

MINIMAN XD OWNER'S MANUAL



SUPPORT INFORMATION

For assistance, parts, or service, please contact:

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KEEP MANUAL WITH EQUIPMENT AT ALL TIMES



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INTRODUCTION

➤ ⚠ SAFETY INFORMATION ⚠

- Before operating the Miniman XD UTV Fire Skid, read and fully understand this Owner's & Operator's Manual.
- Failure to follow the instructions, precautions, and warnings in this manual may result in equipment damage, serious injury, or death.
- Always wear proper Personal Protective Equipment (PPE) when operating the unit.
- Do not modify the unit in any way without manufacturer approval.
- Keep all operators trained and familiar with the controls and safety procedures.

OPERATION INSTRUCTIONS

➤ STARTUP PROCEDURE

- Check engine oil - confirm dipstick level is in the correct zone.
- Check gasoline level - use non-ethanol gasoline for best performance.
- Set choke.
- Turn fuel shutoff switch ON.
- Verify kill switch is in the ON position.
- Ensure the pump has water - do not run pump dry.
- Start engine using recoil pull cord.

➤ NORMAL OPERATION

- Confirm arrow on bottom 3-way valve faces the water source (either tank or auxiliary water source).
- Confirm arrow on top 3-way valve faces the tank for spraying or away from tank for discharging.
- Set small 3-way valve to recirculation position (arrow facing downwards) when not spraying (prevents overheating). Position at a 45-degree angle for spot spraying.
- To spray water: turn booster hose valve ON and operate the nozzle.

➤ DRAFTING OPERATION

- Make sure pump is filled with water.
- Connect suction hose to port on bottom 3-way valve.
- Turn bottom 3-way valve towards suction hose (away from tank).
- Turn top 3-way valve towards tank (to fill tank via manifold).
- Turn recirculation valve downwards (to allow water into tank).
- Start engine - you should hear engine pull down when drafting and feel water pumping into the tank.

➤ SHUTDOWN PROCEDURE

- Idle down engine to allow pump and engine to cool.
- Switch kill switch to OFF.

➤ ⚠ SAFETY WARNINGS ⚠

- Do not run pump dry - permanent seal damage may occur.
- Always use clean, non-ethanol gasoline.
- Never operate without PPE (gloves, eye protection, fire clothing, etc.).
- Secure skid properly in vehicle/UTV before transport.
- Drain pump and hoses before freezing conditions.



MAINTENANCE

➤ ROUTINE INSPECTIONS

Perform the following checks before each use to ensure safe and reliable operation:

- Engine Oil - Verify oil level on dipstick and top off if needed.
- Fuel Level - Use fresh, non-ethanol gasoline only.
- Pump Housing - Ensure the pump is primed and free of leaks.
- Hoses - Inspect booster hose and suction hose for cracks, abrasions, or leaks.
- Nozzle & Valves - Check for smooth operation and free movement.
- Frame & Tank - Inspect mounting points, tie-downs, and tank bands for security.
- Sight Tube & Float - Confirm tank water level is visible and float is functioning properly.

➤ SERVICE SCHEDULE

Every 10 Hours / Daily

- Check engine oil and top off as needed.
- Check air filter.
- Inspect all hoses, fittings, and nozzles.
- Flush pump with clean water after using foam, herbicides, or chemicals.

Every 25 Hours / Monthly

- Change engine oil (.2 quarts, SAE 10W-30).
- Clean/blow out air filter.
- Inspect spark plug and clean or replace if necessary.

Every 100 Hours / Seasonally

- Replace spark plug.
- Inspect and replace pump seals if leaking.
- Tighten all bolts, clamps, and fittings.
- Recoat any chipped paint areas to prevent rust.

➤ STORAGE & WINTERIZATION

If storing for extended periods or in freezing conditions:

- Drain water out of tank and manifold via pumping the water out of tank (tilting skid towards rear or park at an angle to get more water out of the tank).
- Drain pump and manifold via drain plug on bottom of pump casing.
- Drain hoses (unrolling and opening nozzle) completely to prevent freeze damage.
- Fill the pump and manifold with RV antifreeze for freeze protection.
- Always treat gasoline or run engine until it stops from lack of gas before storing.
- Store skid in a dry, covered area (preferably under a tarp or protective cover).

