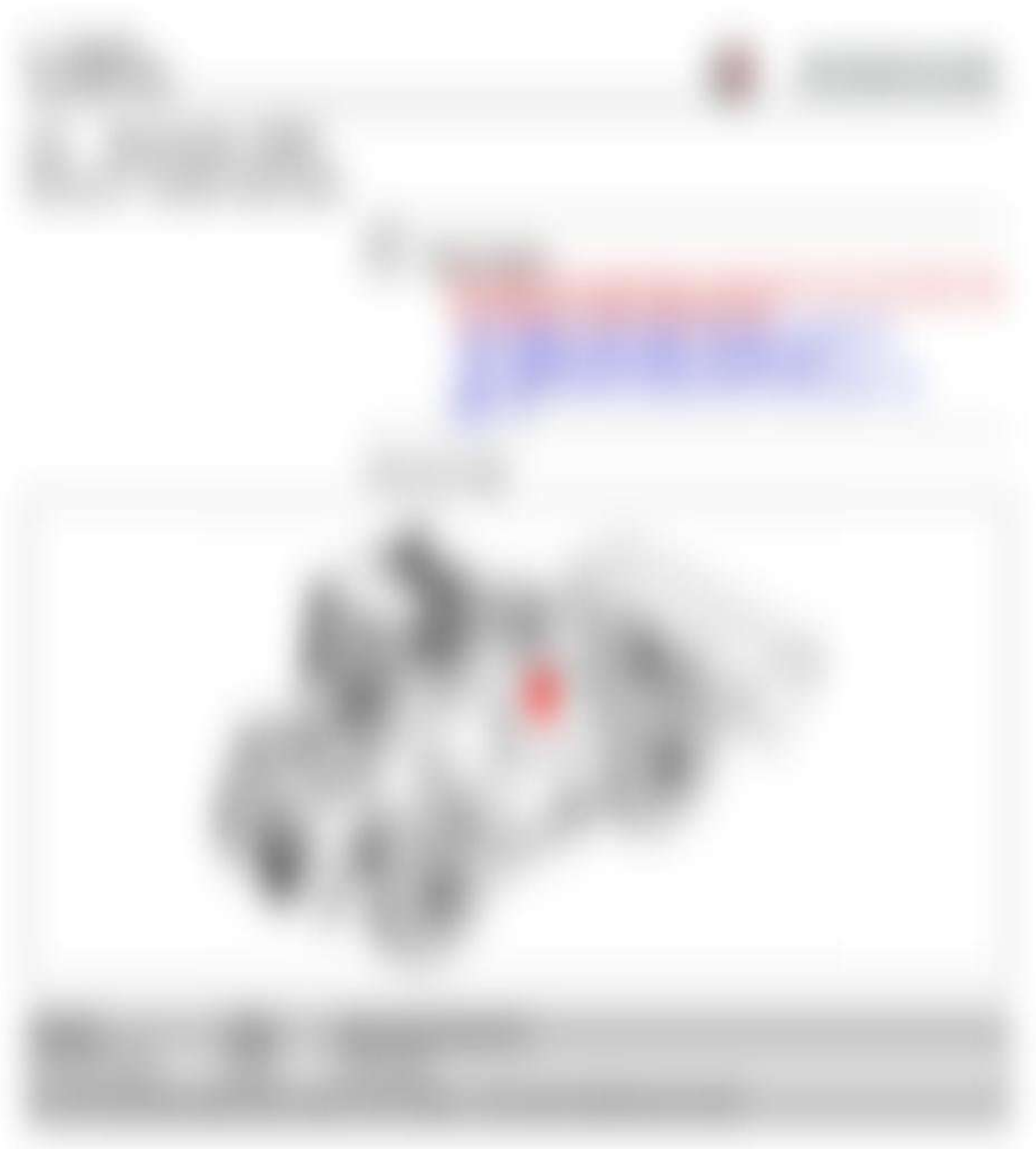


Tractor manual

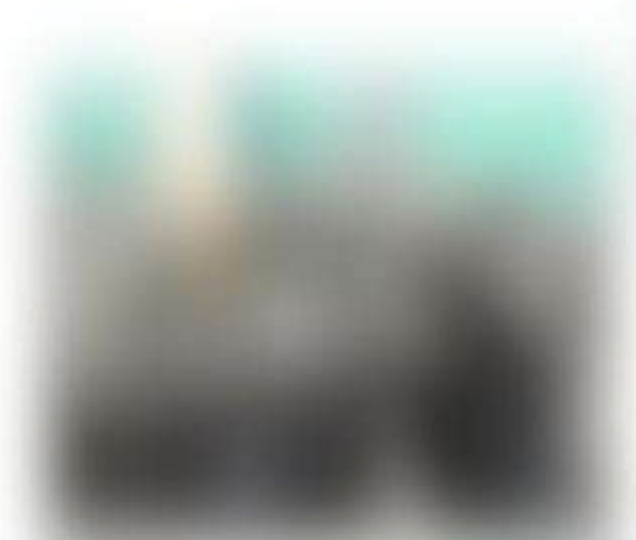
Tractor manual

Tractor manual

Tractor manual



Section 1: Introduction to the manual, covering the purpose and scope of the document.



Section 2: Safety instructions and warnings, detailing the correct use of the equipment and potential hazards.



Section 3: Maintenance procedures, including oil changes, filter replacements, and general inspection points.



Section 4: Troubleshooting guide, providing solutions for common problems and symptoms.



Section 5: Appendix, containing additional information such as technical specifications and contact details.





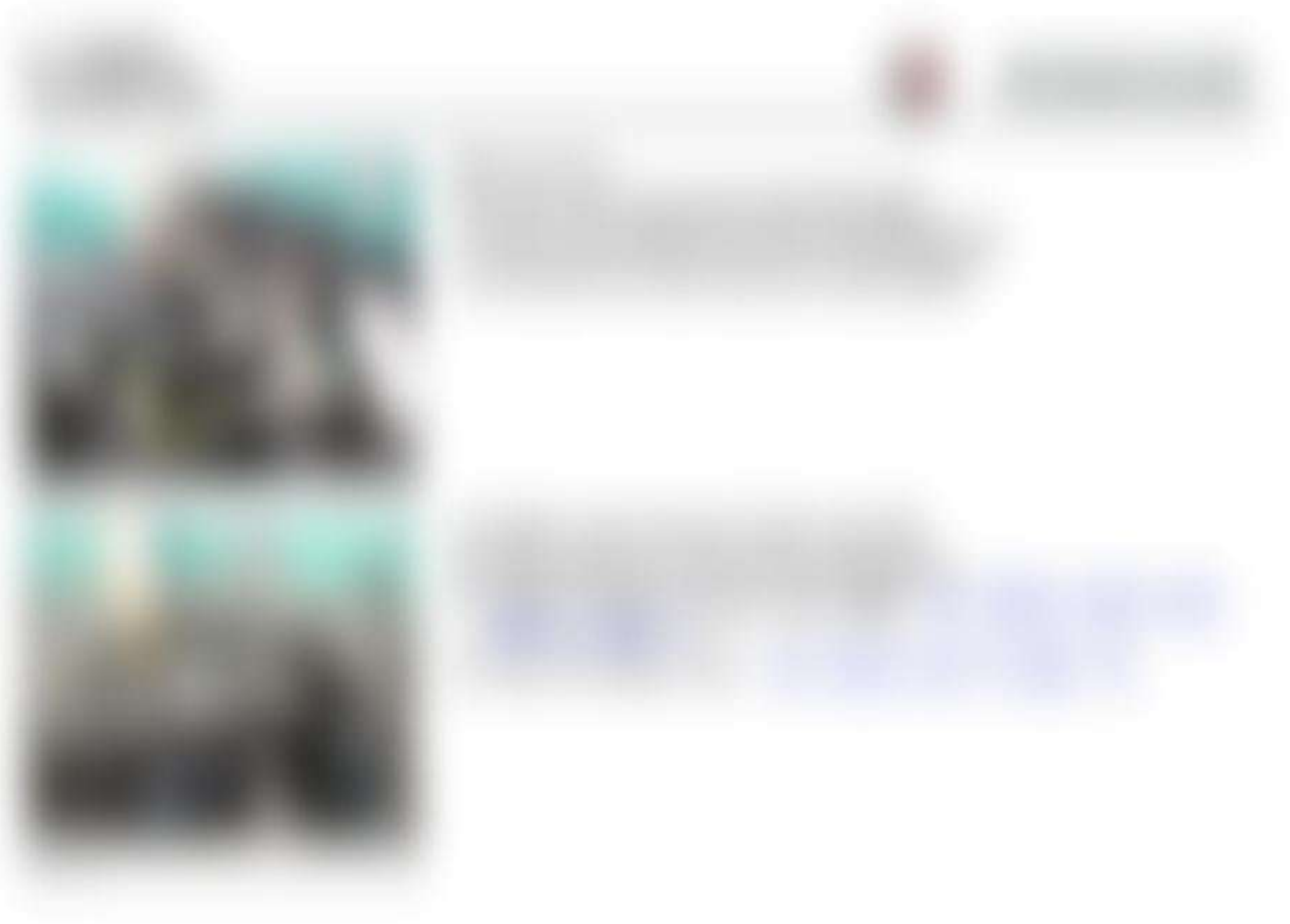
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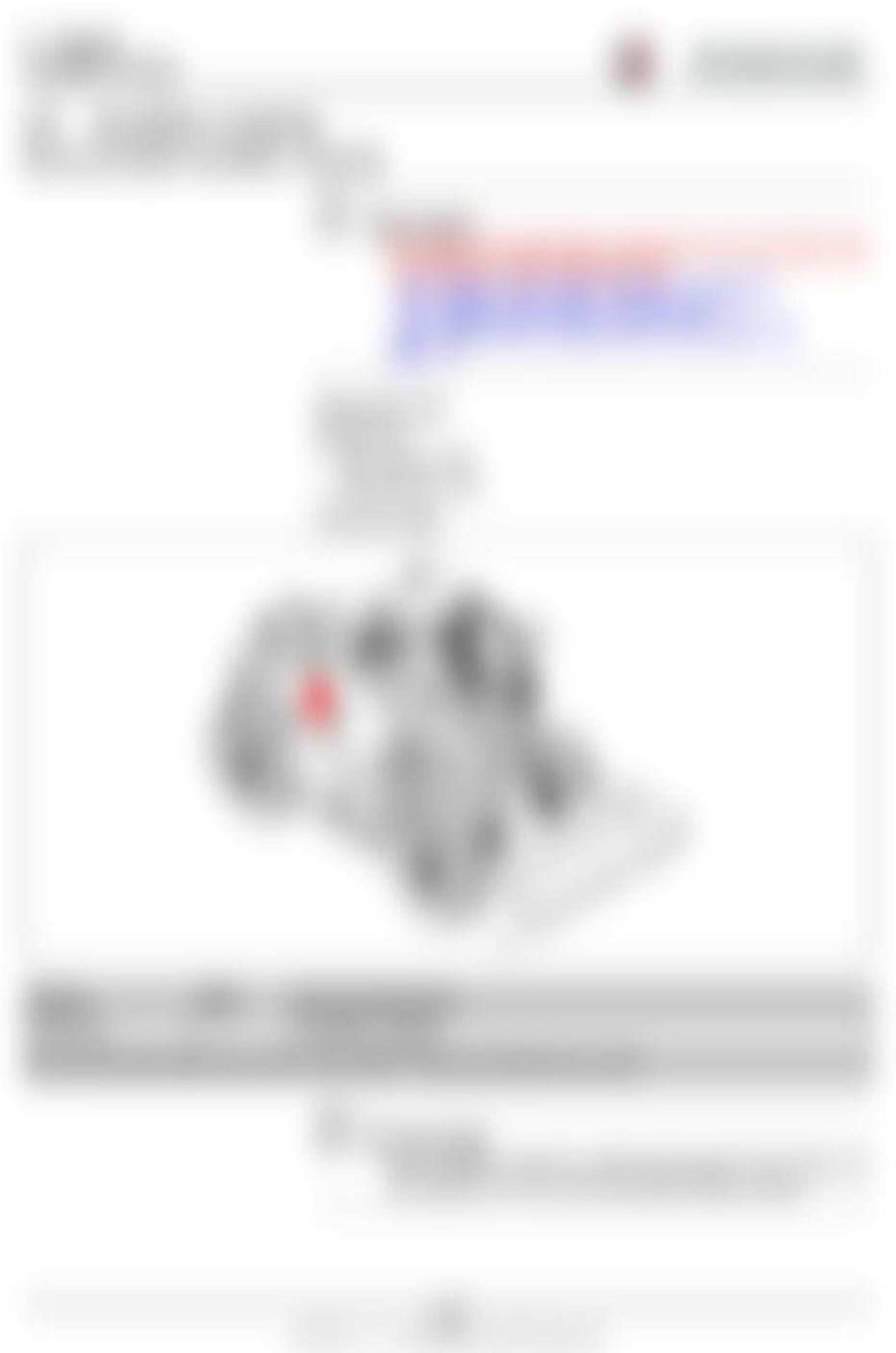


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Blurred text block, likely a title or heading.



Blurred text block, likely a description or specification.



1. The first image shows a close-up of a mechanical component, likely a valve or actuator, with a circular opening. This component is part of the hydraulic system being discussed.



2. The second image shows a close-up of a mechanical component, likely a valve or actuator, with a circular opening. This component is part of the hydraulic system being discussed.



3. The third image shows a close-up of a mechanical component, likely a valve or actuator, with a circular opening. This component is part of the hydraulic system being discussed.



4. The fourth image shows a close-up of a mechanical component, likely a valve or actuator, with a circular opening. This component is part of the hydraulic system being discussed.









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Blurred text block, likely a title or introductory paragraph.



Blurred text block, likely a description or details.



Blurred text block, likely a short paragraph or note.



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Blurred text block, likely a footer or concluding paragraph.



Blurred text block at the top of the page, possibly a title or introductory paragraph.

Blurred text block, likely a sub-section header or a list item.

Blurred text block, likely a sub-section header or a list item.

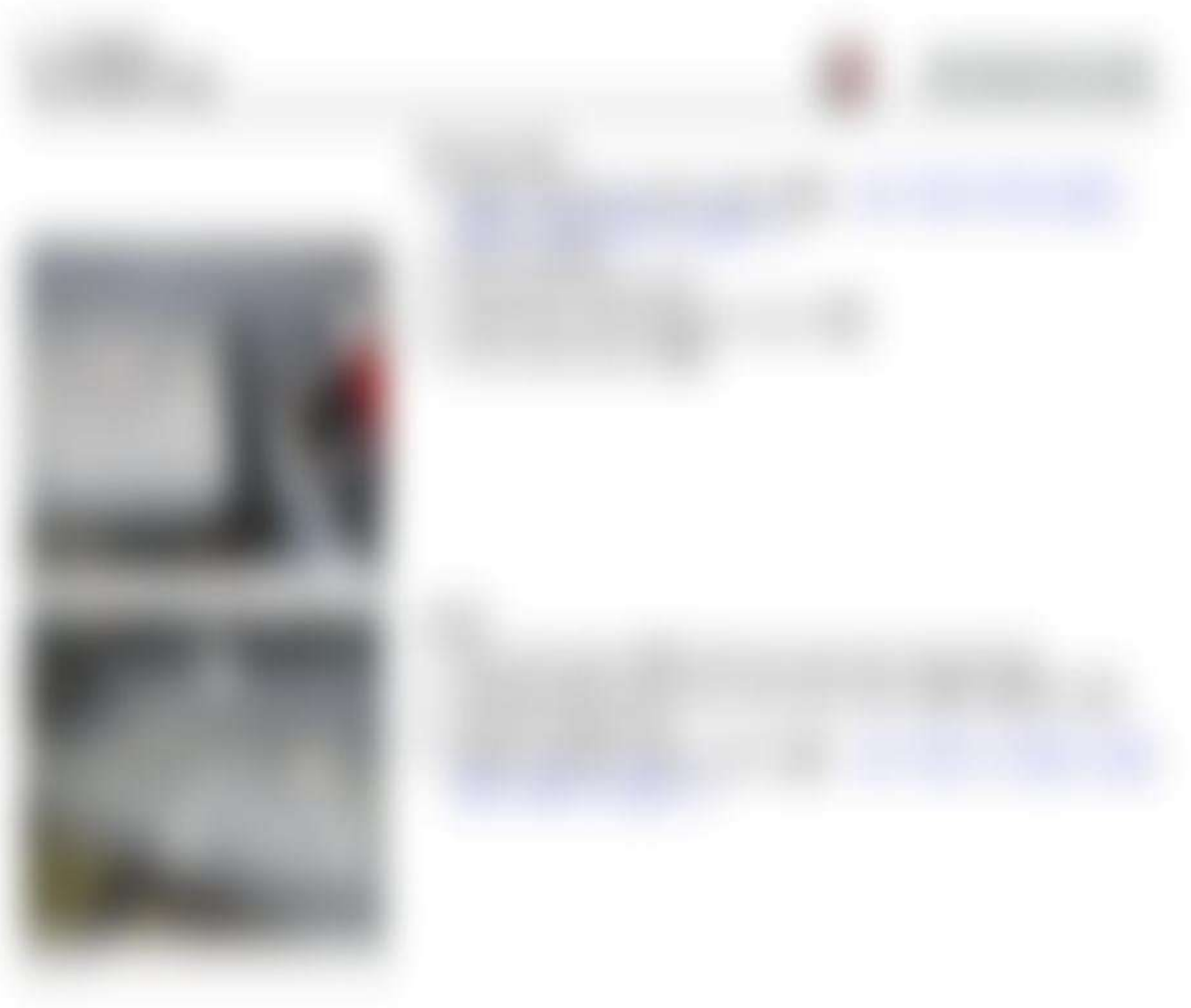
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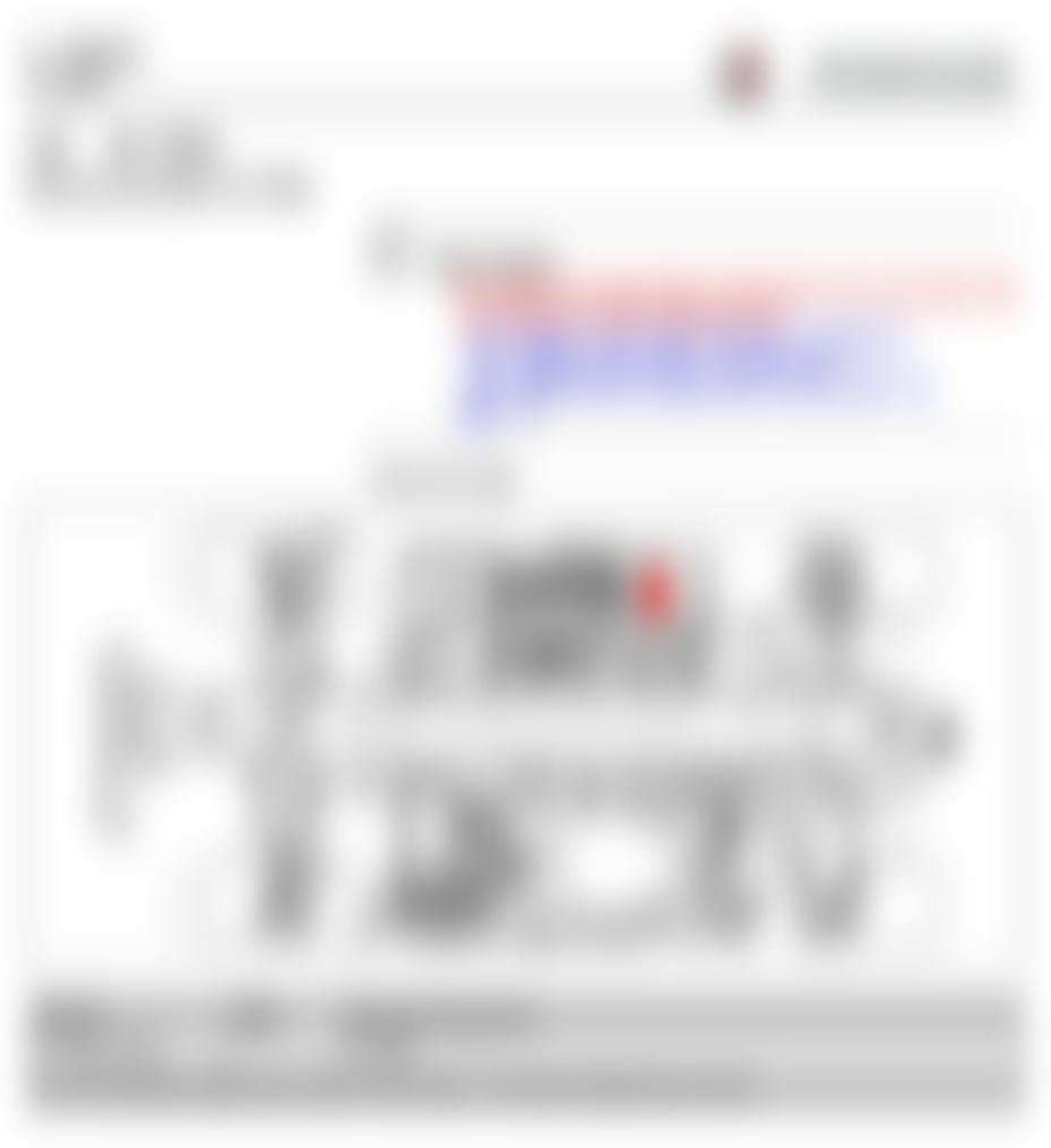
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The following information is provided for your reference. The information is not intended to be used as a substitute for the manufacturer's instructions. The information is provided as a service to our customers and is subject to change without notice. The information is provided in English only. The information is provided for informational purposes only. The information is not intended to be used as a substitute for the manufacturer's instructions. The information is provided as a service to our customers and is subject to change without notice. The information is provided in English only. The information is provided for informational purposes only.



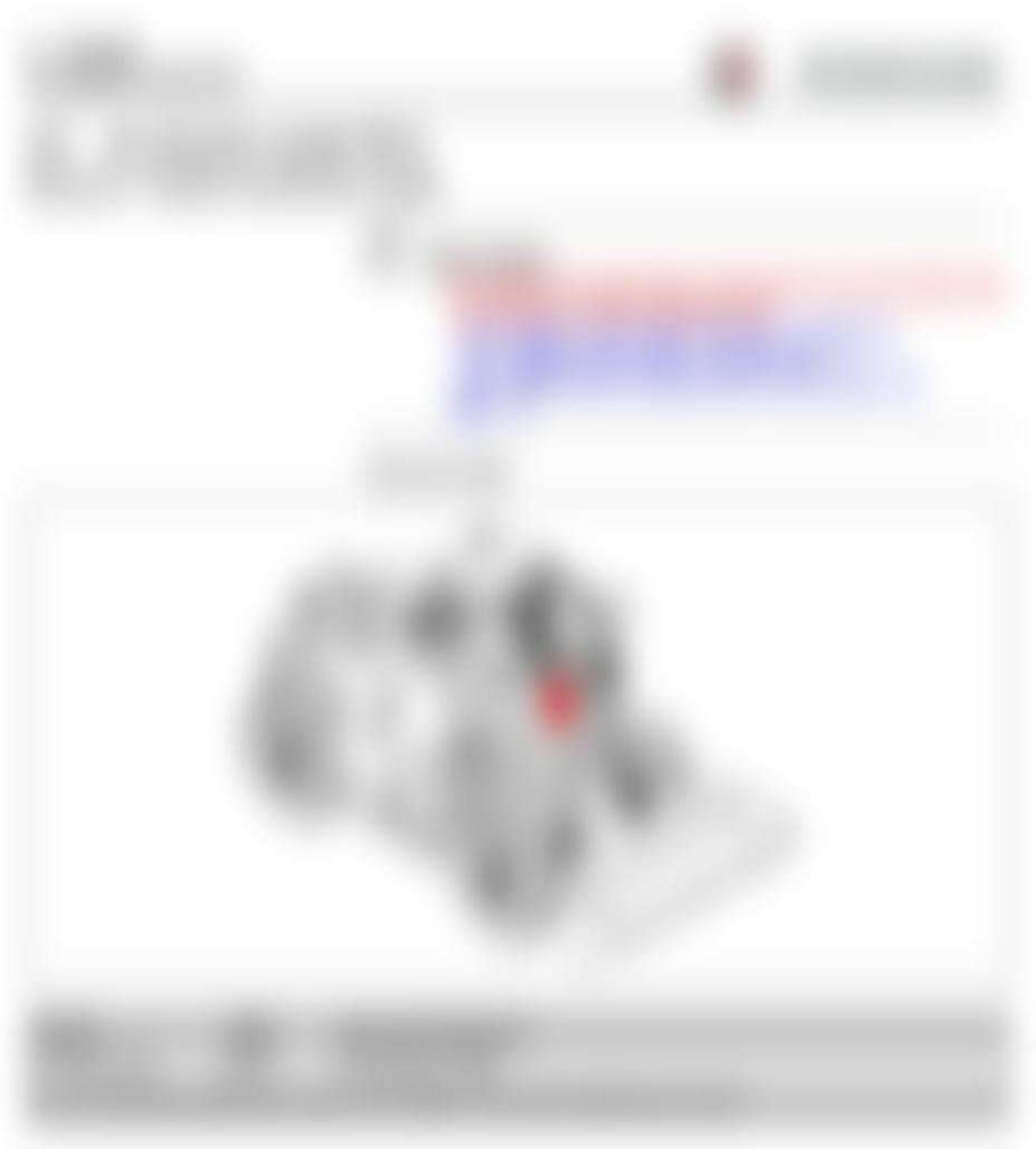








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Blurred text block, likely a description or technical specification related to the tractor component shown in the image above.

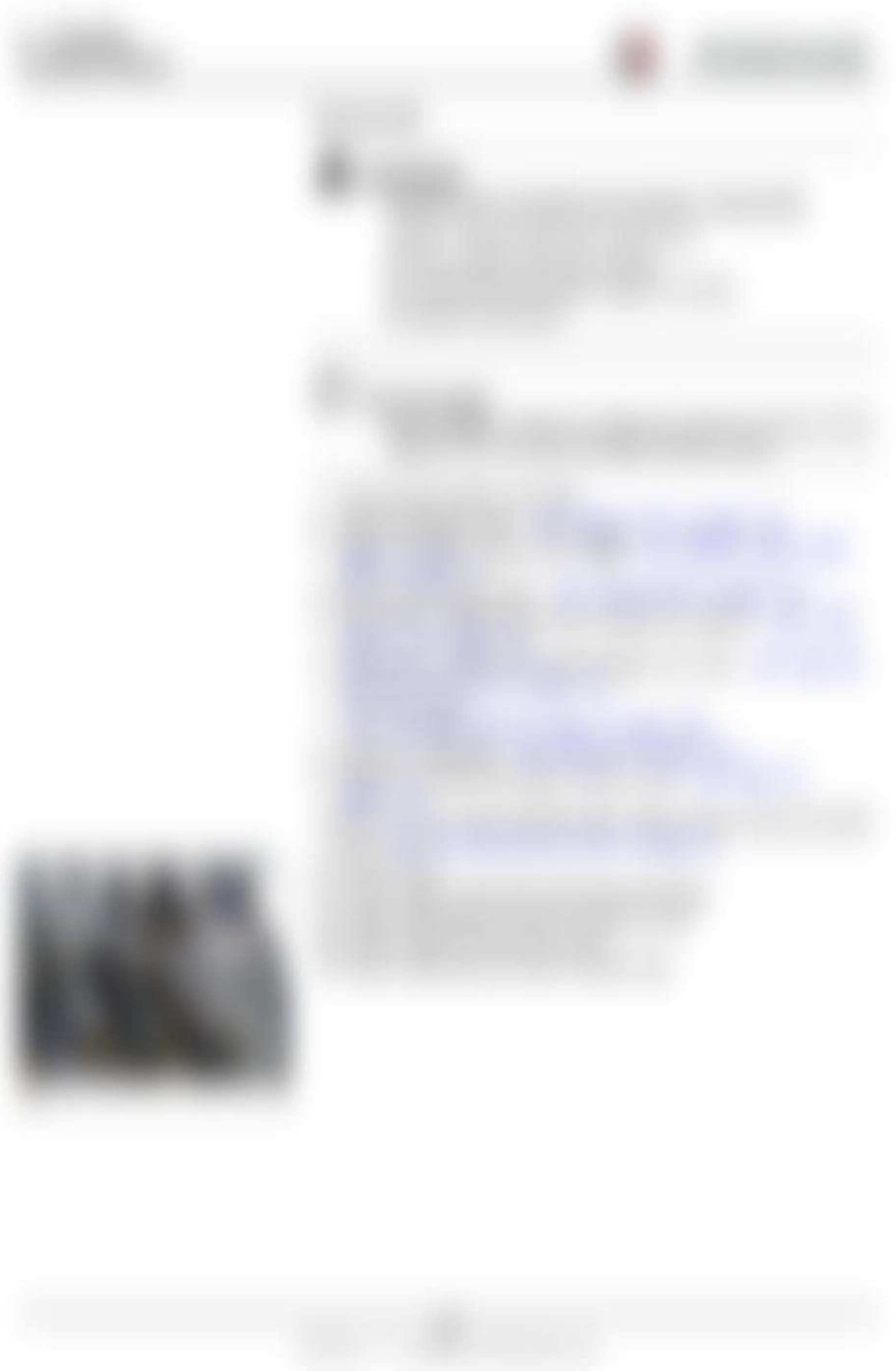


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Blurred text block, likely a description or technical specification related to the tractor component shown in the image above.









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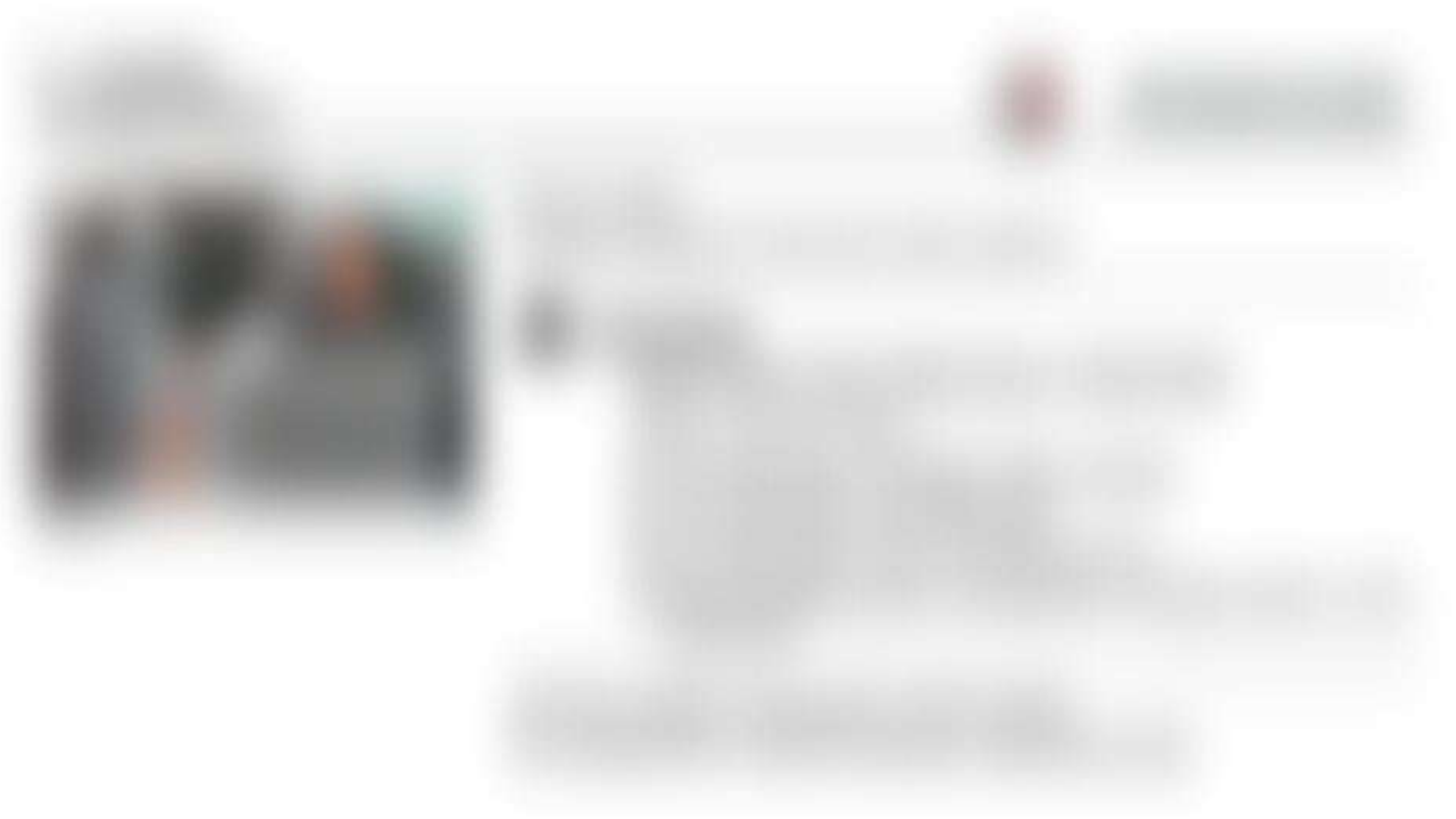
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Blurred text block, likely the main title and introductory paragraph of an article.



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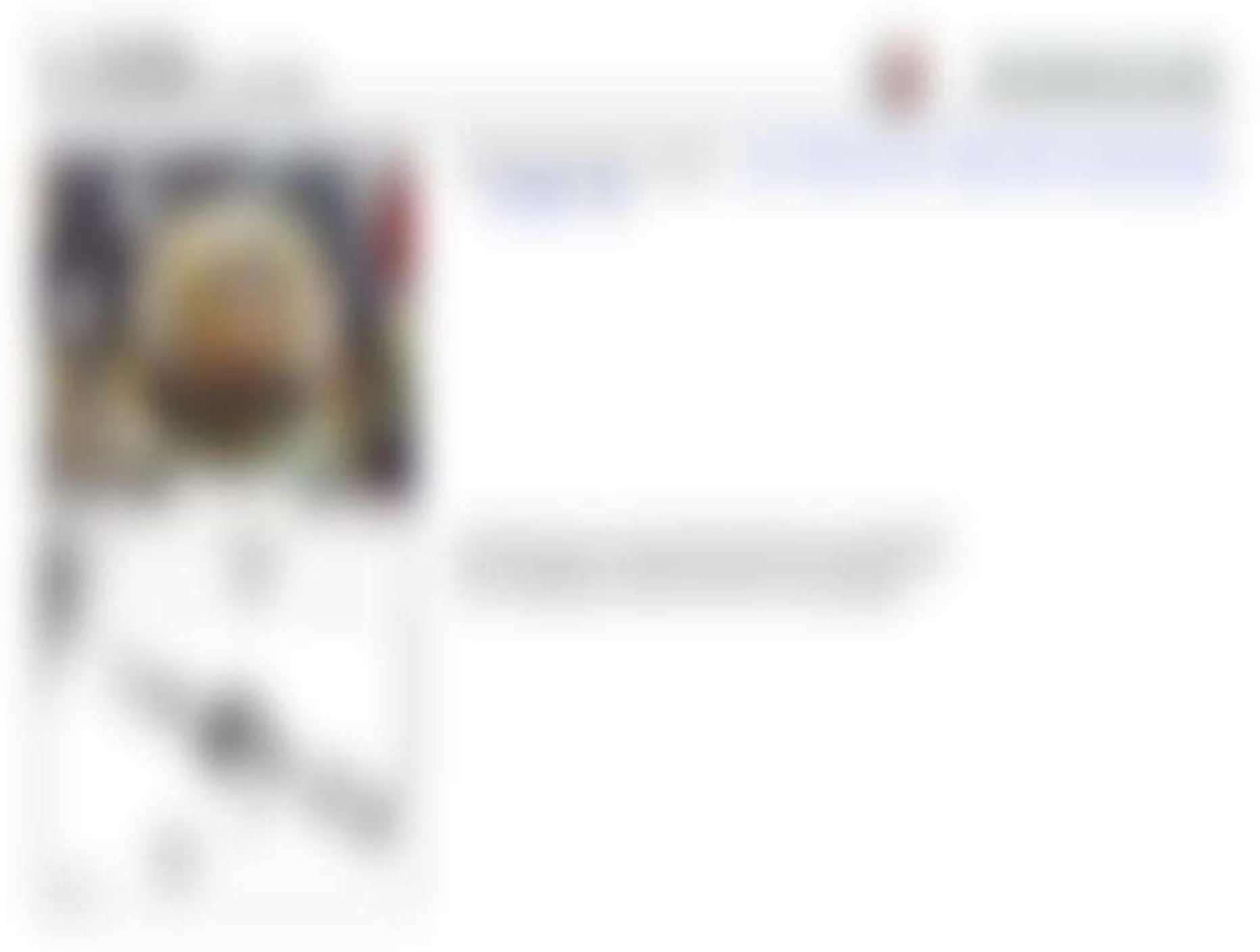
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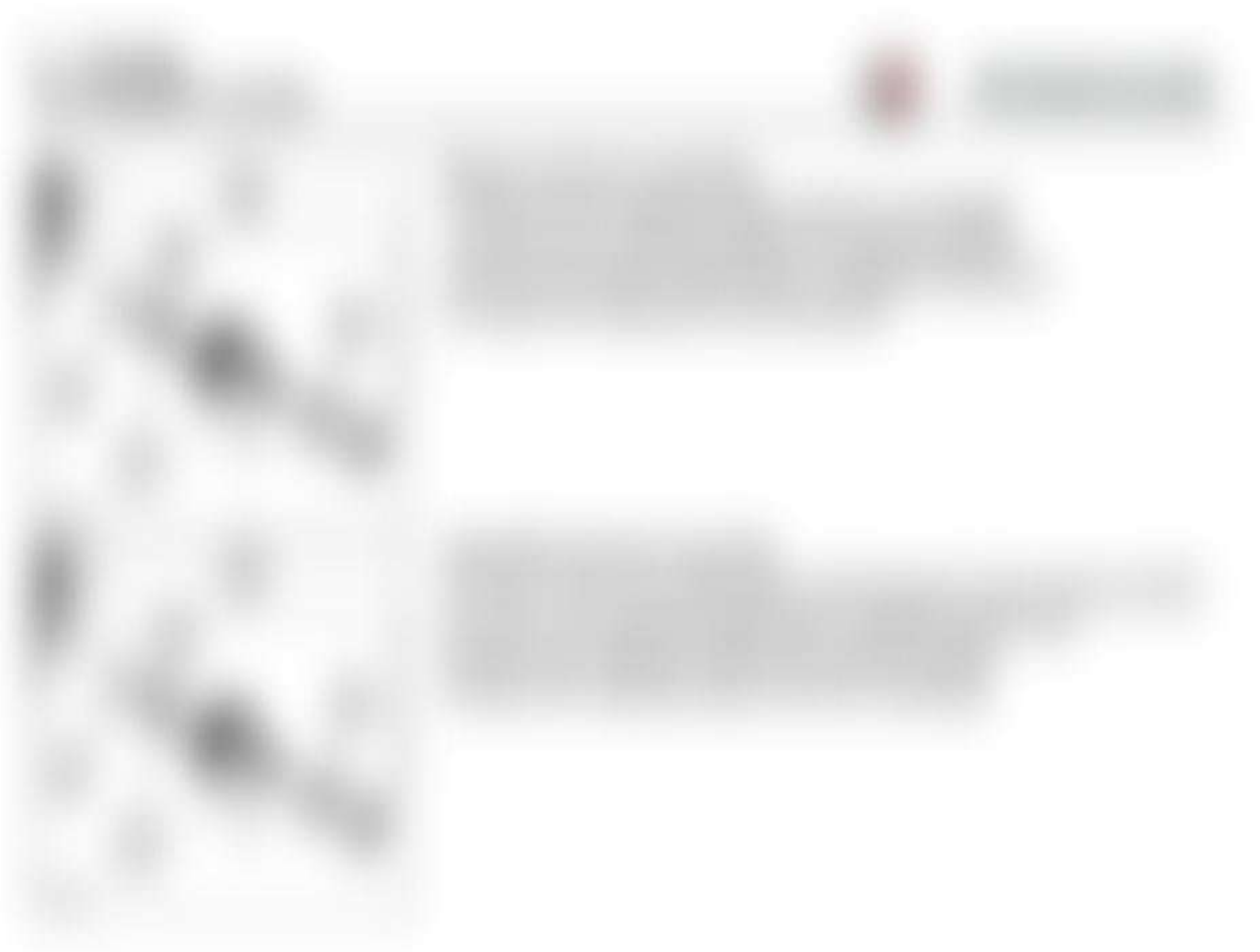


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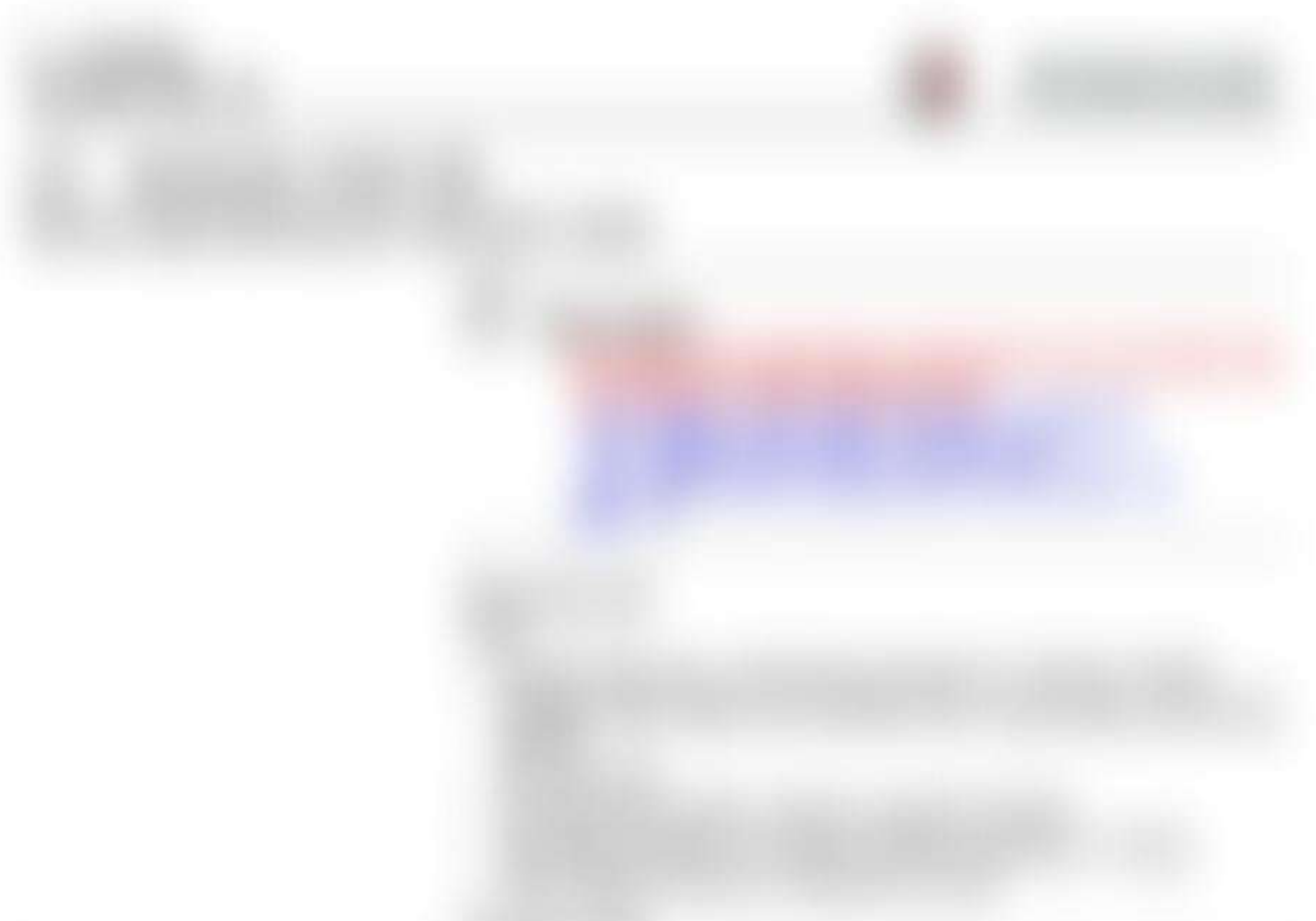


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1. The first step in the process is to identify the problem. This involves gathering information about the situation and determining what needs to be done.

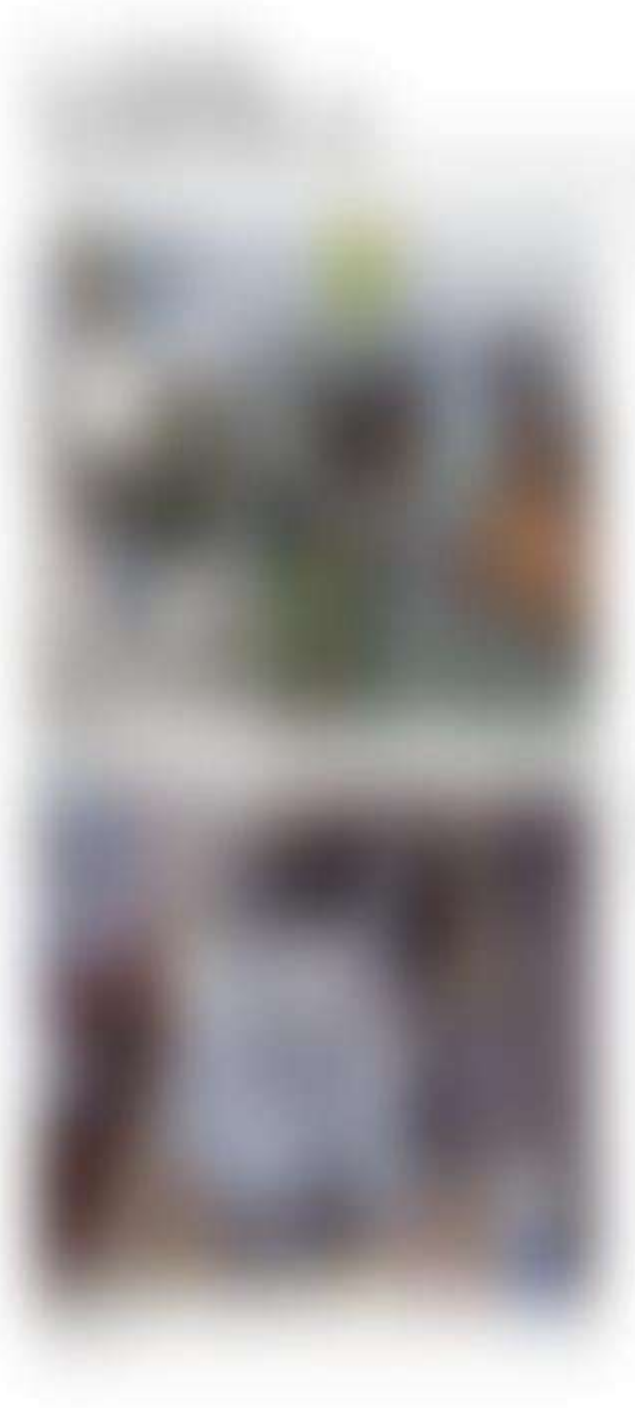
2. Once the problem is identified, the next step is to develop a plan. This involves determining the best course of action and the resources needed to implement it.

3. The third step is to implement the plan. This involves putting the plan into action and monitoring progress to ensure that the problem is being solved.

4. Finally, the last step is to evaluate the results. This involves assessing the effectiveness of the plan and determining if any adjustments need to be made.



5. The final step is to document the process. This involves recording the steps taken and the results achieved, which can be used for future reference and learning.



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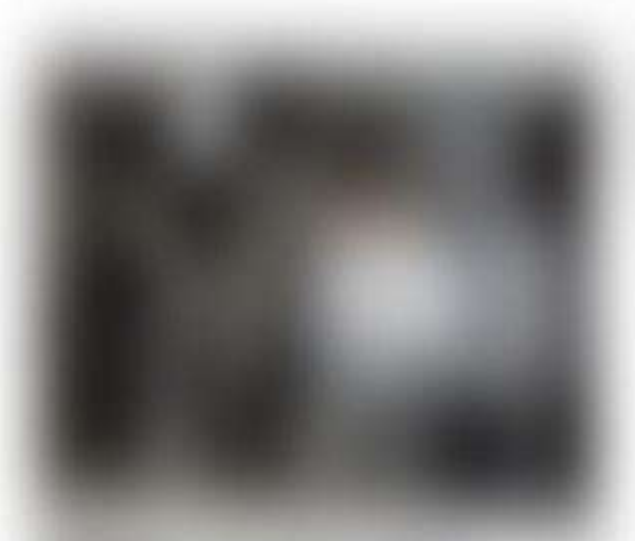


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The image shows a mechanical part, possibly a valve or fitting, with a circular face and a central opening. The part is shown in a close-up view, highlighting its details and structure.



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The image shows a mechanical part, possibly a valve or fitting, with a circular face and a central opening. The part is shown in a close-up view, highlighting its details and structure.



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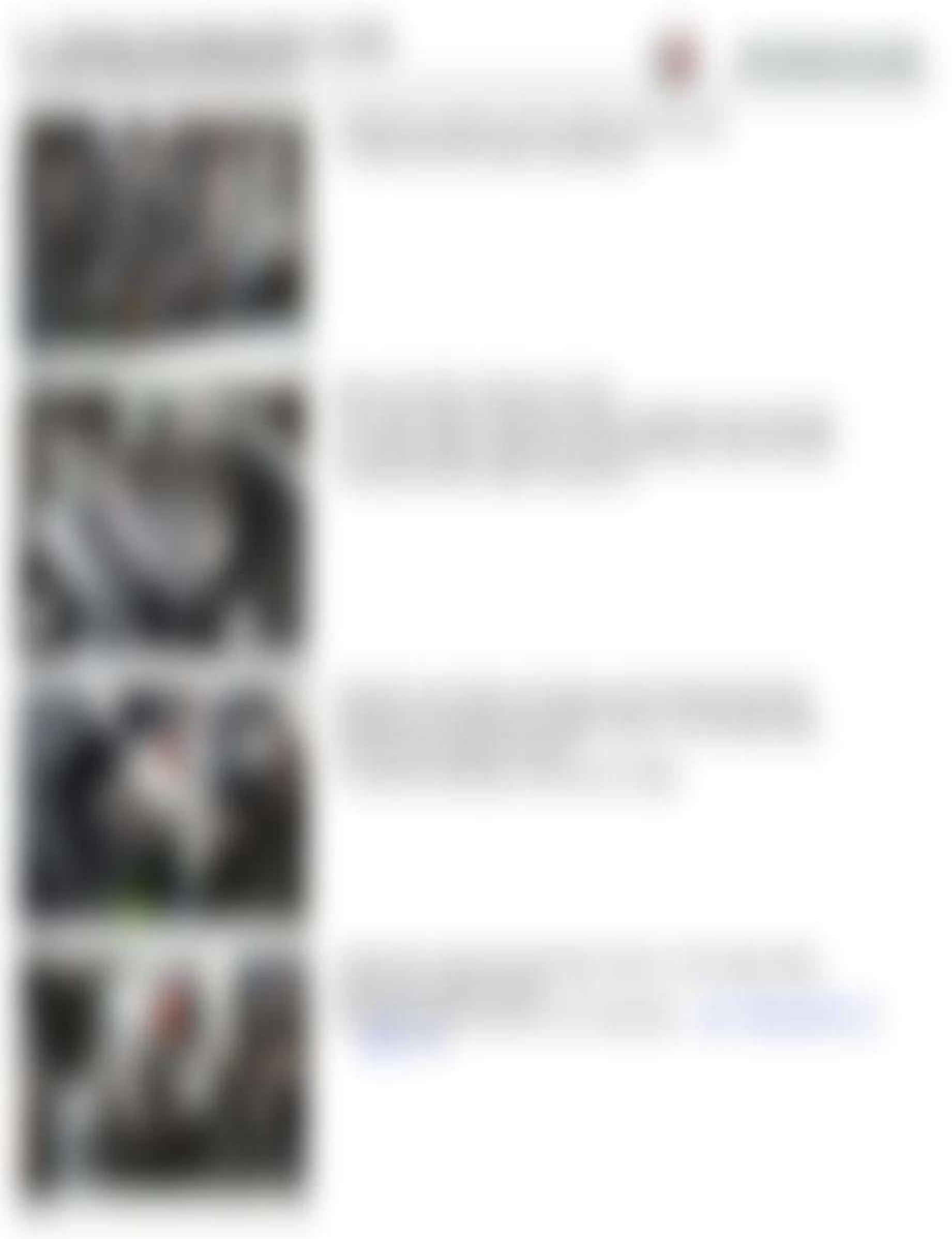


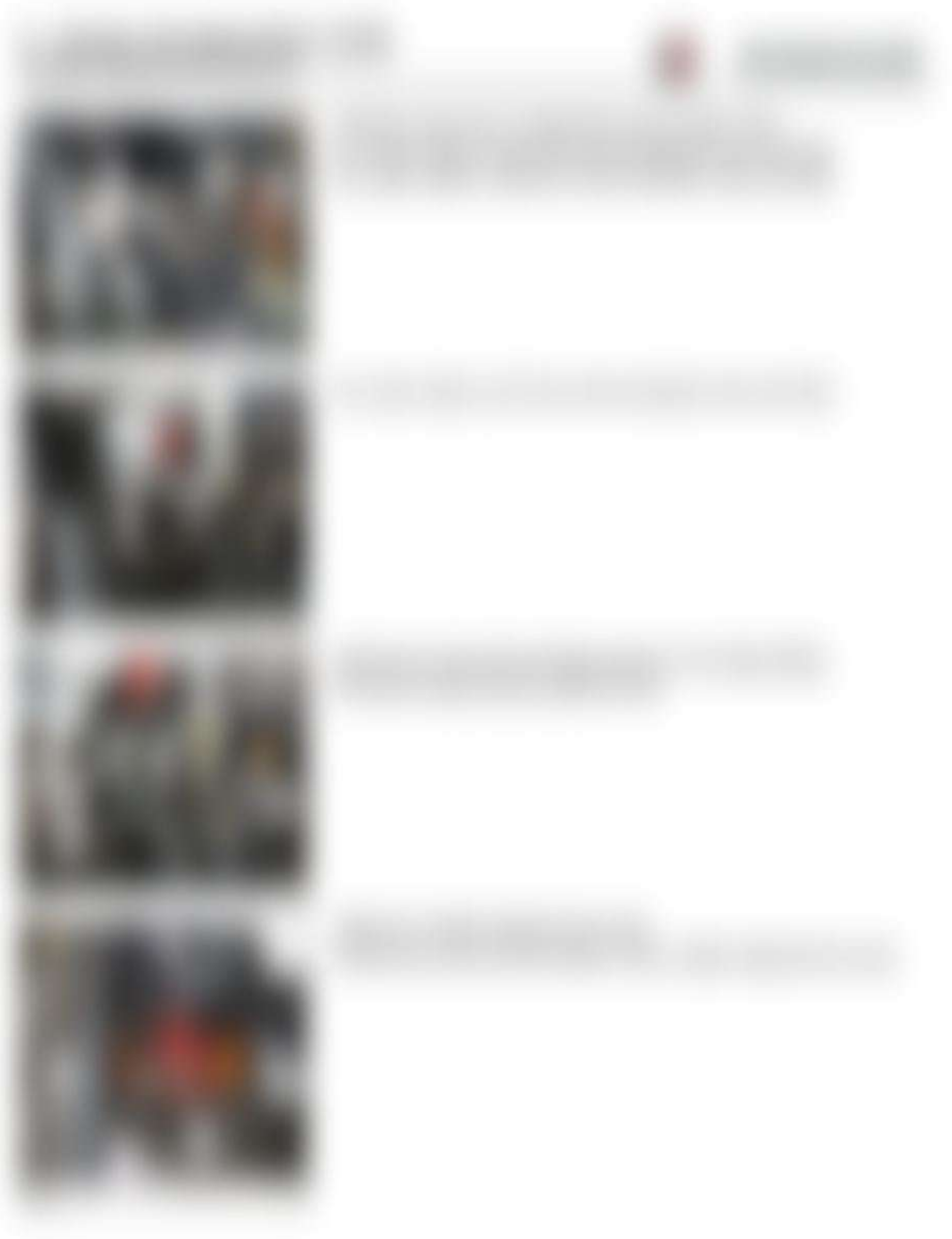


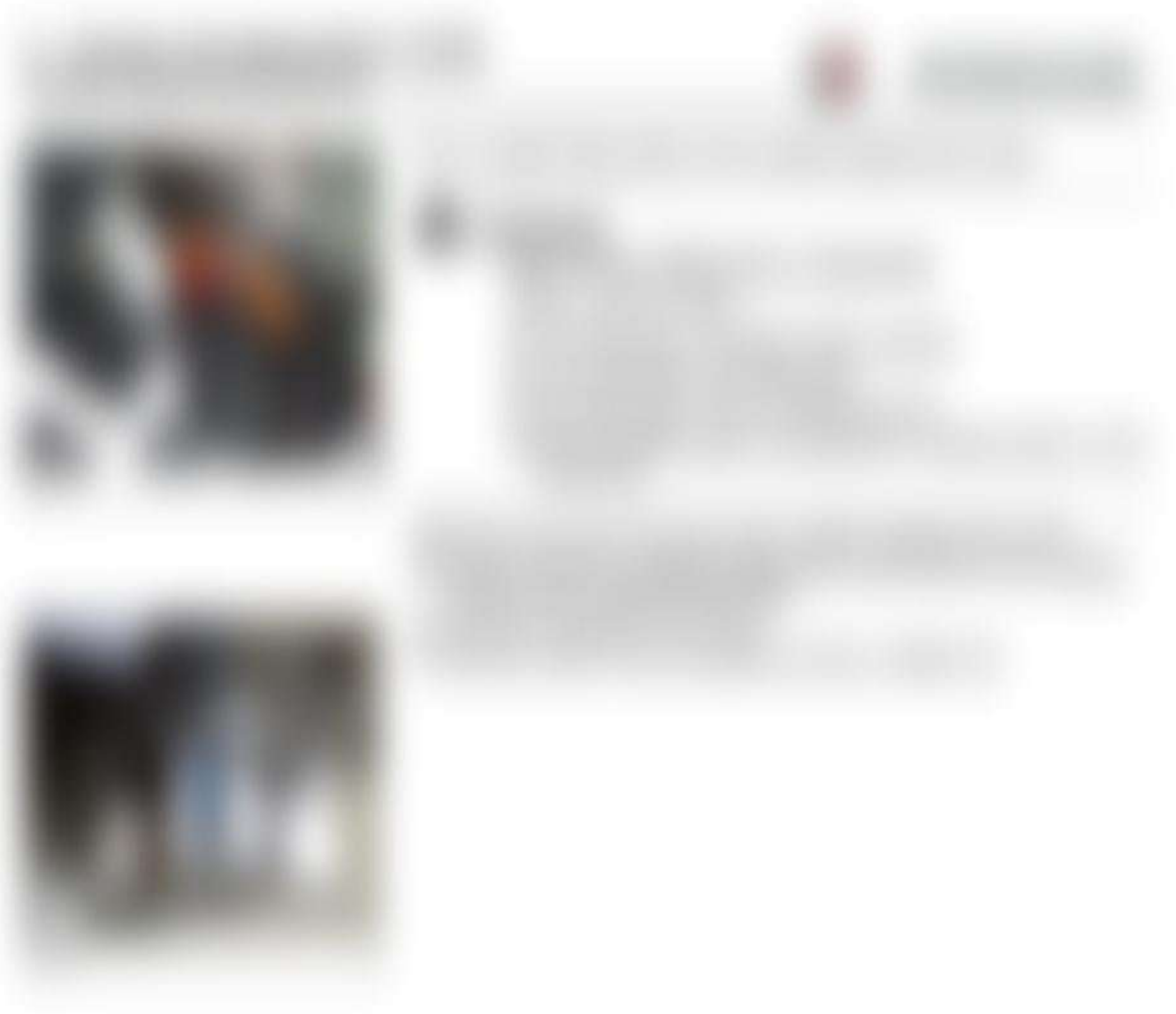
Top section of text, likely an introduction or title area.



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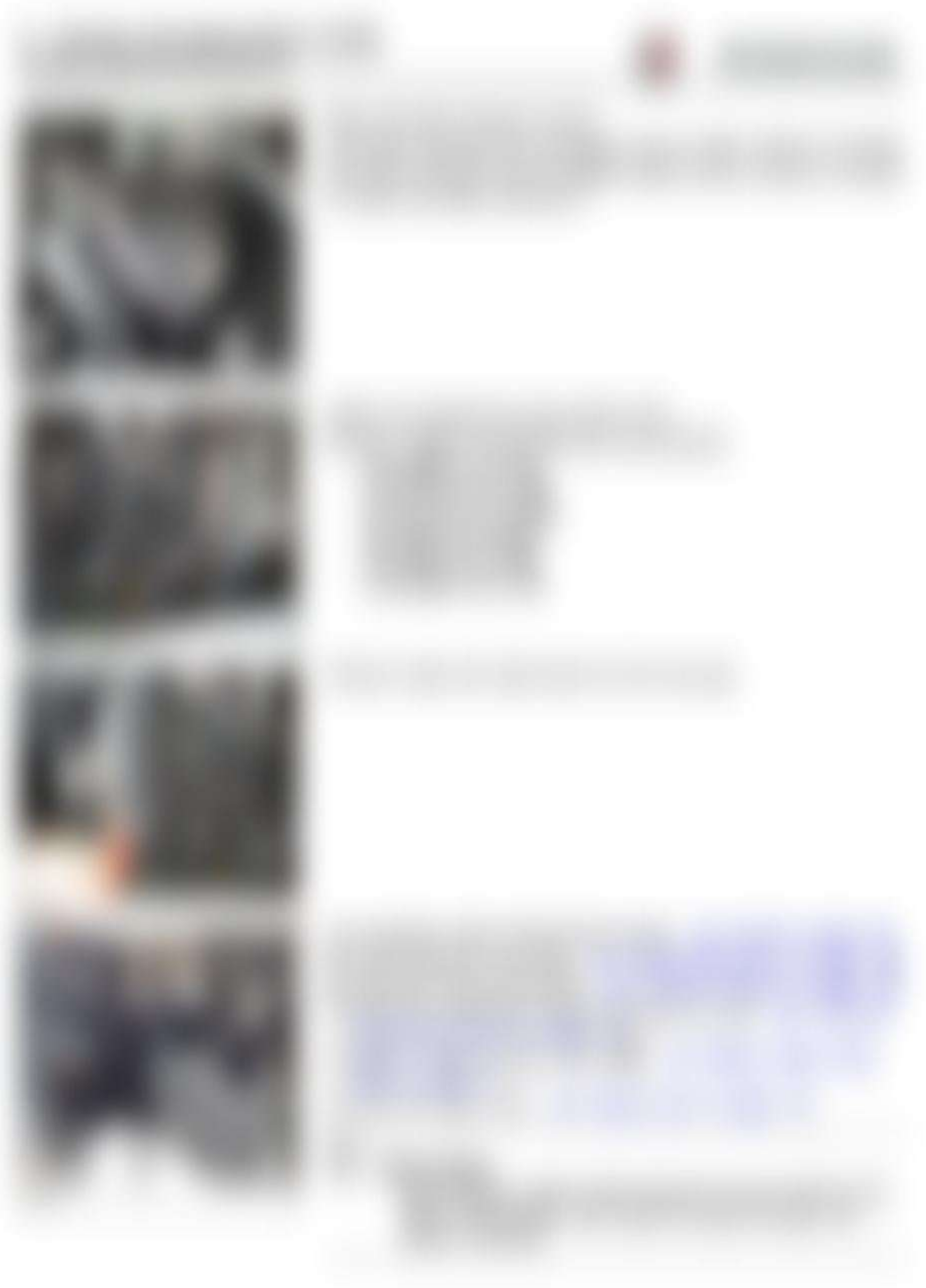
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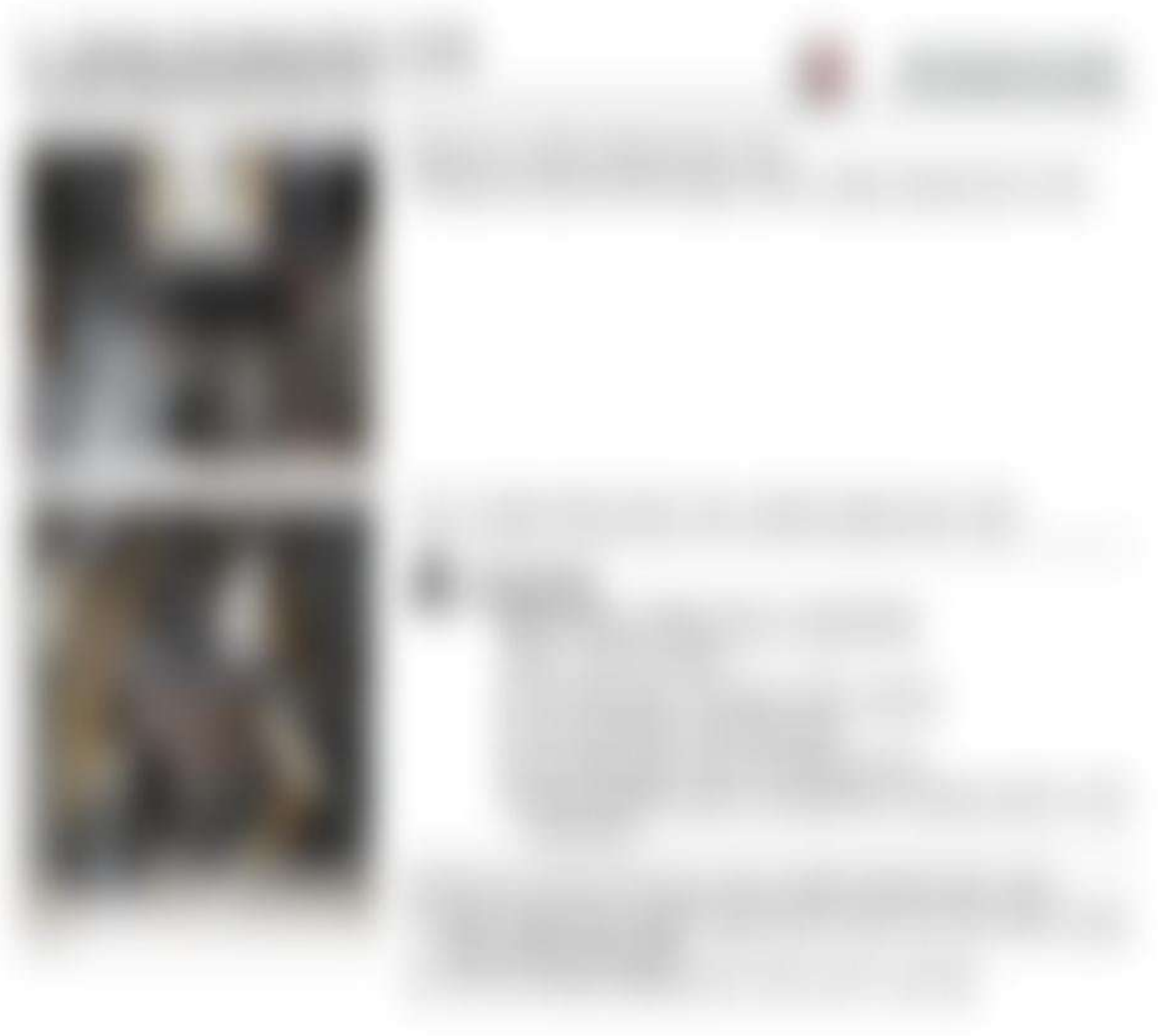


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Text block 1: A paragraph of text, likely a description or instruction related to the first image.



Text block 2: A paragraph of text, likely a description or instruction related to the second image.



Text block 3: A paragraph of text, likely a description or instruction related to the third image.

Text block 4: A paragraph of text, possibly a summary or a call to action, with a blue highlight.





1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in all financial dealings.

2. The second part of the document provides a detailed overview of the current financial status of the organization. It includes a summary of the budget, actual performance, and any variances that have occurred.

3. The third part of the document outlines the key findings and recommendations from the audit. It identifies areas of strength and areas that require further attention and improvement.

4. The final part of the document provides a conclusion and a summary of the overall findings. It reiterates the importance of ongoing monitoring and reporting to ensure the organization remains on track with its financial goals.





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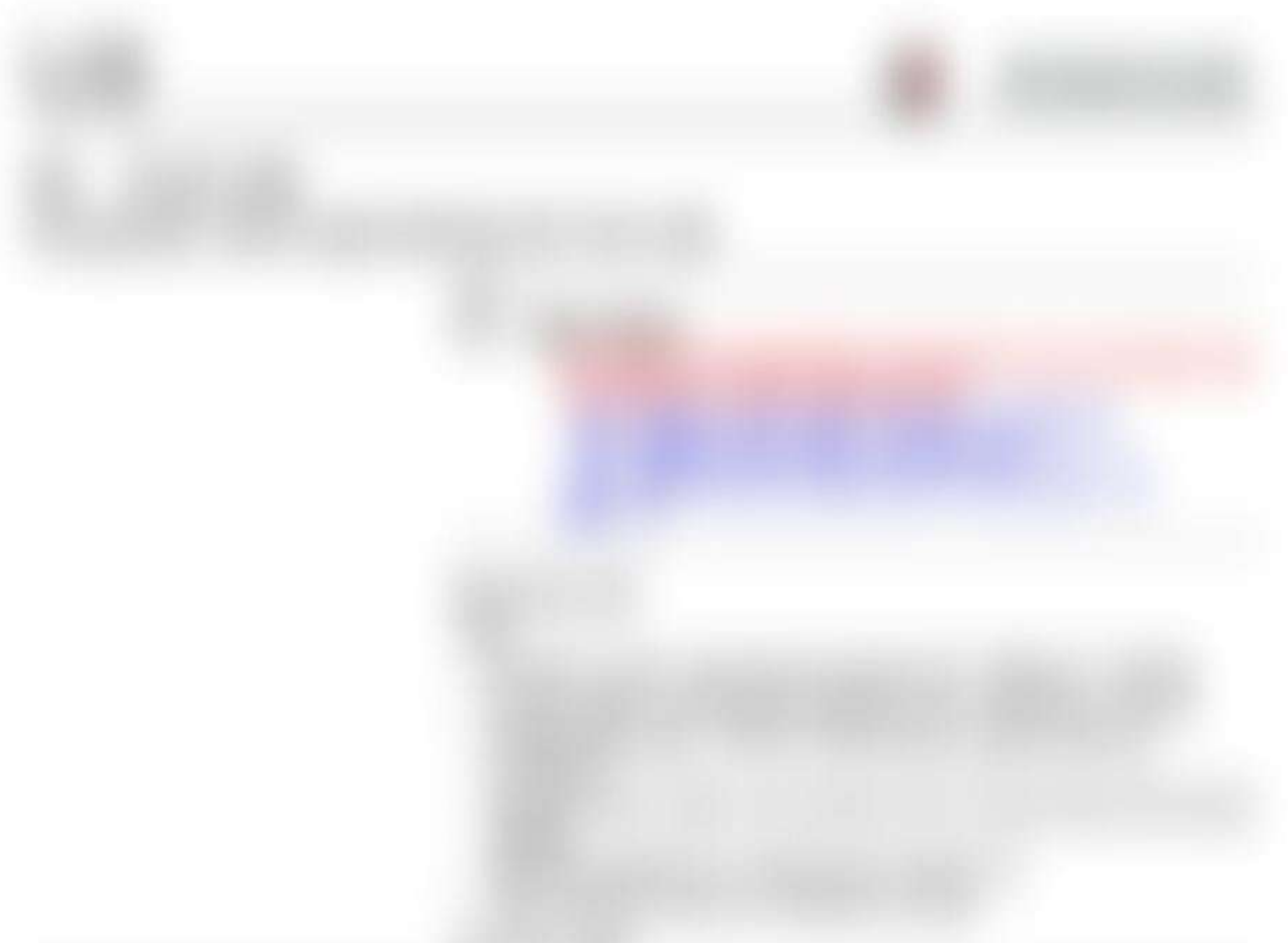
1. The first part is a dark, curved component, likely a part of the tractor's chassis or a wheel hub.

2. The second part is a long, thin shaft, possibly a drive shaft or a connecting rod.

3. The third part is a dark, irregularly shaped component, possibly a bracket or a part of the tractor's frame.

4. The fourth part is a bracket-like component, possibly used for mounting or supporting other parts.









1. [Illegible text]

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3. [Illegible text]

4. [Illegible text]

5. [Illegible text]

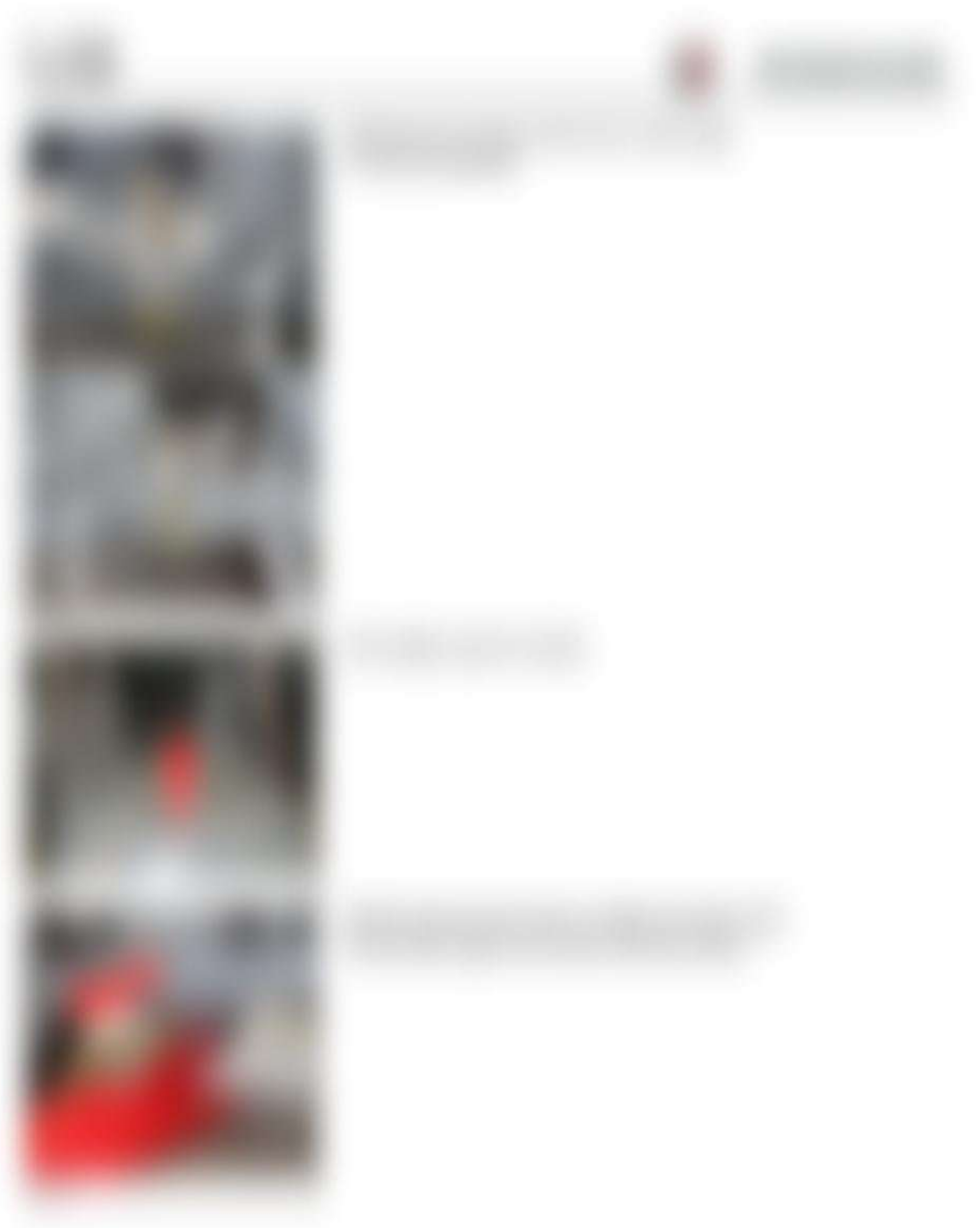


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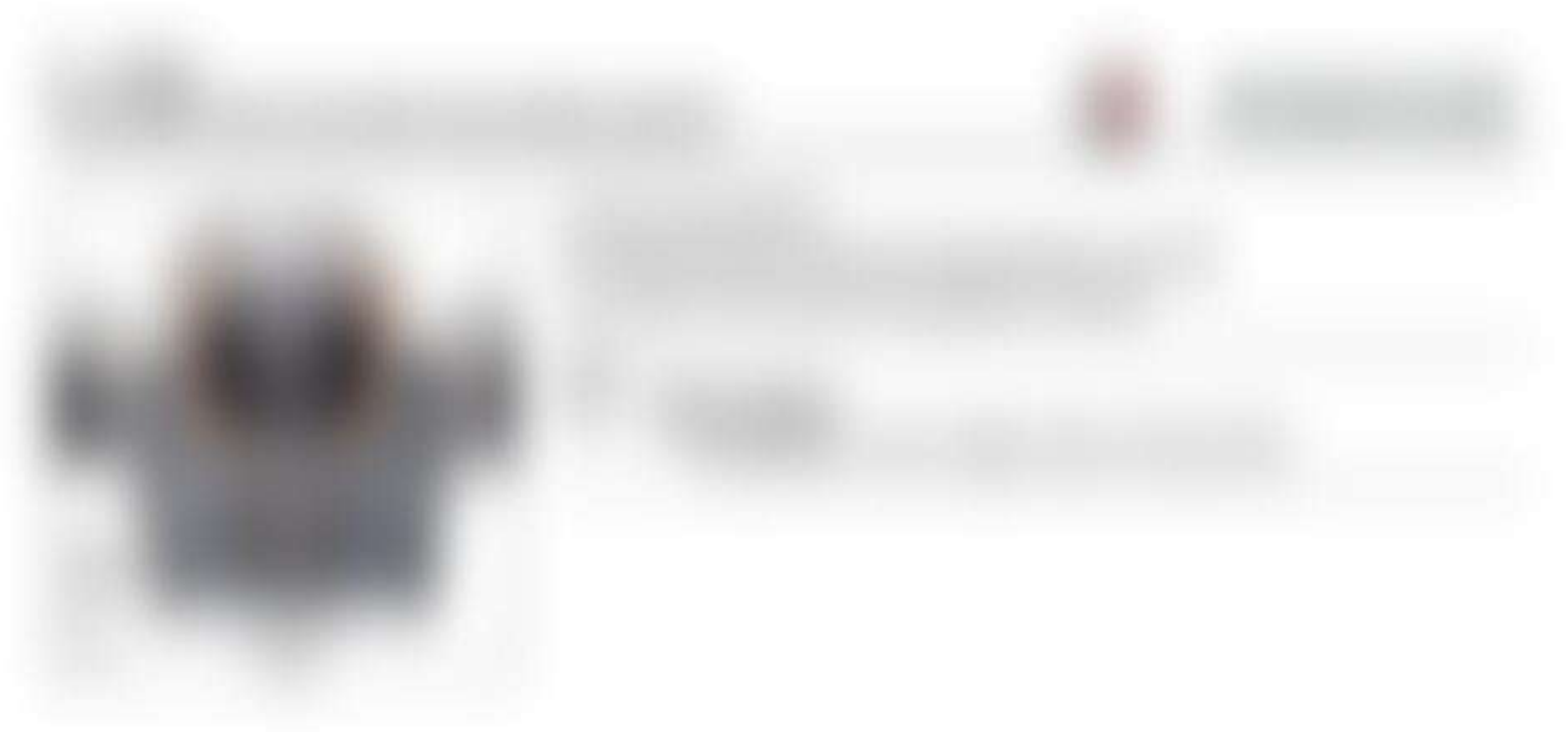
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Main content area containing several paragraphs of text, likely a manual or technical document. The text is mostly illegible due to blurring.



Additional text or a table located below the main content area, also blurred.





1. The first image shows a component that looks like a piston or a valve, possibly a part of the engine's internal mechanism.

2. The second image shows a component that looks like a gear or a flywheel, possibly a part of the transmission or the engine's output shaft.

3. The third image shows a component that looks like a piston or a valve, possibly a part of the engine's internal mechanism.

4. The fourth image shows a component that looks like a gear or a flywheel, possibly a part of the transmission or the engine's output shaft.

5. The fifth image shows a component that looks like a gear or a flywheel, possibly a part of the transmission or the engine's output shaft.



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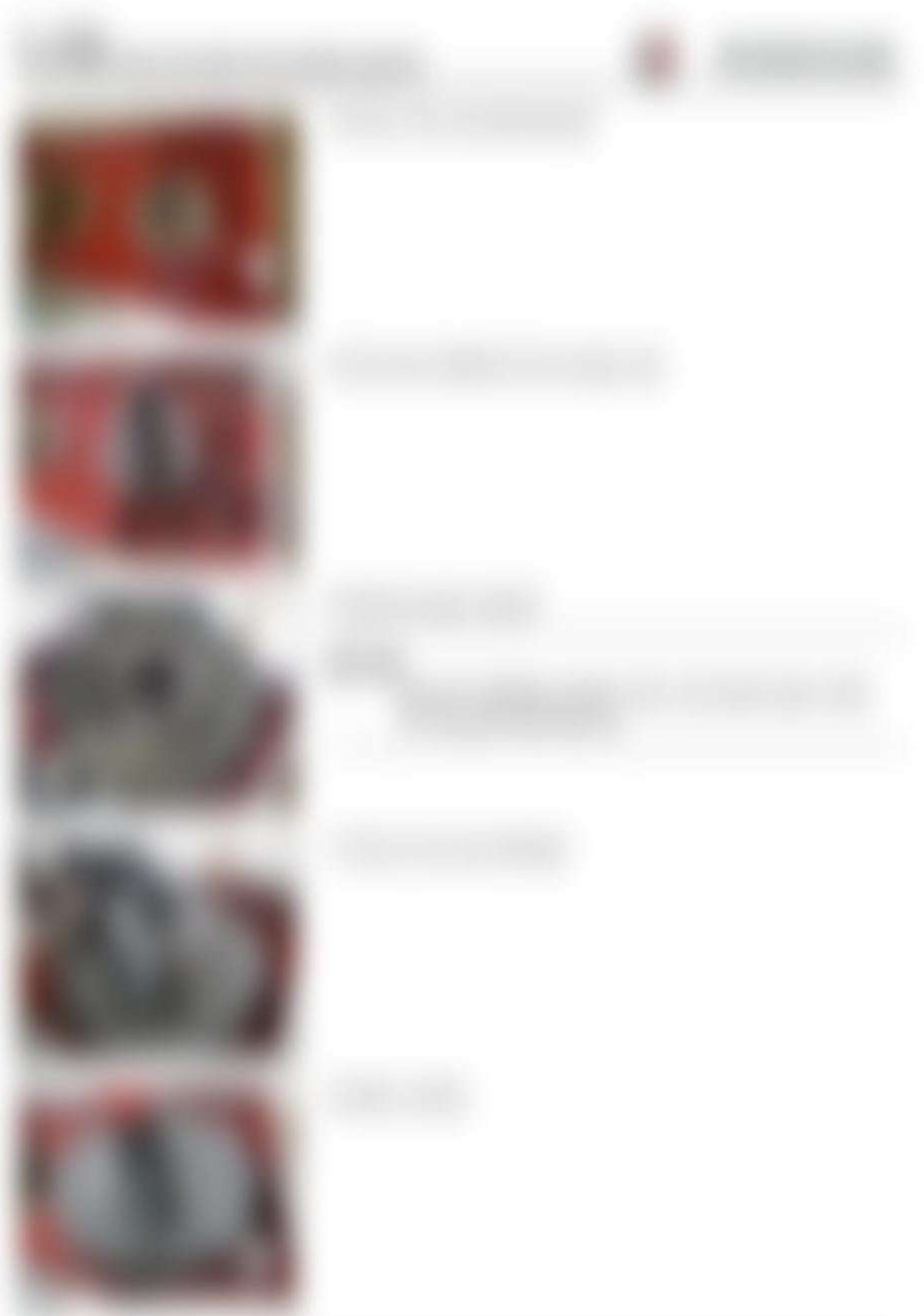
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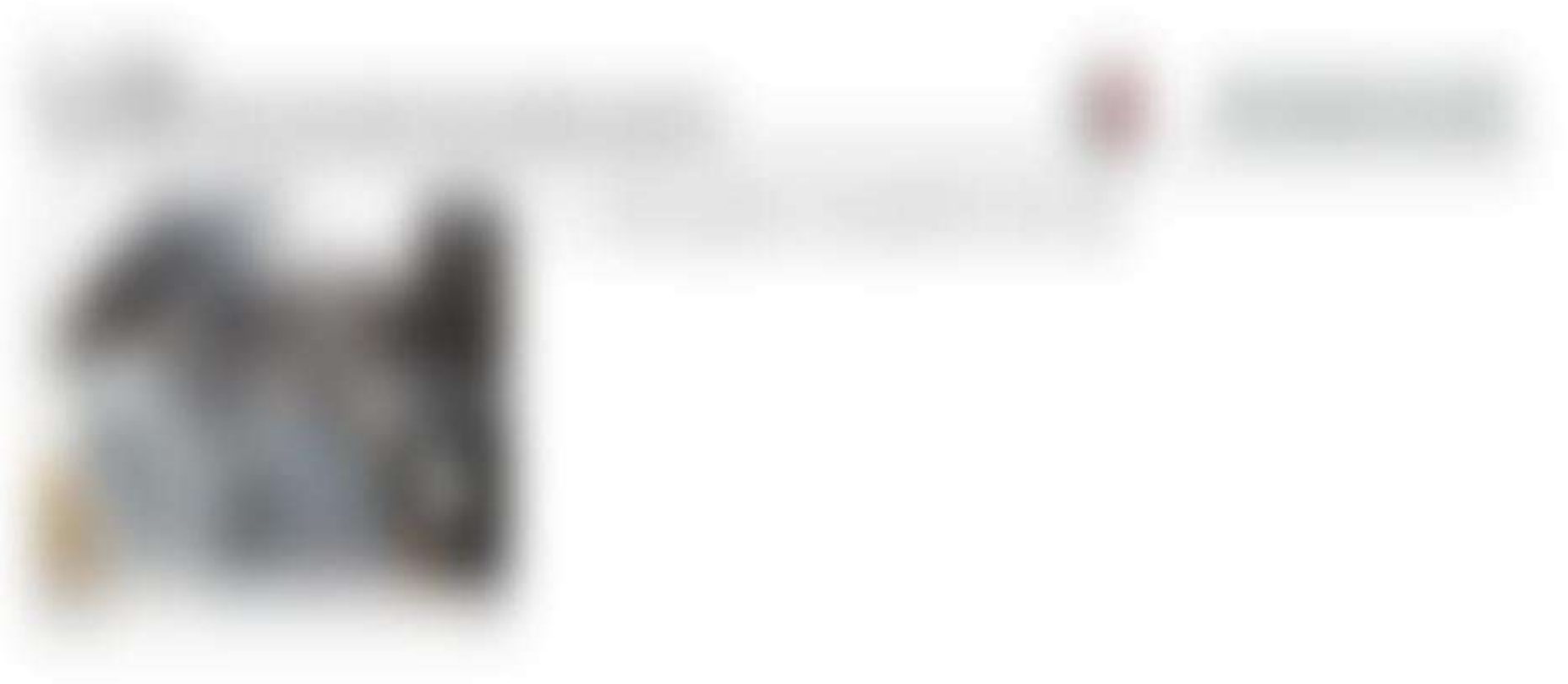
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Blurred text block, likely a paragraph of content.

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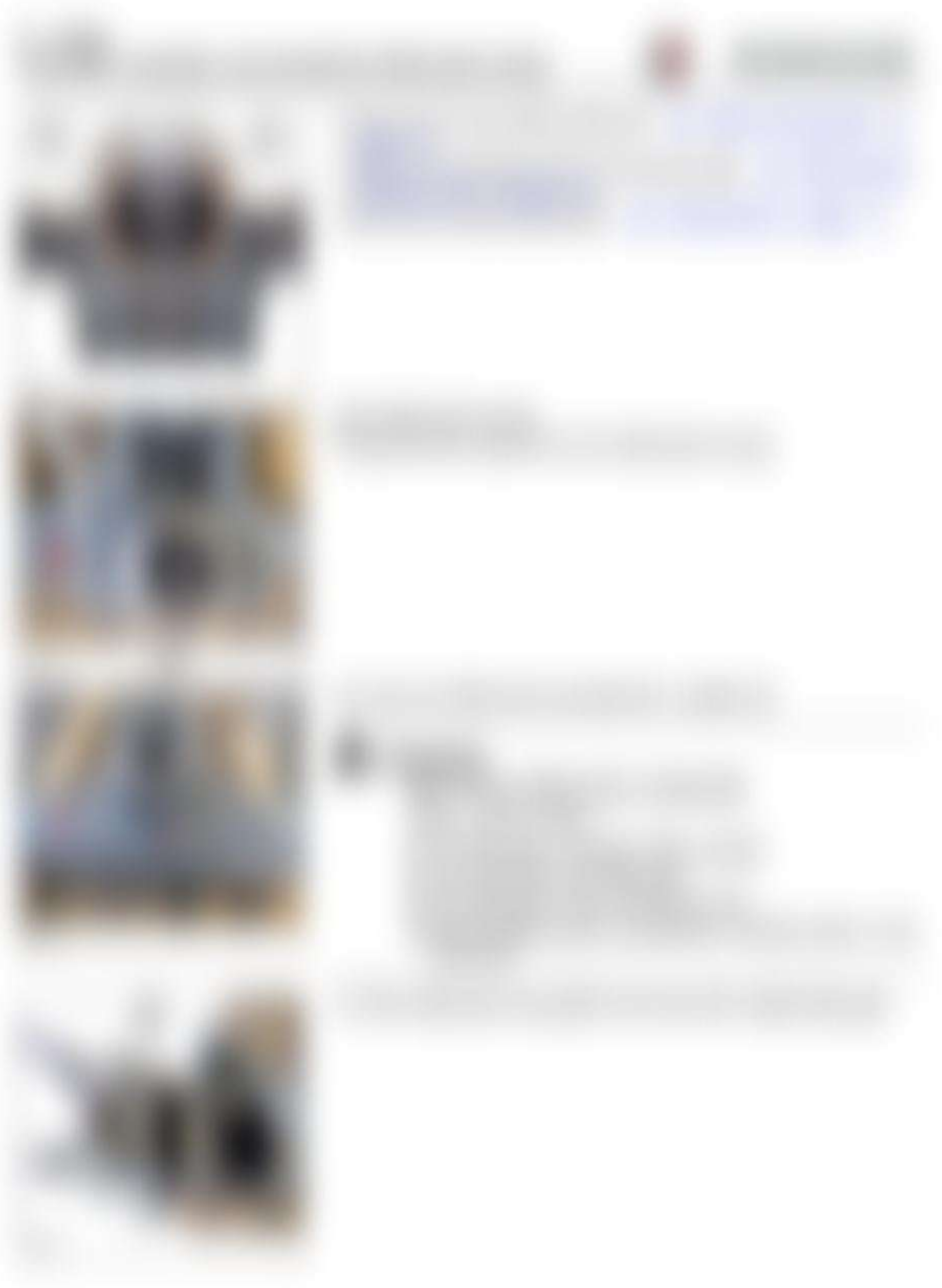
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Additional blurred text content located below the main text block.



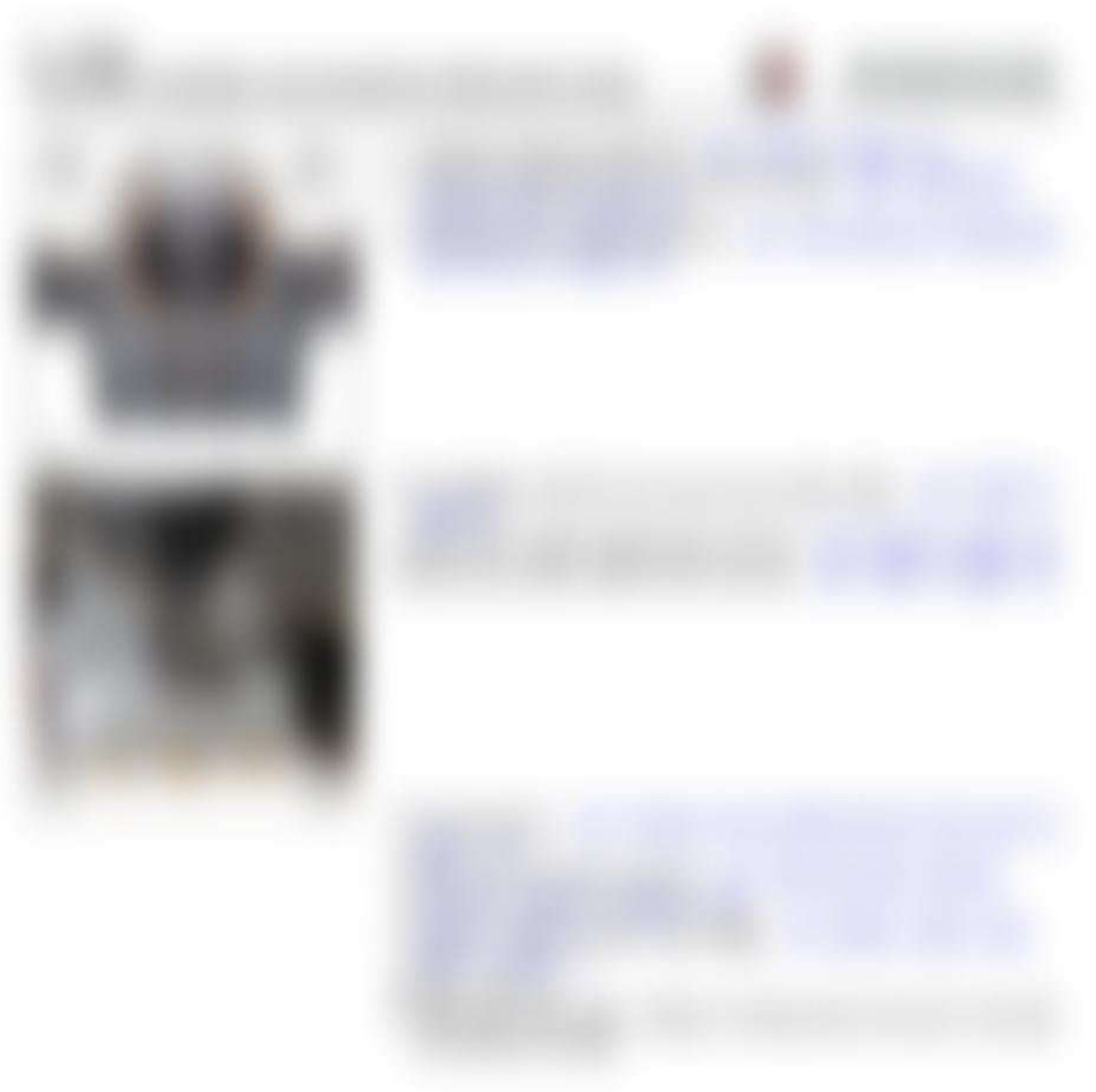
Header information including a red circular logo on the right side.



Text block located below the large tractor image, containing several lines of illegible text.



Text block located below the tractor image, containing several lines of illegible text.