➤ ⚠ SAFETY NOTES ⚠

- Never run the pump without water - this will cause rapid damage to seals.
- Always perform maintenance with engine off and spark plug wire disconnected.
- Dispose of oil, fuel, and filters according to local environmental regulations.
- Use appropriate PPE (gloves & eye protection) when handling fuel or chemicals.



CAPACITIES

► FLUID CAPACITIES

- The Miniman XD UTV Fire Skid requires proper fluids to ensure safe and reliable operation. Always use the recommended fuel and oil types listed below.

SYSTEM	CAPACITY	TYPE / NOTES
Engine Oil	0.20 qt (0.20 L)	SAE 10W-30, 4-stroke engine oil. Synthetic or conventional oil. Check dipstick before each use.
Engine Fuel Tank	0.20 gal (0.75 L)	Unleaded gasoline, 87+ octane. Non-ethanol fuel recommended.
Auxiliary Fuel Can	1.0 gal (3.8 L)	1-gallon auxiliary gas can. Store securely during operation.
Pump Priming Water	Fill pump housing	Ensure pump casing is full before operation to prevent damage.
Water Tank	50 gal (189 L)/100 gal (379 L)	Polyethylene tank with sight tube and float.

DIMENSIONS & WEIGHTS

► DIMENSIONS & WEIGHTS

- The Miniman XD UTV Fire Skid is available in 50-gallon (50XD) and 100-gallon (100XD) tank configurations. Dimensions and weights may vary slightly depending on accessories.

MODEL	DIMENSIONS (L × W × H)	DRY WEIGHT	WET WEIGHT
50XD	35" × 50" × 25"	~200 lbs	~620 lbs
100XD	43" × 50" × 31"	~220 lbs	~1,050 lbs



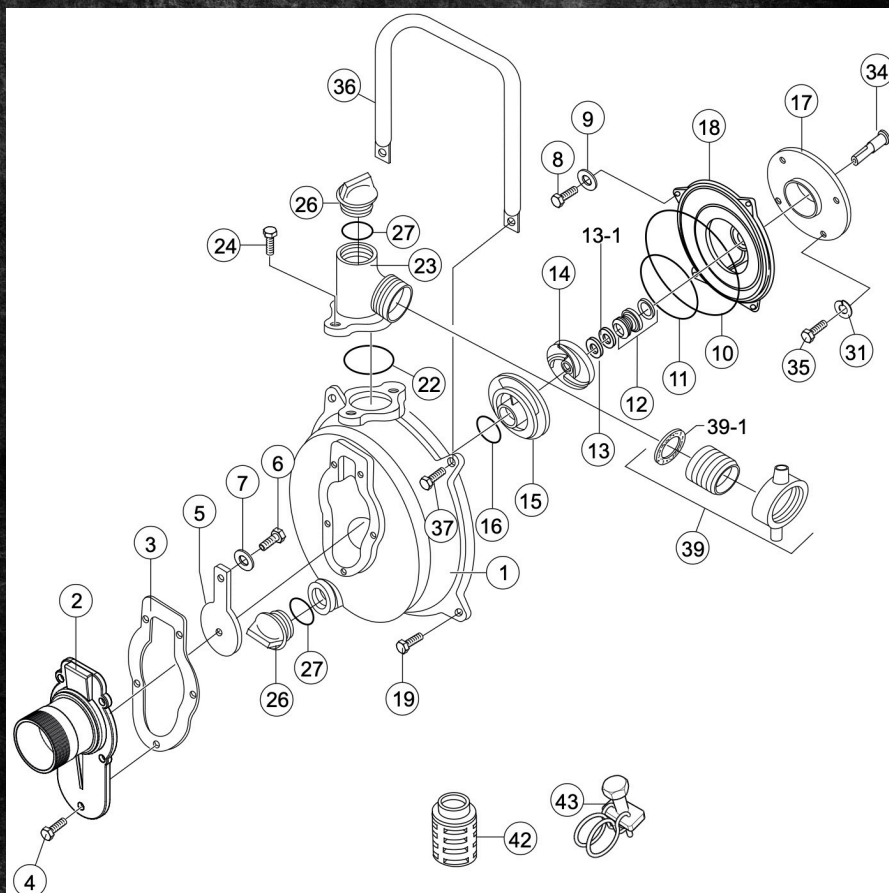
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
● Engine will not start	- Empty fuel tank - Kill switch in OFF position - Choke not set - Spark plug fouled or disconnected - Low oil shutdown triggered	- Refill with fresh non-ethanol fuel - Verify kill switch is ON - Set choke for cold start - Inspect/clean spark plug and reconnect wire - Check oil level and add if necessary
● Engine starts but stalls	- Dirty air filter - Fuel contaminated or old - Carburetor clogged	- Clean or replace air filter - Drain and replace with fresh fuel - Clean carburetor or seek service
● Engine runs rough or misfires	- Stale or contaminated fuel - Clogged fuel filter or carburetor jet - Bad or misgapped spark plug	- Drain and refill with fresh, non-ethanol fuel - Clean or replace fuel filter/carburetor jet - Clean, re-gap, or replace spark plug
● Excessive engine vibration	- Loose mounting bolts - Engine contacting frame - Damaged engine mounts	- Tighten all mounting bolts - Inspect and adjust engine position - Replace damaged mounts
● Low water pressure	- Nozzle partially blocked - Hose kinked or leaking - Pump impeller worn/damaged - Air in suction line	- Inspect/clean nozzle - Straighten or replace hose - Inspect/replace impeller or seals - Re-prime pump and tighten suction fittings
● Pump overheats	- Running pump without water - Recirculation valve closed during use - Excessive run time without spraying	- Ensure pump is primed with water - Open recirculation valve when not spraying - Allow cool-down cycles
● Pump will not prime or no water flow	- Pump ran dry - Air leak in suction line - Suction hose strainer clogged - Valves not aligned properly	- Fill pump with water before starting - Tighten suction fittings - Clean suction strainer - Verify valve positions per "Normal Operation"
● Water leaks around fittings	- Loose clamps or fittings - Worn gasket	- Tighten clamps/fittings - Replace gasket