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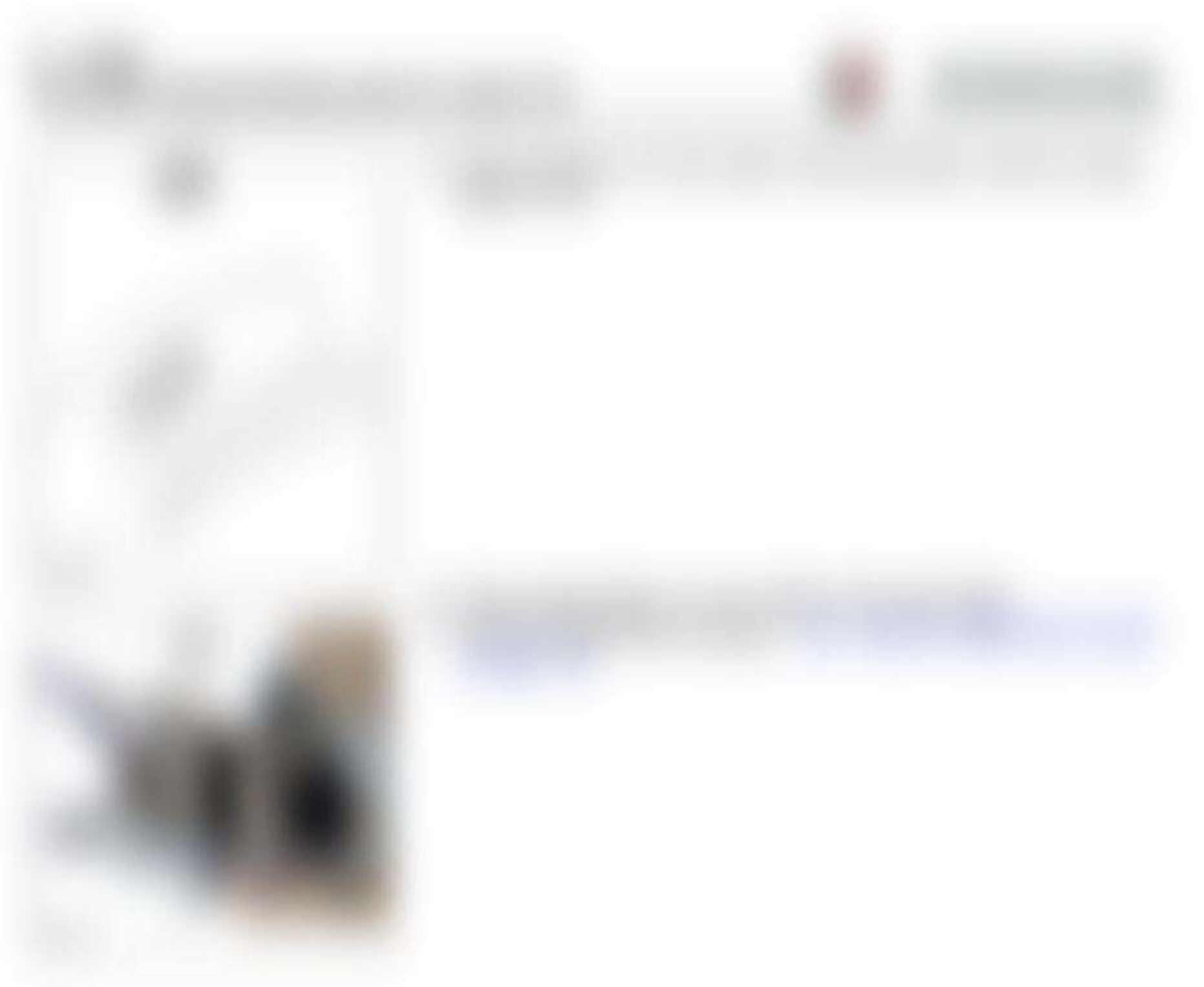
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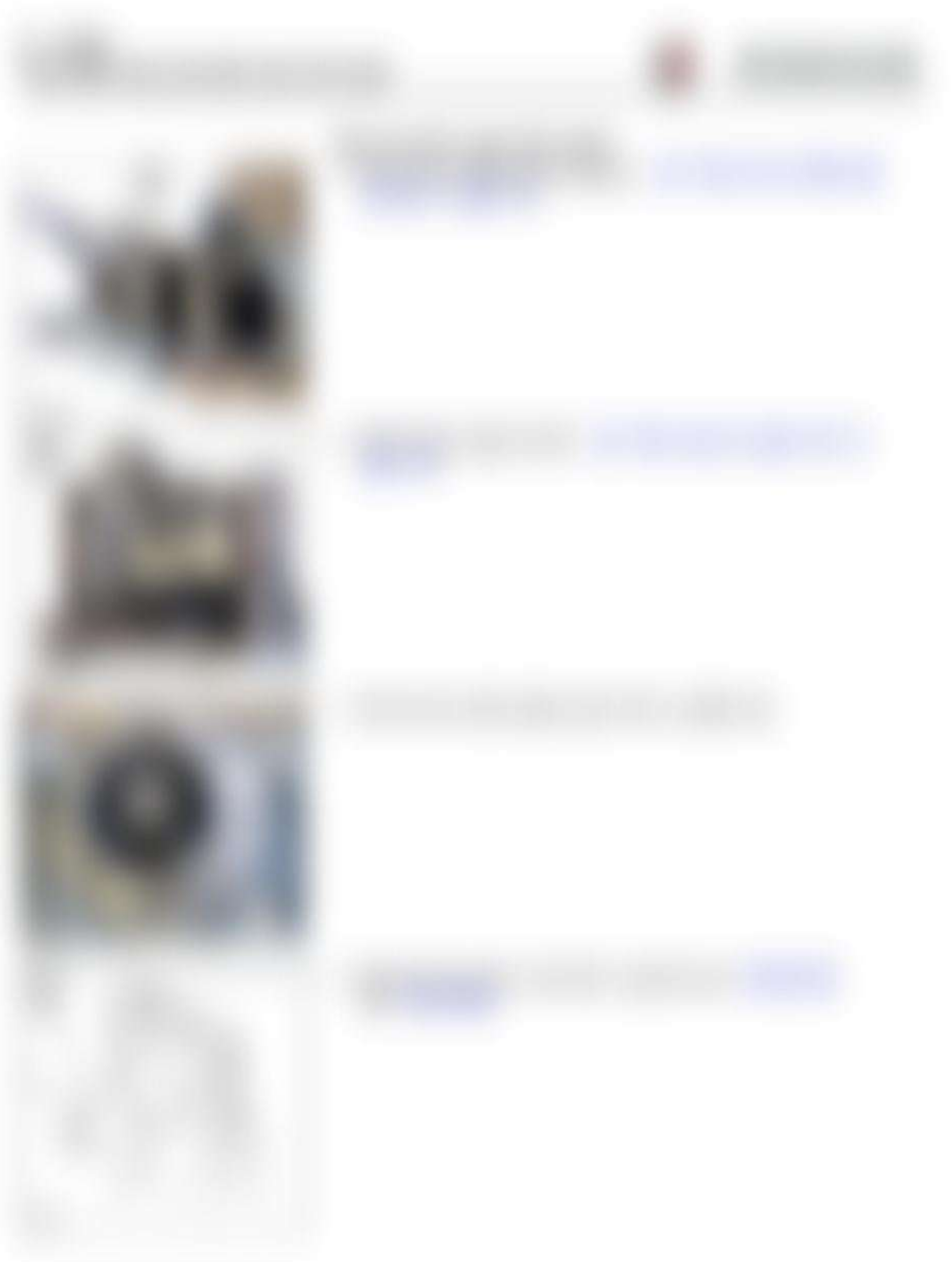
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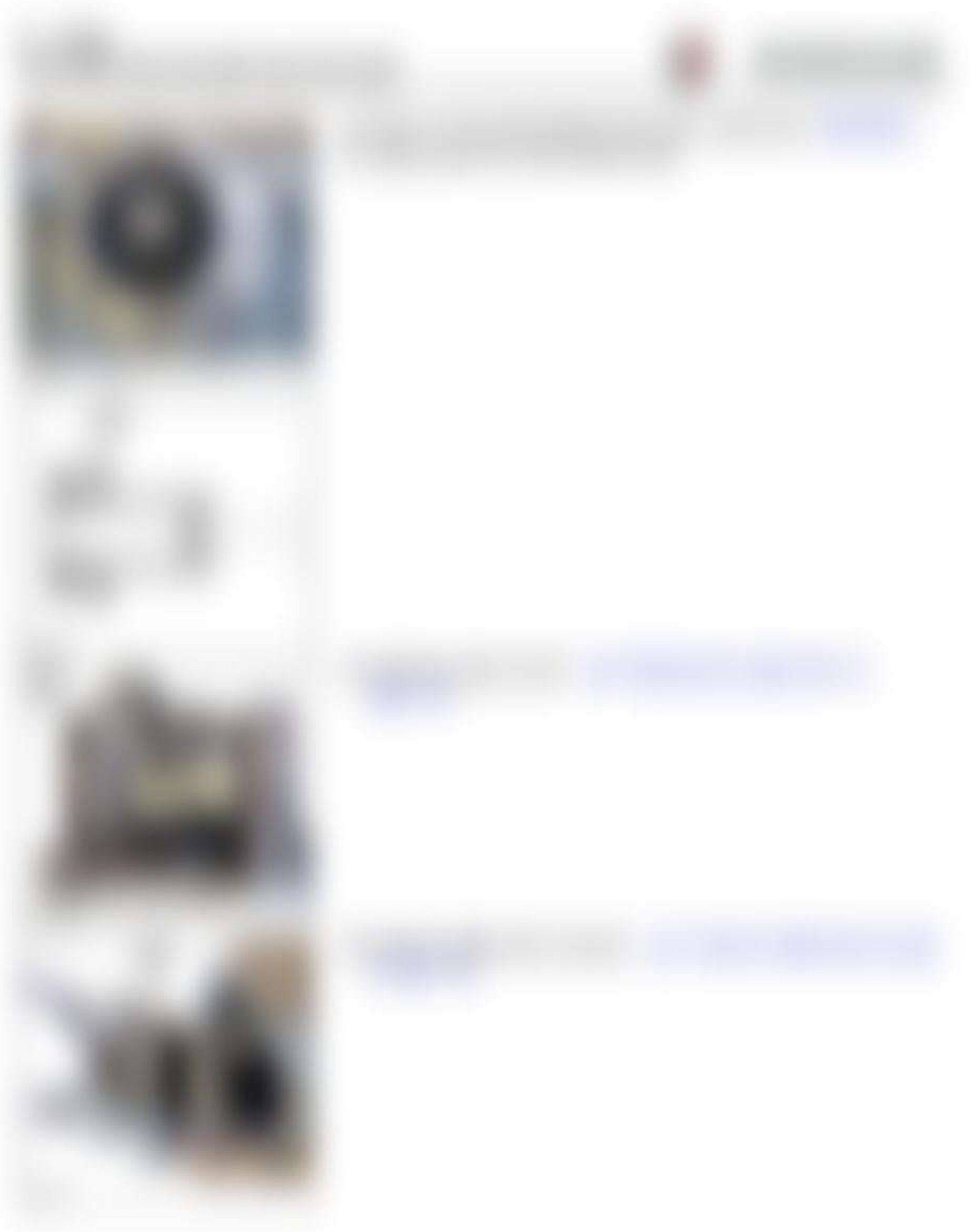


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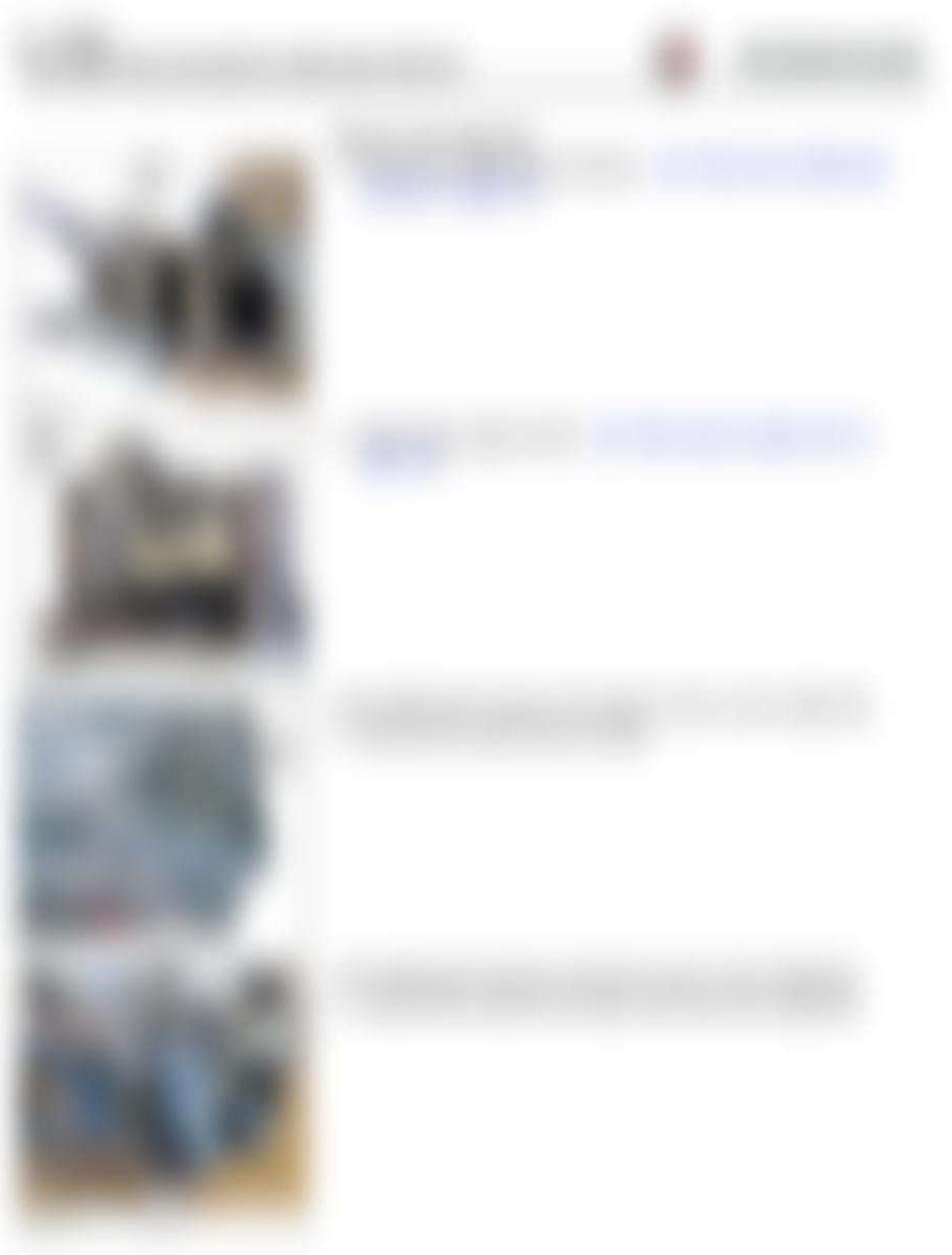
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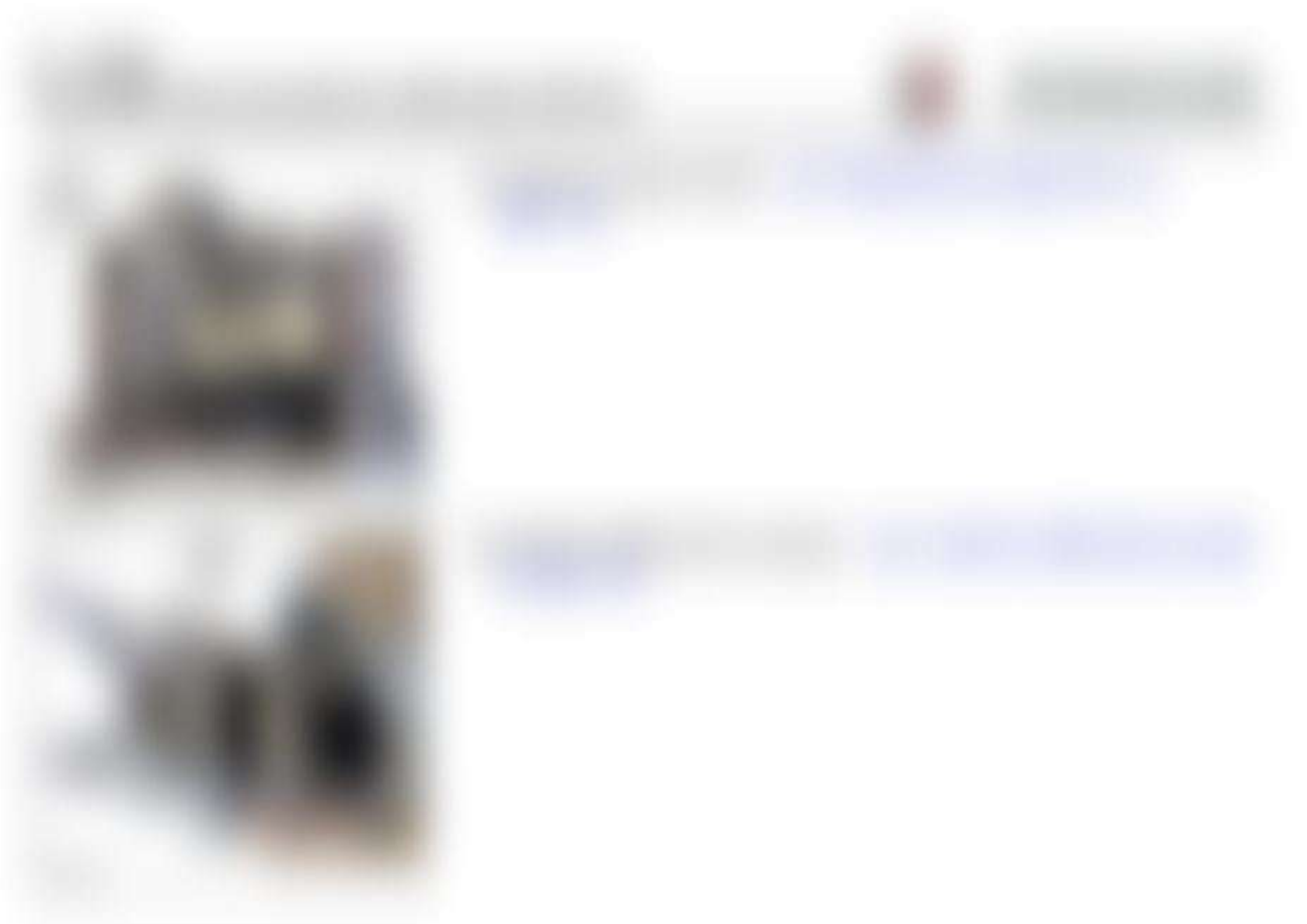
Tractor manual

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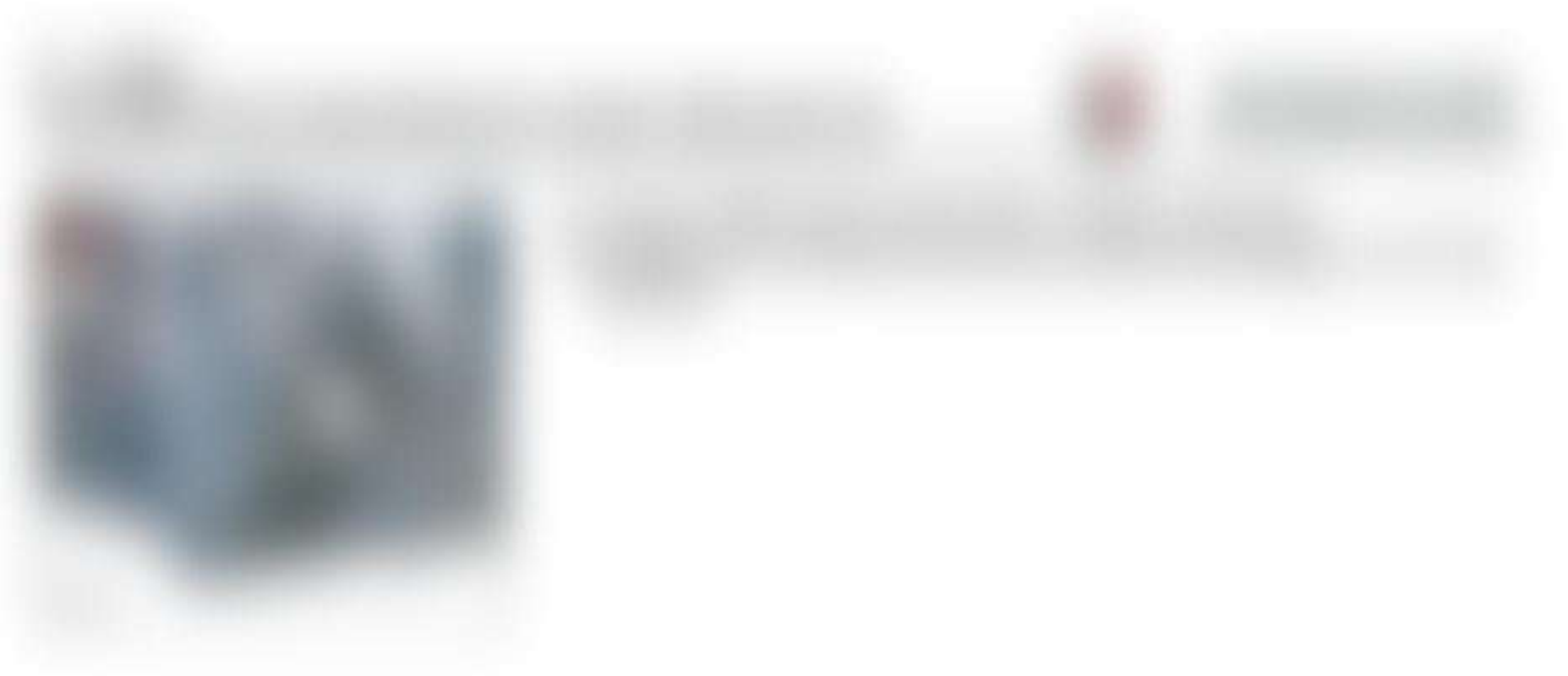
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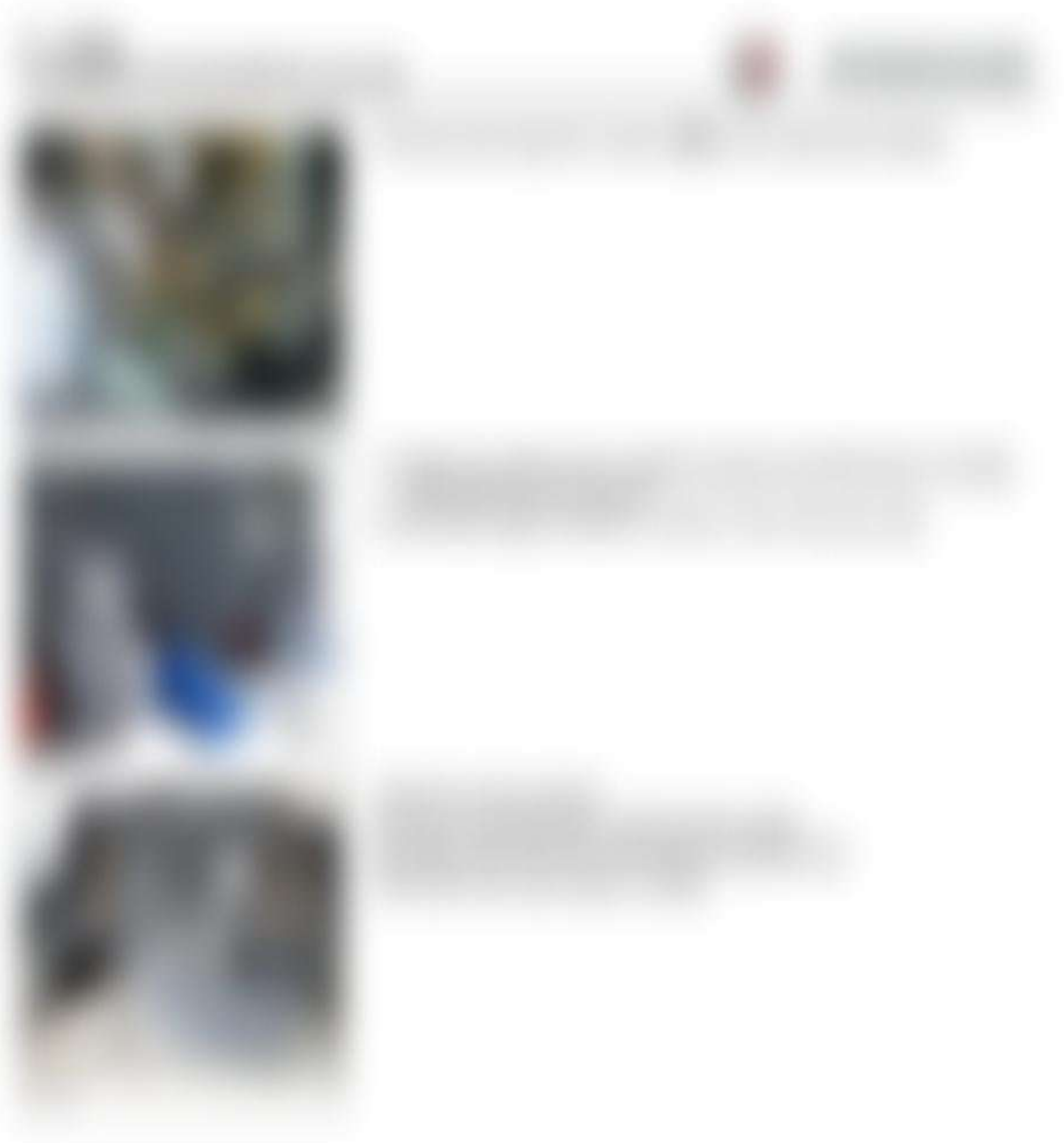


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1. The first step is to identify the problem. In this case, the issue is a leak from the valve. The next step is to check the pressure and the flow rate. If the pressure is too high, it may cause the valve to leak. If the flow rate is too low, it may cause the valve to close too quickly.



2. The second step is to check the valve's operation. The valve should be able to open and close smoothly. If it is stuck or difficult to operate, it may be the cause of the leak. The next step is to check the valve's seal. The seal should be intact and not damaged.



3. The third step is to check the valve's seal. The seal should be intact and not damaged. If the seal is damaged, it may cause the valve to leak. The next step is to check the valve's actuator. The actuator should be able to operate the valve smoothly.



4. The fourth step is to check the valve's actuator. The actuator should be able to operate the valve smoothly. If the actuator is damaged, it may cause the valve to leak. The next step is to check the valve's control system. The control system should be able to operate the valve smoothly.



5. The fifth step is to check the valve's control system. The control system should be able to operate the valve smoothly. If the control system is damaged, it may cause the valve to leak. The next step is to check the valve's installation. The valve should be installed correctly and not damaged.



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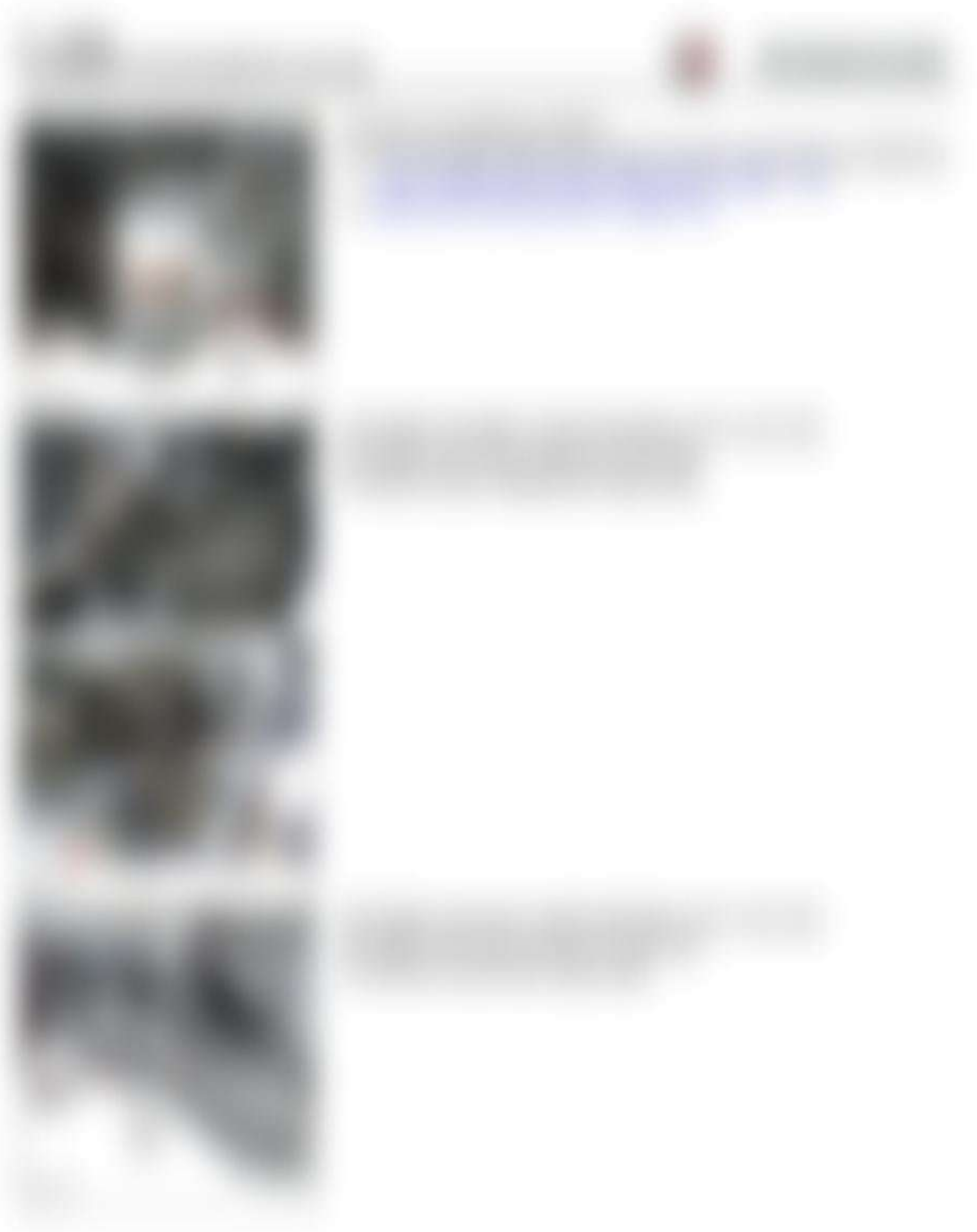
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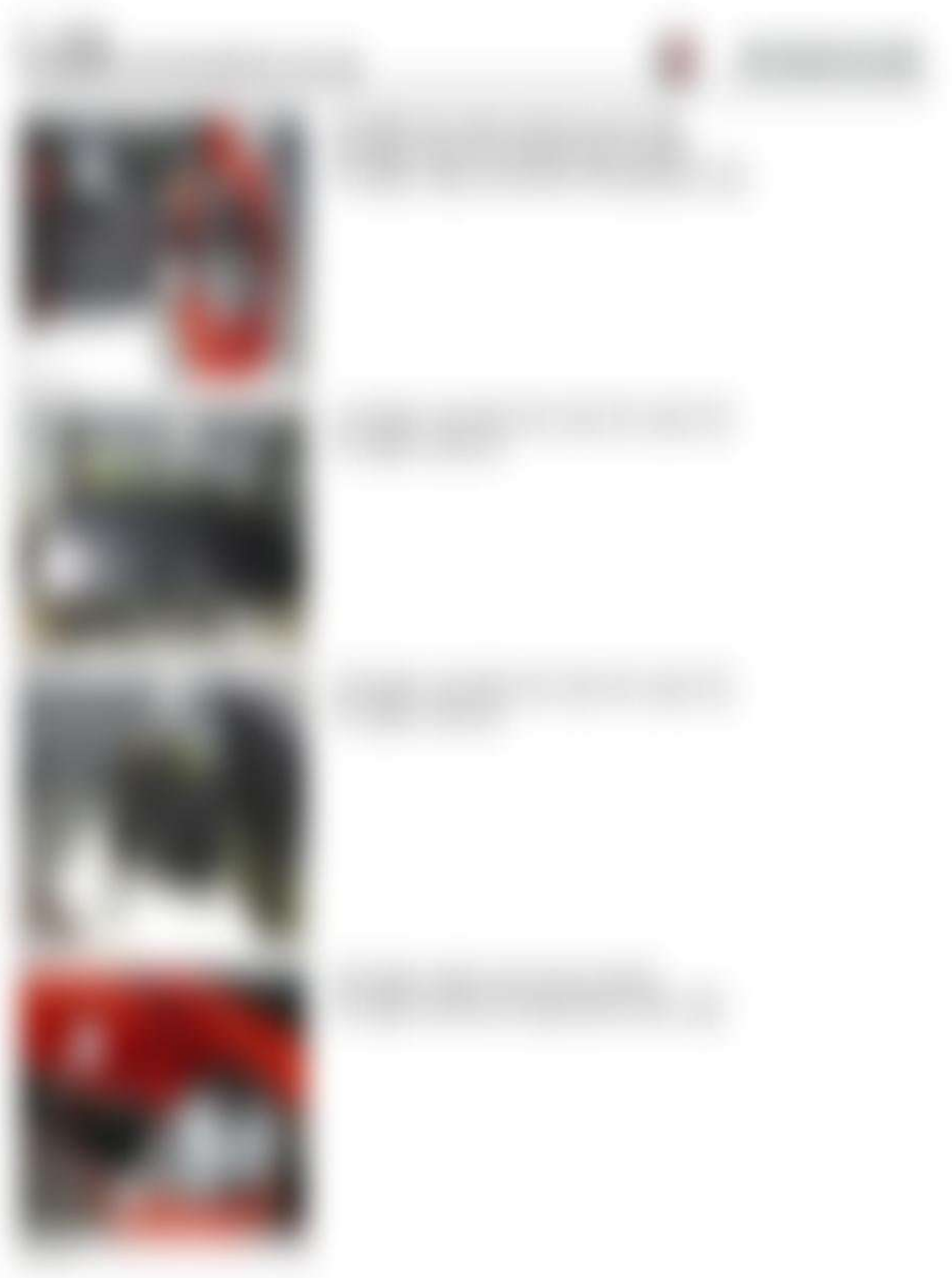


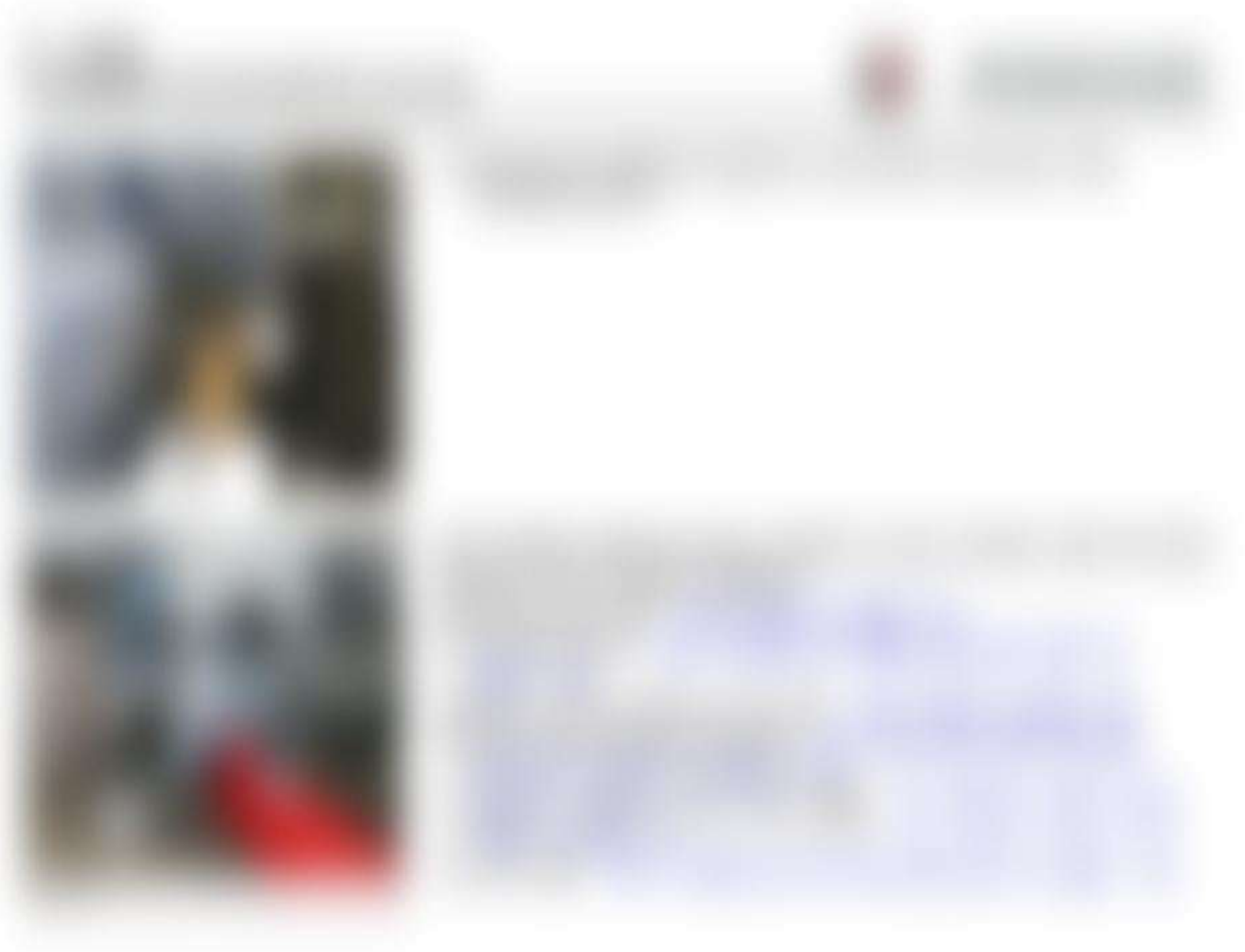
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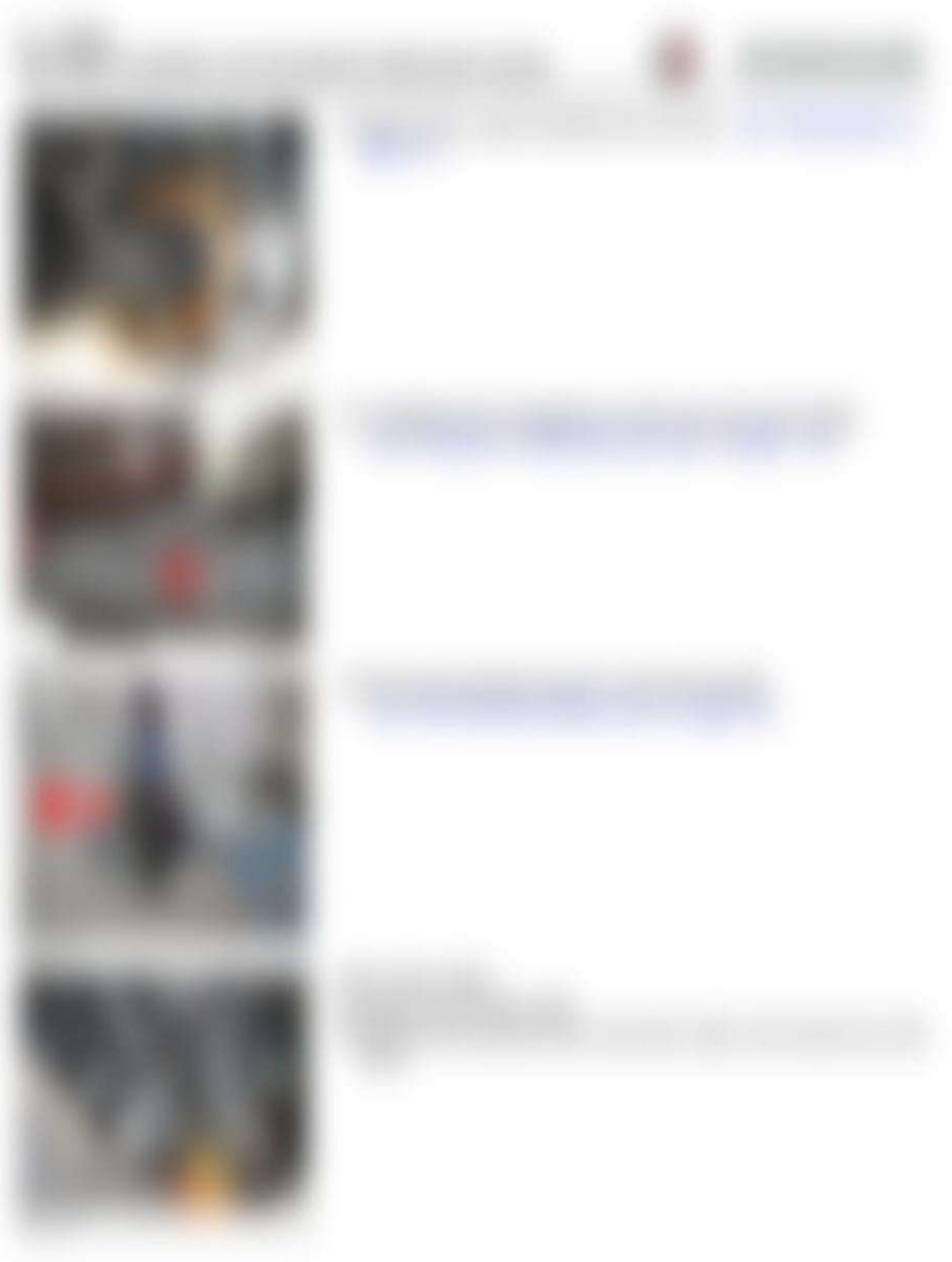


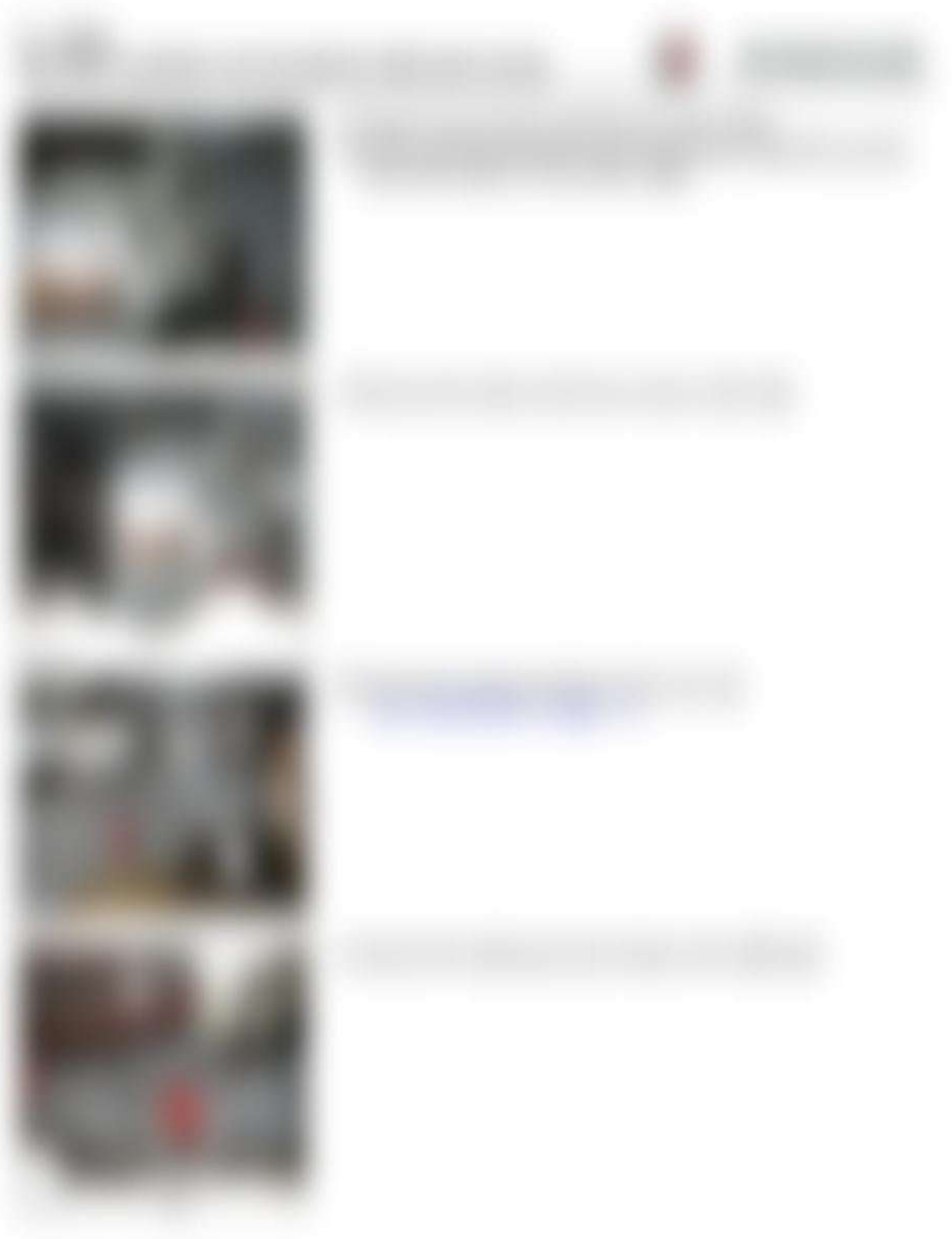




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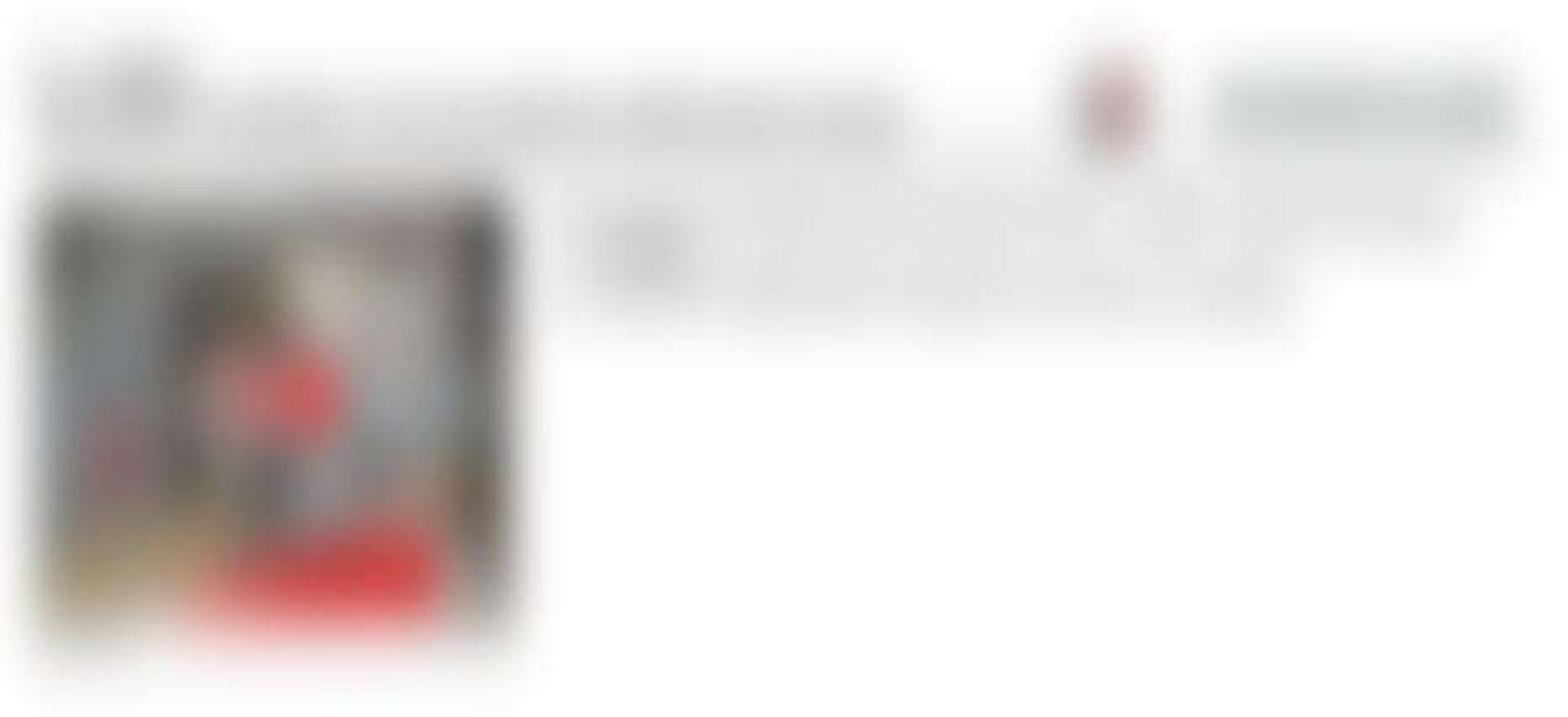
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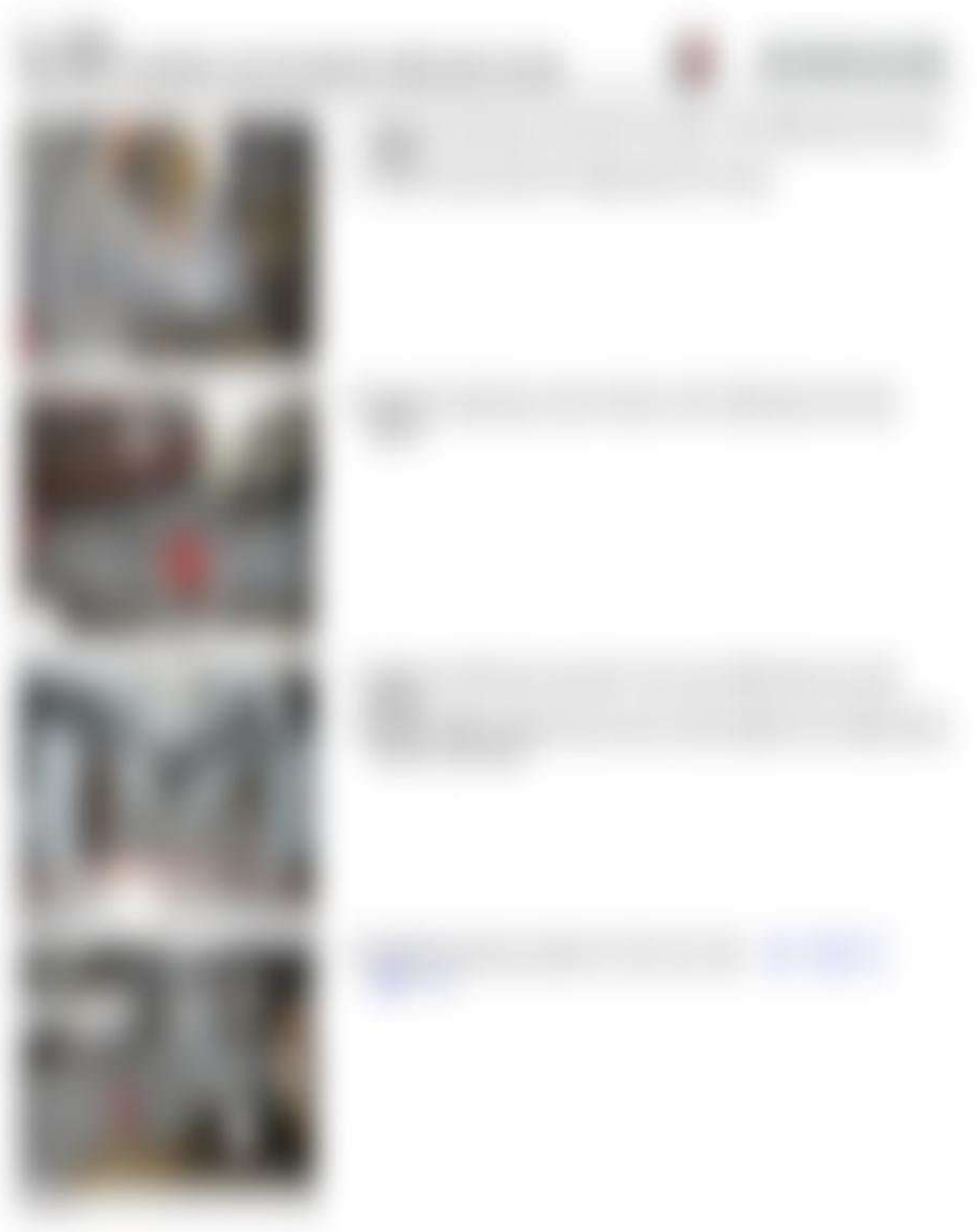
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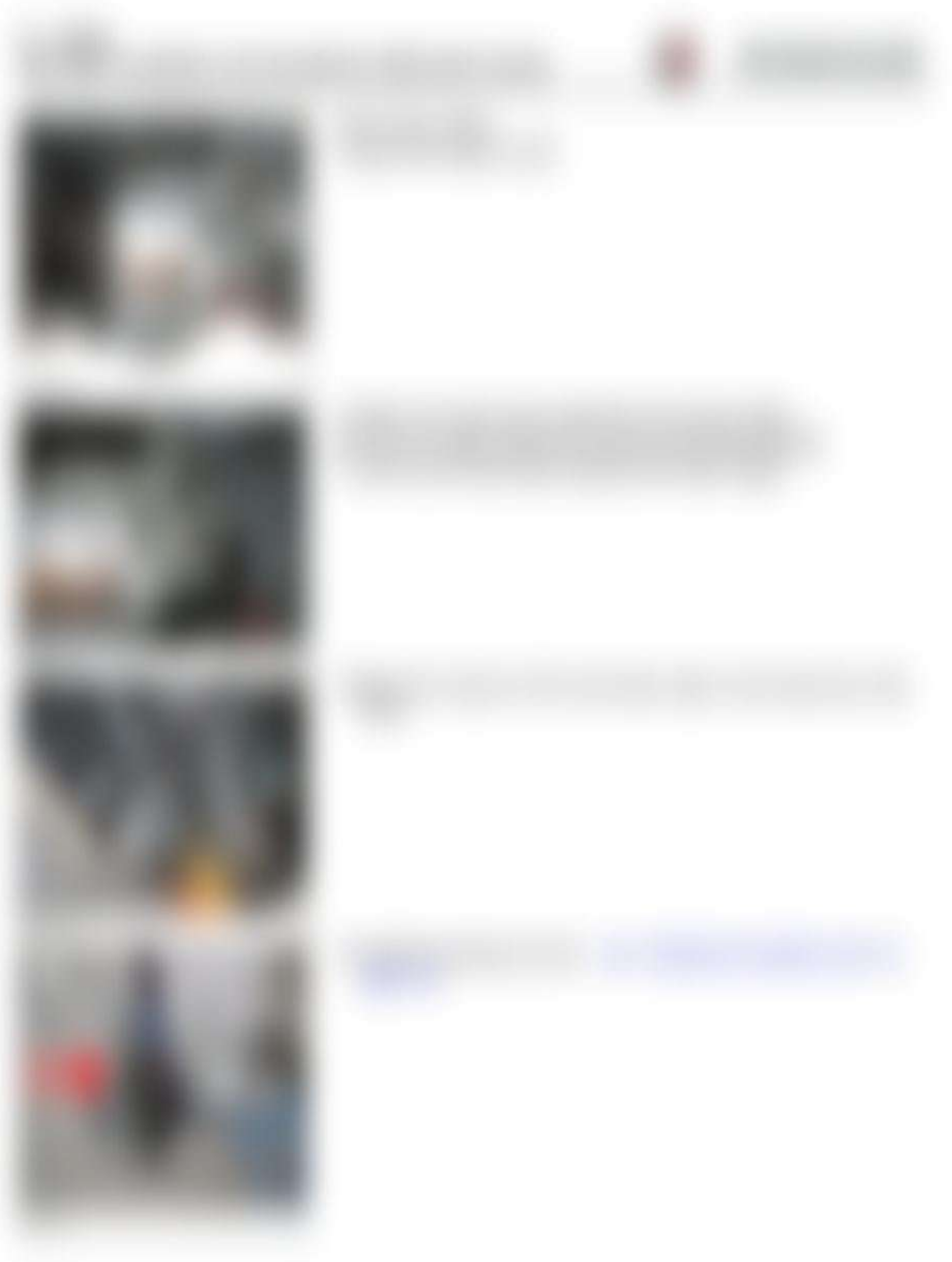
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1. Introduction

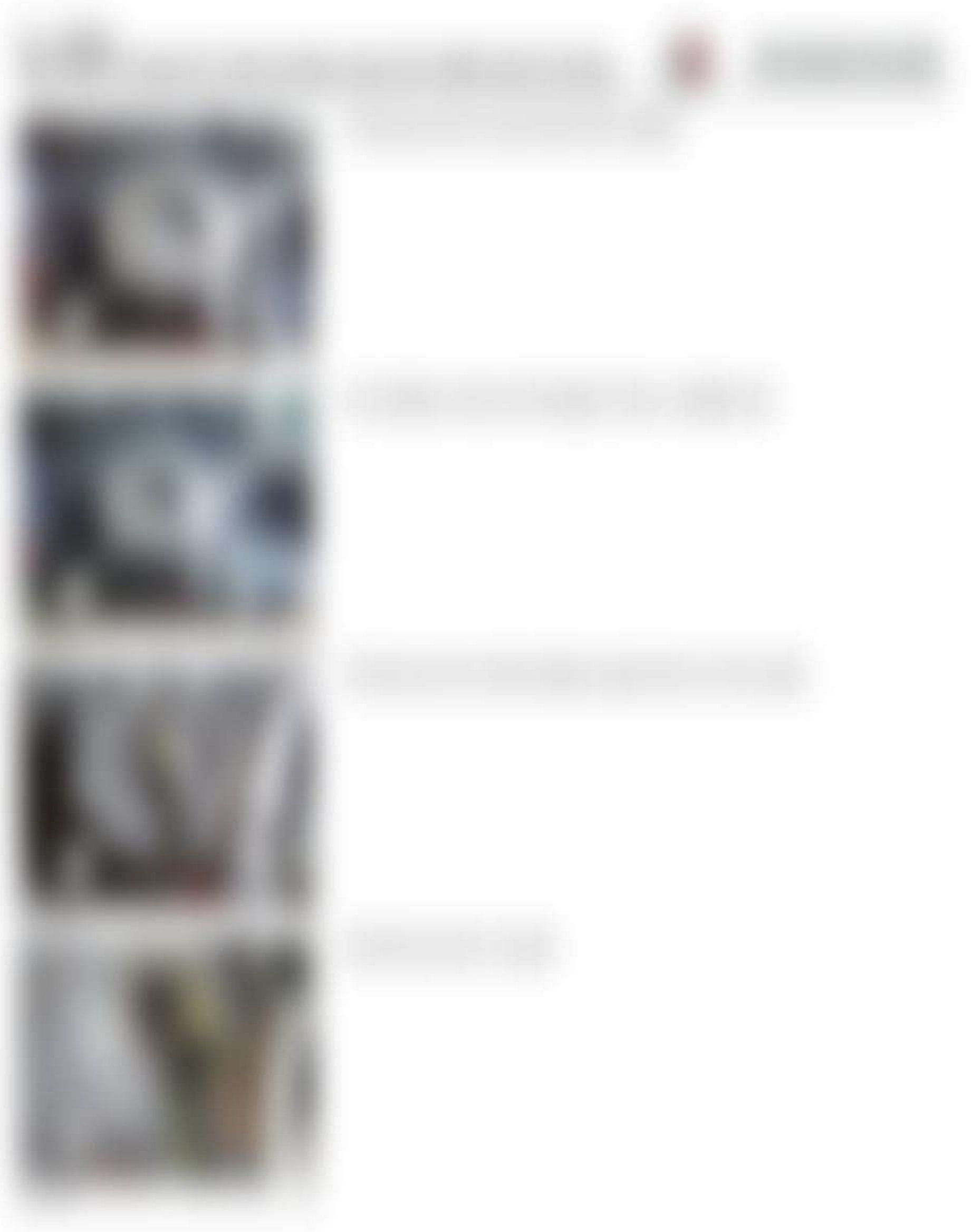
2. Methodology

3. Results

4. Discussion

5. Conclusion







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1. The first step is to identify the problem. In this case, the problem is that the engine is not starting. This could be due to a variety of reasons, such as a dead battery, a clogged air filter, or a faulty spark plug.

2. The next step is to check the battery. A dead battery is a common cause of engine failure. To check the battery, look for any signs of corrosion or damage. If the battery is dead, it will need to be recharged or replaced.

3. If the battery is good, the next step is to check the air filter. A clogged air filter can restrict the flow of air to the engine, which can prevent it from starting. To check the air filter, look for any signs of dirt or debris. If the filter is clogged, it will need to be replaced.

4. If the air filter is good, the next step is to check the spark plug. A faulty spark plug can prevent the engine from starting. To check the spark plug, look for any signs of wear or damage. If the spark plug is faulty, it will need to be replaced.



5. If the spark plug is good, the next step is to check the fuel system. A clogged fuel filter can restrict the flow of fuel to the engine, which can prevent it from starting. To check the fuel filter, look for any signs of dirt or debris. If the filter is clogged, it will need to be replaced.

6. If the fuel filter is good, the next step is to check the timing belt. A broken timing belt can prevent the engine from starting. To check the timing belt, look for any signs of wear or damage. If the timing belt is broken, it will need to be replaced.

7. If the timing belt is good, the next step is to check the water pump. A faulty water pump can prevent the engine from starting. To check the water pump, look for any signs of leaks or damage. If the water pump is faulty, it will need to be replaced.

8. If the water pump is good, the next step is to check the alternator. A faulty alternator can prevent the engine from starting. To check the alternator, look for any signs of wear or damage. If the alternator is faulty, it will need to be replaced.



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1. The first step is to identify the problem. In this case, the problem is that the tractor is not starting. There are several possible causes for this problem, including a dead battery, a faulty starter motor, or a problem with the fuel system. The first step is to check the battery. If the battery is dead, it will need to be recharged or replaced. If the battery is good, the next step is to check the starter motor. If the starter motor is faulty, it will need to be replaced. If the starter motor is good, the next step is to check the fuel system. If there is a problem with the fuel system, it will need to be repaired.



2. The second step is to check the battery. If the battery is dead, it will need to be recharged or replaced. If the battery is good, the next step is to check the starter motor. If the starter motor is faulty, it will need to be replaced. If the starter motor is good, the next step is to check the fuel system. If there is a problem with the fuel system, it will need to be repaired.





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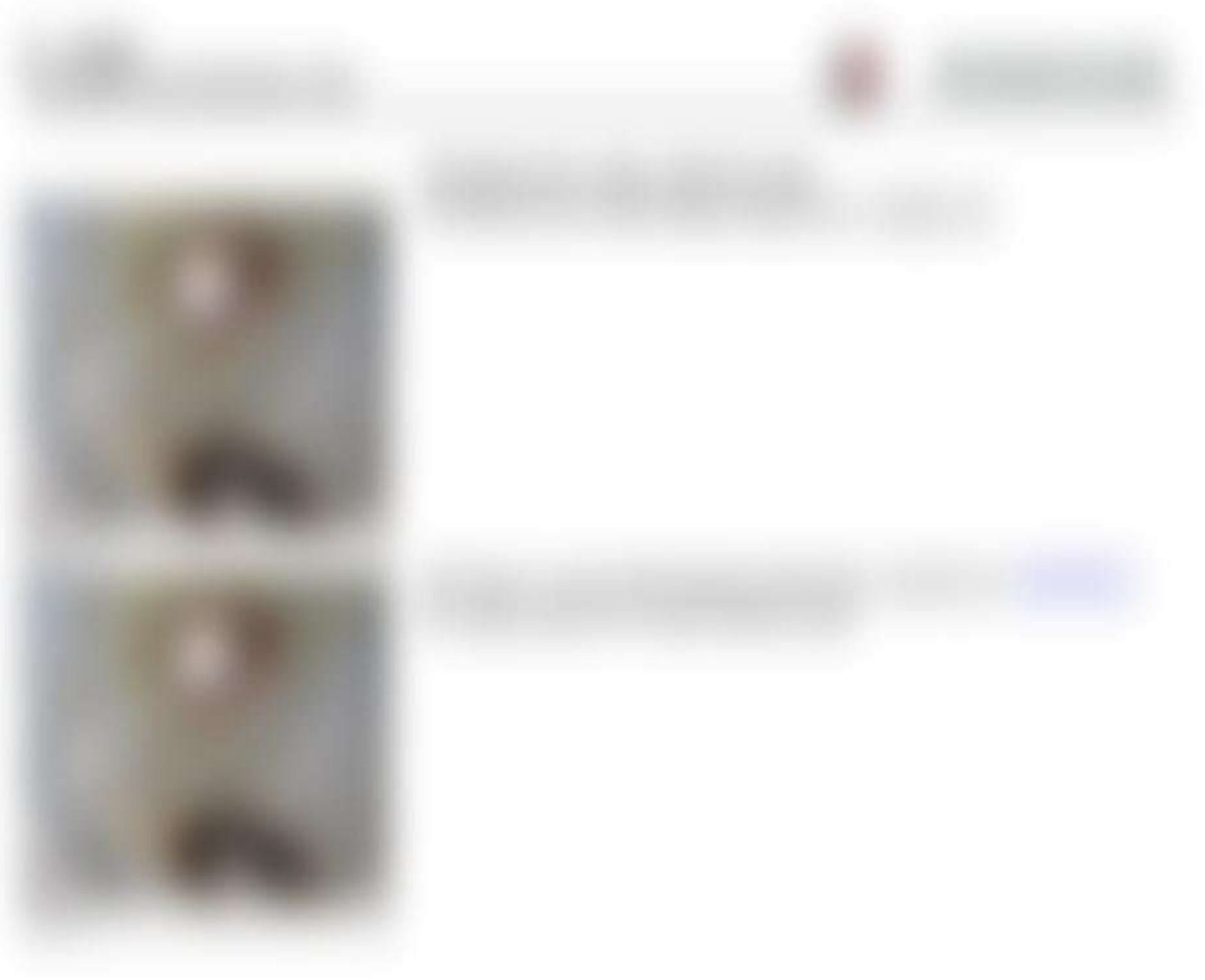
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the specific procedures and protocols that must be followed when conducting these activities. It provides a clear and concise guide for all staff members to ensure consistency and compliance with the organization's policies.



3. The third part of the document provides a detailed overview of the organization's current status and performance. It includes a summary of key metrics and a comparison to the previous period, highlighting areas of strength and opportunities for improvement.

4. The fourth part of the document discusses the organization's future plans and strategic goals. It outlines the key initiatives and projects that will be undertaken over the next year, along with the resources and support required to achieve these objectives.

5. The fifth part of the document concludes with a summary of the key findings and recommendations. It emphasizes the need for continued collaboration and communication among all staff members to ensure the organization's long-term success and growth.



1. Introduction
2. Description of the component
3. Dimensions and specifications
4. Material and manufacturing process
5. Applications and uses

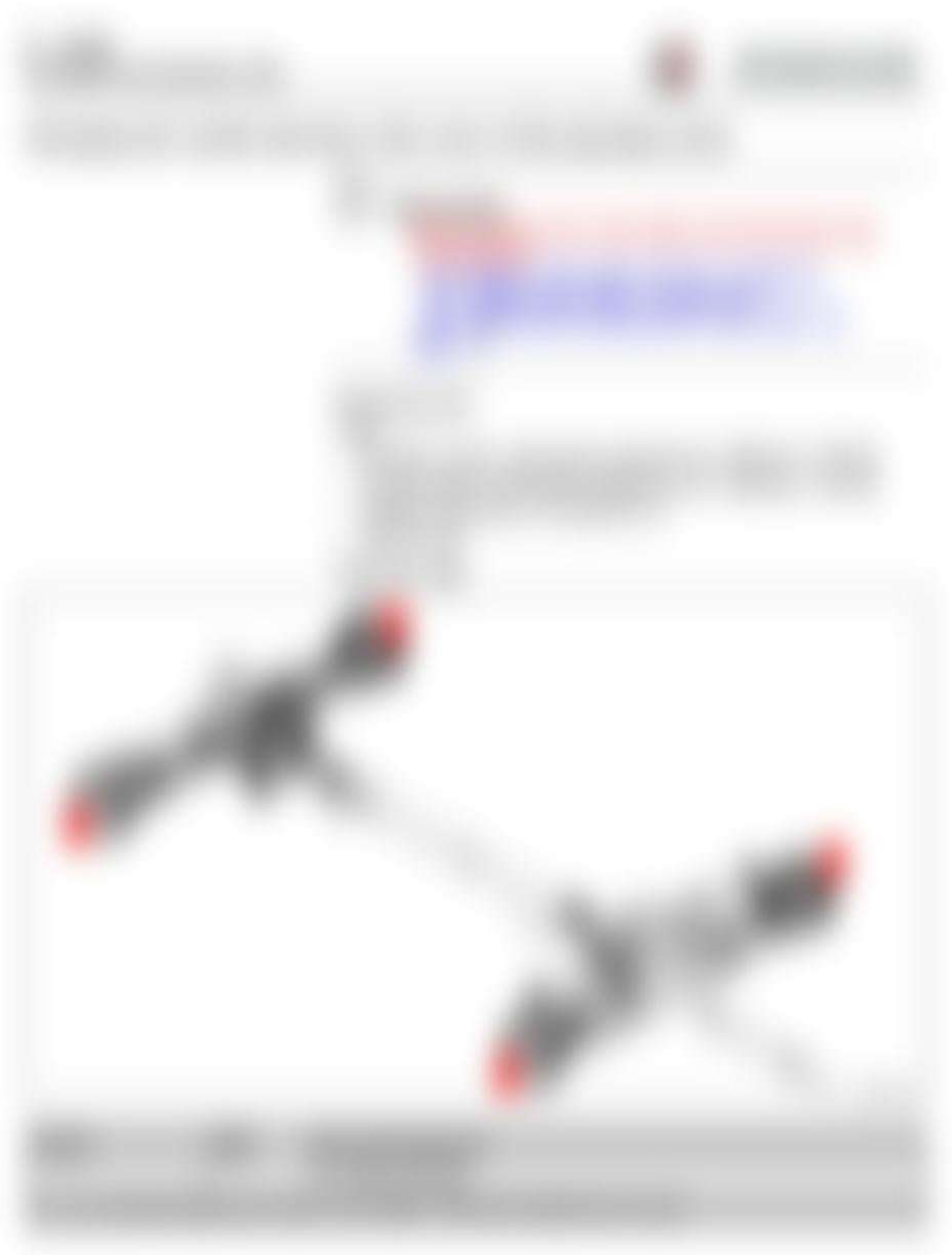
6. Maintenance and care

7. Conclusion

8. Contact information
9. Disclaimer

10. Additional resources





1. Introduction

2. Objectives

3. Methodology

4. Results and Discussion

5. Conclusion



6. Appendix

7. References

8. Contact Information

9. Footer





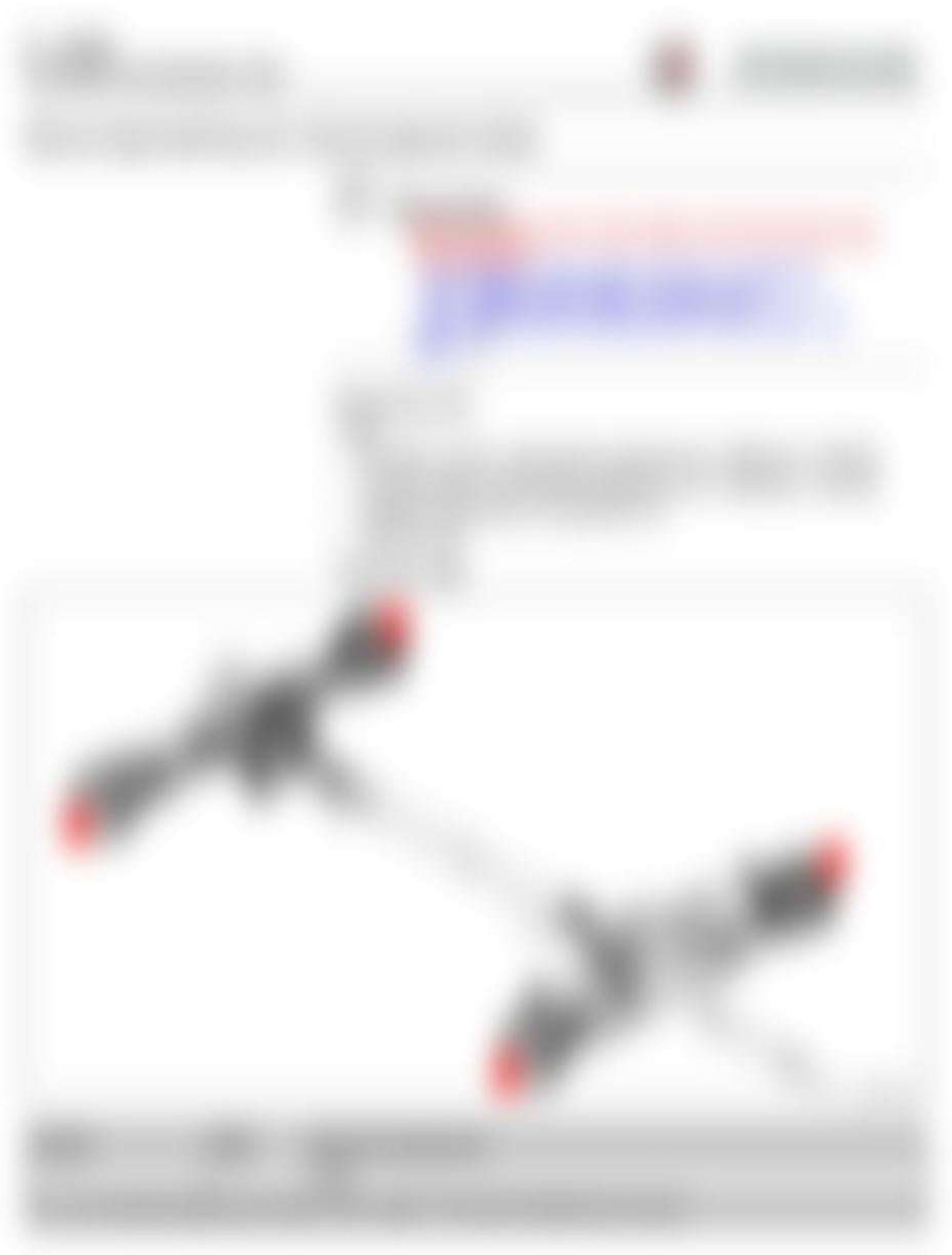
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Bottom section of the page containing blurred text.



Tractor

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Another line of text, possibly a link or a section header, which is illegible.

Text at the bottom of the page, likely a footer or a page number, which is illegible.





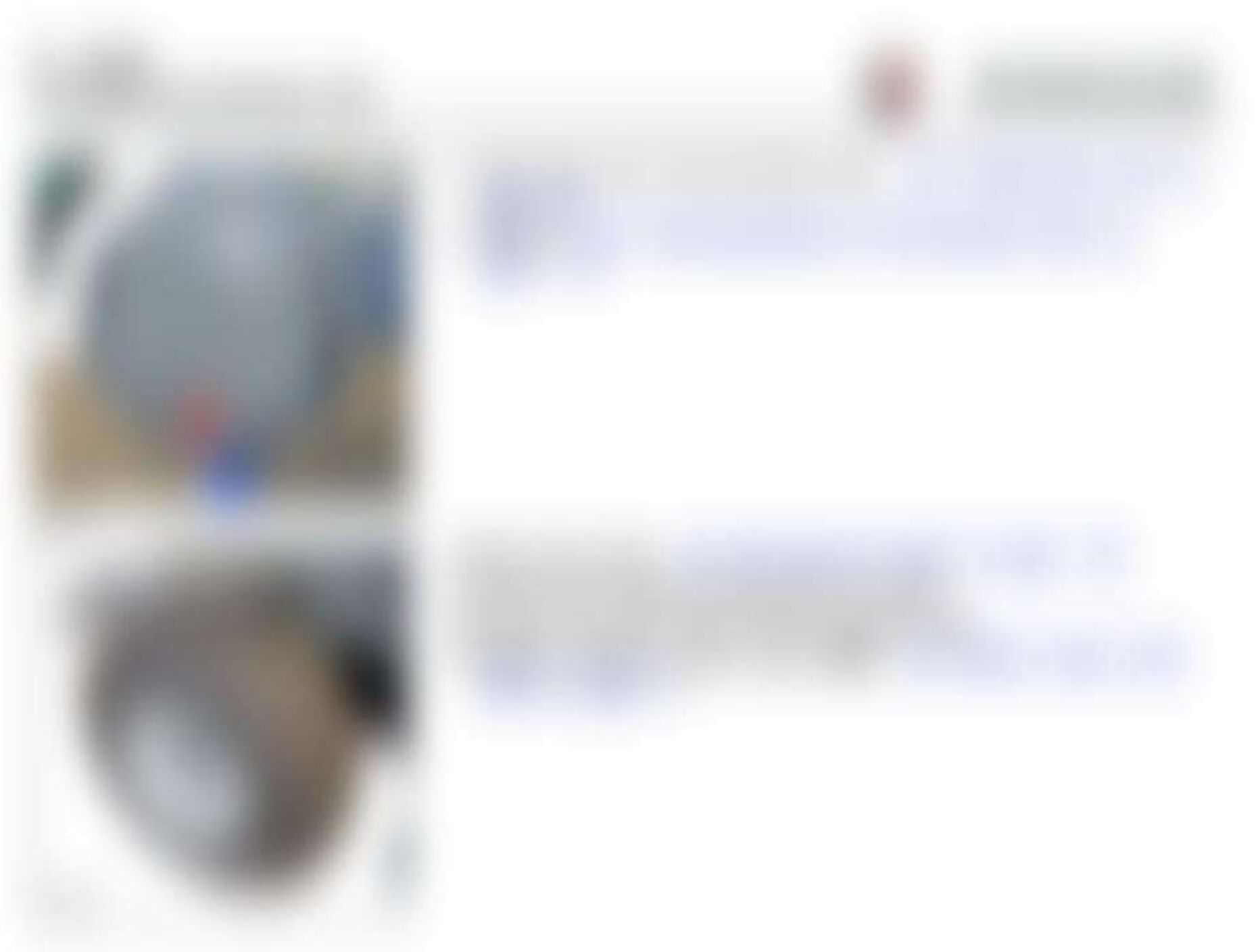
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1. The first step is to identify the problem. In this case, the problem is that the tractor is not starting. There are several possible causes for this problem, including a dead battery, a faulty starter motor, or a problem with the fuel system. The first step is to check the battery. If the battery is dead, it will need to be recharged or replaced. If the battery is good, the next step is to check the starter motor. If the starter motor is faulty, it will need to be replaced. If the starter motor is good, the next step is to check the fuel system. If there is a problem with the fuel system, it will need to be repaired.

2. The second step is to check the battery. The battery is the source of power for the tractor's electrical system. If the battery is dead, the tractor will not start. To check the battery, look for a red light on the battery's cover. If there is a red light, the battery is dead. To recharge the battery, connect it to a charger. If the battery is not recharging, it will need to be replaced.

3. The third step is to check the starter motor. The starter motor is responsible for turning the engine over. If the starter motor is faulty, the tractor will not start. To check the starter motor, listen for a clicking sound when you turn the key. If you hear a clicking sound, the starter motor is faulty. To replace the starter motor, disconnect the battery, remove the old starter motor, and install the new one.

4. The fourth step is to check the fuel system. The fuel system is responsible for delivering fuel to the engine. If there is a problem with the fuel system, the tractor will not start. To check the fuel system, look for a red light on the fuel filter. If there is a red light, the fuel filter is clogged. To replace the fuel filter, disconnect the fuel line, remove the old filter, and install the new one.



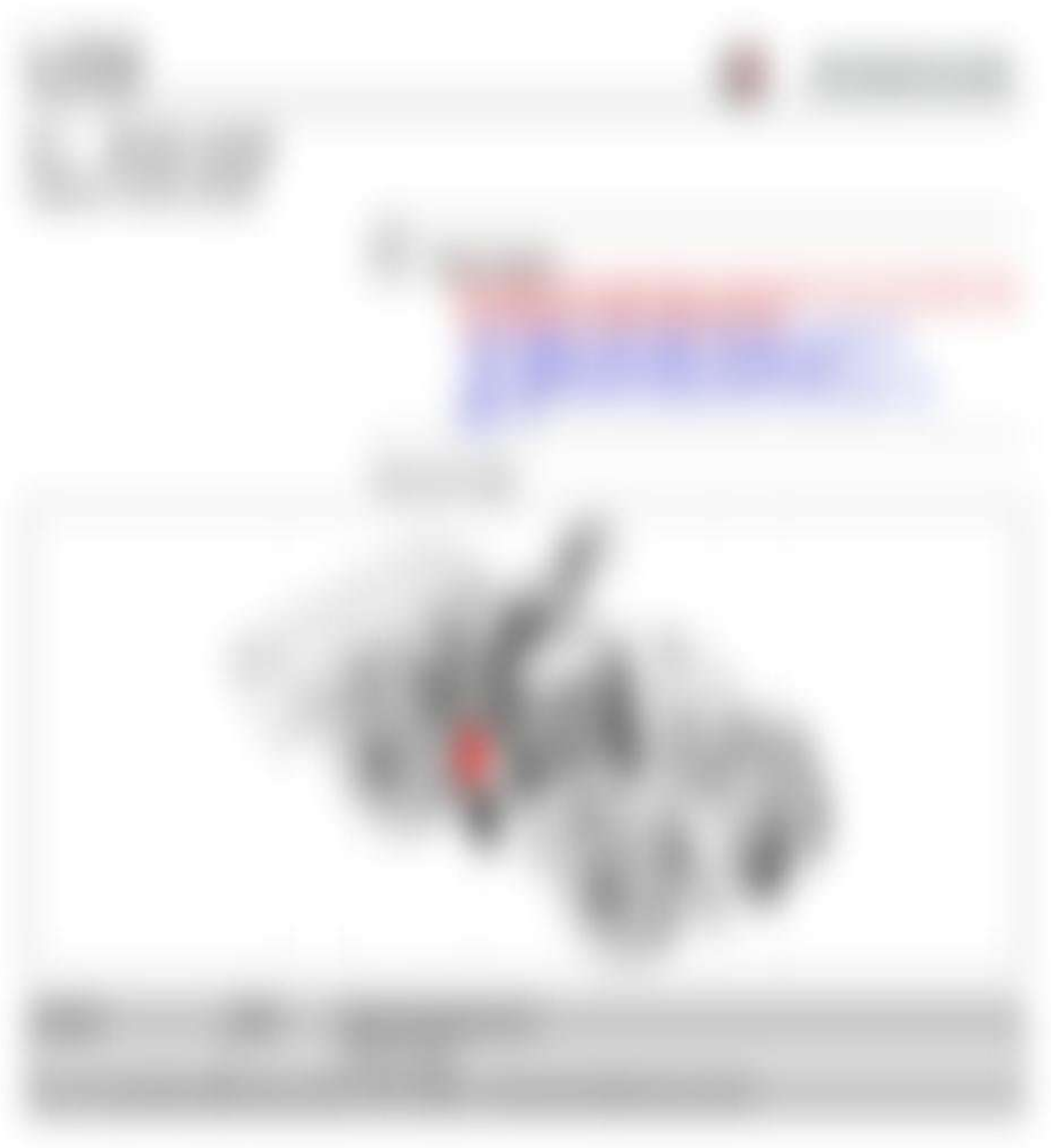
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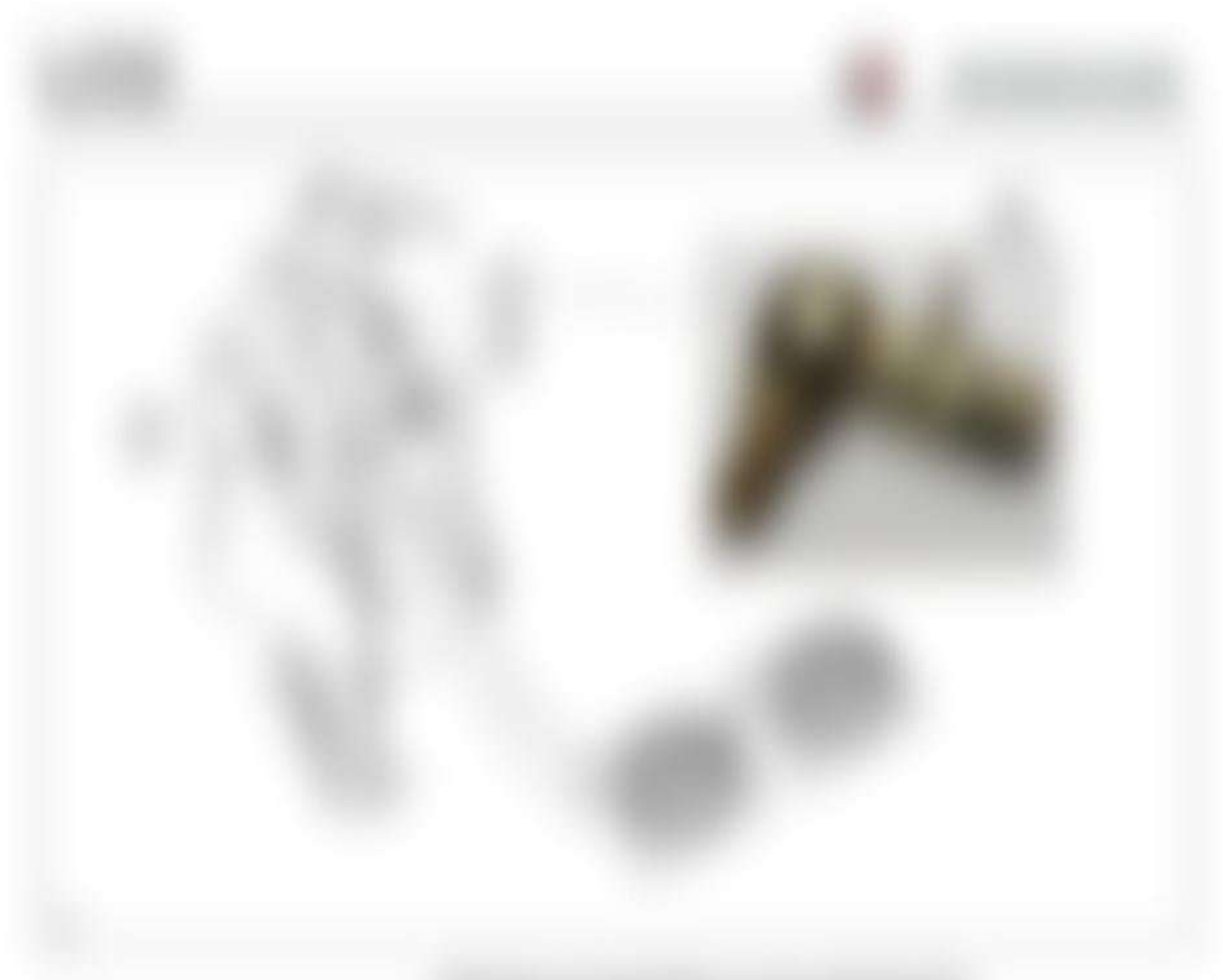
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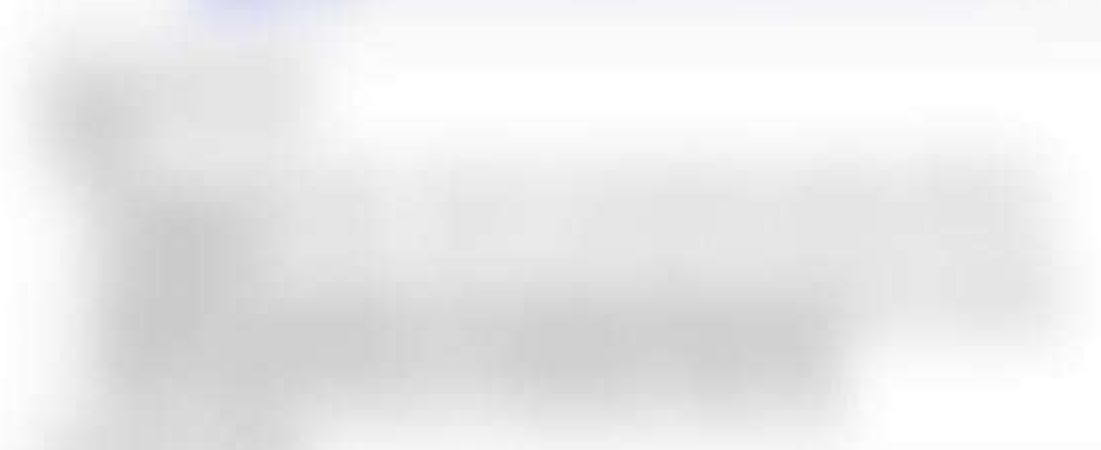






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Third section of text, likely a paragraph.





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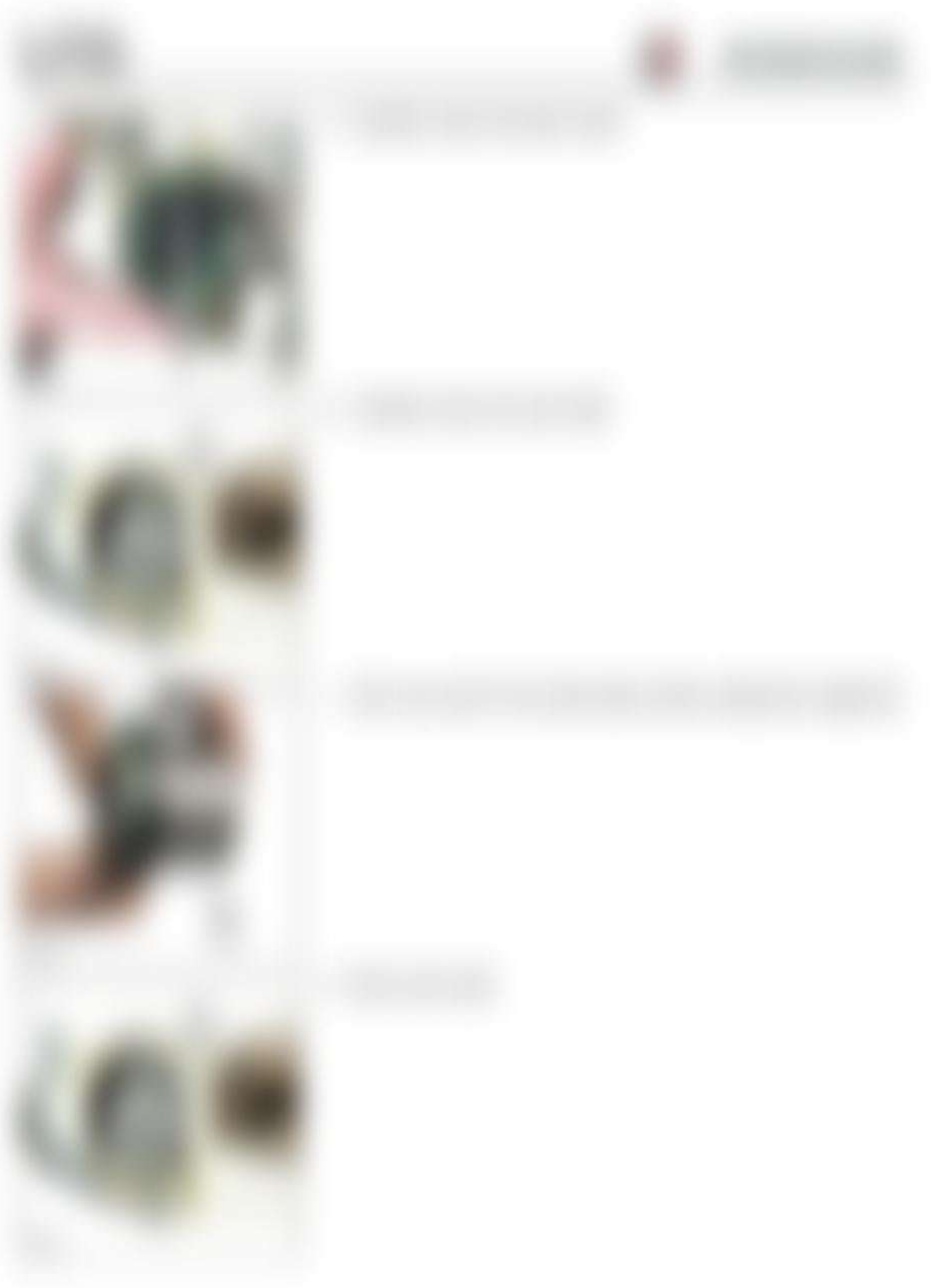
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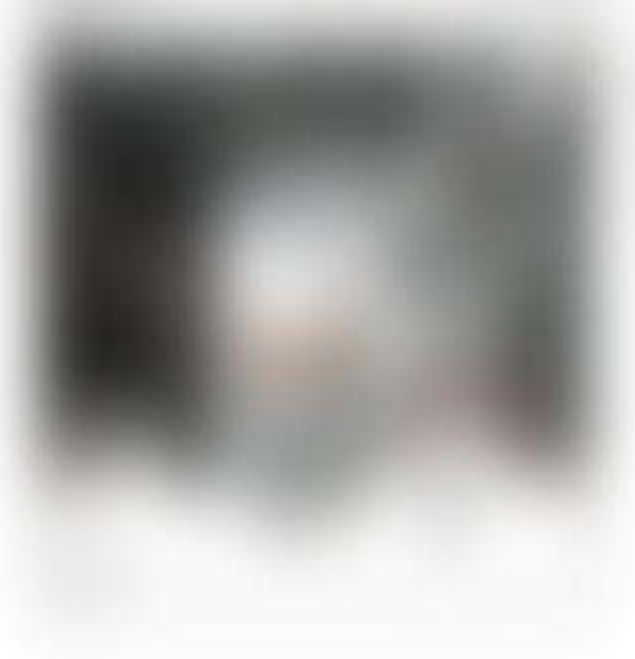




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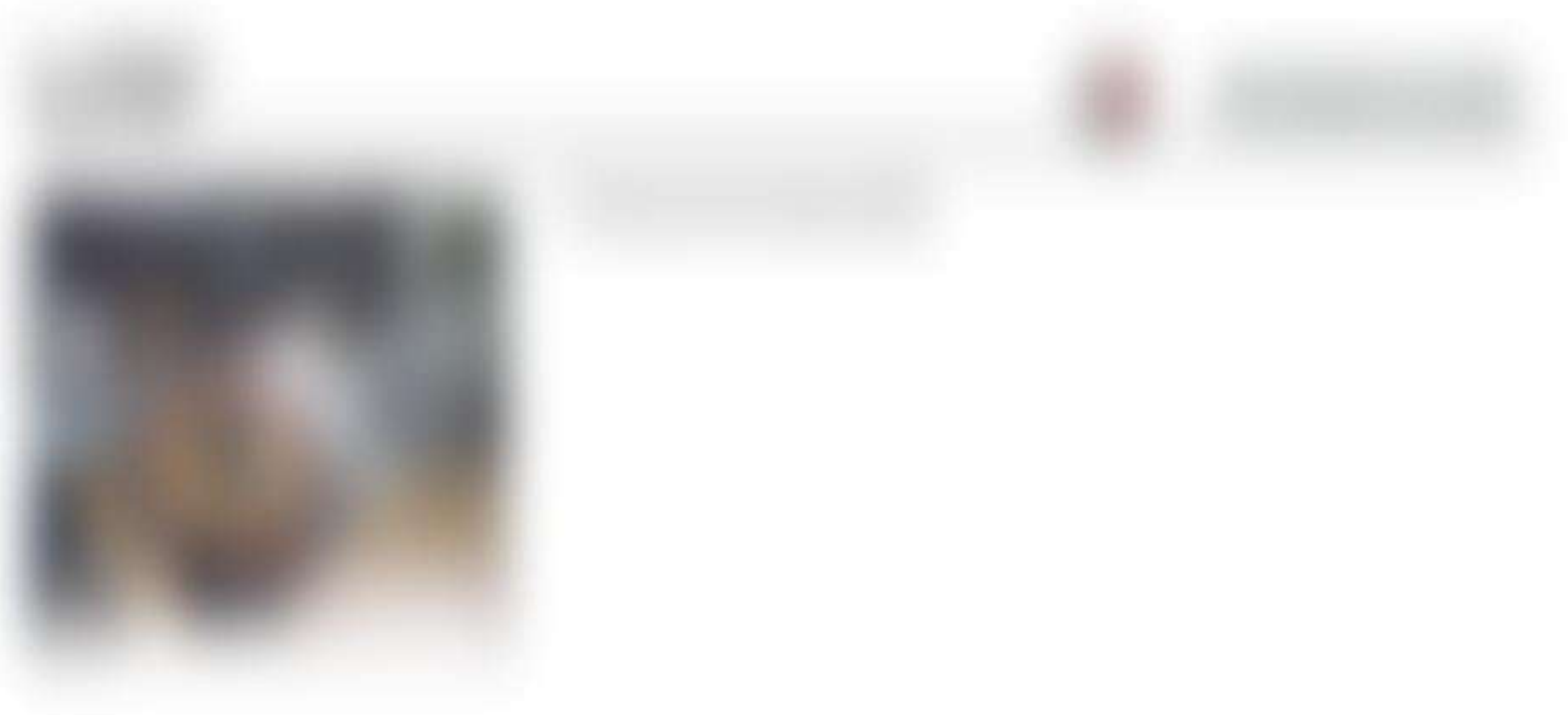
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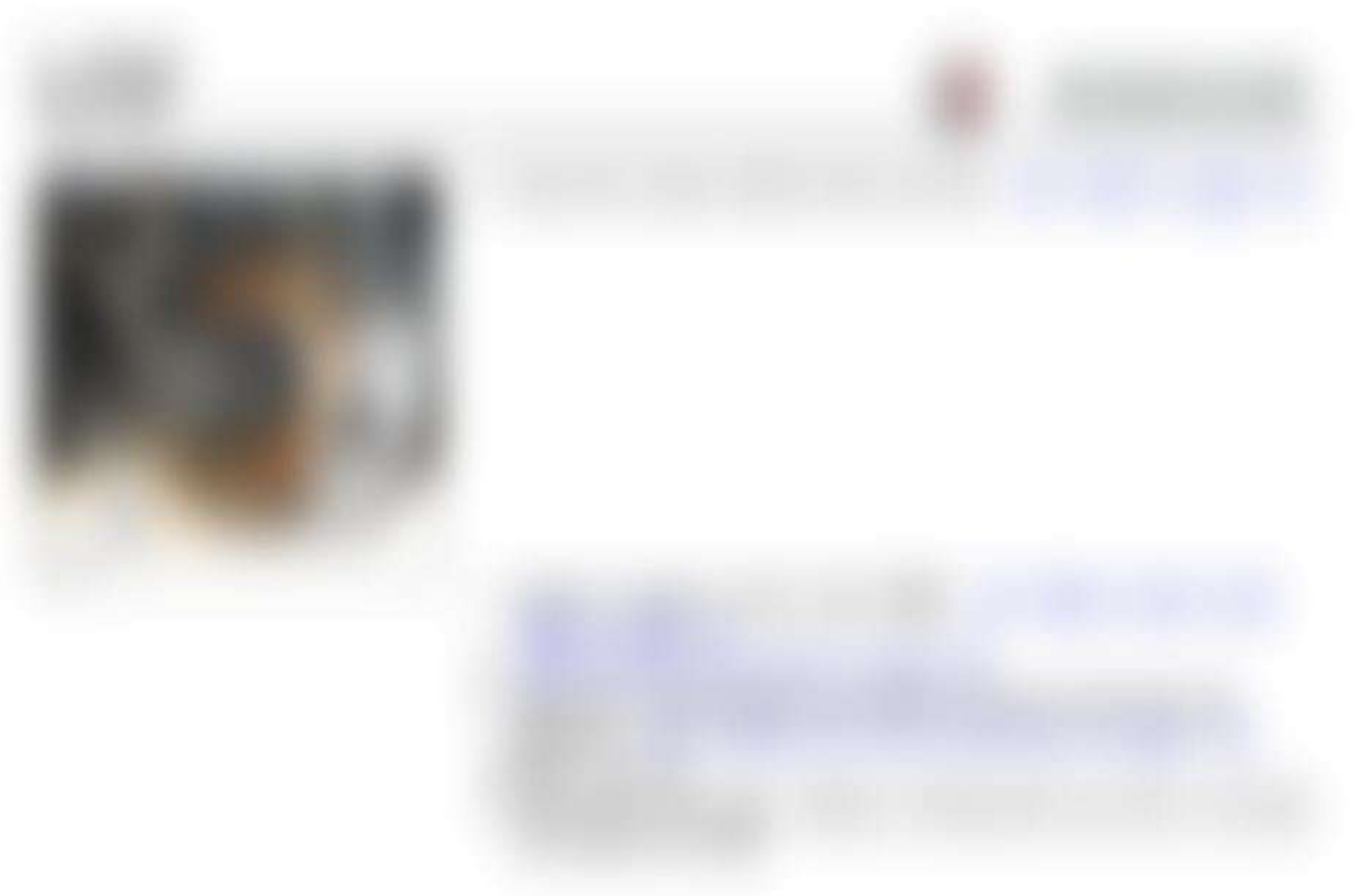
1. Fan and belt drive system

2. Alternator and electrical components

3. Engine block and cooling system

4. Engine and surrounding components

5. Engine and surrounding components











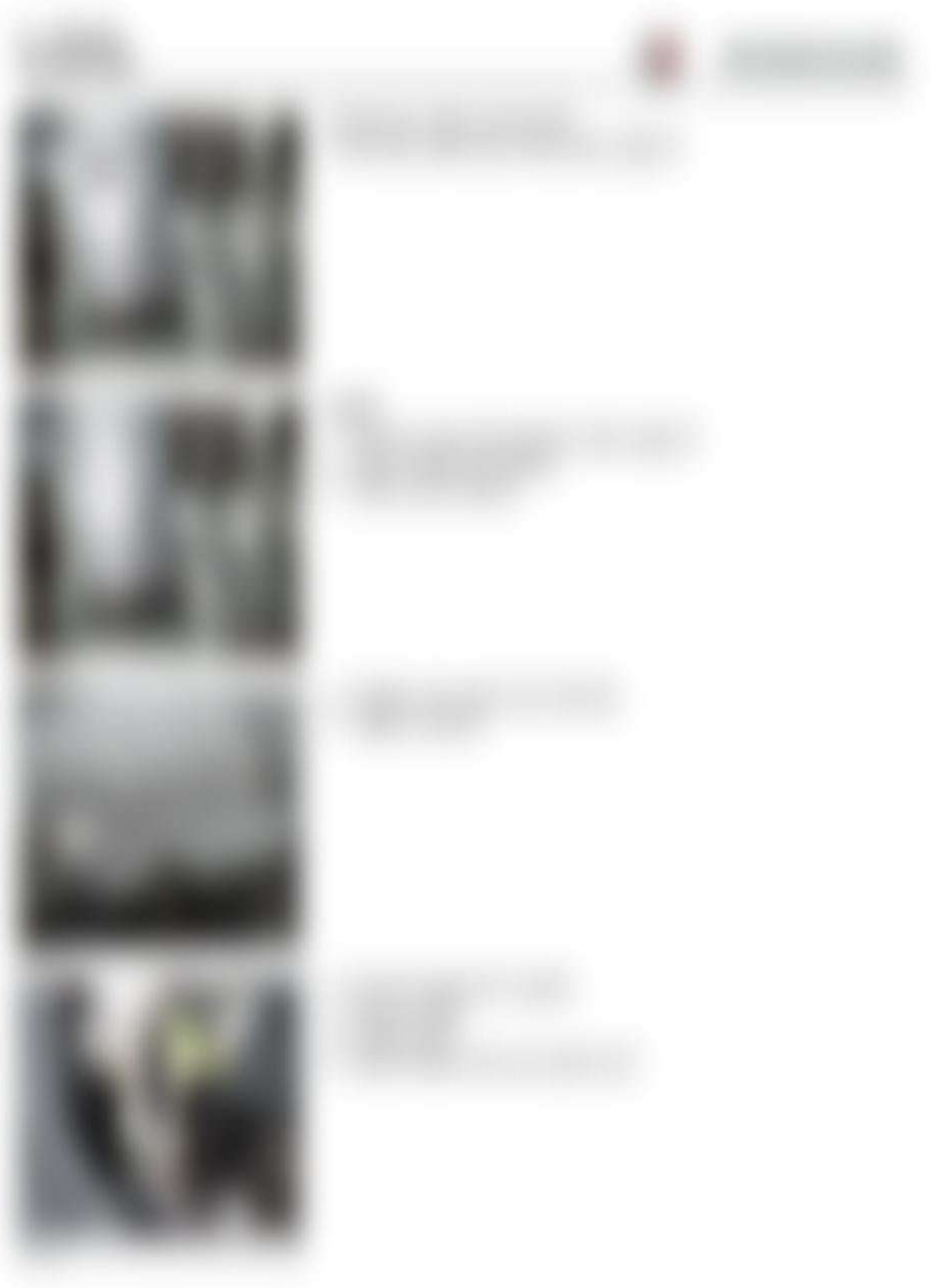








Figure 1



Figure 2

Figure 3

Figure 4



1. The first image shows a close-up of a mechanical component, likely a valve or actuator, with a dark, cylindrical body and a lighter-colored top section. The component is mounted on a metal surface.



2. The second image shows a person's hands working on a mechanical assembly, possibly a valve or actuator, with a blue component visible. The person is wearing a white shirt and is focused on the task.



3. The third image shows a person's hands working on a mechanical assembly, possibly a valve or actuator, with a blue component visible. The person is wearing a white shirt and is focused on the task.



4. The fourth image shows a person's hands working on a mechanical assembly, possibly a valve or actuator, with a blue component visible. The person is wearing a white shirt and is focused on the task.



1. The first step is to ensure that the engine is turned off and the key is removed from the ignition. This is a safety precaution to prevent any accidental starting of the engine.