PUMP DIAGRAM BREAKDOWN

MULTIQUIP QP15-HP PUMP DIAGRAM



NO.	PART NO.	PART NAME	QTY.	REMARKS
1	1714100010	CASING	1	
2	1749100160	SUCTION COVER	1	
3	1714330370	SUCTION COVER PACKING	1	
4	0141050512	SCREW	5	
5	1701350350	CHECK VALVE	1	
6	0141090510	SCREW	1	
7	0401450050	WASHER	1	
8	0105050620	BOLT	4	
9	0458220060	SEAL WASHER	4	
10	0489311810	O-RING	1	
11	0489241380	O-RING	1	
12	0806112515	MECHANICAL SEAL	1	
13	0852831812	ADJUST LINER	1	
13-1	0852851812	ADJUST LINER	1	
14	1129100030	IMPELLER	1	
15	1714100130	VOLUTE CASING	1	
16	0482200380	O-RING	1	
17	1129060600	CASING COVER SET PLATE	1	
18	1714100021	CASING COVER	1	
19	0181051025	BOLT SET WITH LOCK WASHER	2	
22	0480350440	O-RING	1	
23	1749100090	DELIVERY ELBOW	1	
24	0181050820	BOLT SET WITH LOCK WASHER	2	
26	0631211060	FLOODING/DRAIN CAP	2	
27	0481310250	FLOODING/DRAIN CAP O-RING	2	
31	0451250060	LOCK WASHER	4	
34	1129221010	PUMP SHAFT	1	
35	0141050620	SCREW	4	
36	17462070100014	HANDLE	1	
37	0181051030	BOLT SET WITH LOCK WASHER	2	
39	0741158040	HOSE COUPLING SET	2	INCLUDES ITEM W/#
39-1#	0744310401	HOSE COUPLING PACKING	2	
42	0742214040	STRAINER	1	
43	0932251120	WIRE HOSE BAND	3	

WARRANTY & SUPPORT

➤ WARRANTY

- All Minute Manufacturing L.L.C. products are covered by a standard 1-year bumper-to-bumper parts warranty against manufacturer defects, starting from the date of product receipt. If you encounter any issues, please contact us for assistance. We will work with you to resolve the problem. If the issue cannot be resolved and a manufacturing defect is identified, we will facilitate the necessary repairs or replacements. This process may include sending replacement parts, offering repair guidance, or other support. Depending on the issue or parts required, defective items may need to be returned to us at our expense. This warranty does not cover normal wear and consumable items (hoses, nozzles, gaskets, seals), misuse, neglect, or damage resulting from improper installation or operation.

➤ SUPPORT INFORMATION

- For assistance, parts, or service, please contact:

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SERIAL NUMBER:

DATE PURCHASED:



*Minute
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L.L.C.

PREVENT. PROTECT. PRESERVE.