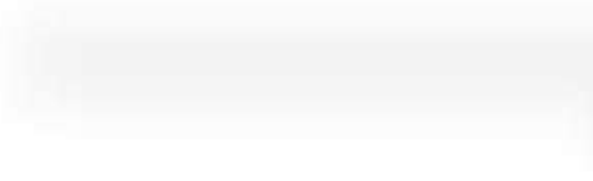
2. Next, you should check the oil level in the engine. This can be done by pulling out the dipstick and checking the level against the markings on the dipstick.



3. After checking the oil level, you should check the air filter. A dirty air filter can restrict airflow to the engine, which can lead to poor performance and increased fuel consumption.



4. Finally, you should check the water level in the radiator. A low water level can lead to overheating of the engine, which can cause serious damage.



5. Once you have completed these checks, you can start the engine and listen for any unusual sounds or vibrations. If you notice anything abnormal, you should stop the engine immediately and investigate the cause.





Diagram illustrating the connection of the [redacted] to the [redacted].

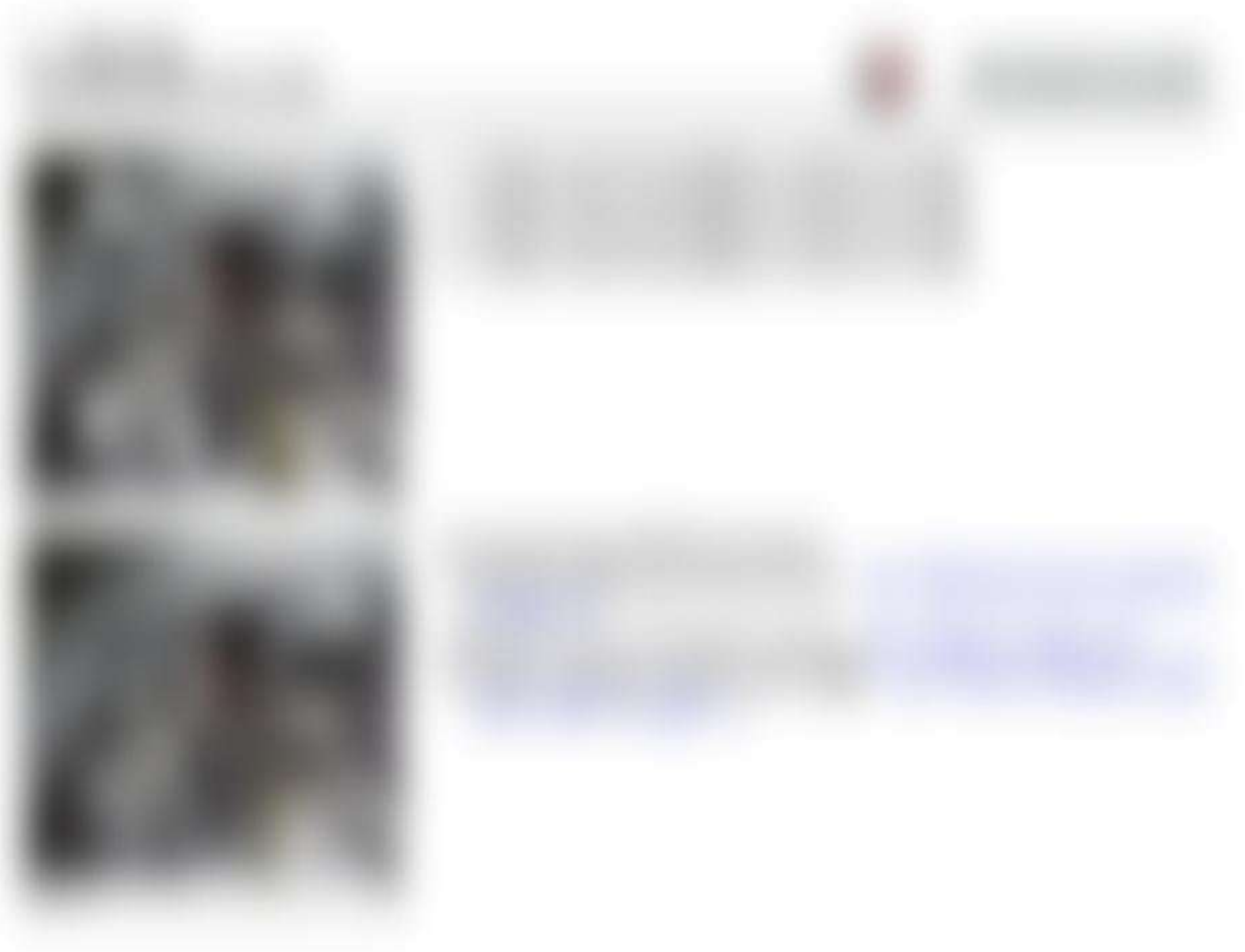


The diagram shows the [redacted] connected to the [redacted] via the [redacted].

For more information, please refer to the [redacted] manual.













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Text block 2: A paragraph of text, likely a description or instruction related to the image above.



Text block 3: A paragraph of text, likely a description or instruction related to the image above.



Text block 4: A paragraph of text, likely a description or instruction related to the image above.





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The tractor is a red tractor with a white hood and a black seat. It has a large front wheel and a smaller rear wheel. The tractor is shown in various positions, including driving forward, turning, and parked. The background is a plain, light-colored surface.



The following information is provided for your reference. It is not intended to be a substitute for the original manual. For more information, please refer to the original manual or contact the manufacturer.

1. The PTO shaft is used to transfer power from the tractor to the implement. It is a critical component of the tractor's drivetrain.

2. The PTO shaft is made of high-strength steel and is designed to handle heavy loads. It is important to inspect the shaft regularly for wear and damage.

3. The PTO shaft is connected to the tractor's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.

4. The PTO shaft is connected to the implement's input shaft. The implement's input shaft is made of high-strength steel and is designed to handle heavy loads.

5. The PTO shaft is connected to the implement's output shaft. The implement's output shaft is made of high-strength steel and is designed to handle heavy loads.

6. The PTO shaft is connected to the implement's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.

7. The PTO shaft is connected to the implement's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.

8. The PTO shaft is connected to the implement's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.

9. The PTO shaft is connected to the implement's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.

10. The PTO shaft is connected to the implement's PTO housing. The housing is made of cast iron and is designed to protect the shaft from debris and damage.







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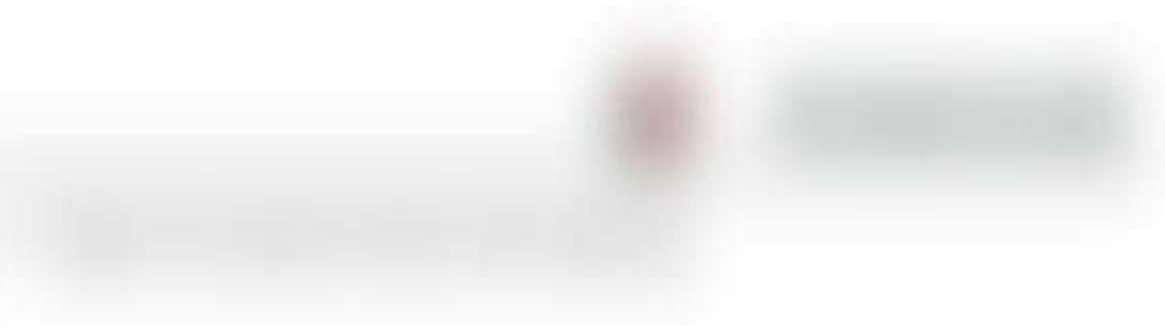
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Search bar and introductory text.



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The image shows a close-up of a mechanical component, likely a valve or actuator. It has a dark, cylindrical body and a lighter-colored top section. The component is mounted on a surface, and the background is a plain, light color.



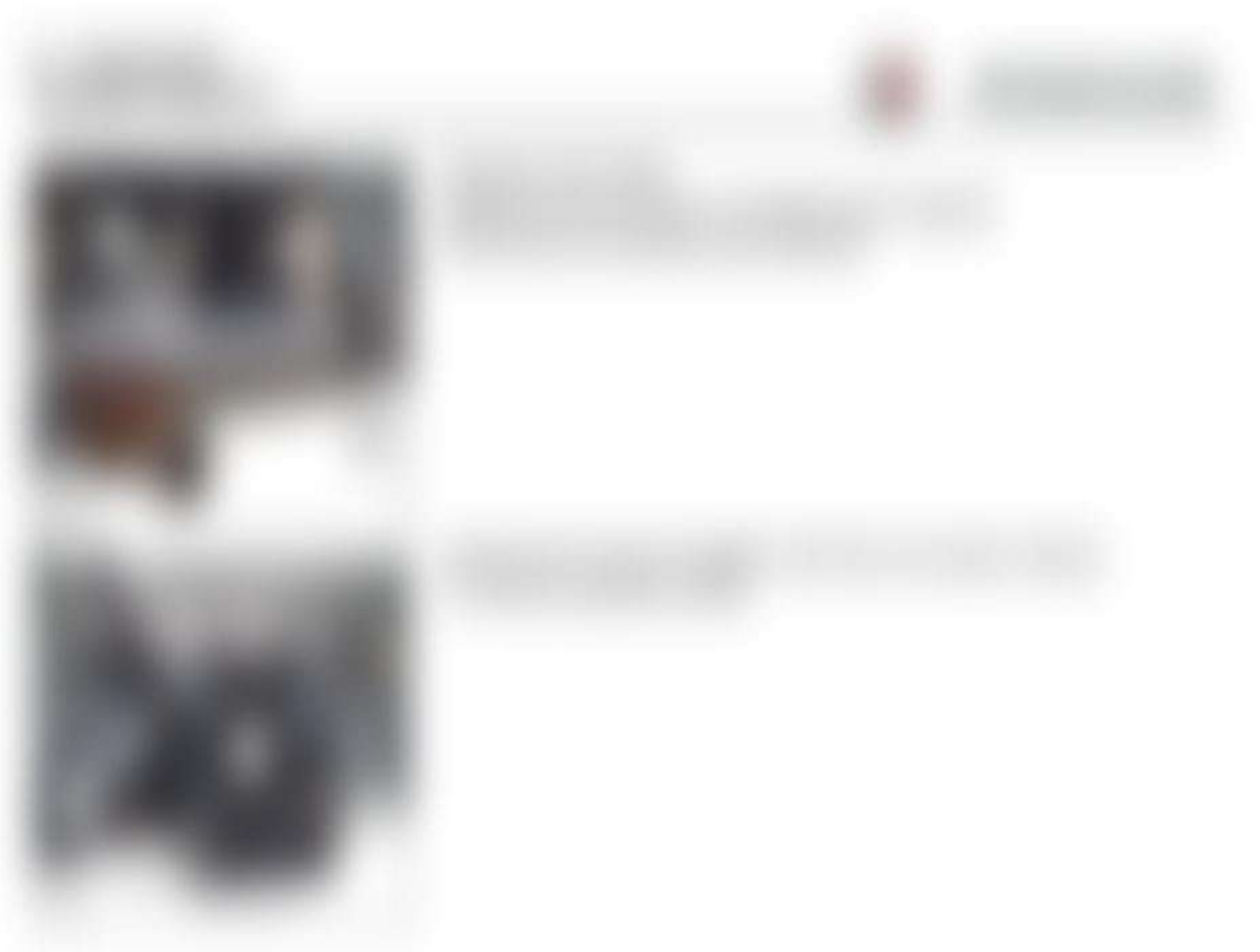
The image shows a close-up of a mechanical component, similar to the first image. It has a dark, cylindrical body and a lighter-colored top section. The component is mounted on a surface, and the background is a plain, light color.



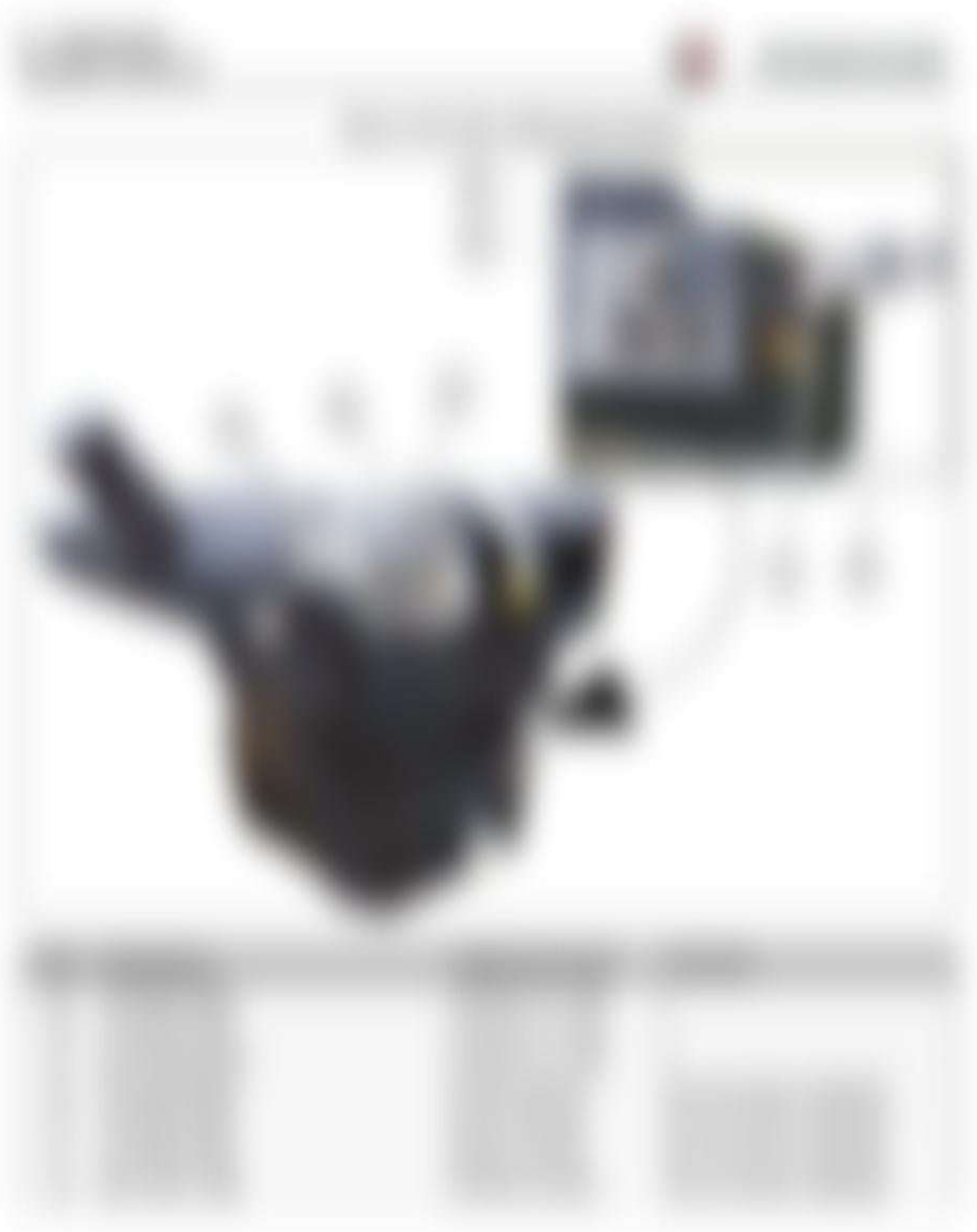
The image shows a close-up of a mechanical component, similar to the first image. It has a dark, cylindrical body and a lighter-colored top section. The component is mounted on a surface, and the background is a plain, light color.



The image shows a close-up of a mechanical component, similar to the first image. It has a dark, cylindrical body and a lighter-colored top section. The component is mounted on a surface, and the background is a plain, light color.









1. The first image shows a close-up of a mechanical component, likely a valve or actuator, with a dark, cylindrical body and a lighter-colored top section.



2. The second image shows a different view of the mechanical component, highlighting its cylindrical shape and the top section.



3. The third image shows another view of the mechanical component, emphasizing its cylindrical form and the top section.



4. The fourth image shows a different view of the mechanical component, highlighting its cylindrical shape and the top section.

5. The fifth image shows a different view of the mechanical component, highlighting its cylindrical shape and the top section.







1. Introduction
2. Safety
3. Operation



4. Maintenance

5. Troubleshooting





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Tractor Manualz is a website that provides free access to a wide range of tractor manuals and technical documents. The site is organized into several categories, including Tractor Manuals, Tractor Parts, Tractor Accessories, and Tractor Repairs. Each category contains a list of links to the relevant documents, which can be downloaded for free.

The website is a valuable resource for anyone who owns a tractor or is interested in learning more about them. It provides a comprehensive collection of manuals and technical documents that can be used for a variety of purposes, including troubleshooting, maintenance, and repair. The site is also a great place to find information about the latest tractor models and accessories.

Tractor Manualz is a free website that provides a wide range of tractor manuals and technical documents. The site is organized into several categories, including Tractor Manuals, Tractor Parts, Tractor Accessories, and Tractor Repairs. Each category contains a list of links to the relevant documents, which can be downloaded for free.



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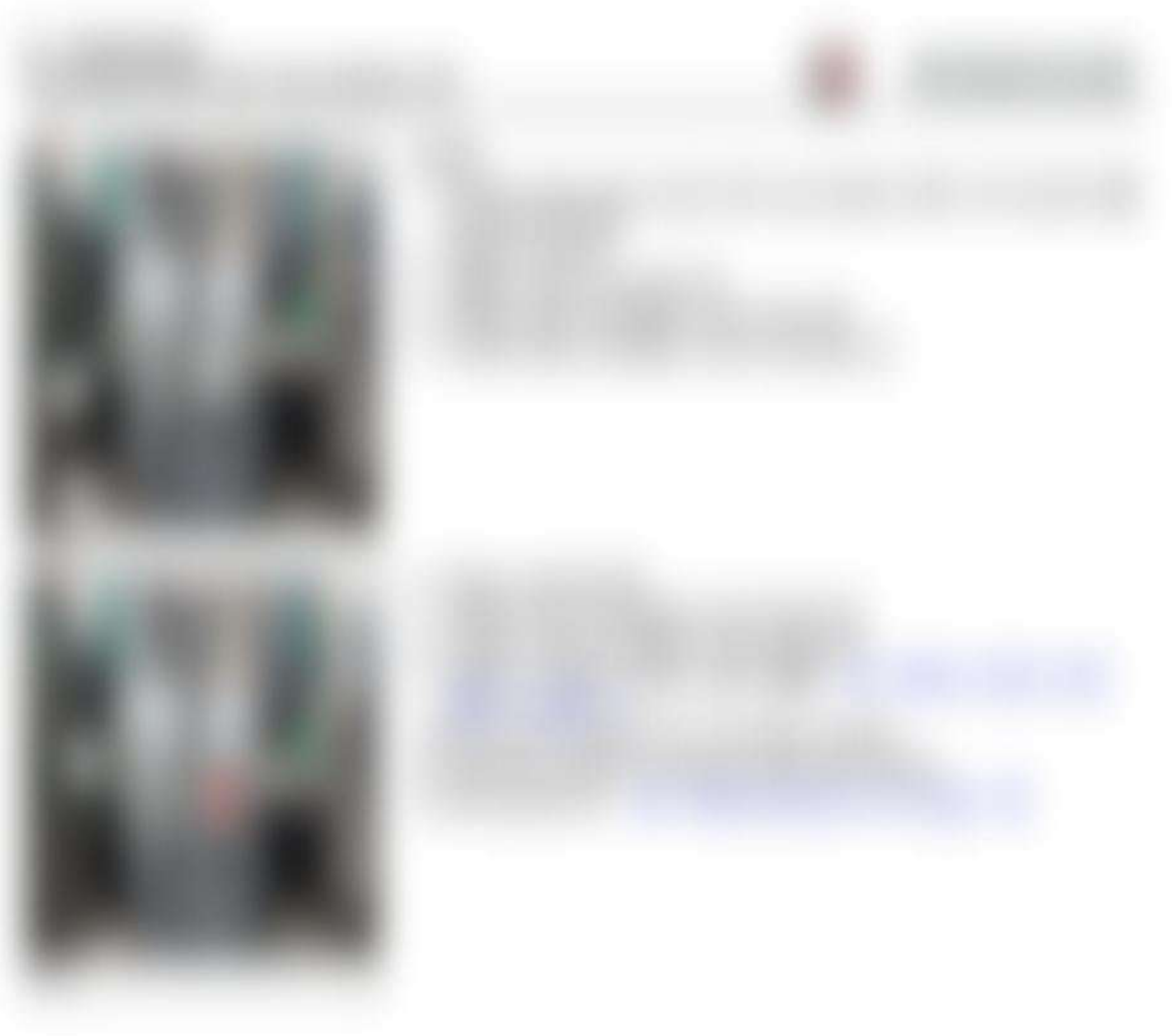
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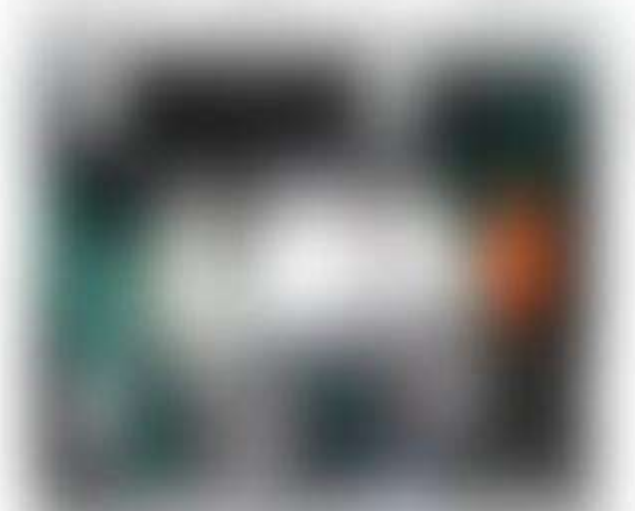
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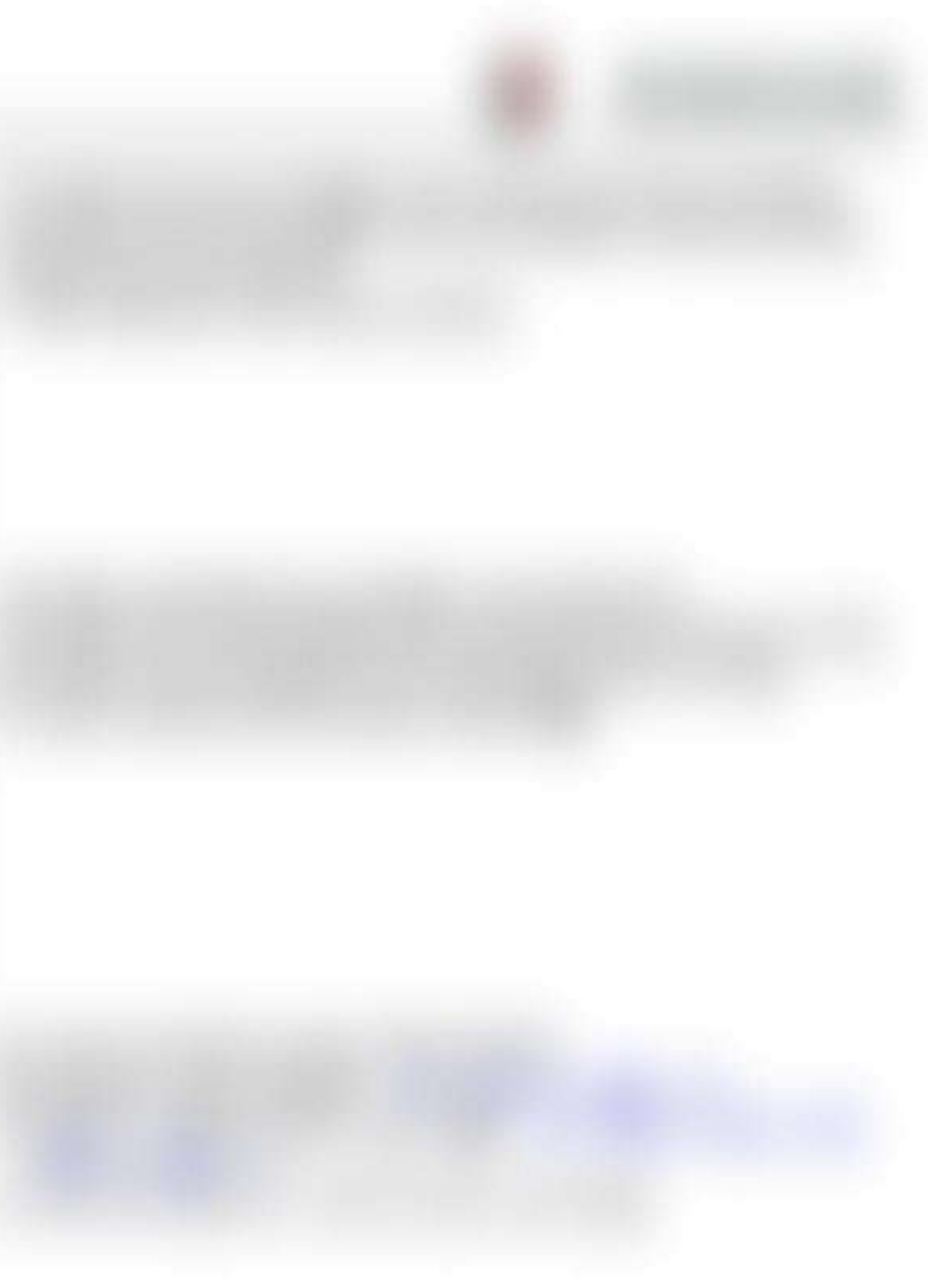
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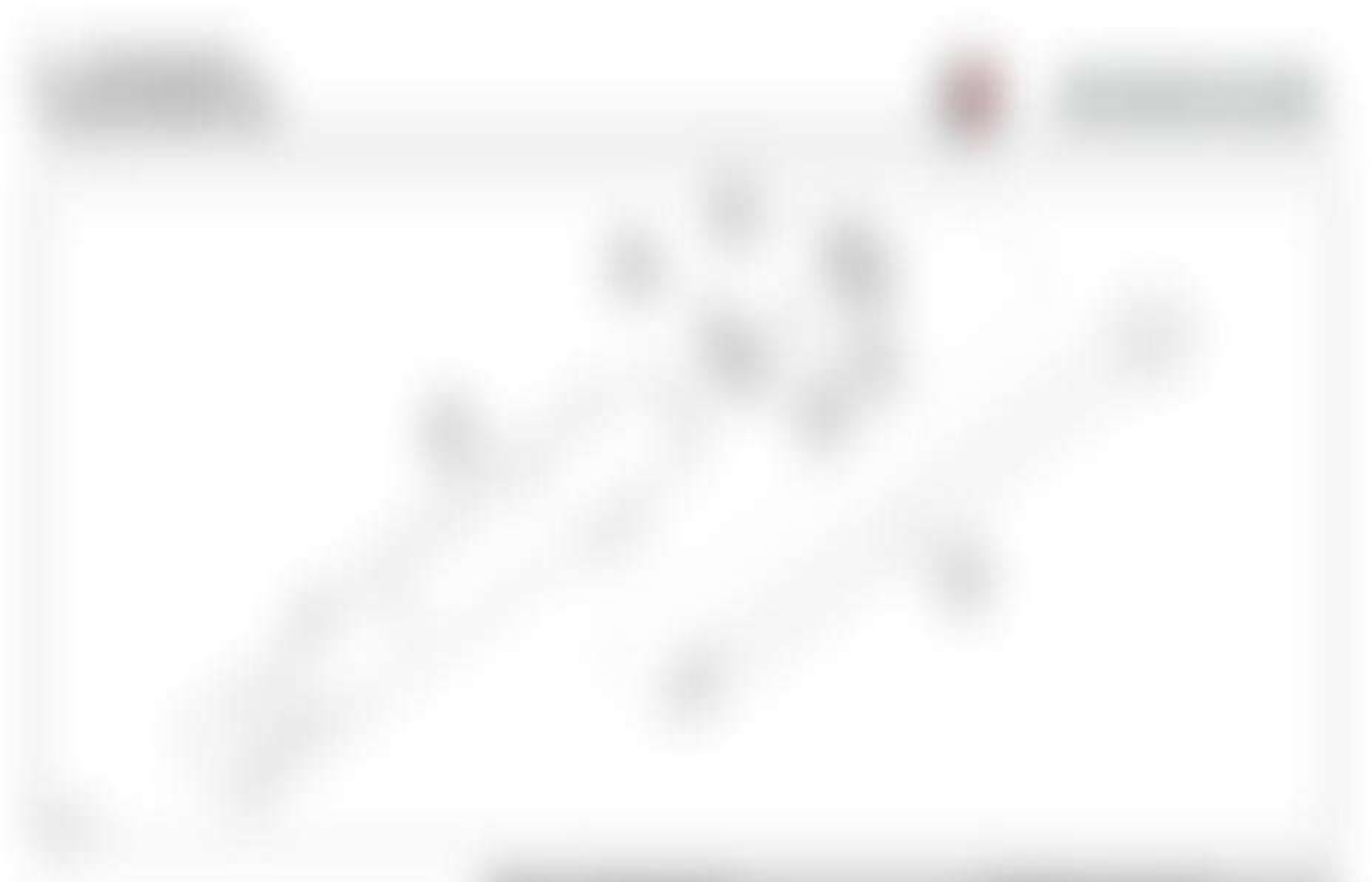
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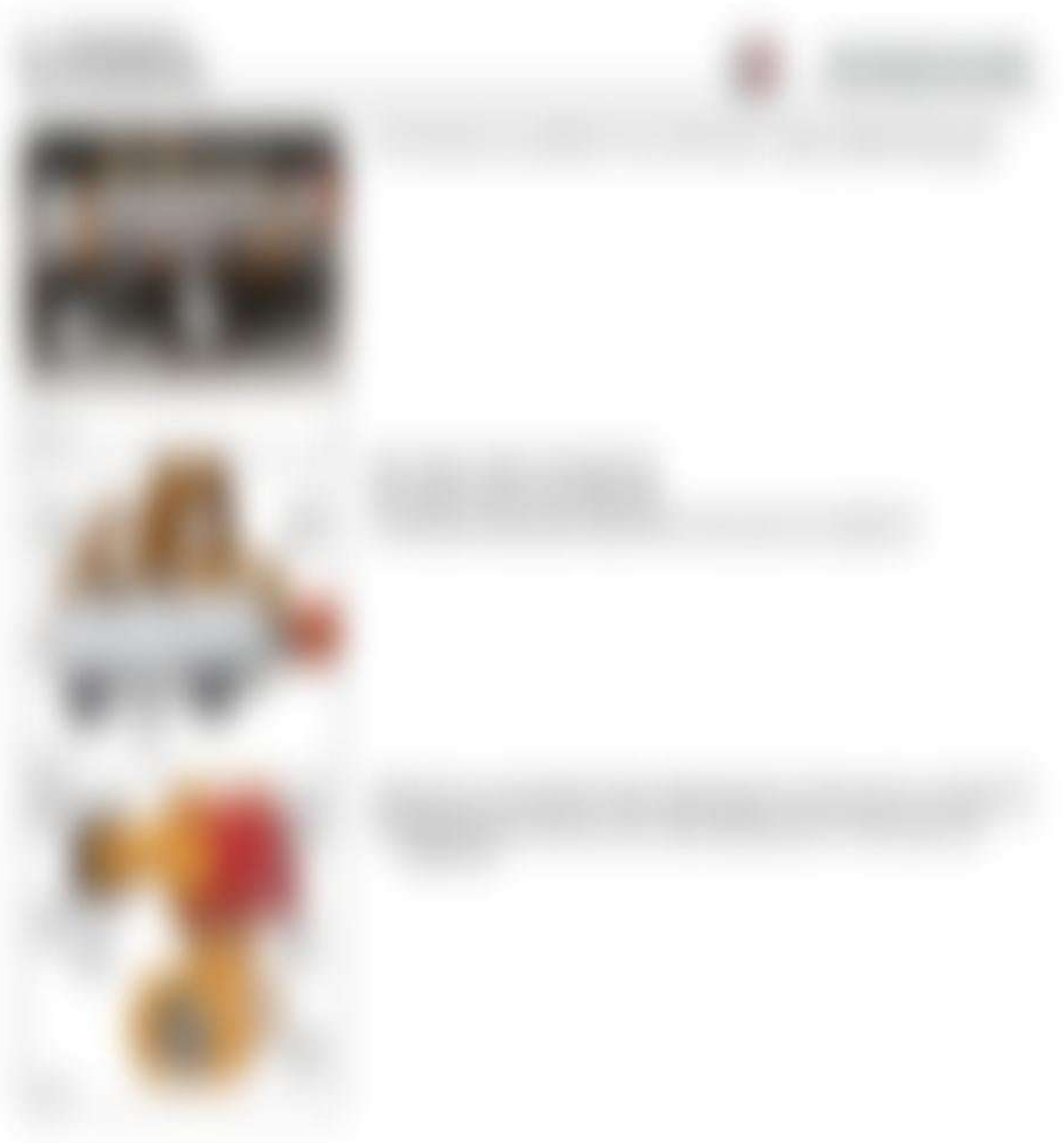


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The tractor is equipped with a 4-cylinder diesel engine and a 5-speed manual transmission. It features a front loader and a rear PTO. The tractor is designed for use in a variety of agricultural and construction applications.

The tractor is available in several configurations, including a basic model and a model with a front loader. The basic model is priced at \$12,999, while the model with a front loader is priced at \$15,999.



The tractor is designed for use in a variety of agricultural and construction applications. It is a compact tractor that is easy to maneuver and operate. The tractor is available in several configurations, including a basic model and a model with a front loader. The basic model is priced at \$12,999, while the model with a front loader is priced at \$15,999.



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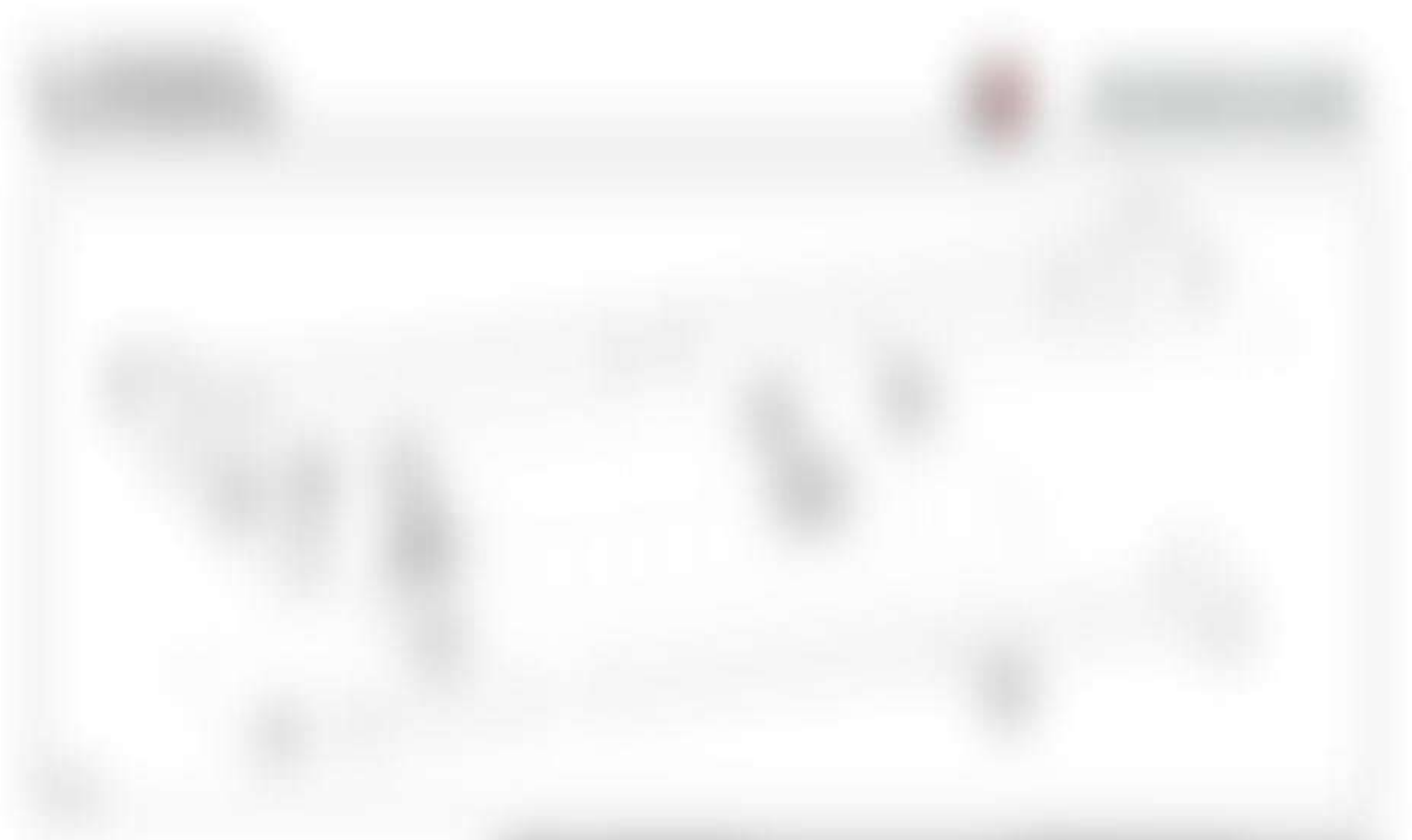


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Main content area containing several paragraphs of text, likely a list of items or a detailed description, but the text is illegible due to blurring.



Blurred text content, likely a title and introductory paragraph.



Blurred text content, likely a sub-section or detailed description.



Blurred text content, likely a sub-section or detailed description.



Blurred text content, likely a sub-section or detailed description.



Blurred text block, likely a title or introductory paragraph.

Blurred text block, likely a sub-section header or a short paragraph.

Blurred text block, likely a sub-section header or a short paragraph.







Text block 1: A paragraph of text, likely a description or instruction related to the image above.



Text block 2: A paragraph of text, likely a description or instruction related to the image above.

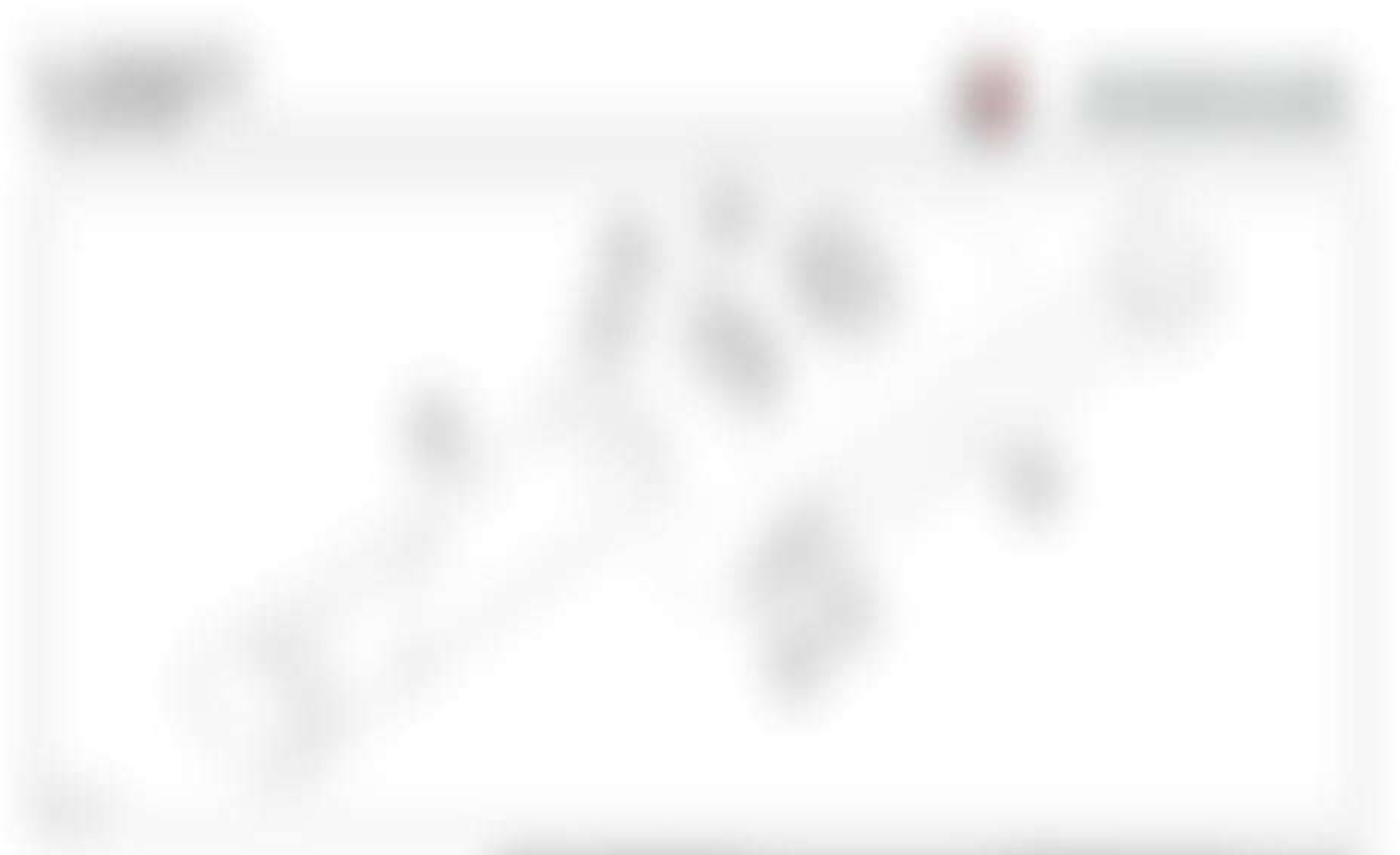


Text block 3: A paragraph of text, likely a description or instruction related to the image above.



Text block 4: A paragraph of text, likely a description or instruction related to the image above.





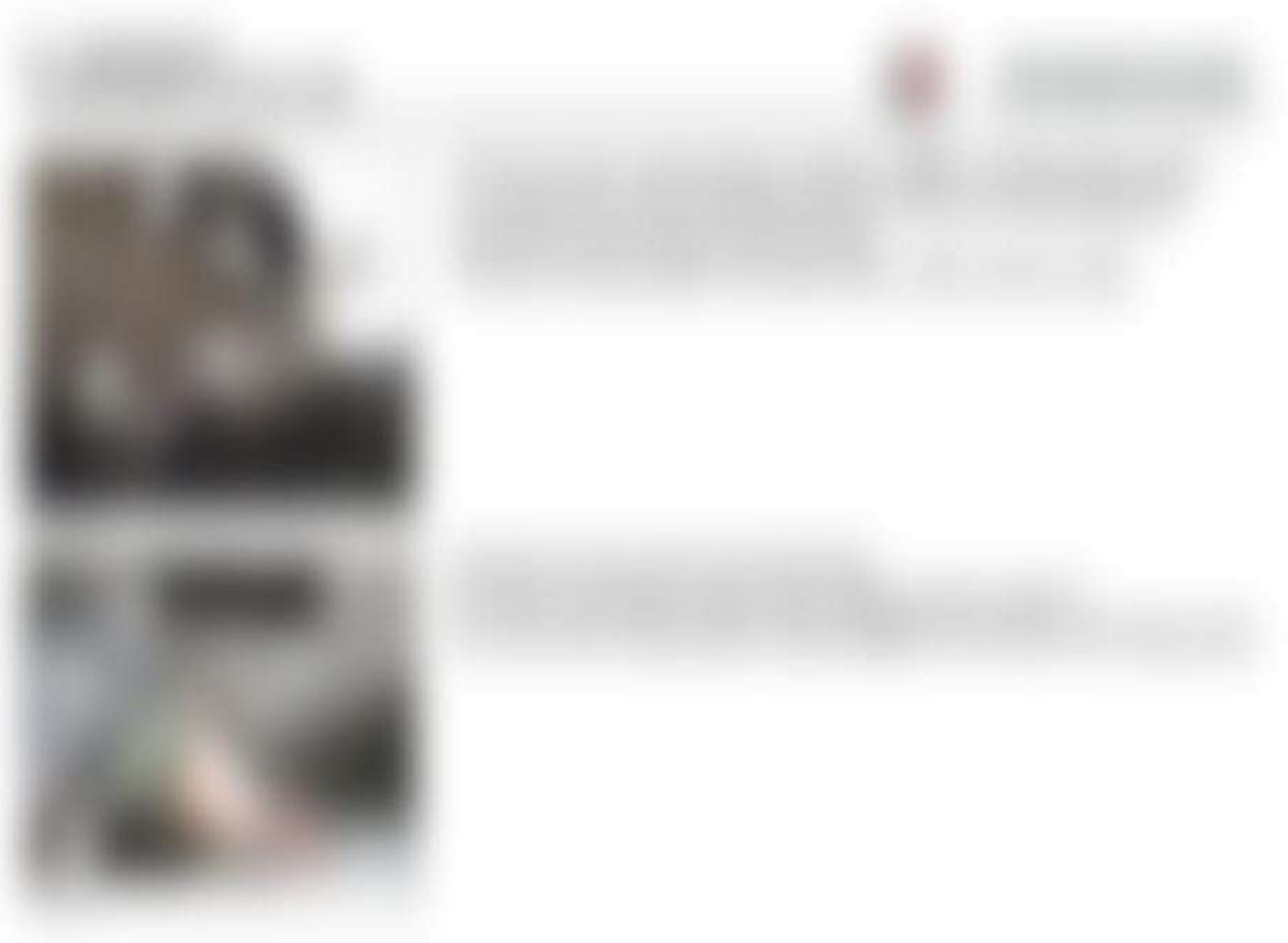
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Faded text block, possibly a title or subtitle.



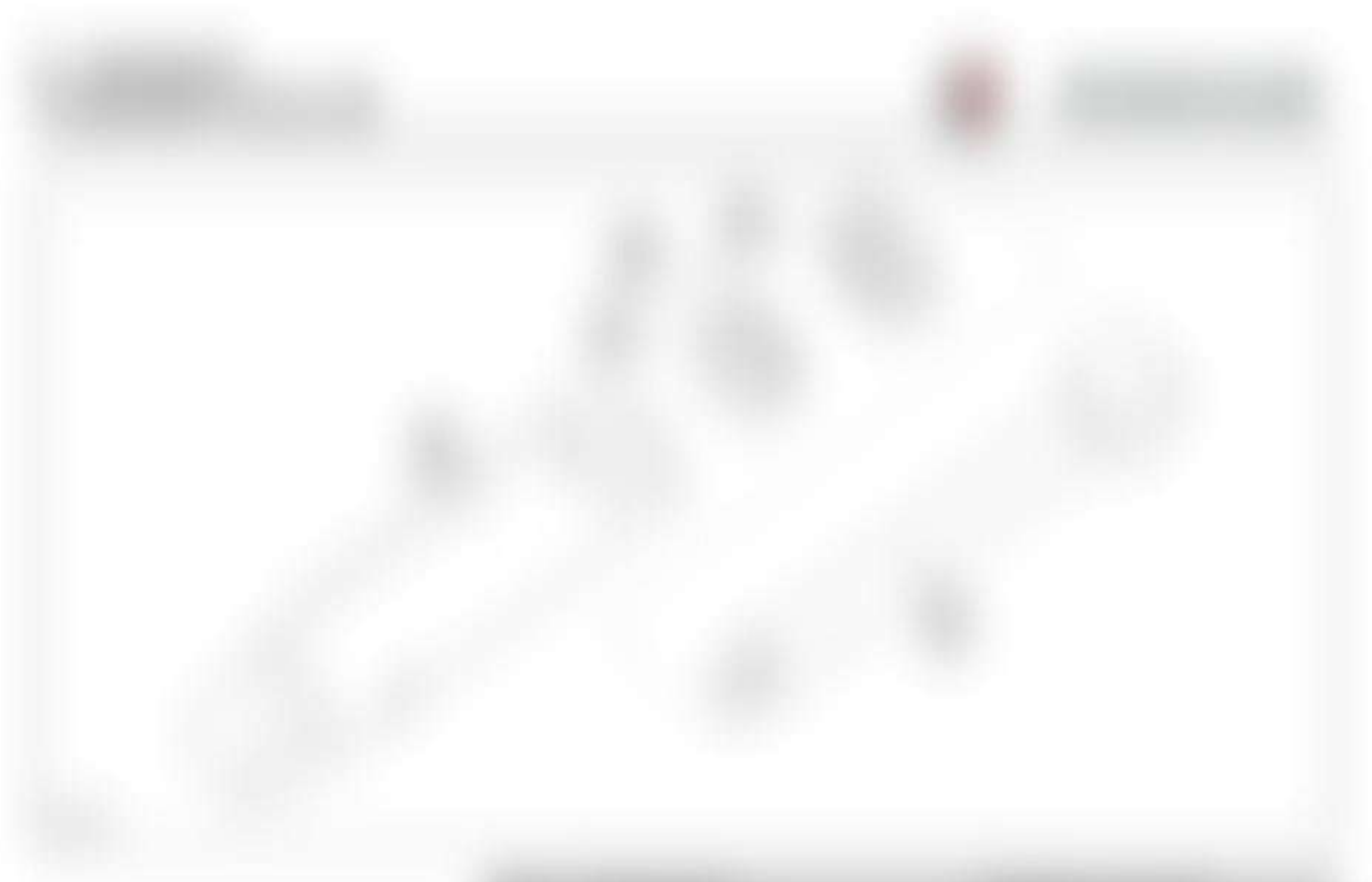


1. The first image shows the front view of the component, highlighting the main body and the mounting points.

2. The second image shows the side view of the component, illustrating the profile and the location of the mounting holes.

3. The third image shows the rear view of the component, detailing the back panel and the internal structure.

4. The fourth image shows a close-up view of the mounting holes, which are used to secure the component to the tractor frame.



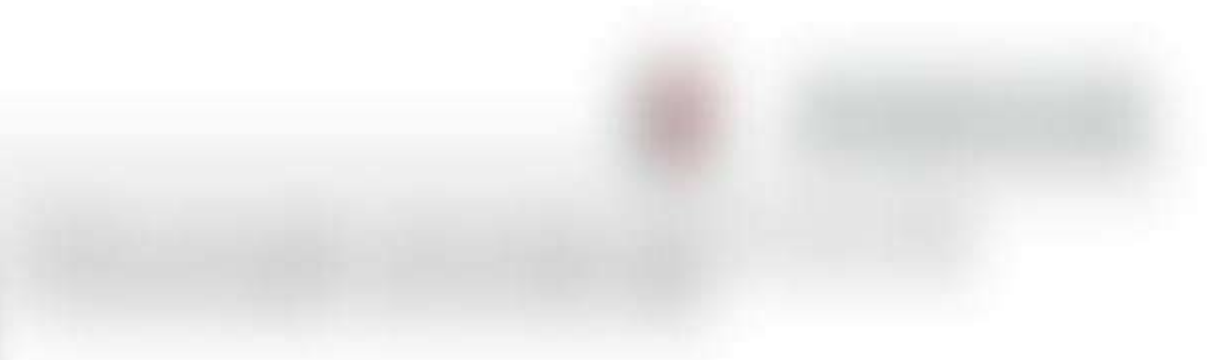




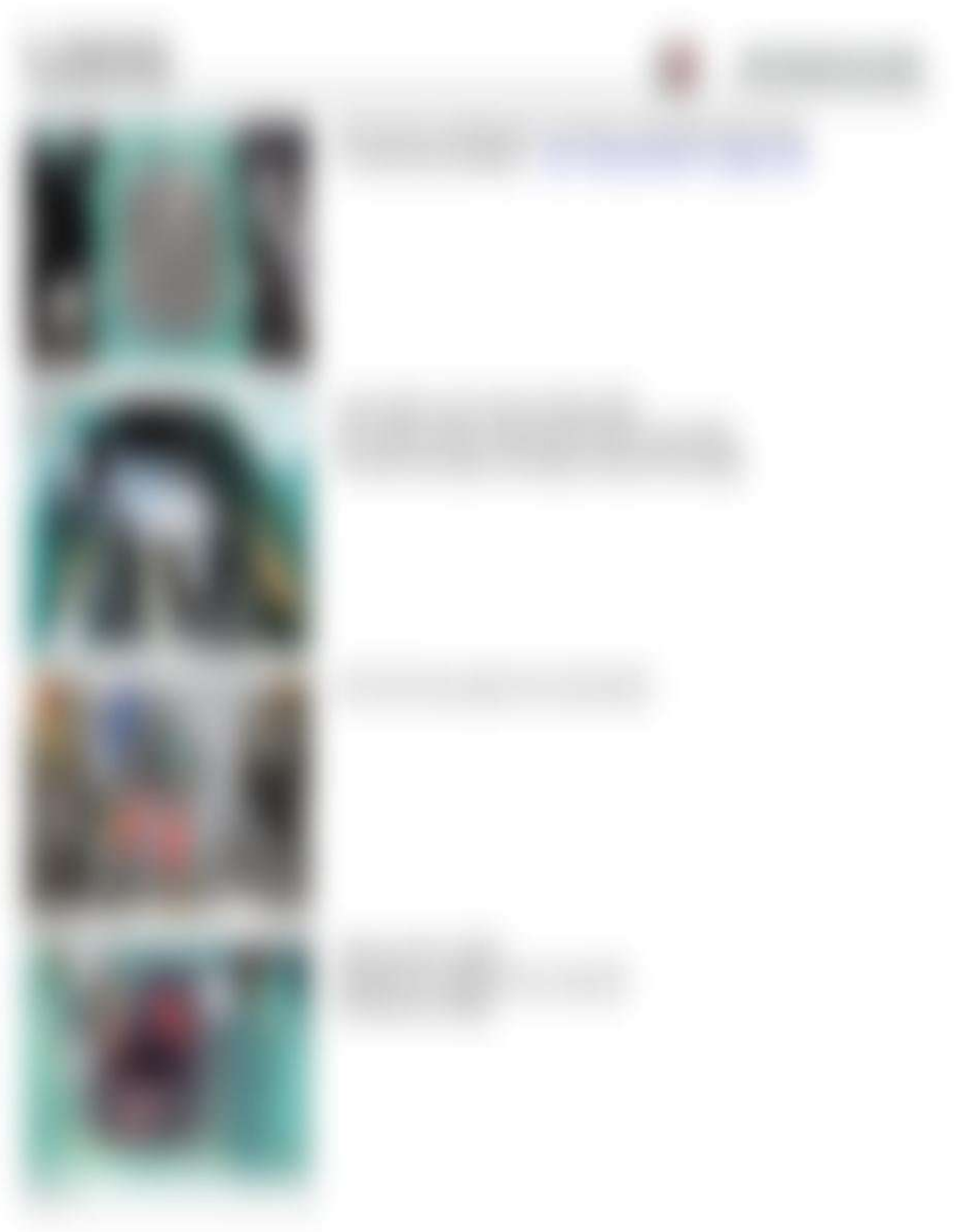














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Main body of blurred text, likely the primary content of the page.

Blurred text block, likely a title or introductory paragraph.



Blurred text block, likely a paragraph of descriptive text.

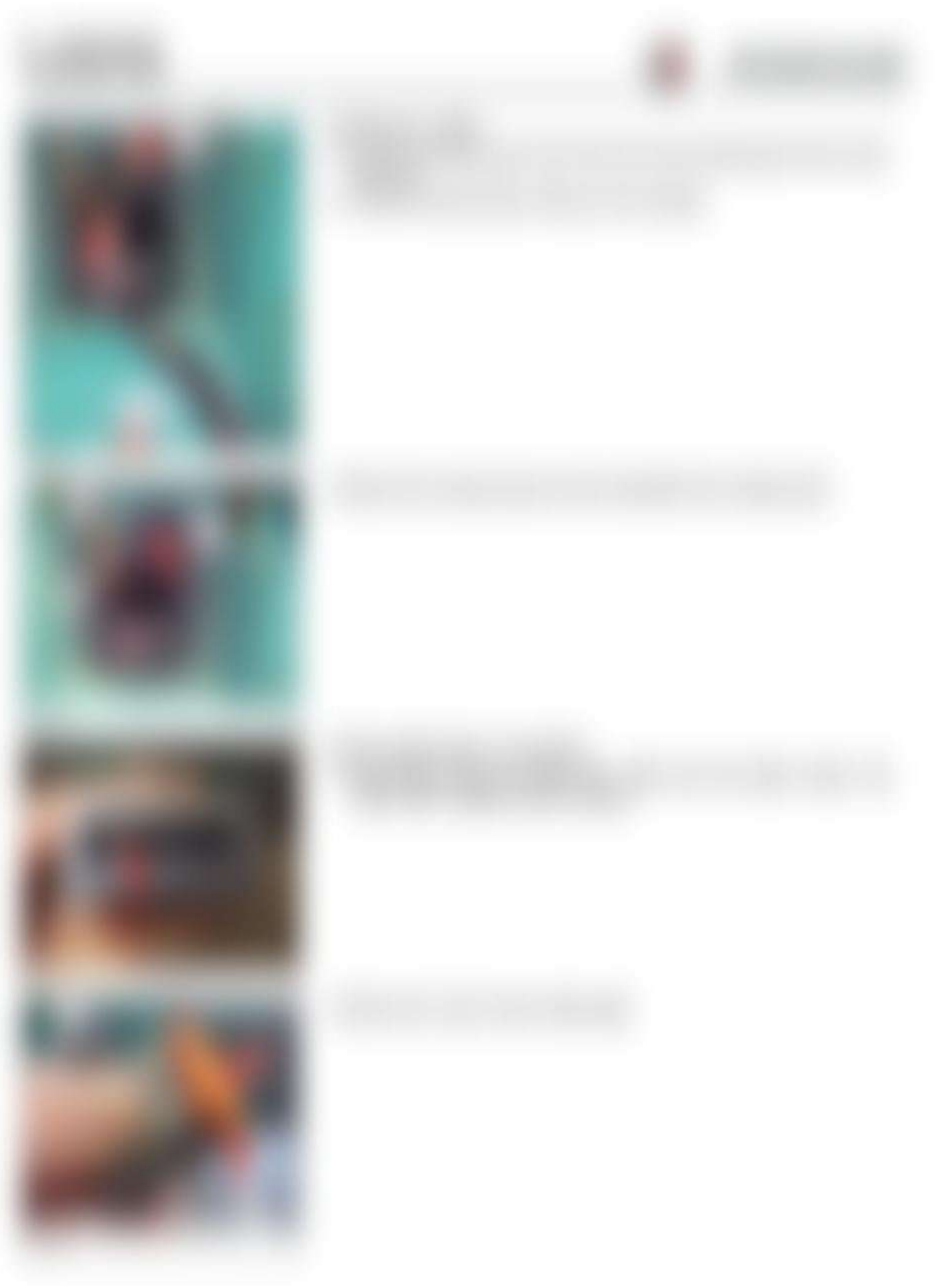


Blurred text block, likely a paragraph of descriptive text.



Blurred text block, likely a paragraph of descriptive text.

Blurred text block, likely a concluding paragraph or footer area.







Blurred text at the top of the page, possibly a header or title.

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Blurred text block in the lower middle section.

Blurred text at the bottom of the page, possibly a footer or navigation bar.



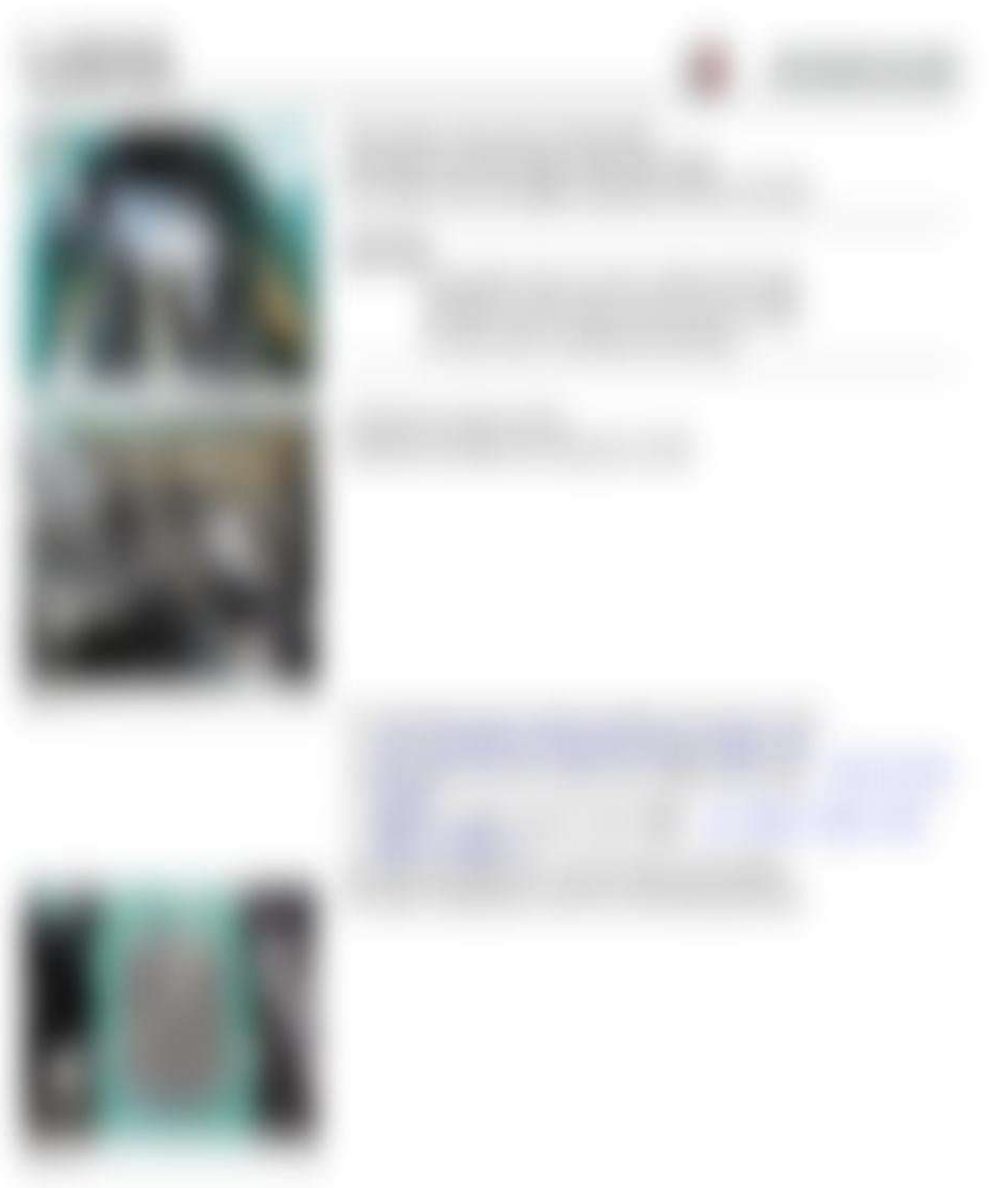
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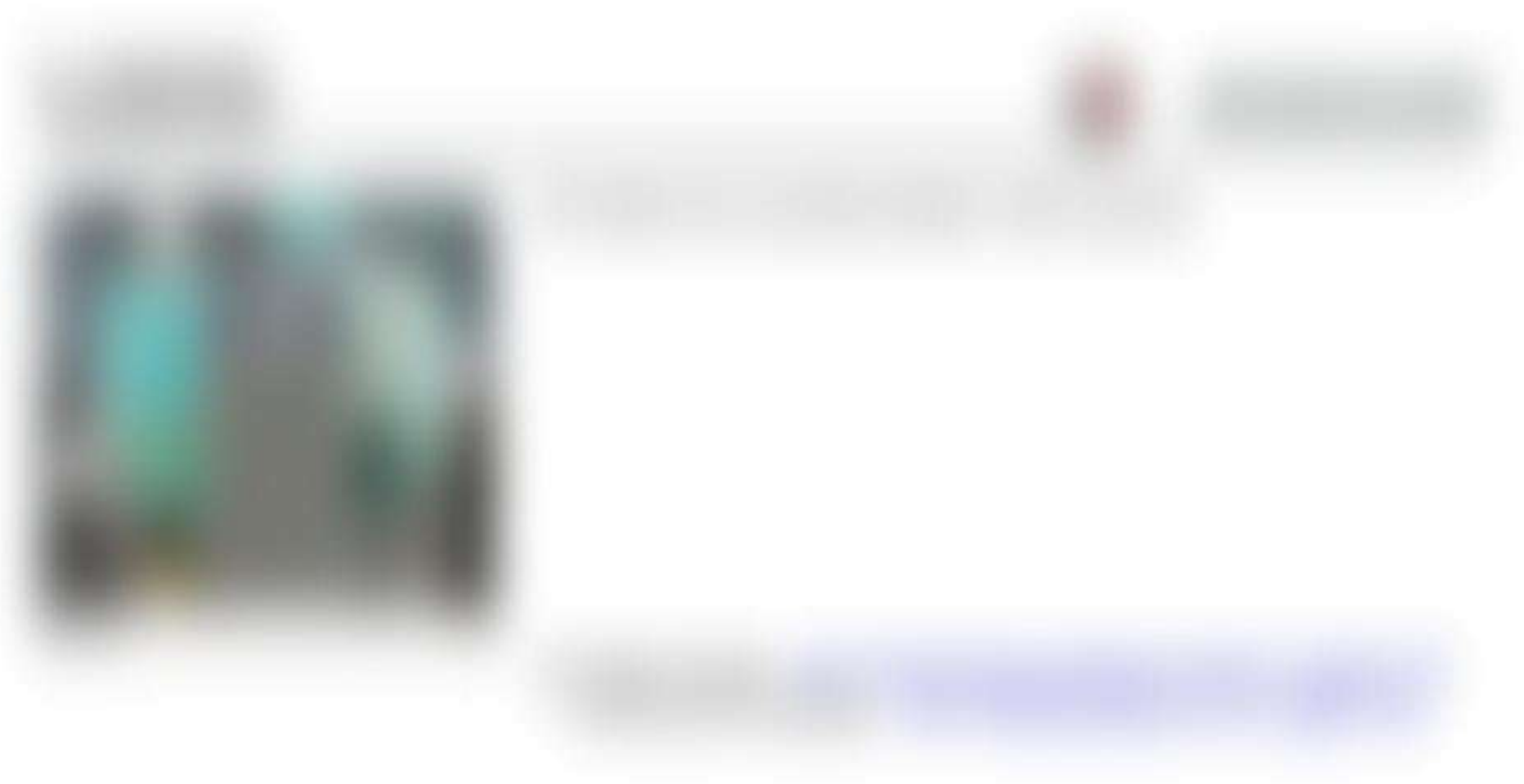
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Blurred text block, likely a title or introductory paragraph.



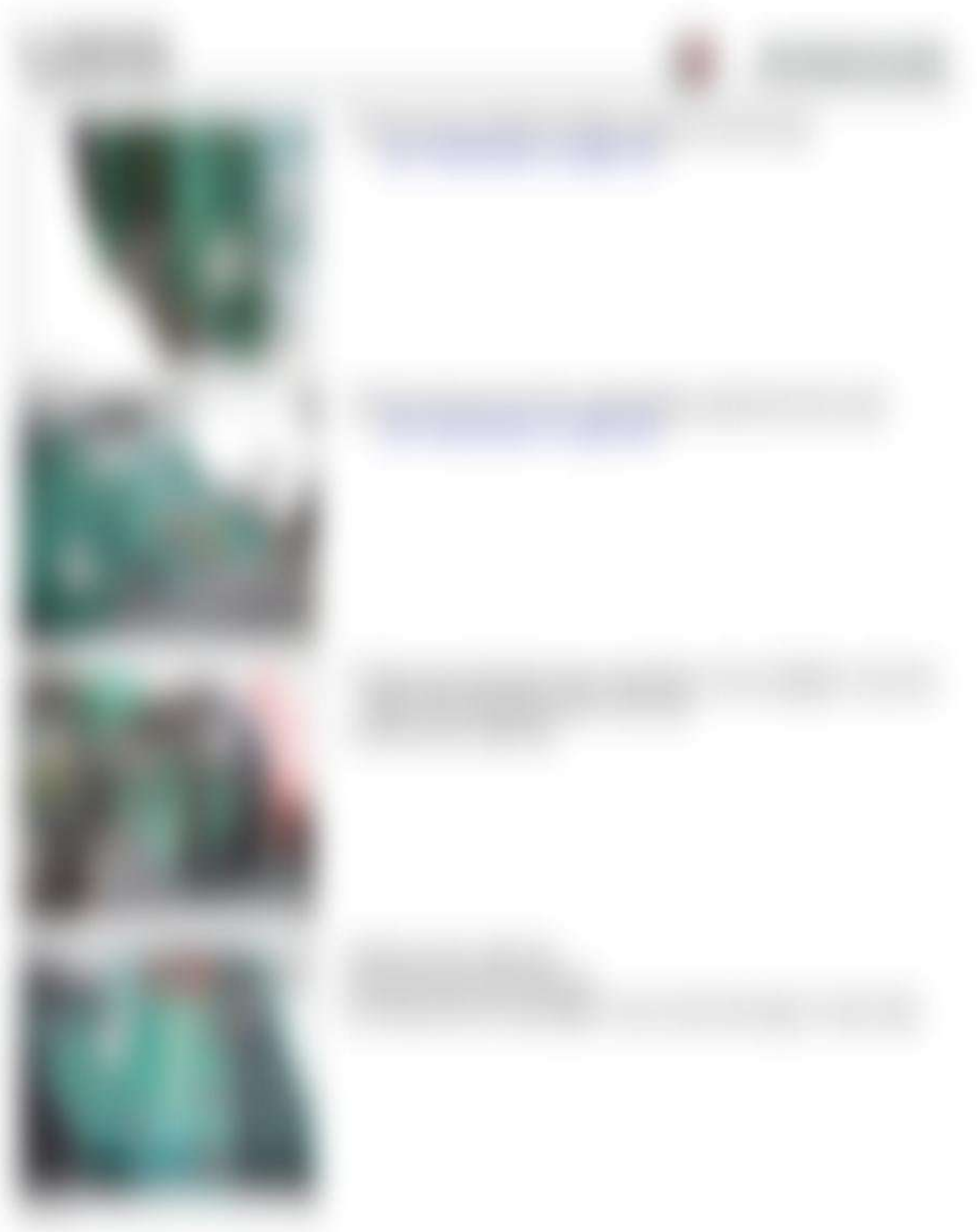
Blurred text block, likely a paragraph of content.

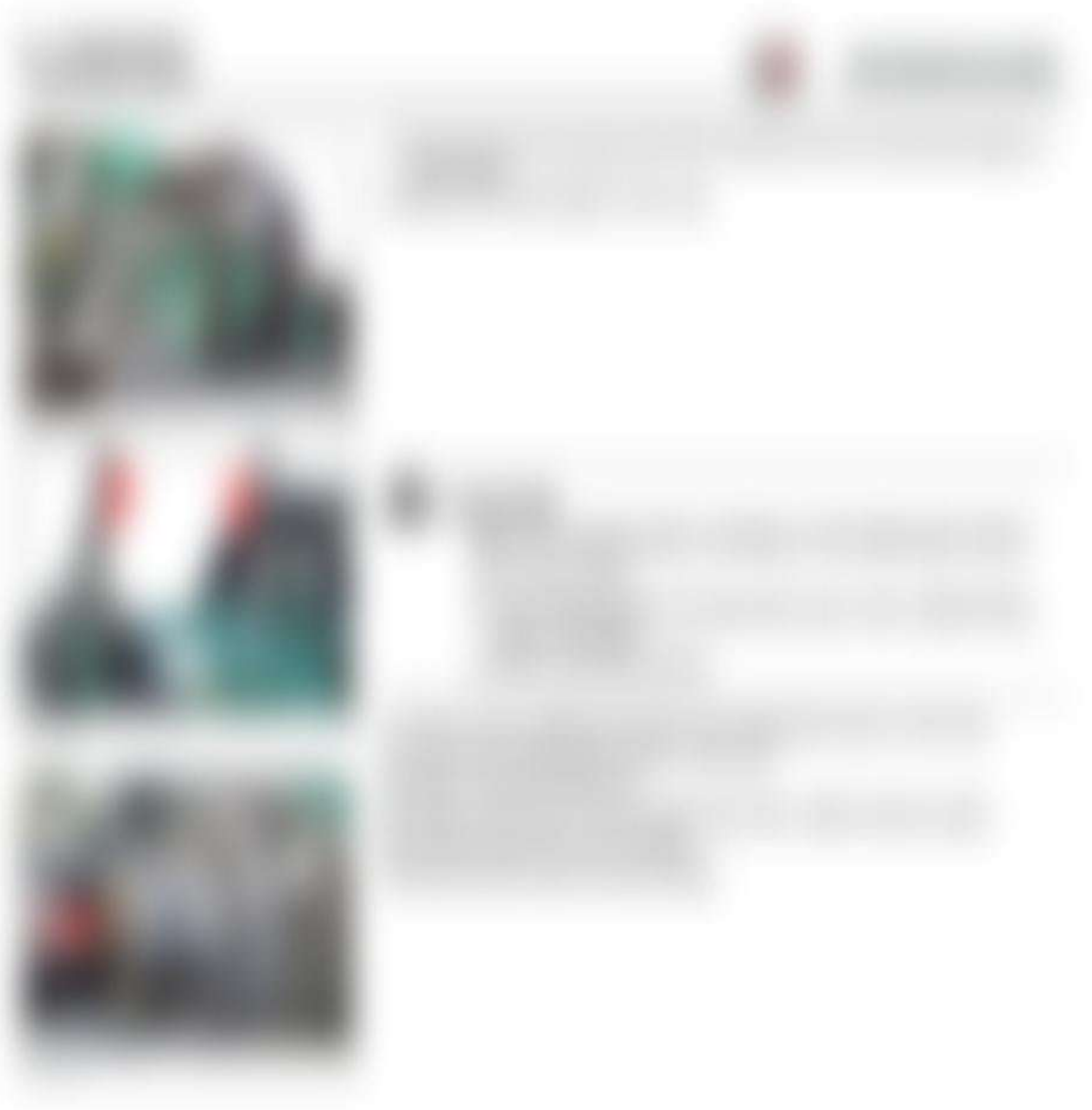


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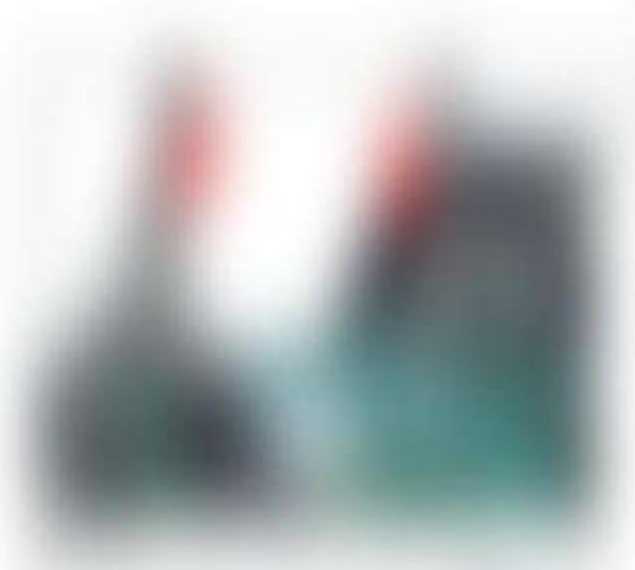


Blurred text block, likely a paragraph of content.





Main content area containing several paragraphs of text, likely describing a product or service.



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Blurred text block, likely a title or introductory paragraph.



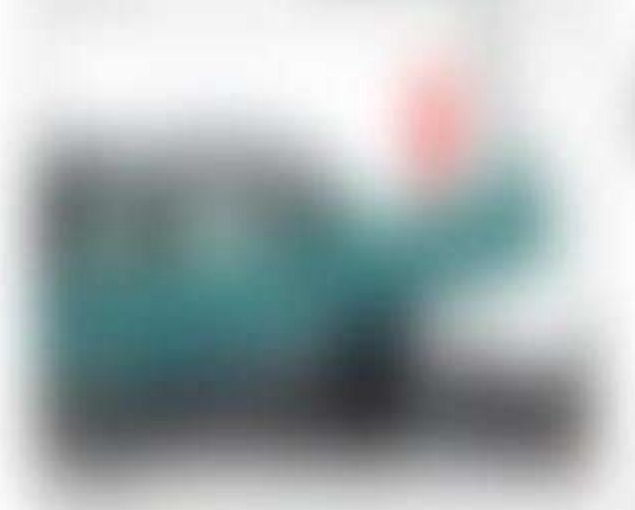
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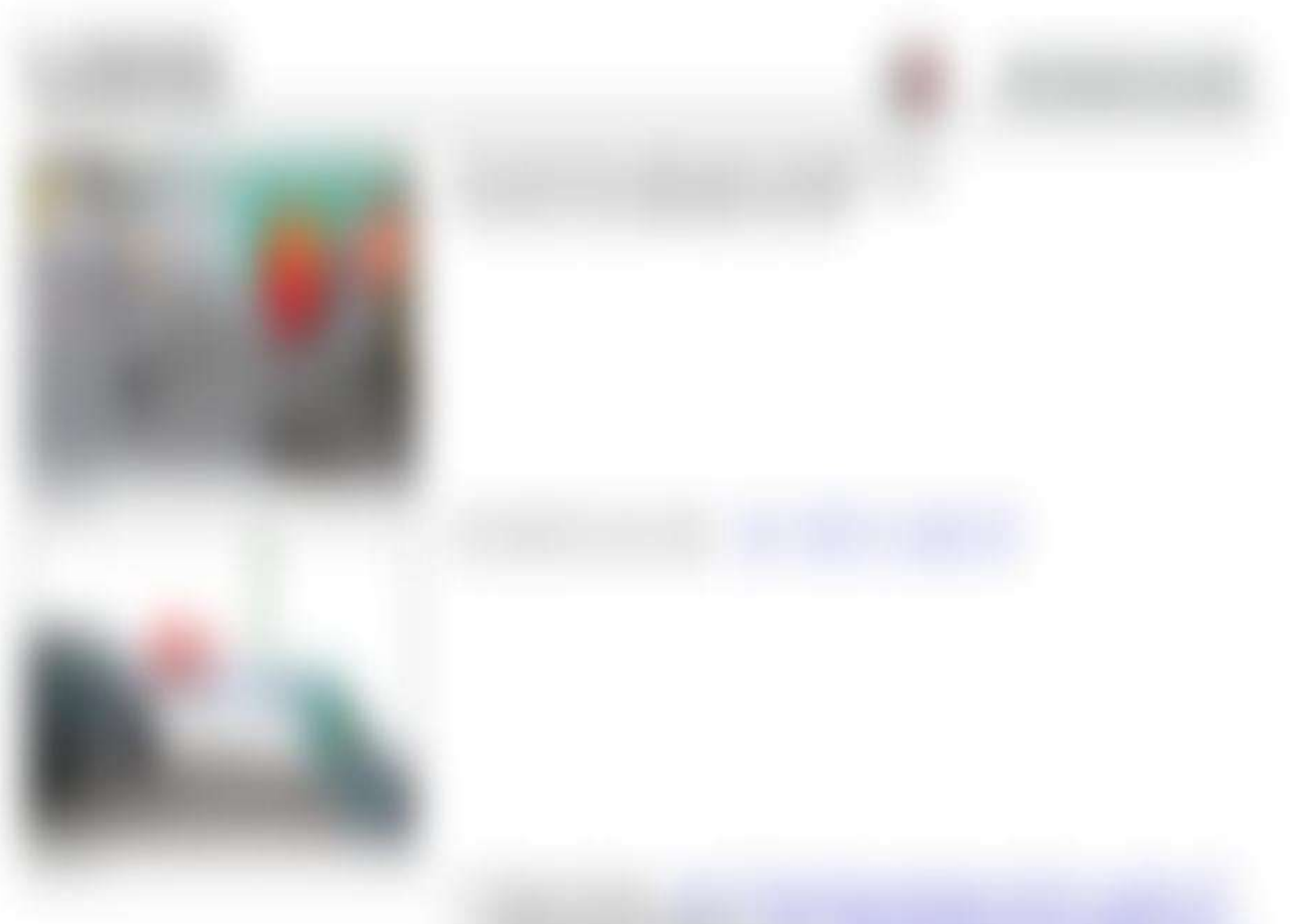


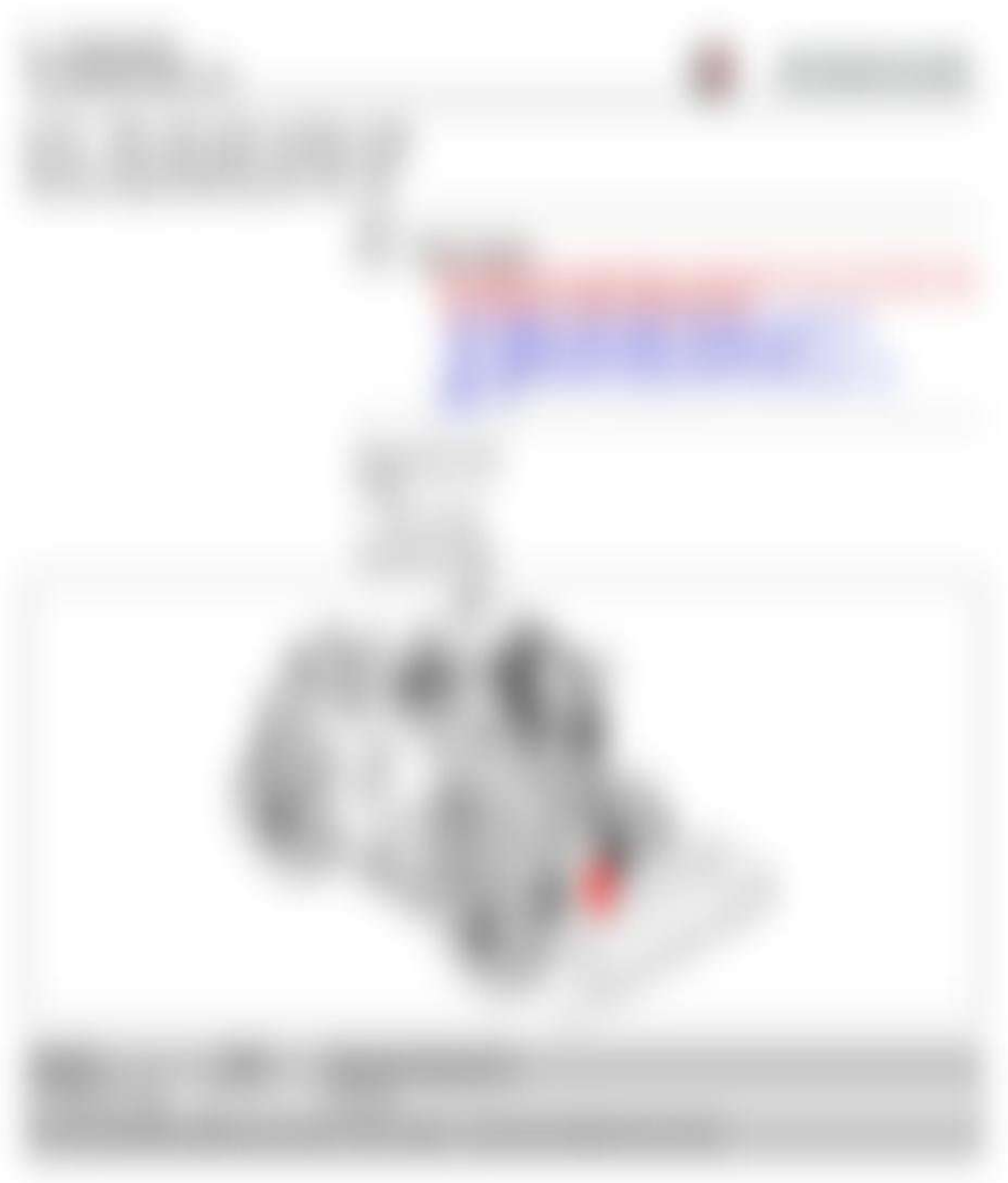
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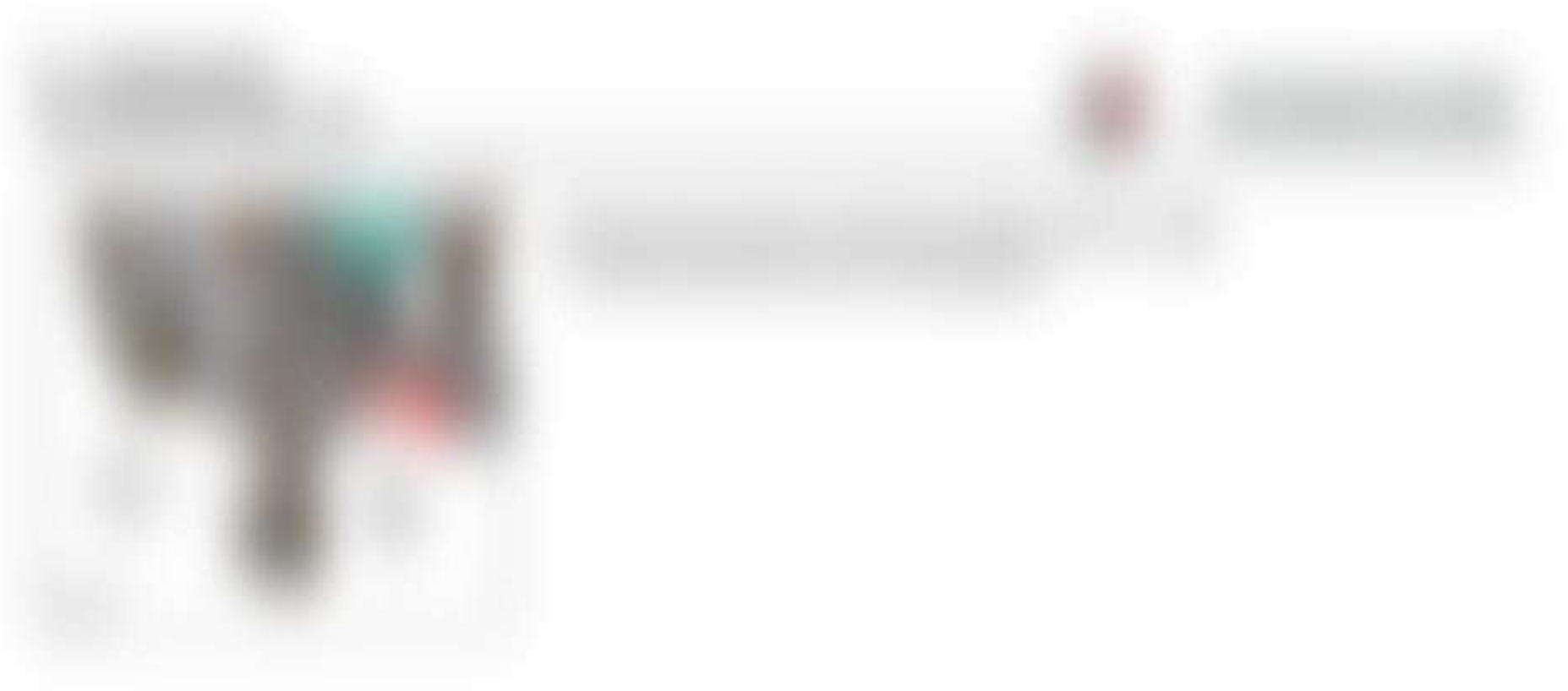








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Section of text, likely a title or introductory paragraph, rendered as a blurred grey block.



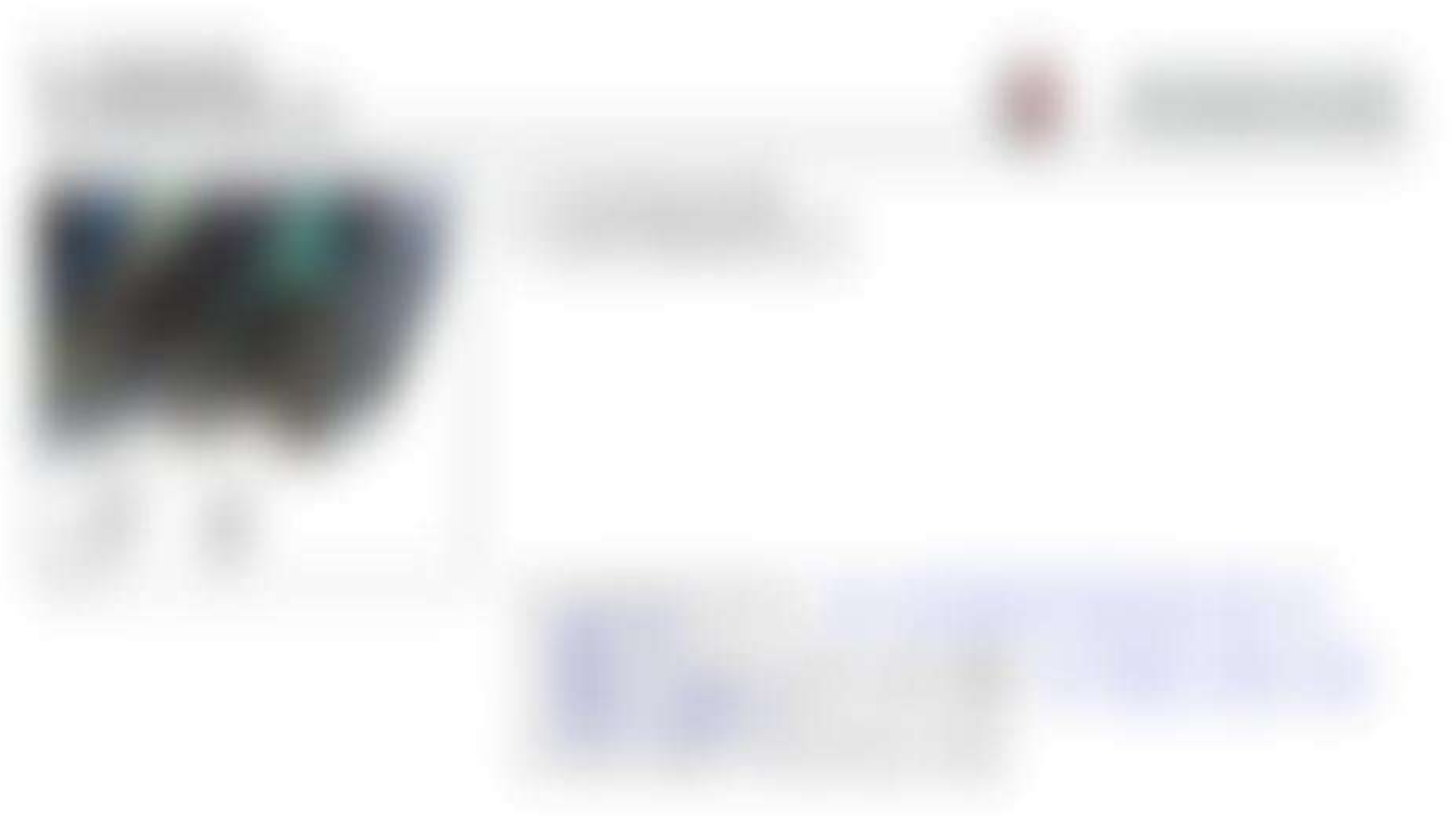
Section of text, rendered as a blurred grey block.

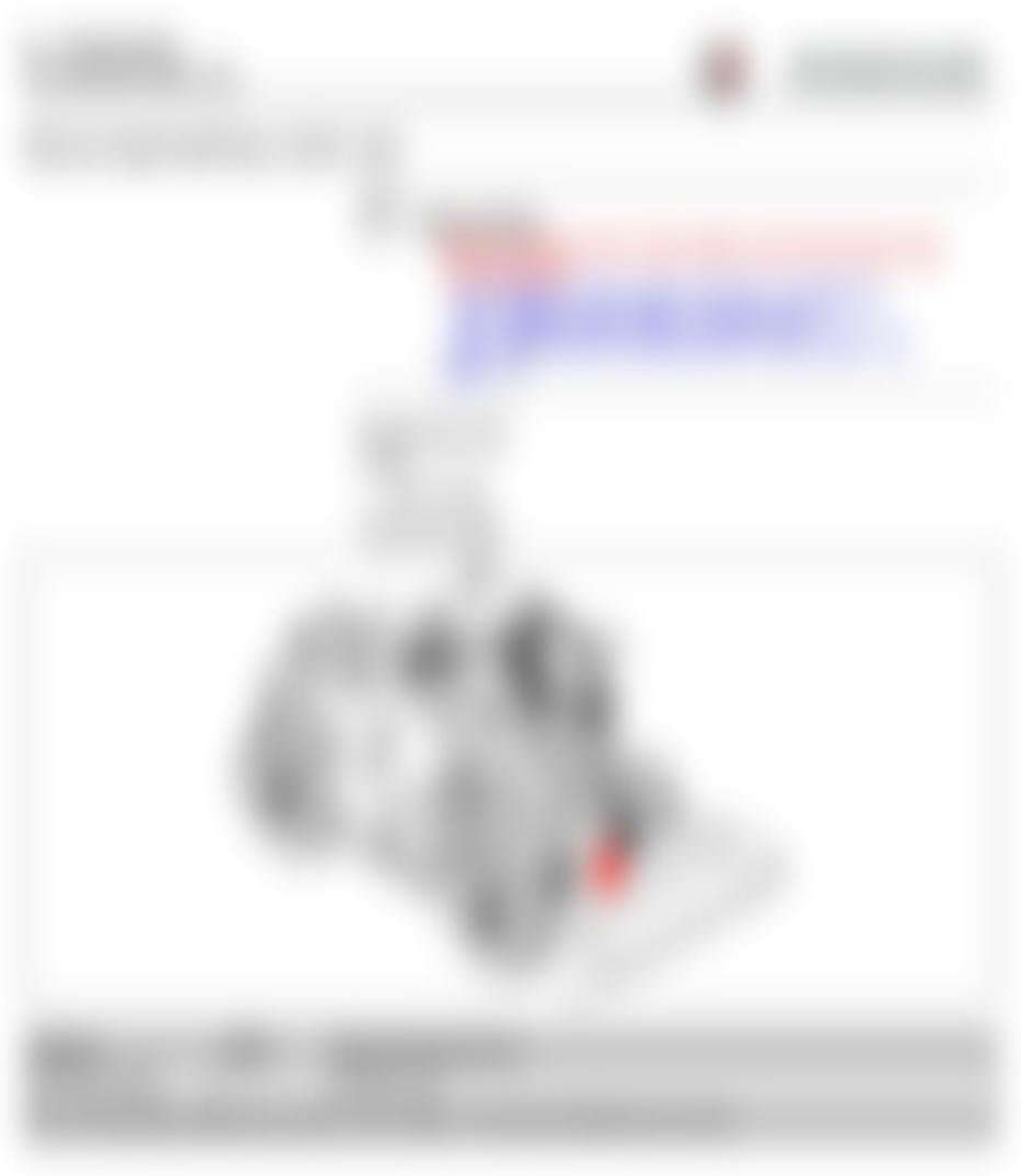


Section of text, rendered as a blurred grey block.



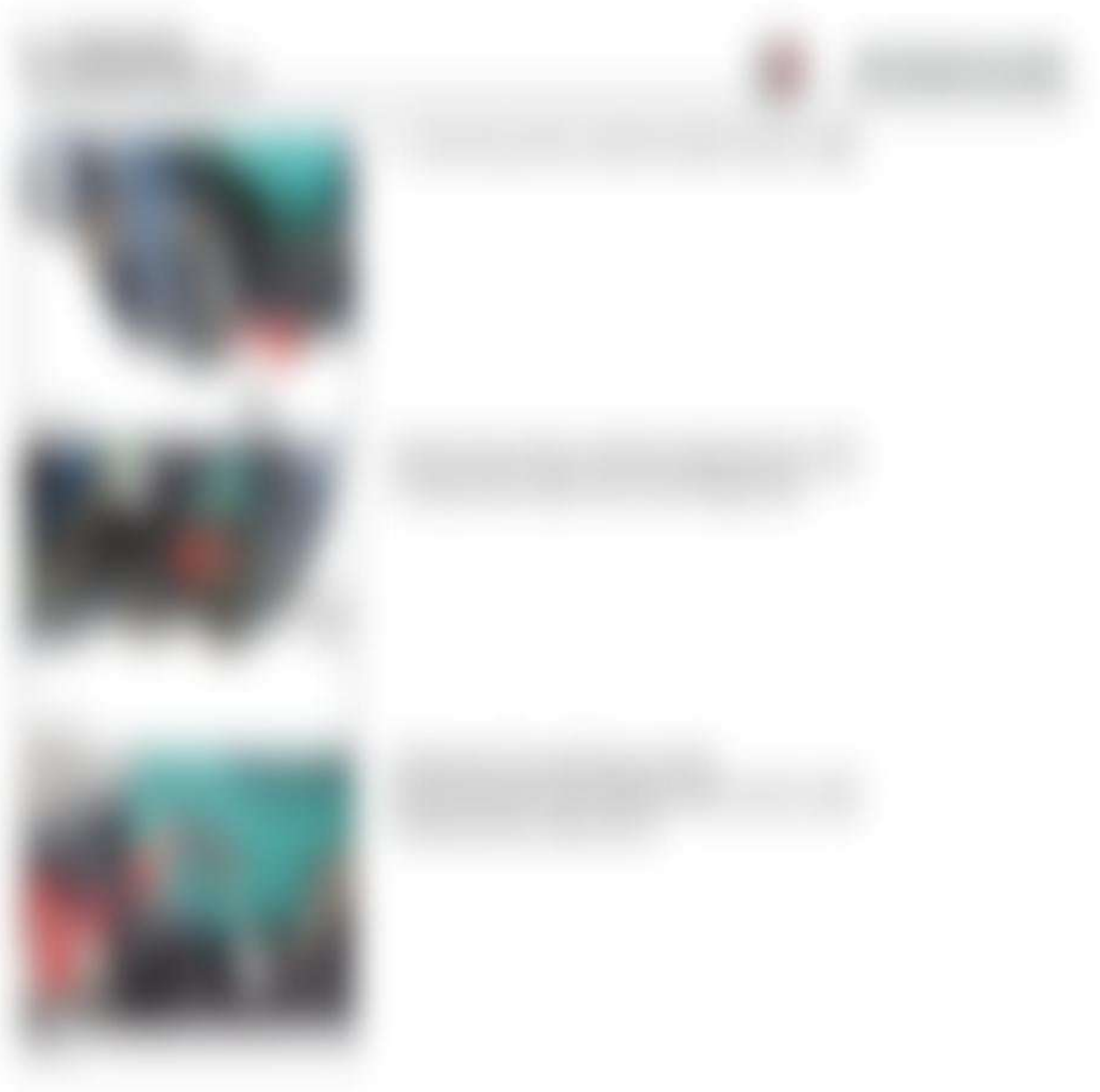
Section of text, rendered as a blurred grey block.

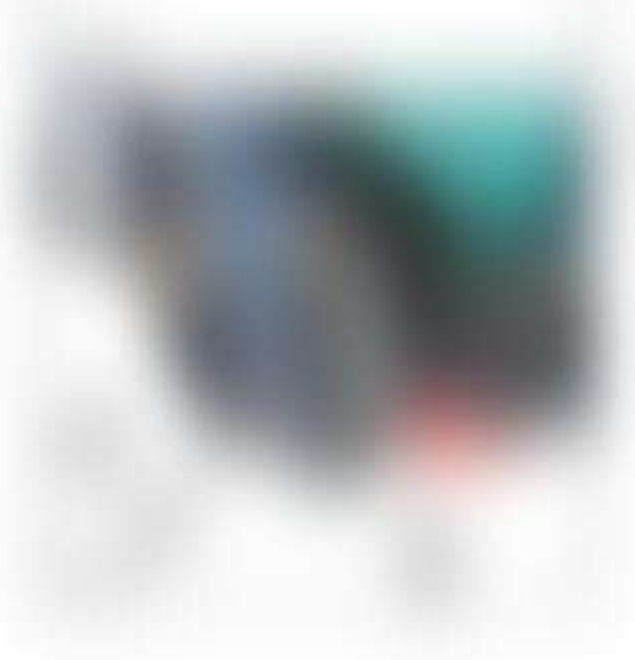






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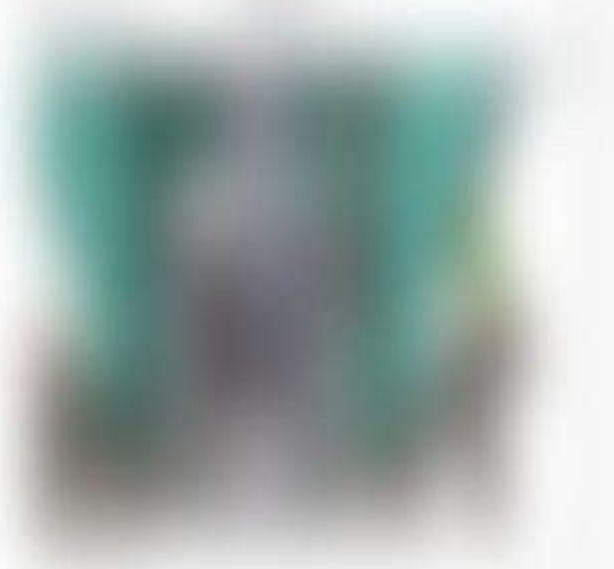
Faded text block, possibly a title or heading.



Placeholder text for the first image.

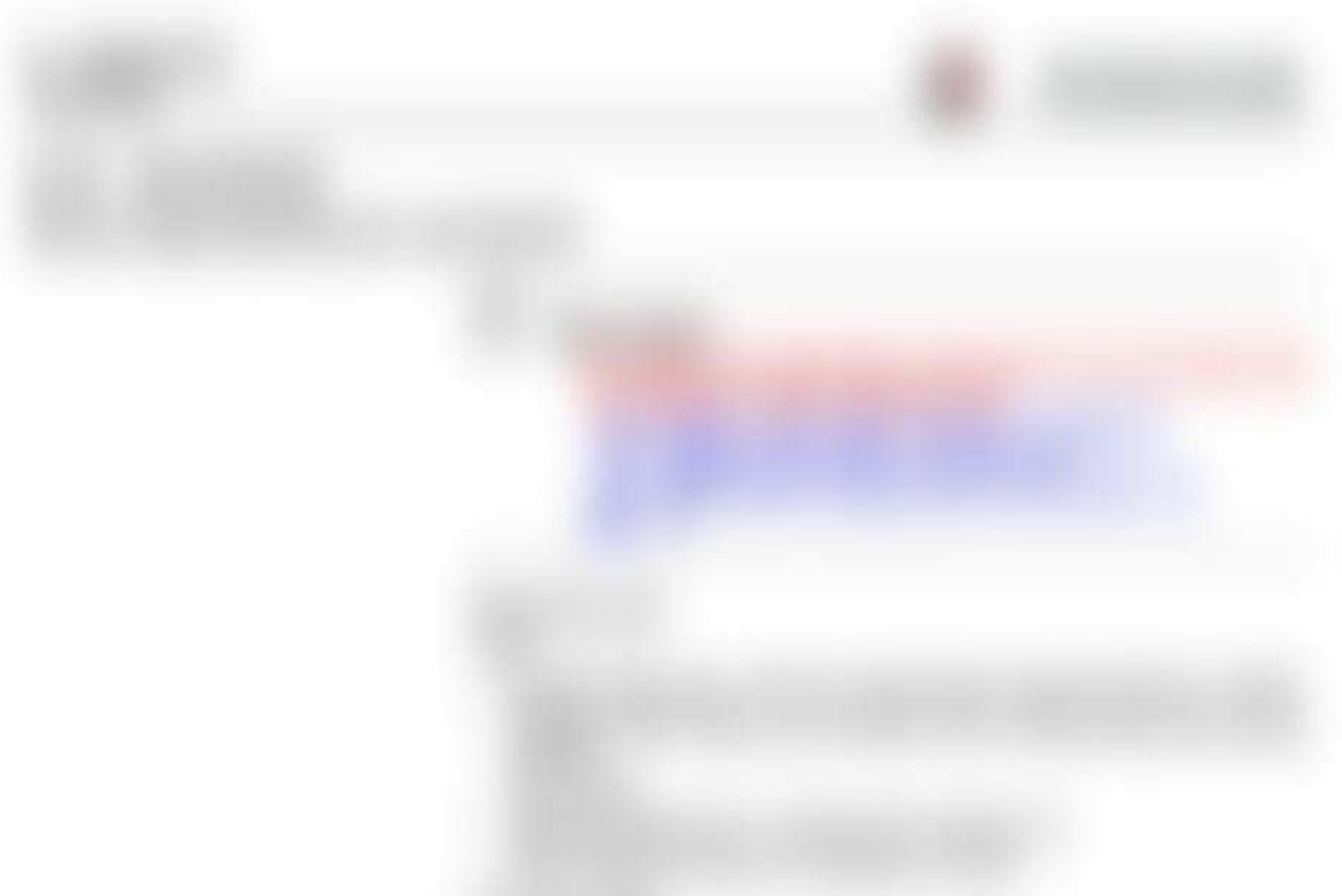


Placeholder text for the second image.



Placeholder text for the third image.













1. The first step is to check the oil level.



2. The second step is to check the battery.



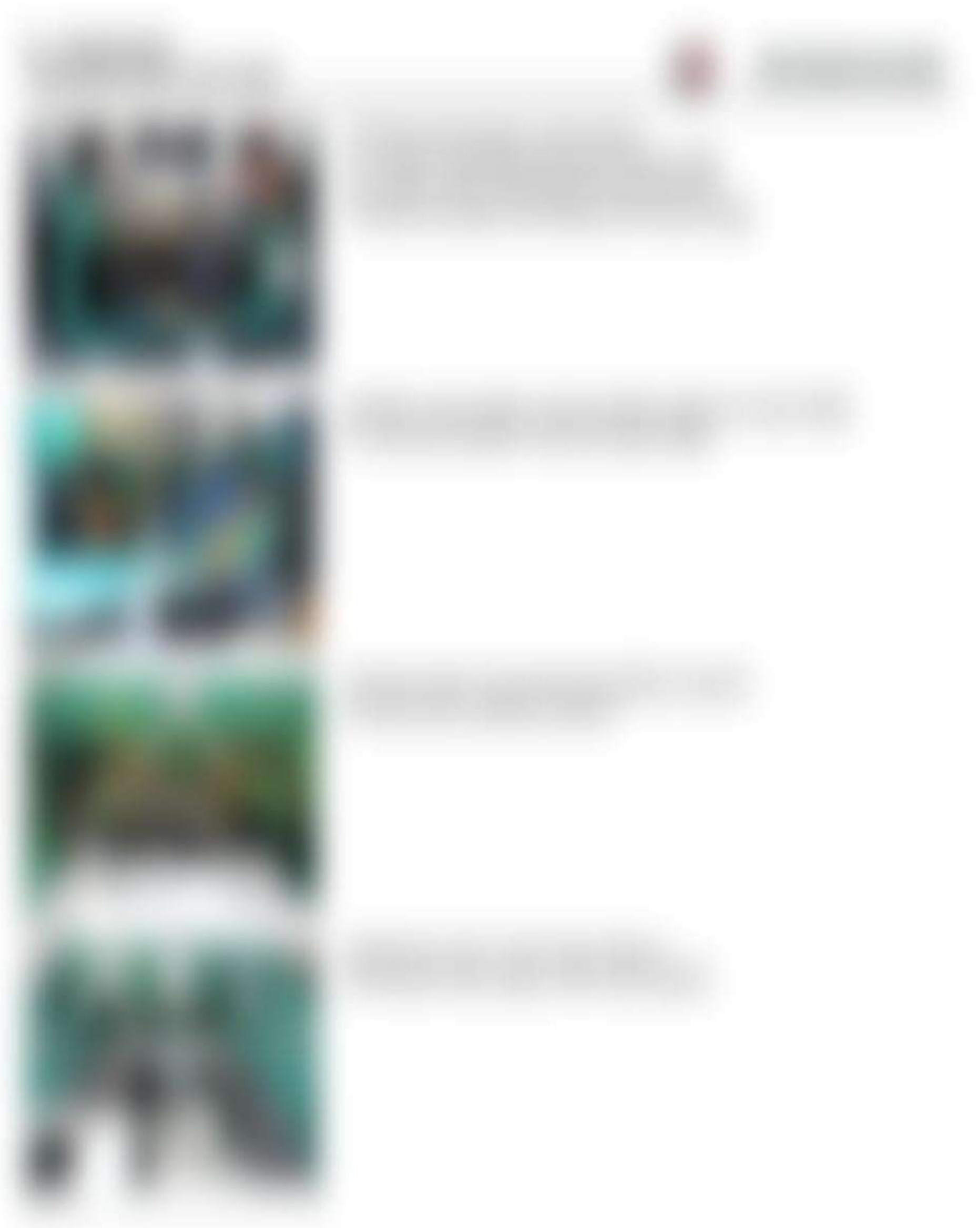
3. The third step is to check the tires.















Main content area containing several paragraphs of text, likely a list of items or a detailed description. The text is heavily blurred and illegible.



The tractor is a compact model, suitable for small-scale farming and landscaping. It features a robust engine and a variety of attachments, including a front loader and a rear PTO. The tractor is designed for ease of use and maintenance, with a simple control panel and a comfortable operator's seat. It is available in several colors, including green and yellow.

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1. The first image shows a person in a dark jacket.

2. The second image shows a green field.

3. The third image shows a person in a white shirt.

4. The fourth image shows a person in a blue shirt.

5. The fifth image shows a person in a dark jacket.



Blurred text block, likely a title or introductory paragraph.



Blurred text block, likely a description or list of items.



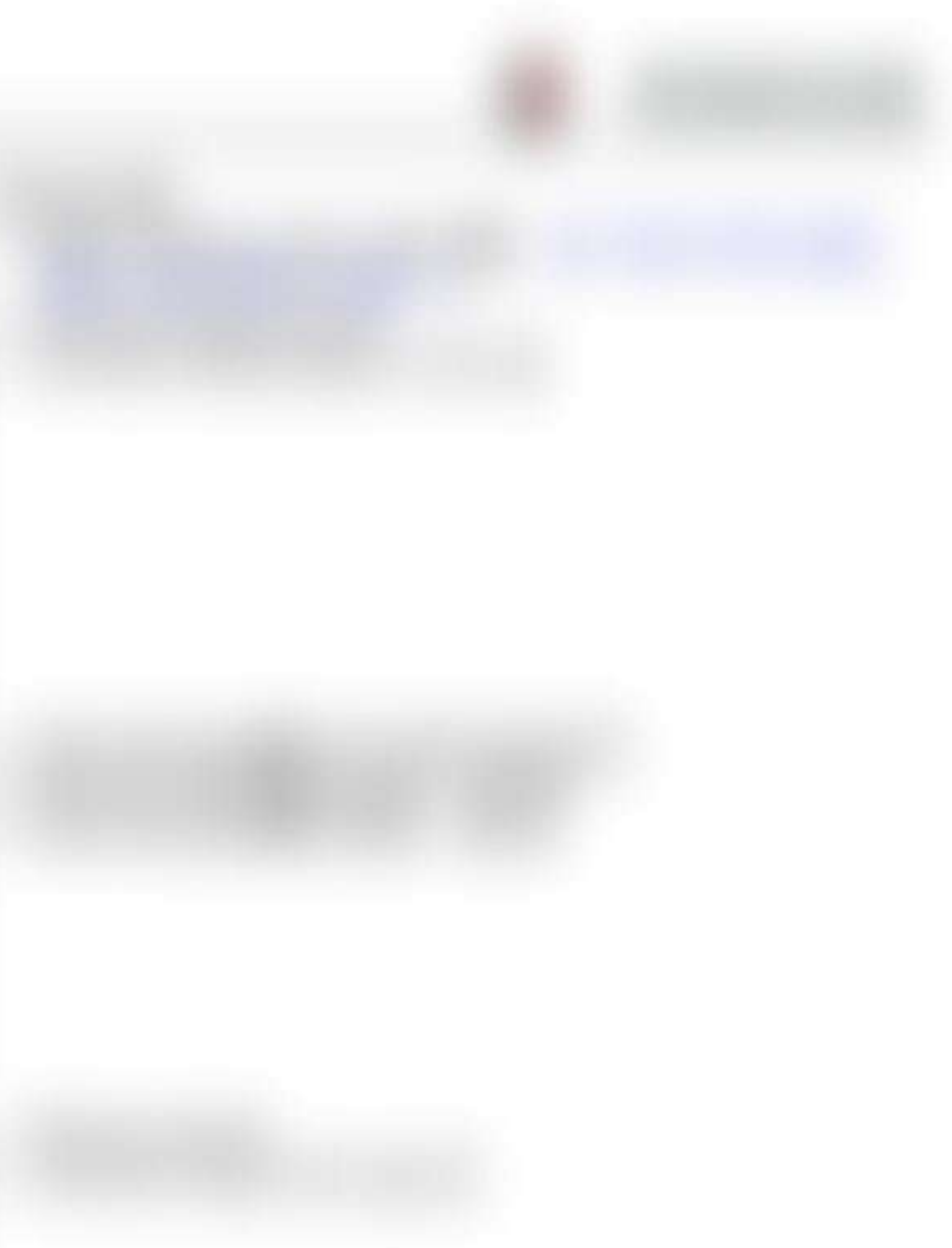
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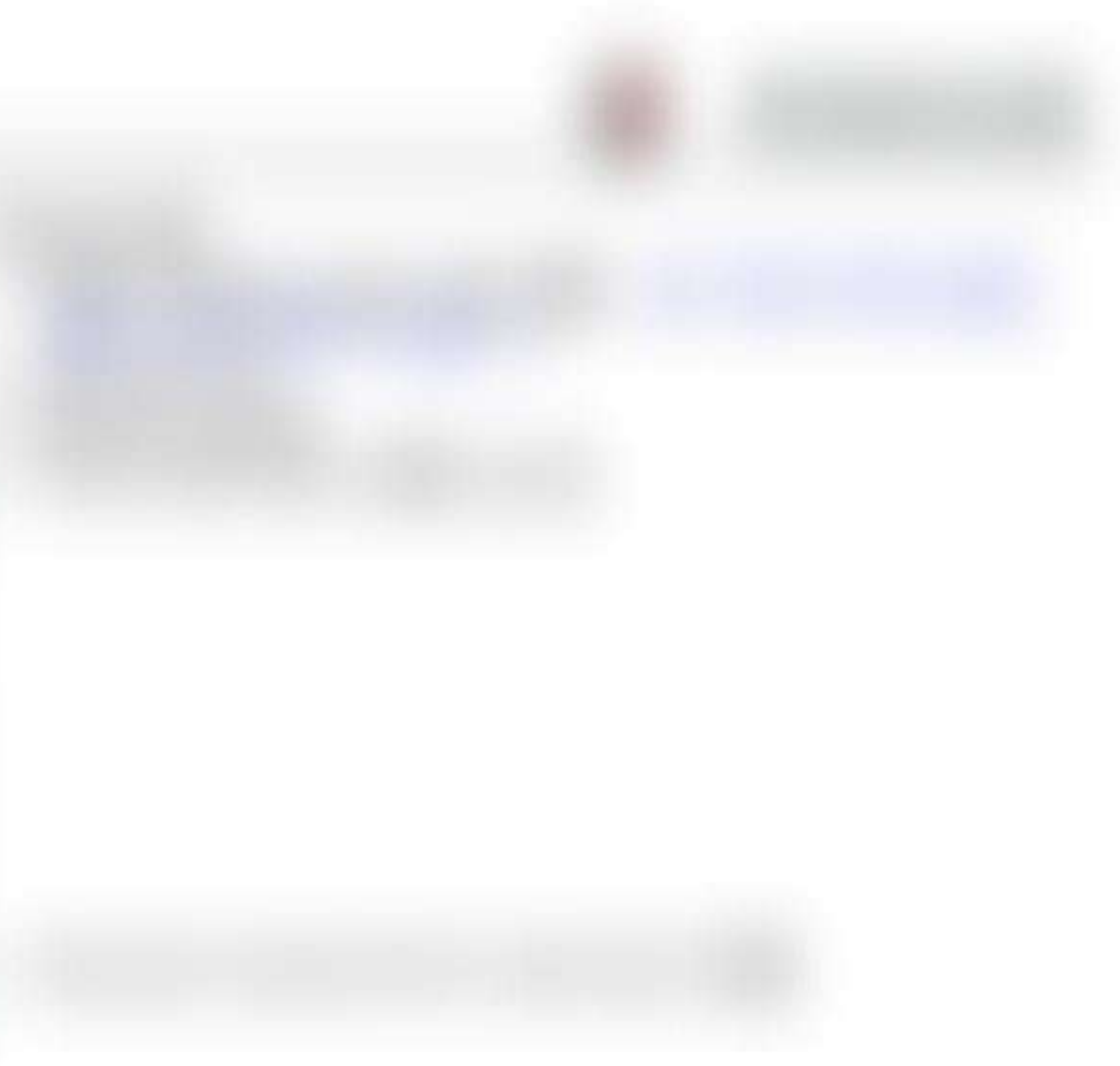






Main content area containing several blurred text blocks, possibly representing paragraphs or sections of an article.







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Faded text block, possibly a paragraph of content.



Page 1 of 1



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Blurred text block, likely a title or introductory paragraph.

Blurred text block, possibly a list or detailed description.



Header area containing text and a small red circular icon.

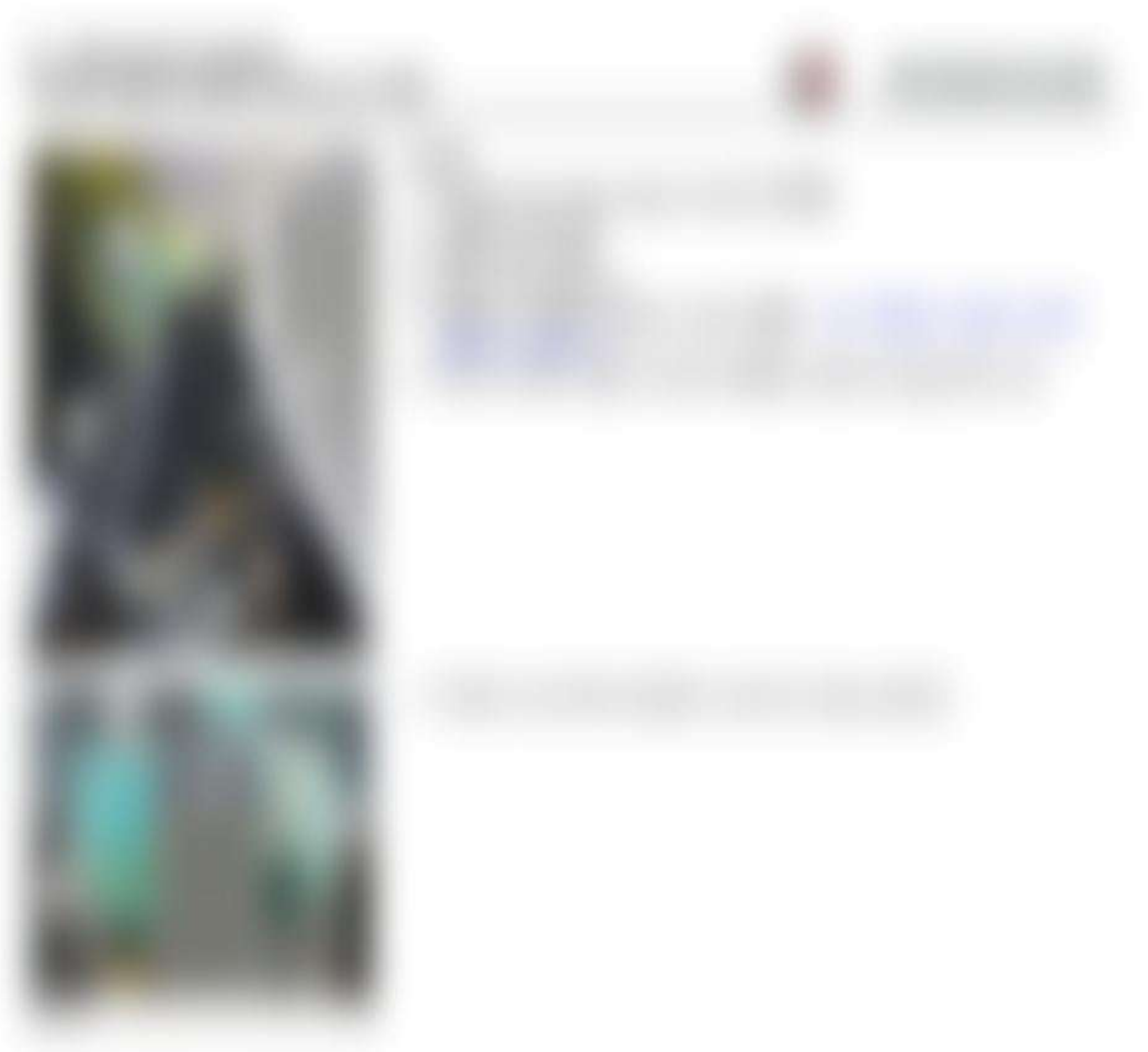


Footer area containing text.



Horizontal navigation bar with two blue buttons

Horizontal navigation bar with a single grey button













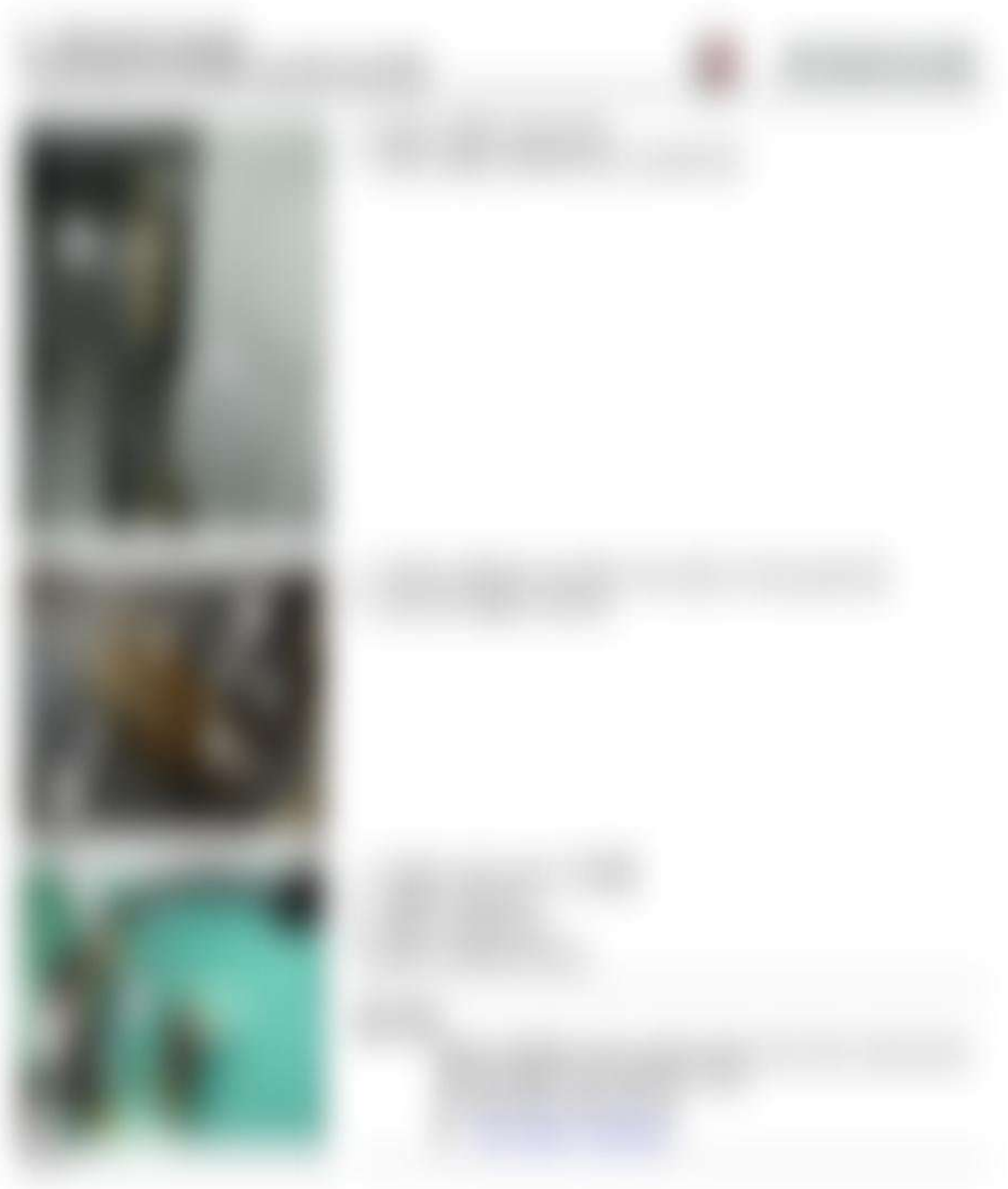
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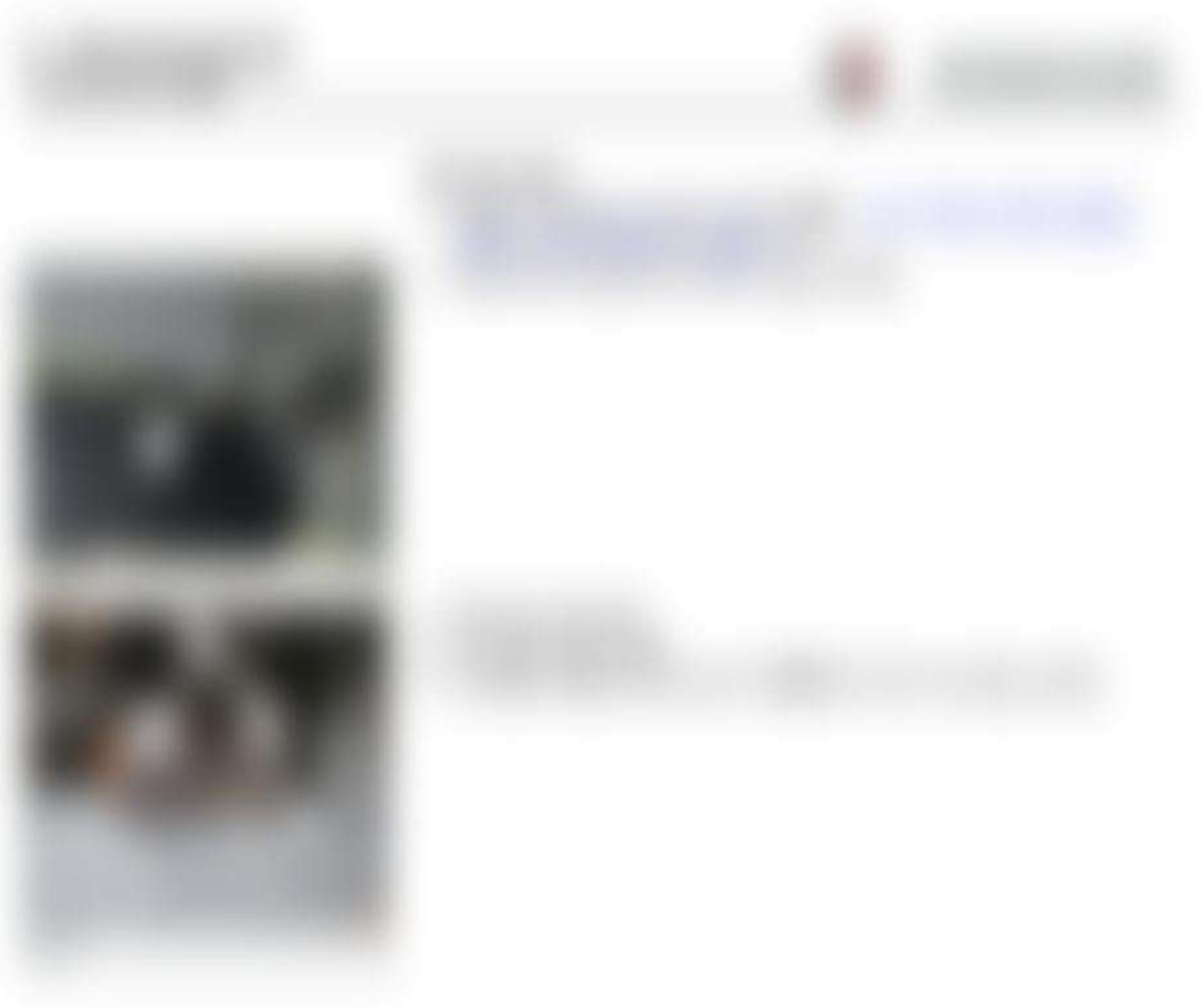
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1. Introduction

The purpose of this manual is to provide the user with the necessary information to operate the tractor safely and efficiently. It covers the basic operation, maintenance, and troubleshooting of the tractor.

2. Safety

It is important to read this manual carefully before operating the tractor. The user should be familiar with the controls and the safety features of the tractor. The user should always wear the seat belt and use the safety features of the tractor.

3. Operation

The user should follow the instructions in this manual when operating the tractor. The user should always use the correct technique for operating the tractor. The user should always use the correct gear for the terrain and the load.

4. Maintenance

The user should follow the instructions in this manual when performing maintenance on the tractor. The user should always use the correct tools and materials. The user should always follow the correct procedure for performing maintenance on the tractor.

5. Troubleshooting

The user should follow the instructions in this manual when troubleshooting the tractor. The user should always use the correct procedure for troubleshooting the tractor. The user should always use the correct tools and materials.

6. Specifications

The user should refer to the specifications in this manual for the tractor. The user should always use the correct specifications for the tractor. The user should always use the correct tools and materials.

7. Warranty

The user should refer to the warranty in this manual for the tractor. The user should always use the correct procedure for claiming the warranty. The user should always use the correct tools and materials.

8. Index

The user should refer to the index in this manual for the tractor. The user should always use the correct procedure for finding the information in the index. The user should always use the correct tools and materials.



Blurred content area containing text and possibly a diagram or image. The text is illegible due to blurring.













Several lines of blurred text, likely representing a list of items or a short article. The text is illegible due to the low resolution and blurring.









1. The first step is to identify the problem. This can be done by checking the symptoms and the location of the problem.

2. The second step is to check the oil level. This is important because low oil can cause many problems.

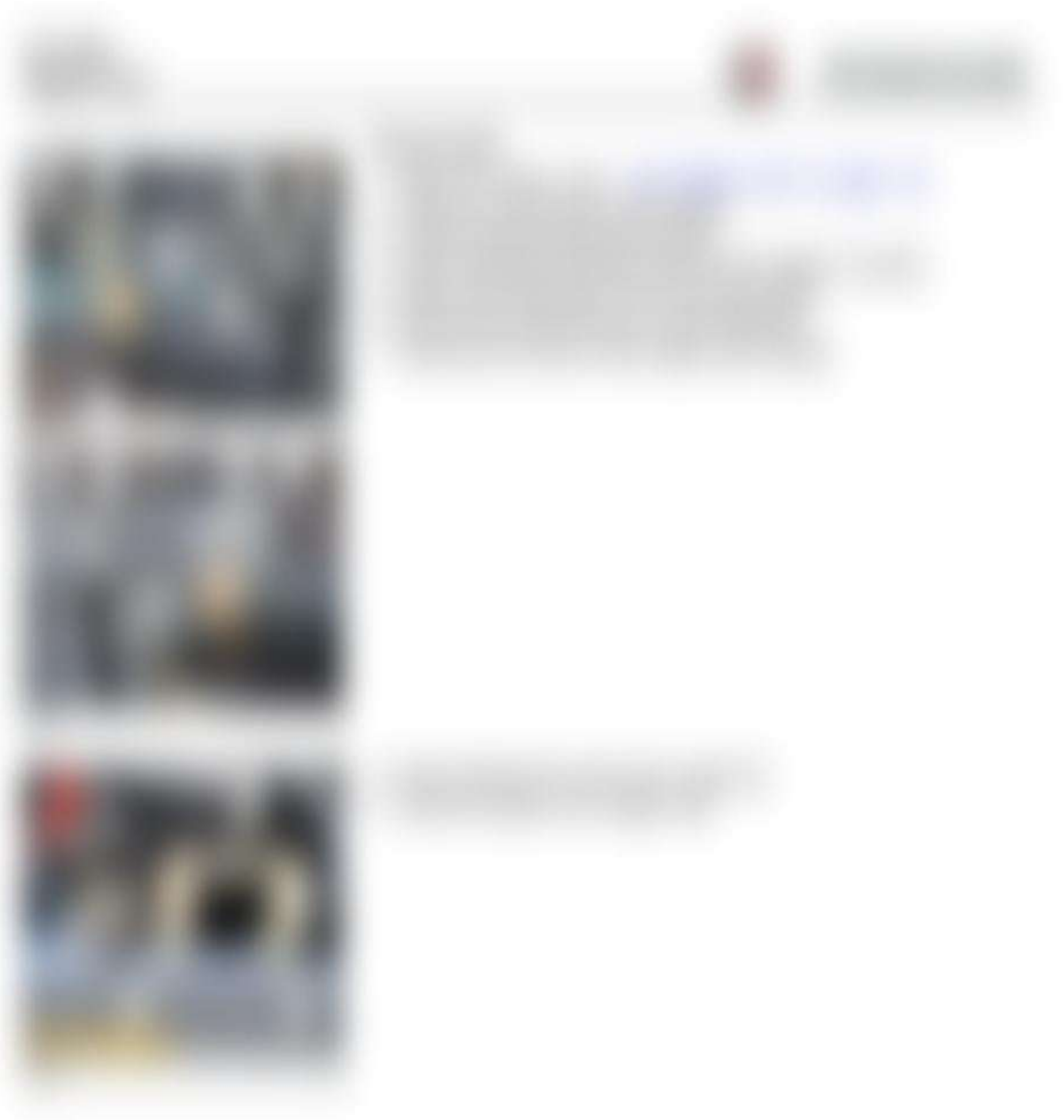
3. The third step is to check the air filter. A dirty air filter can restrict airflow and cause the engine to run poorly.

4. The fourth step is to check the spark plugs. Worn spark plugs can cause the engine to misfire and run poorly.

5. The fifth step is to check the timing. The timing of the engine is crucial for proper operation.









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Main content area containing several paragraphs of text, likely instructions or a manual. The text is heavily blurred and illegible.



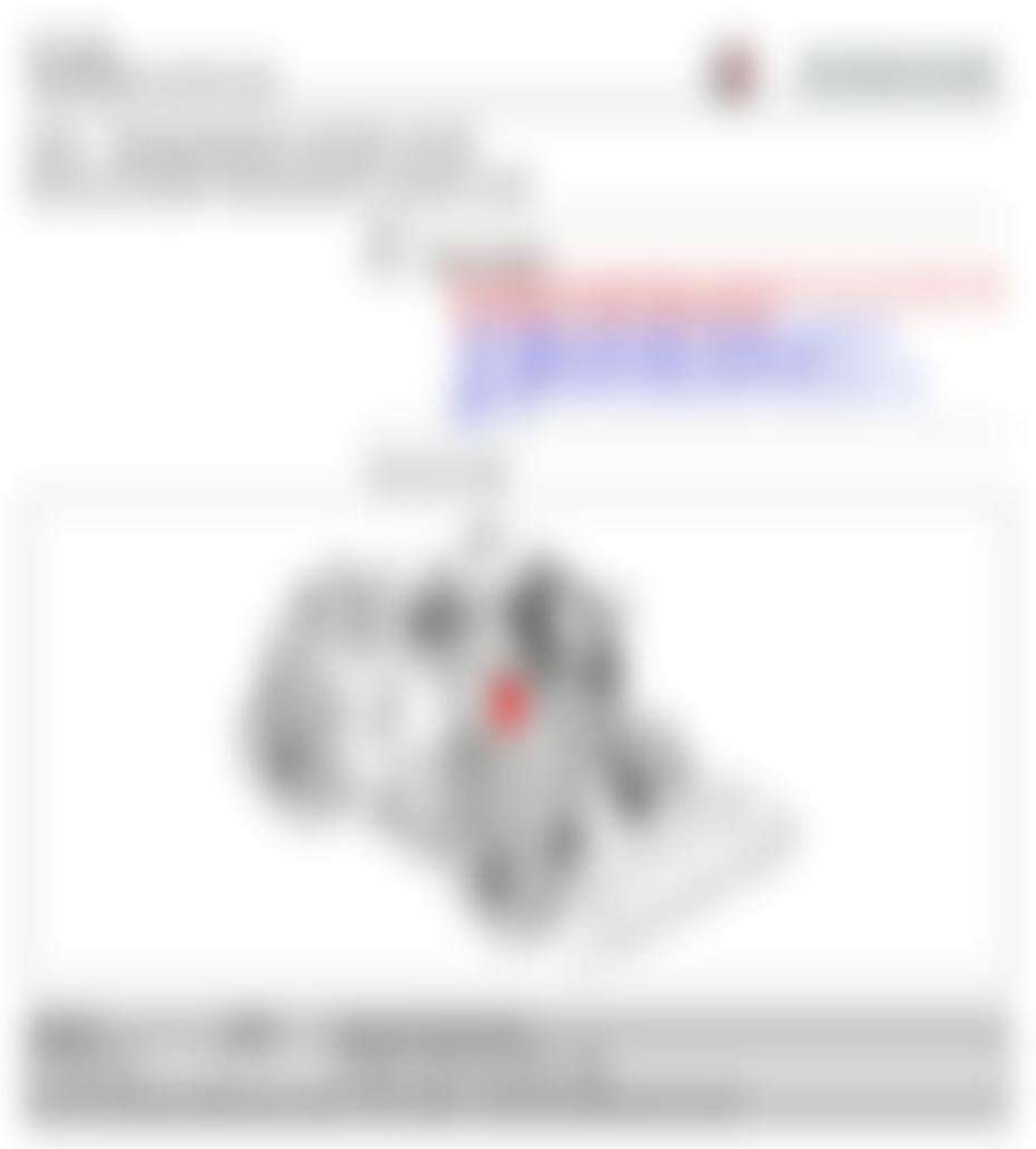
Text block 1: A paragraph of text, likely a description or introduction related to the image.



Text block 2: A paragraph of text, likely a description or introduction related to the image.



Text block 3: A paragraph of text, likely a description or introduction related to the image.











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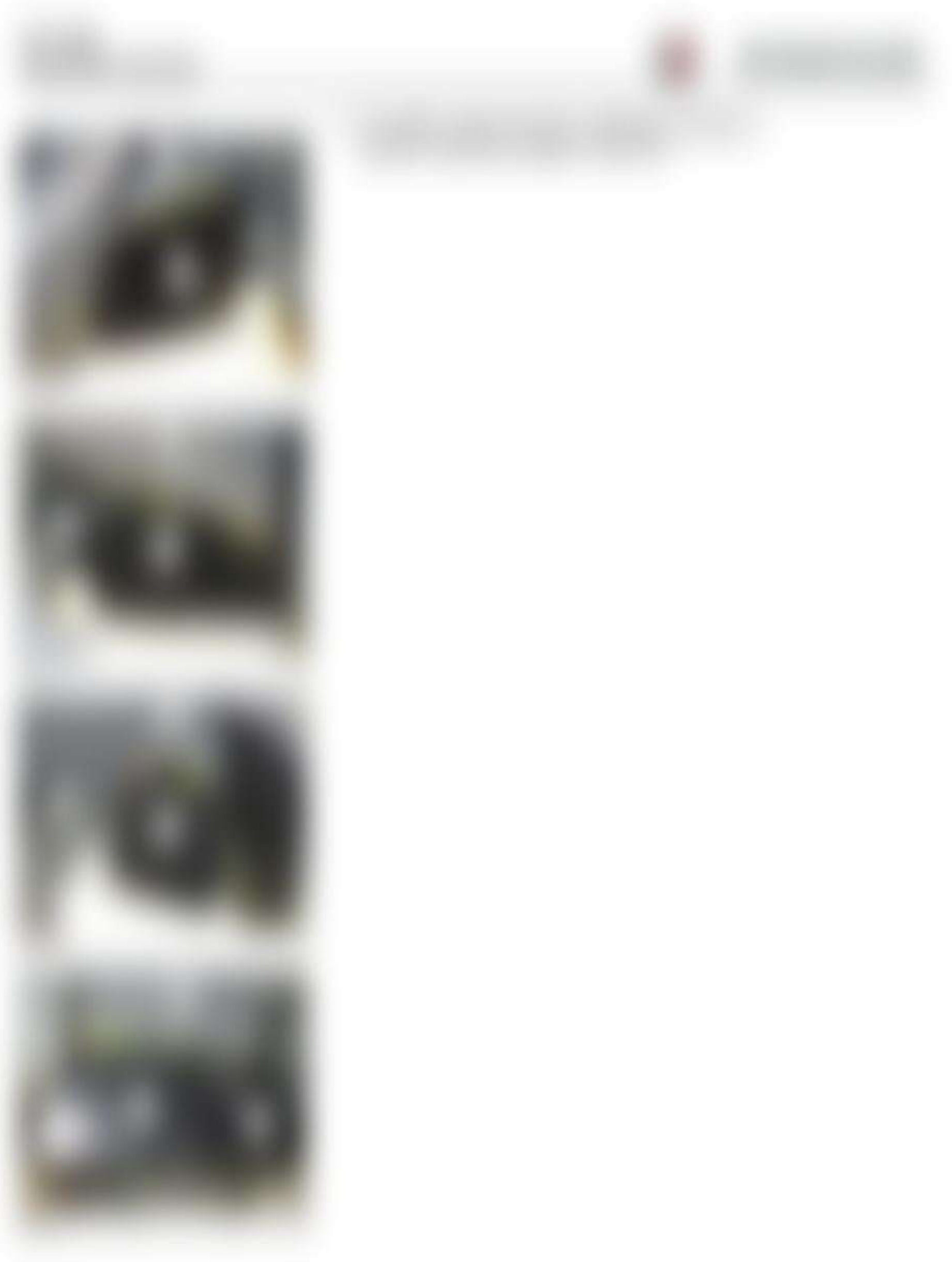
Blurred text block, likely a sub-header or section title.

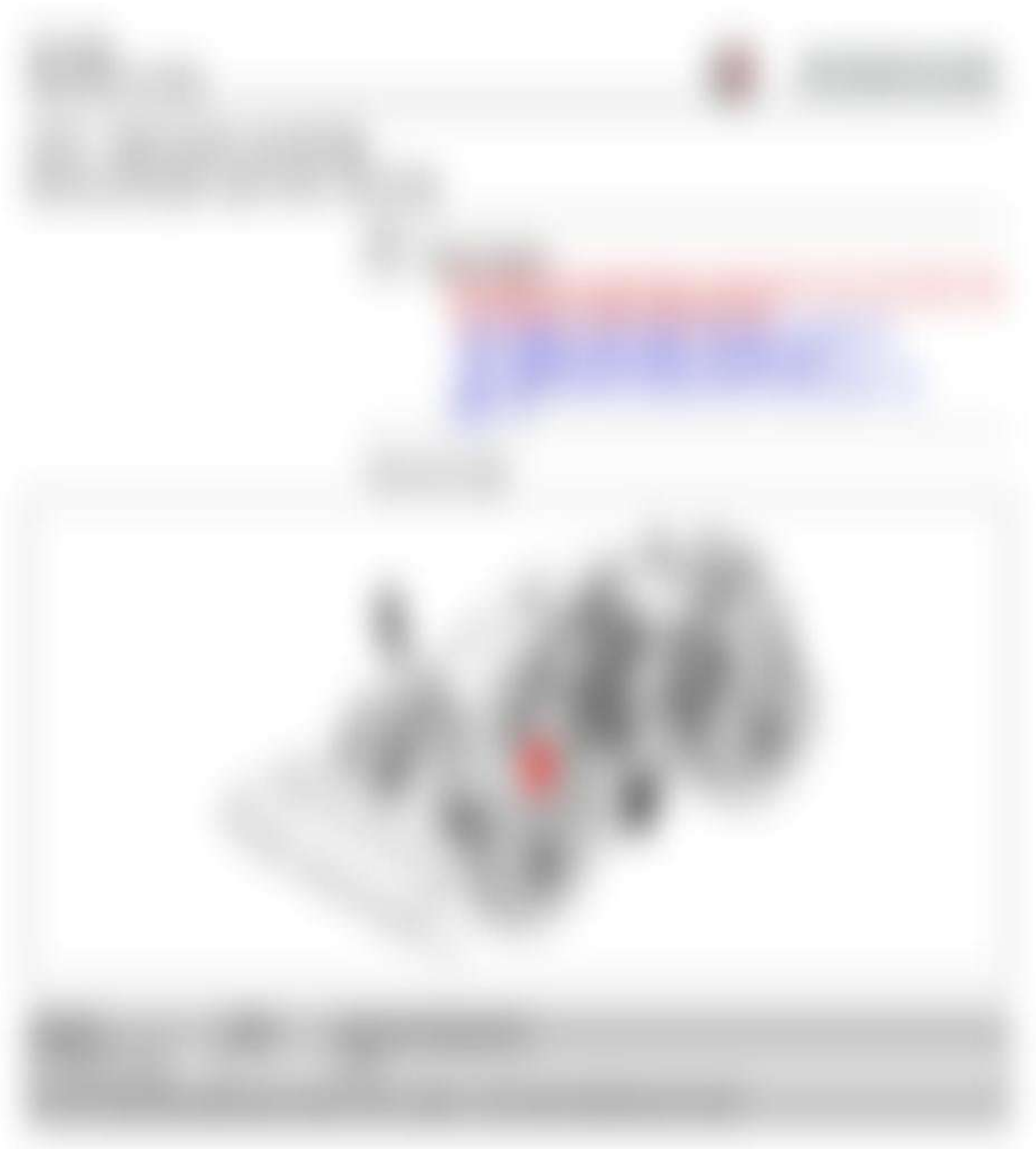


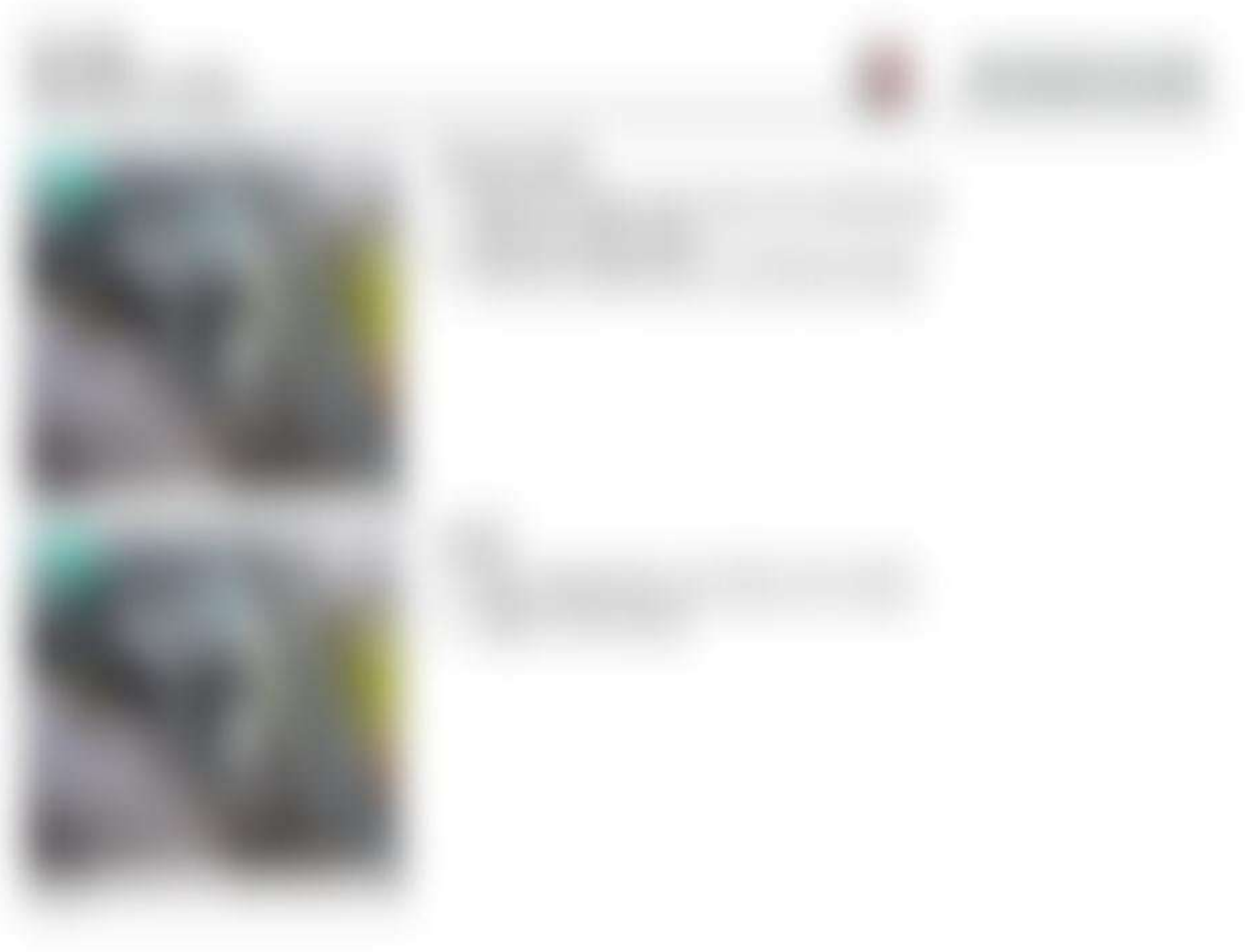






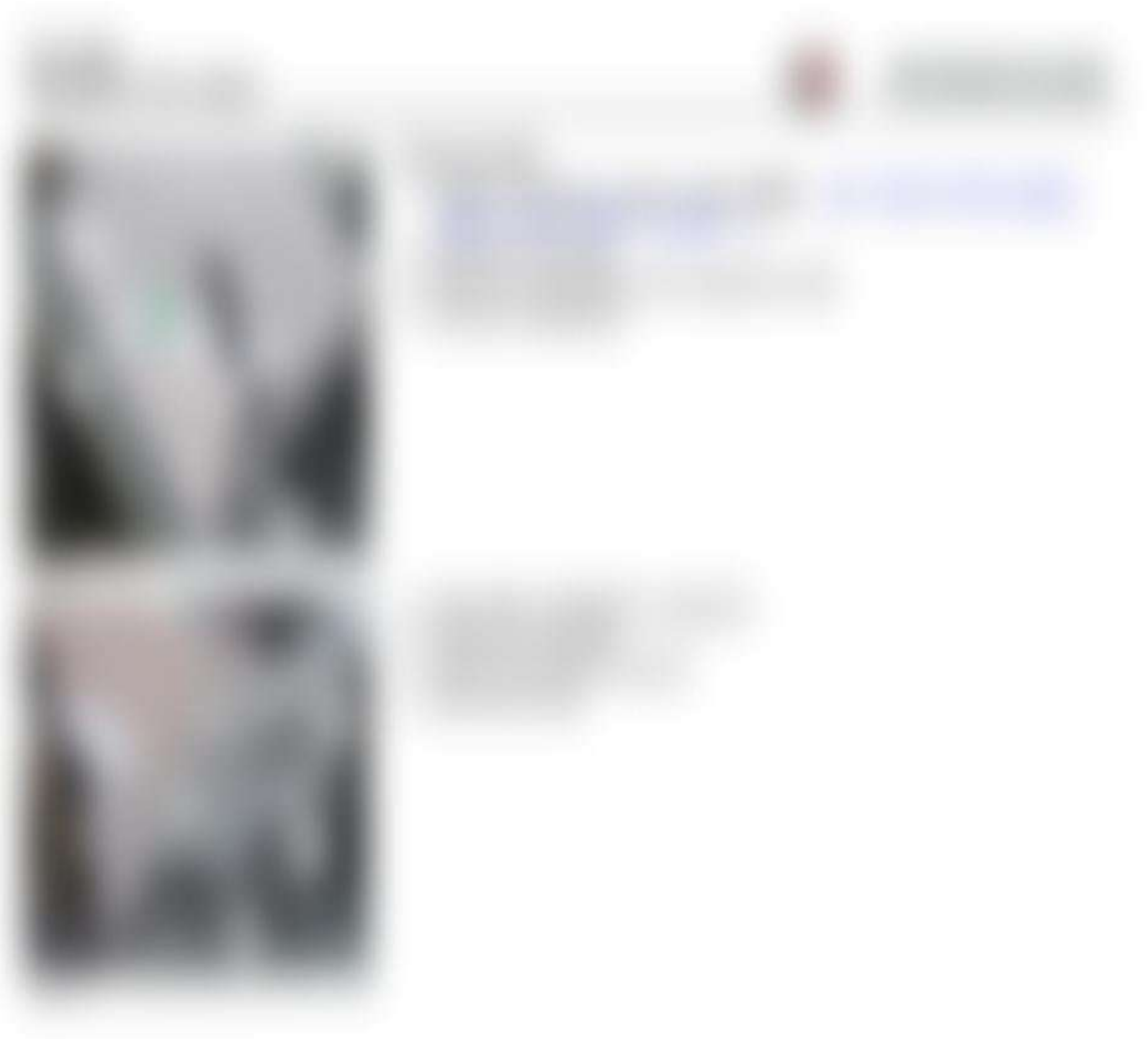






Header area with a logo on the right and some text on the left.

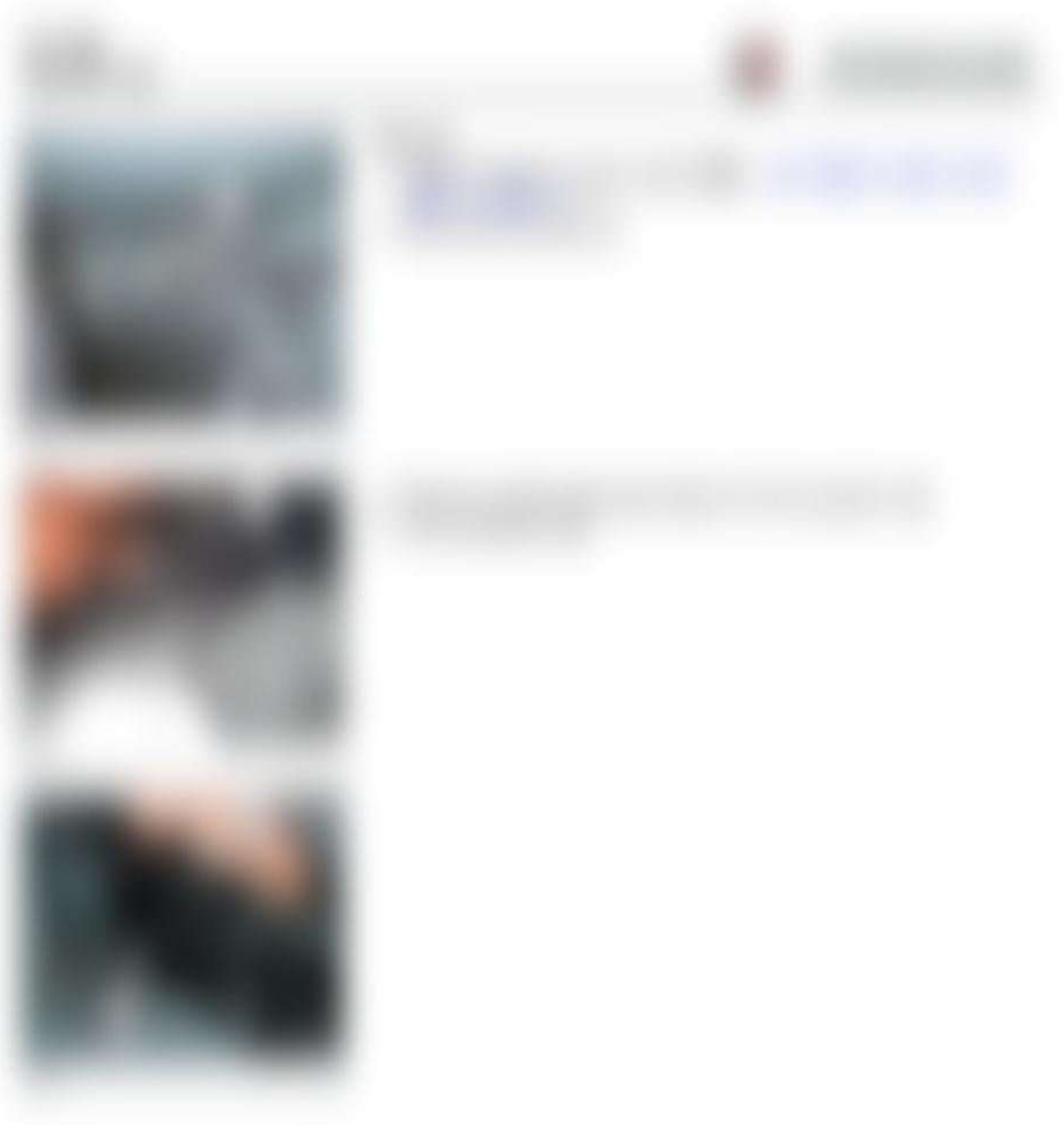














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1. Introduction

2. Methodology

3. Results

4. Discussion

5. Conclusion



6. References



[The text in this section is extremely blurry and illegible. It appears to be a list of items or a series of paragraphs, but the content cannot be discerned.]



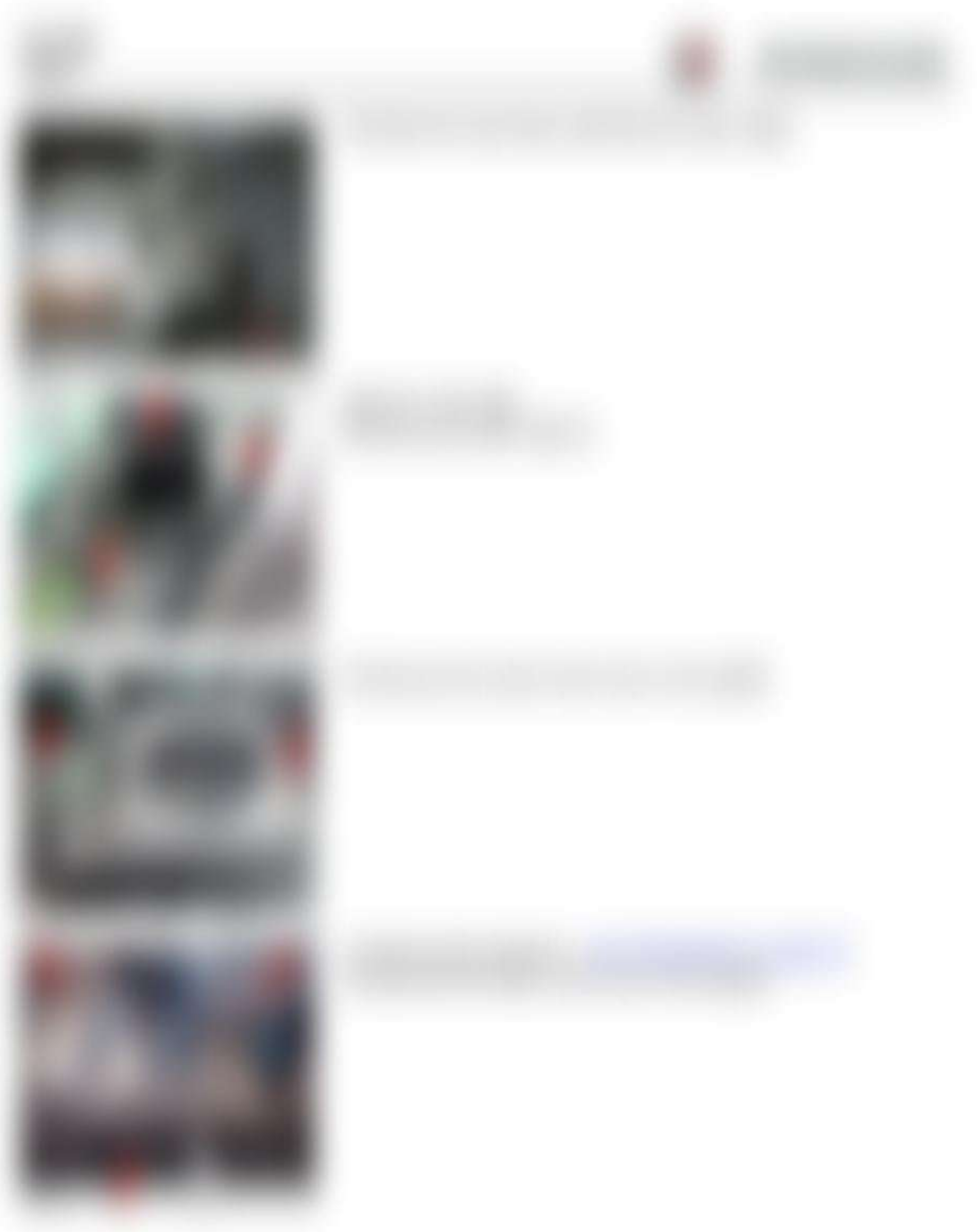
1. The first image shows a component with a red dot, possibly a valve or a piston, with some text to its right.

2. The second image shows a component with a blue and red area, possibly a valve or a piston, with some text to its right.

3. The third image shows a component with a blue and red area, possibly a valve or a piston, with some text to its right.

4. The fourth image shows a component with a blue and red area, possibly a valve or a piston, with some text to its right.

5. The fifth image shows a component with a blue and red area, possibly a valve or a piston, with some text to its right.





Blurred text content, likely the main body of a maintenance manual or technical document. The text is illegible due to blurring.



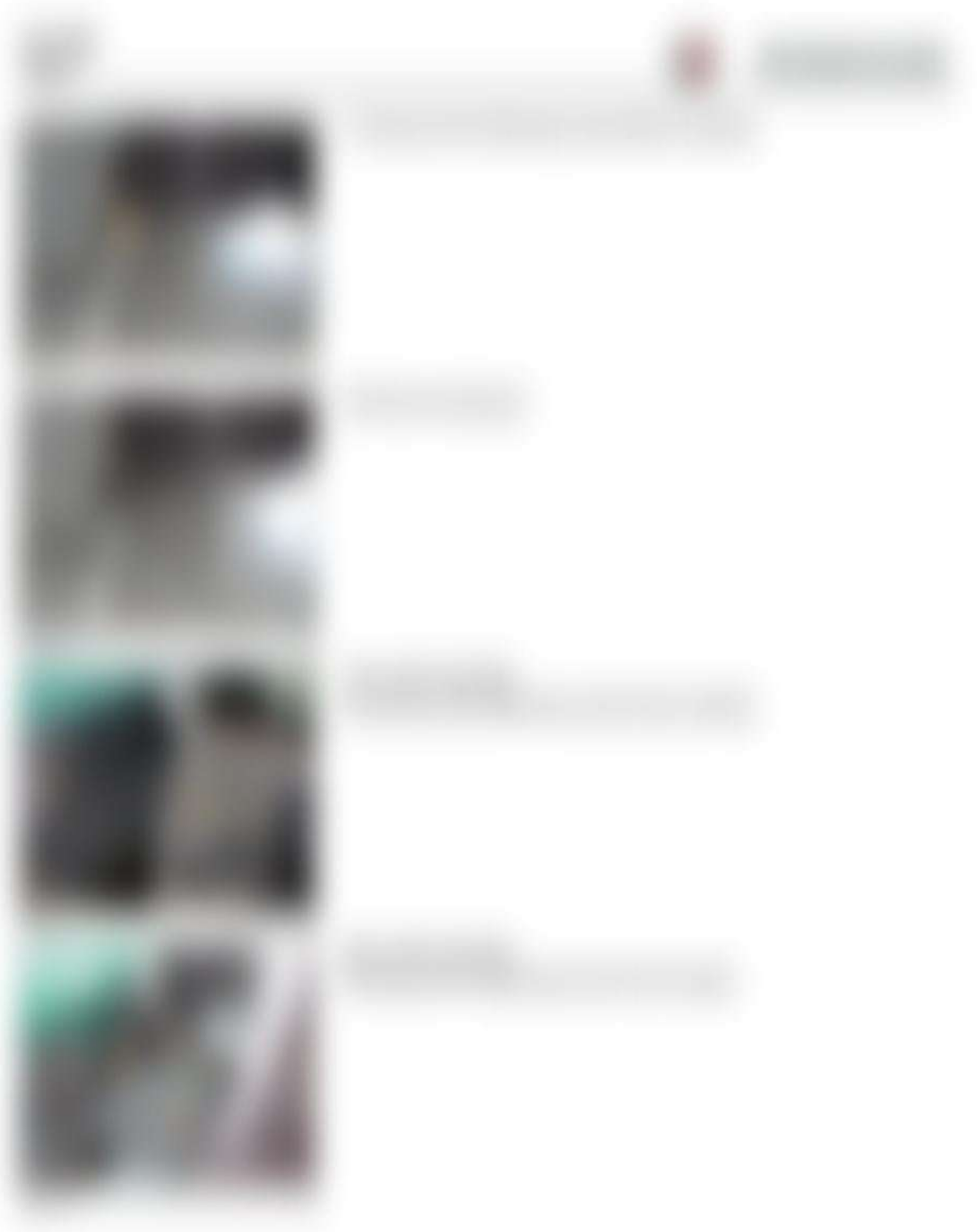
Blurred text at the top of the page, possibly a header or title.

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Blurred text in the middle section of the page, possibly a main body of text or a list.

Blurred text in the lower middle section of the page.

Blurred text at the bottom of the page, possibly a footer or a note.







Section of text, likely a title or heading, which is heavily blurred and illegible.

Section of text, likely a title or heading, which is heavily blurred and illegible.



Tractor manual

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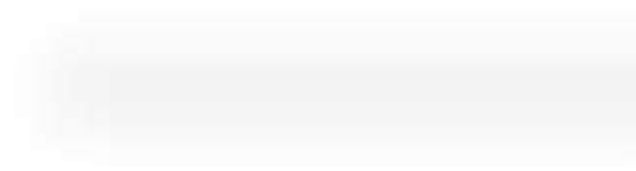
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Placeholder text for the main content area, consisting of several paragraphs of blurred text.



Text block 1: A paragraph of text, likely a description or article snippet, corresponding to the first thumbnail.



Text block 2: A paragraph of text, likely a description or article snippet, corresponding to the second thumbnail.



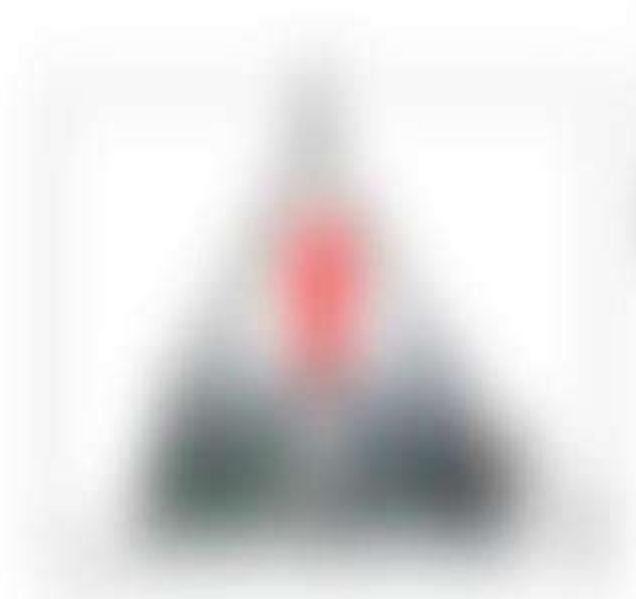
Text block 3: A paragraph of text, likely a description or article snippet, corresponding to the third thumbnail.

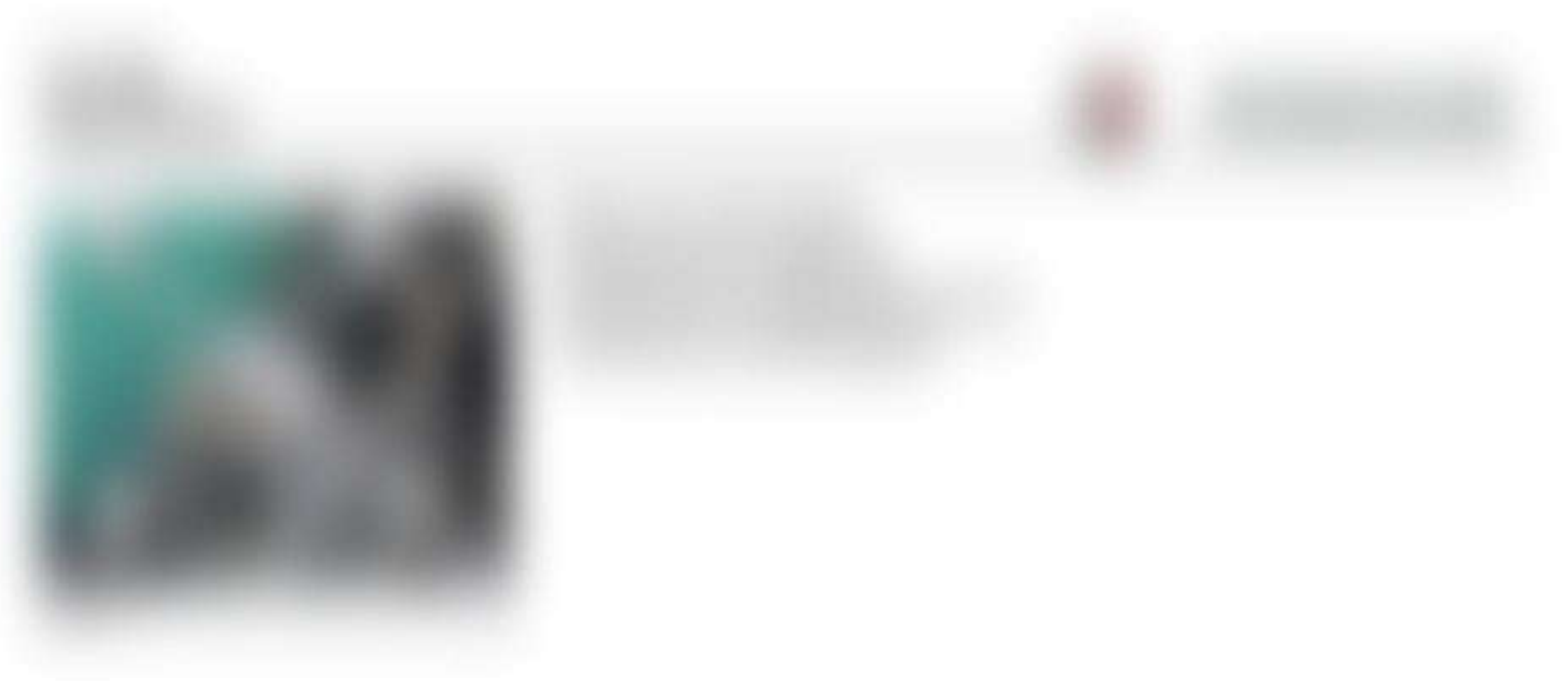


Text block 4: A paragraph of text, likely a description or article snippet, corresponding to the fourth thumbnail.











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Blurred text block corresponding to the second image.



Blurred text block corresponding to the third image.



Large blurred text block corresponding to the fourth image.

Large blurred text block at the bottom of the page.





1. Introduction

2. Methodology

3. Results

4. Discussion



5. Conclusion

6. References



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Tractor Manual

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Tractor Manual



1. [Illegible text]

2. [Illegible text]

3. [Illegible text]

4. [Illegible text]

[Illegible text]







The rear wheel is a solid disc type with a tread pattern designed for off-road use. It is mounted on a steel hub and is connected to the axle via a hub and nut assembly. The tire is a standard tractor tire with a deep tread for traction in soft soil.



The front wheel is a solid disc type with a tread pattern designed for off-road use. It is mounted on a steel hub and is connected to the axle via a hub and nut assembly. The tire is a standard tractor tire with a deep tread for traction in soft soil.



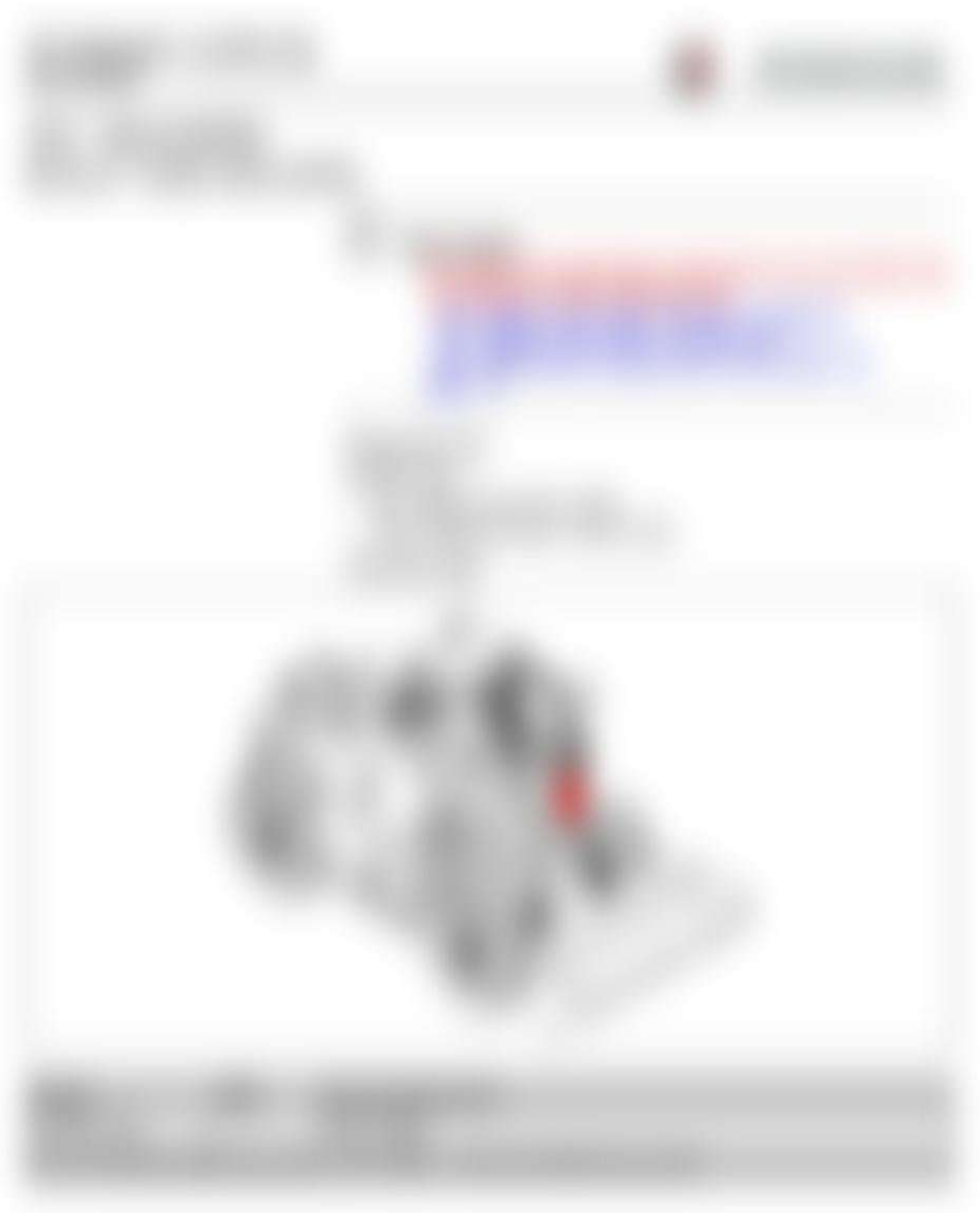
The front wheel is a solid disc type with a tread pattern designed for off-road use. It is mounted on a steel hub and is connected to the axle via a hub and nut assembly. The tire is a standard tractor tire with a deep tread for traction in soft soil.

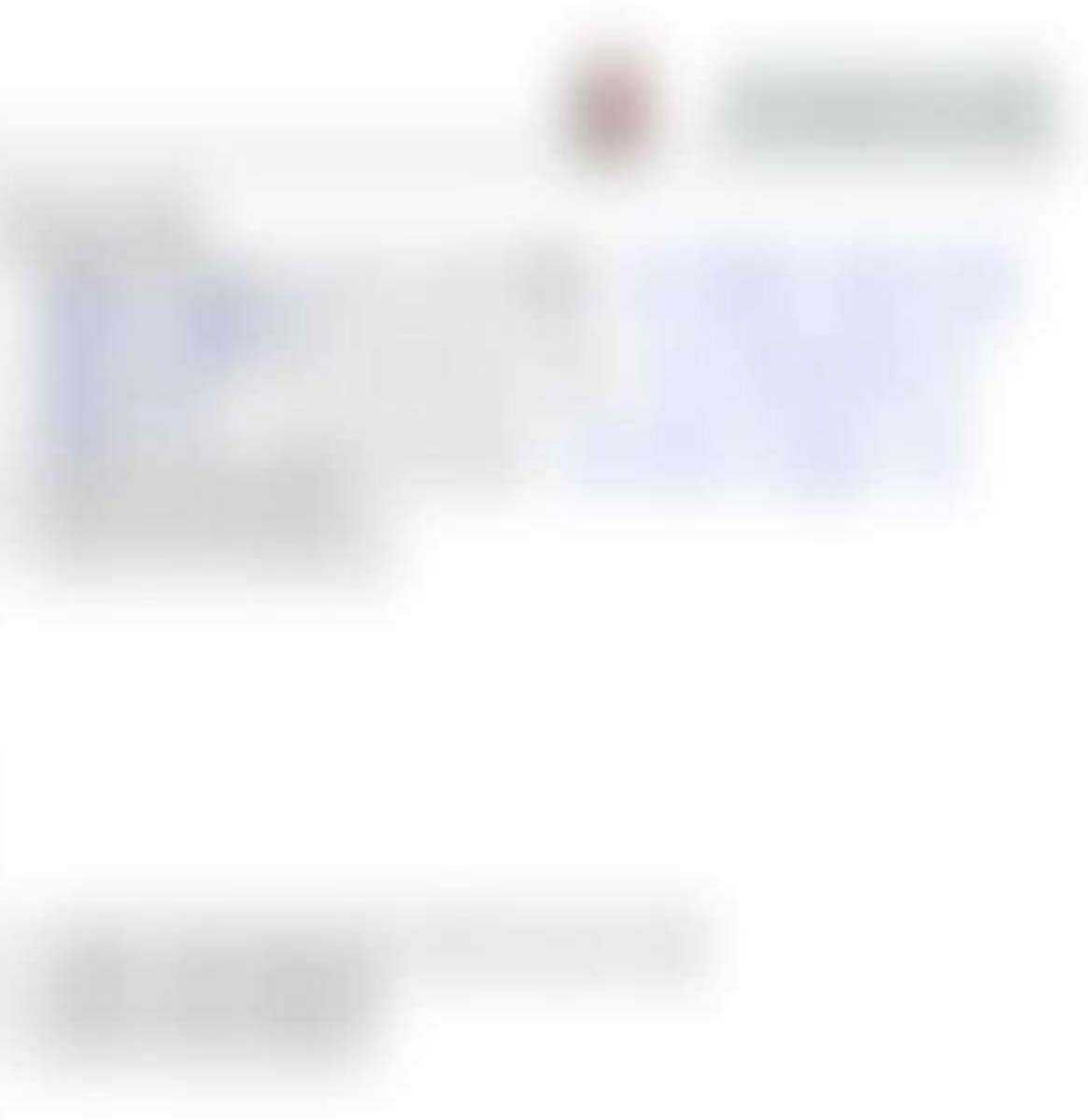


The rear wheel is a solid disc type with a tread pattern designed for off-road use. It is mounted on a steel hub and is connected to the axle via a hub and nut assembly. The tire is a standard tractor tire with a deep tread for traction in soft soil.













Header area with navigation links and a search bar.

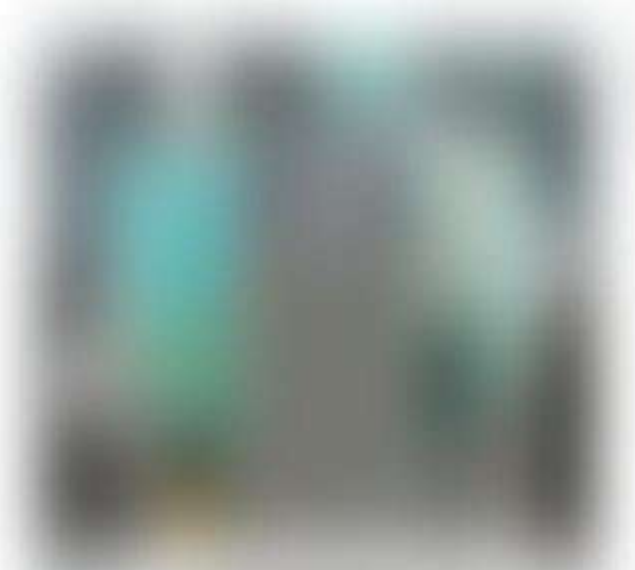


Text area containing several lines of blurred text, likely a list of items or a short article.



Text area below the motorcycle image, containing several lines of blurred text.

Text area at the bottom of the page, containing several lines of blurred text.



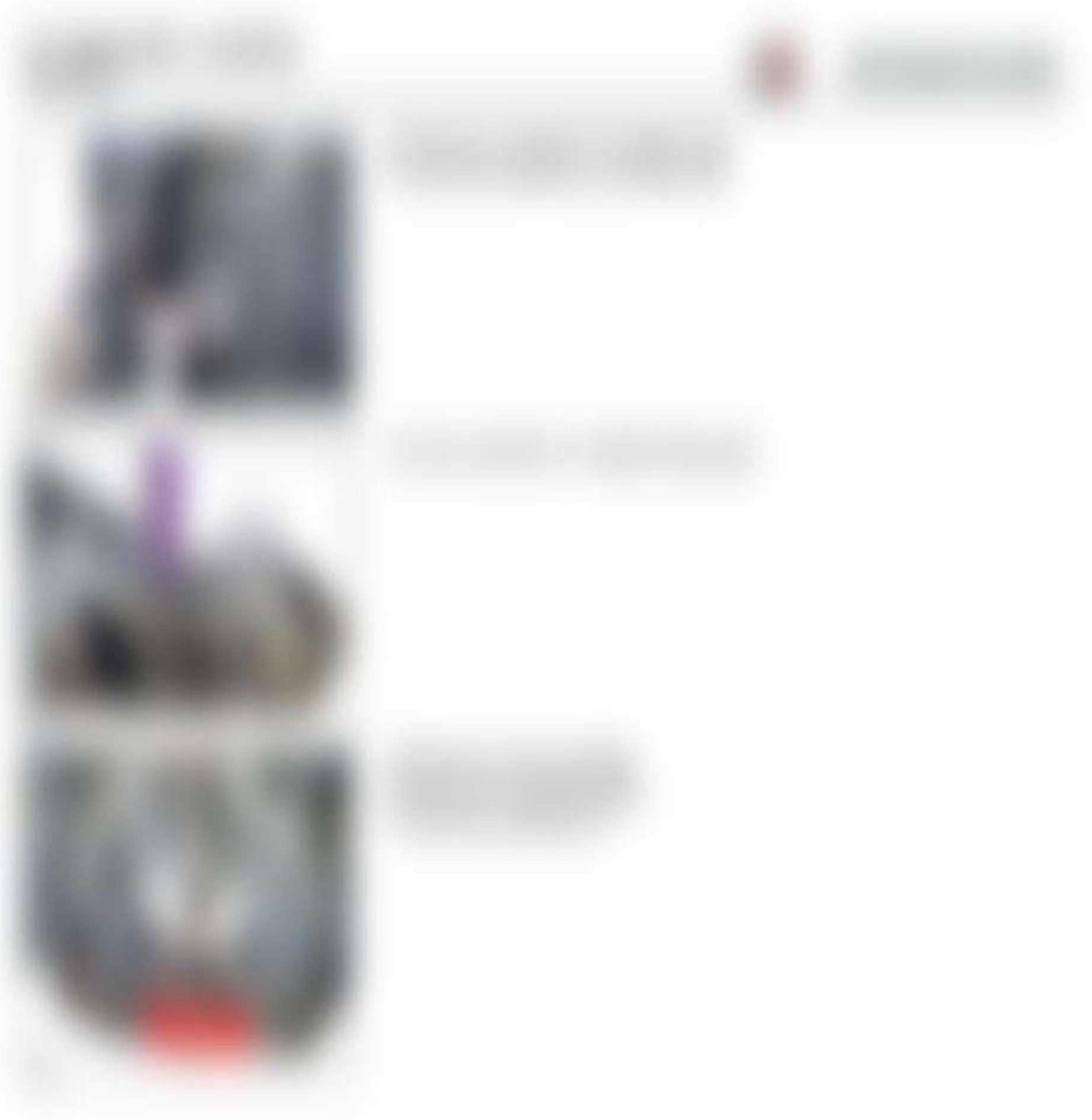
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Blurred text block, likely a paragraph of content.





1. The first image shows a close-up of a mechanical component, possibly a valve or actuator, with a red label or marking at the bottom.



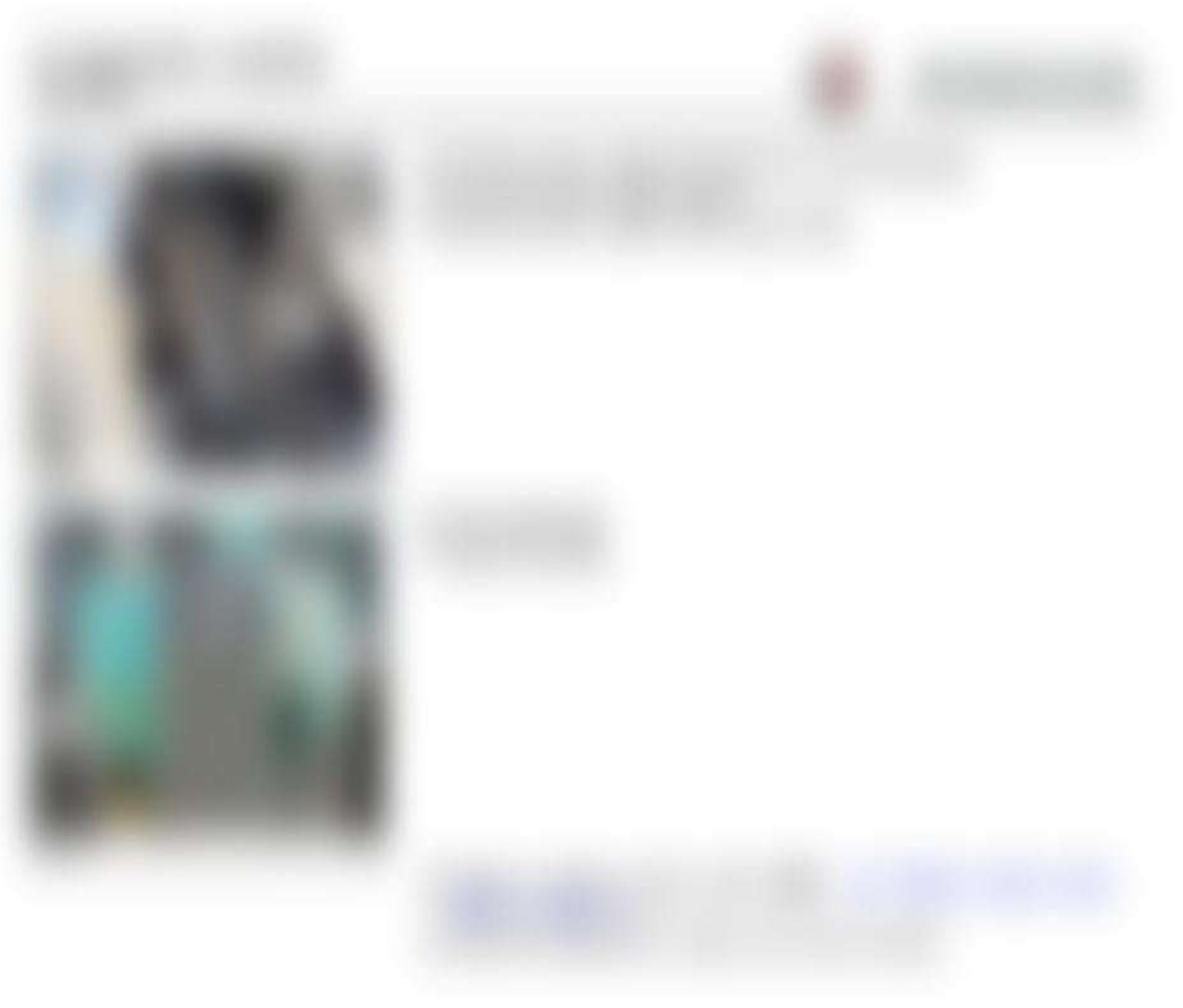
2. The second image shows a close-up of a mechanical component, possibly a valve or actuator, with a blue label or marking at the bottom.

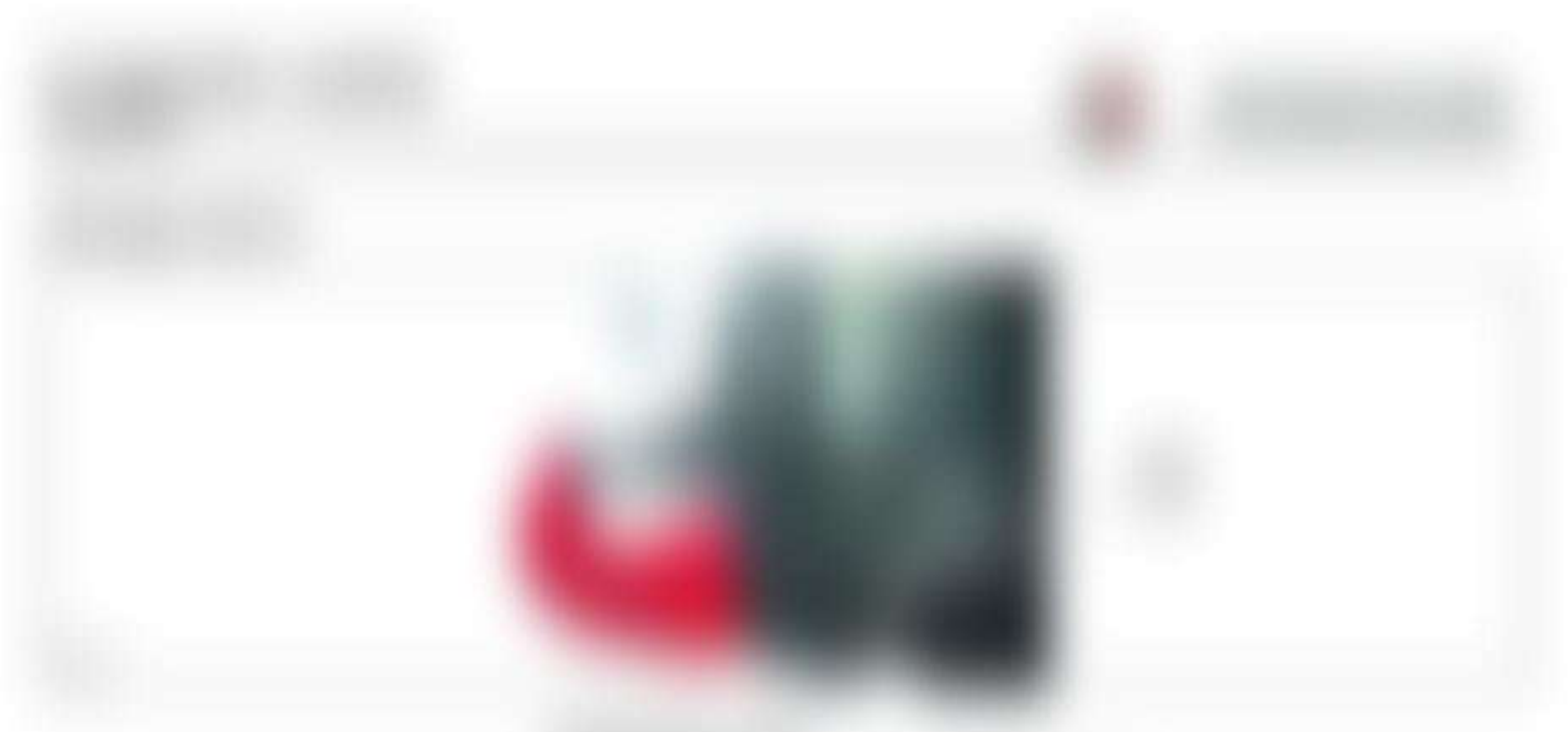


3. The third image shows a close-up of a mechanical component, possibly a valve or actuator, with a yellow label or marking at the bottom.



4. The fourth image shows a close-up of a mechanical component, possibly a valve or actuator, with a blue label or marking at the bottom.











[Blurred text content]







[The text in this section is extremely blurry and illegible. It appears to be a list of items or steps, possibly related to the tractor work shown in the images on the left.]



1. The first image shows a component with a blue and white label. This component is likely a valve or sensor used in the system.



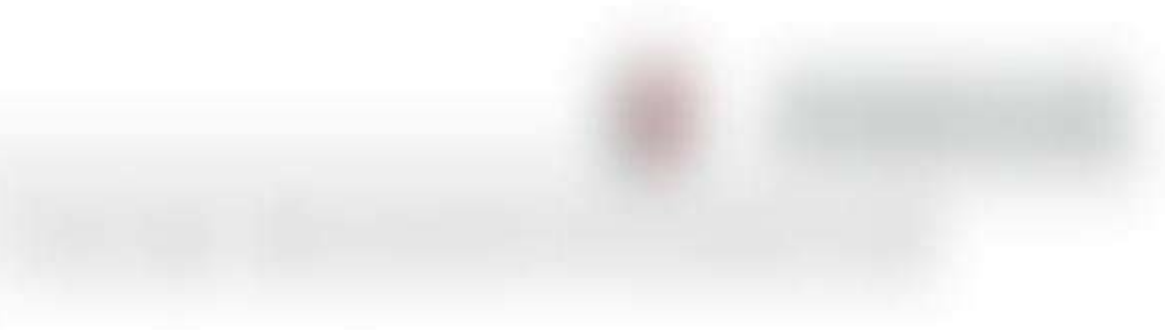
2. The second image shows a component with a red and black label. This component is likely a valve or sensor used in the system.



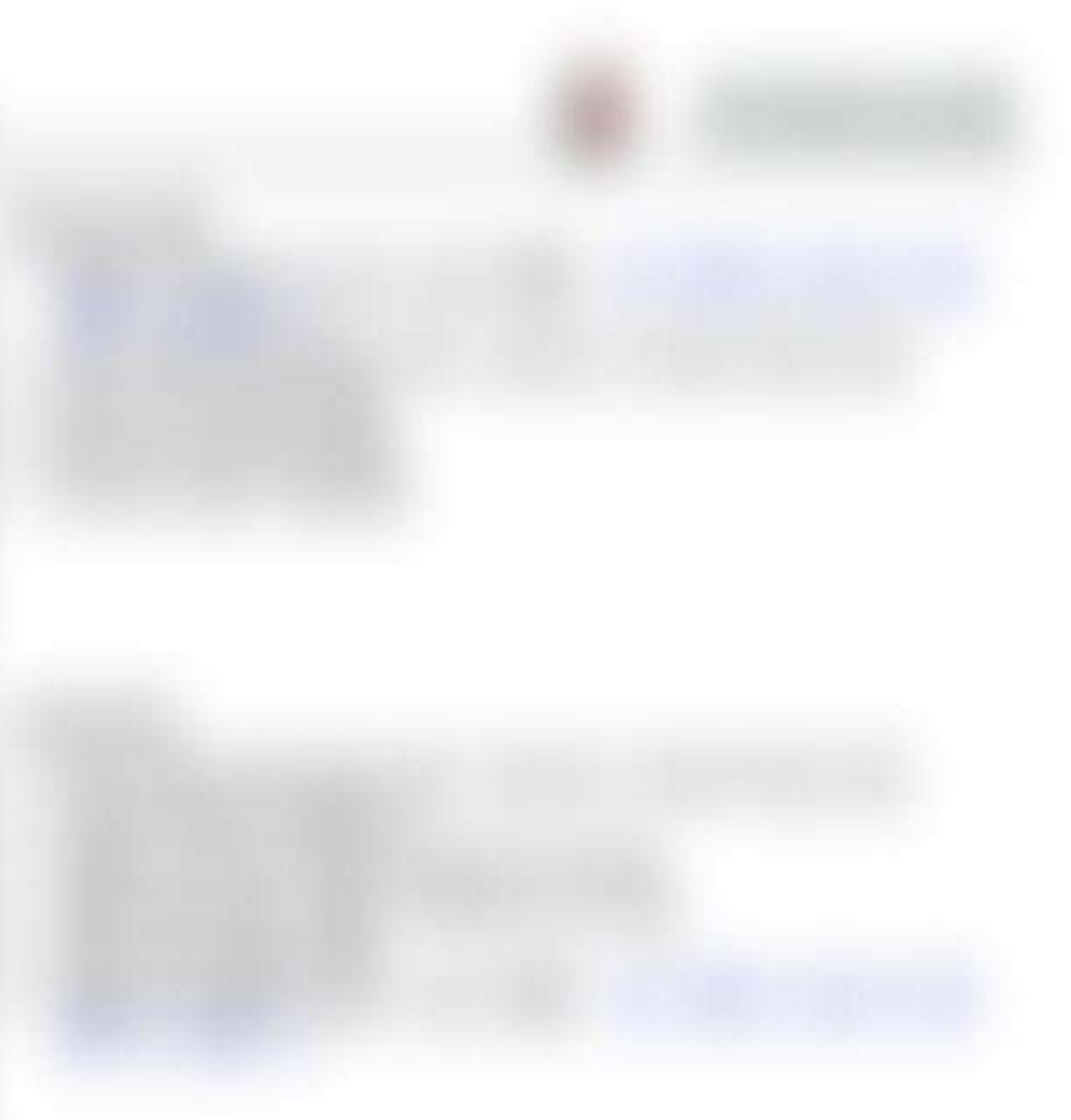
3. The third image shows a component with a red and black label. This component is likely a valve or sensor used in the system.



4. The fourth image shows a component with a red and black label. This component is likely a valve or sensor used in the system.













Tractor Model and Specifications

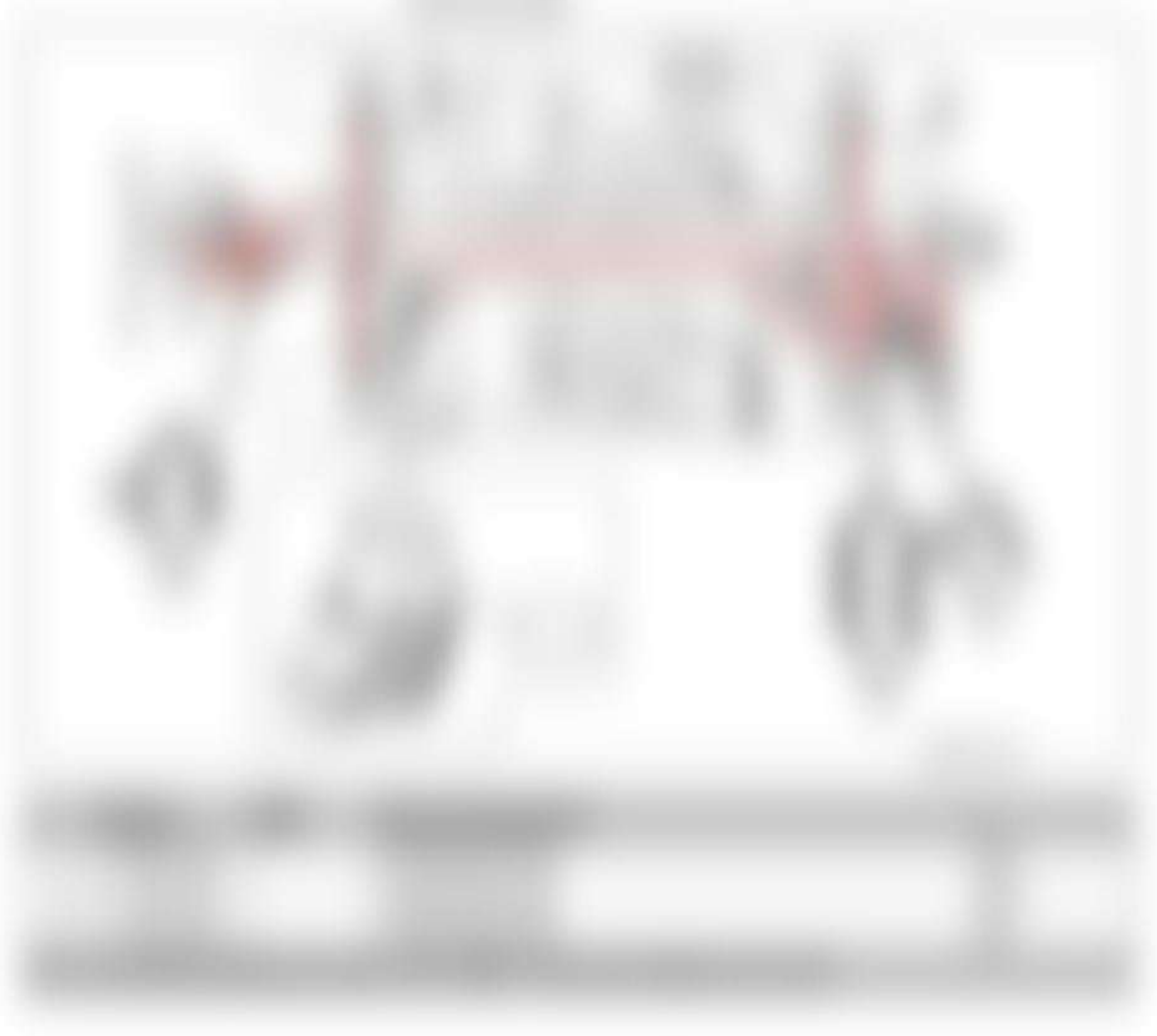


Technical specifications and details for the tractor model, including engine type, horsepower, and transmission options.











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Blurred text block, likely a title or short description.



