

M-Series Self-Propelled Windrower A/C HIGH PRESSURE SWITCH INSTALLATION INSTRUCTIONS

The A/C High Pressure Switch kit (MD #183180) is intended for all M-Series Self-Propelled Windrowers, model year 2012 and earlier.

This instruction assumes that you are replacing the A/C high pressure switch because of poor air conditioning performance, and that the 134A charge is low. If so, refrigerant will have to be reclaimed, and in addition to the A/C High Pressure Switch kit, a new receiver drier (MD# 112082) should be installed.

Kit installation must be performed by a qualified R134a technician.



CAUTION

Refrigerant R134a must be handled with care to avoid danger. Only authorized personnel can work on air conditioning systems; check local codes and regulations. Liquid refrigerant can cause frostbite if allowed to contact the skin or blindness if allowed to contact the eyes. Eye protection should be worn at all times when servicing an air conditioning system.

Do not discharge refrigerant into the atmosphere and particularly not into an enclosed area. Vapors may concentrate near the floor or low spots and displace the oxygen available for breathing, causing suffocation.

Do not handle damp refrigerant containers with bare hands while charging system since frost will form on the container, which could cause the hand to be frozen to the container. Gloves should be worn when handling containers or connecting or disconnecting service gauge hoses from the refrigerant source or the air conditioning system.

Do not heat refrigerant containers above 50° C (125° F) or place close to an open flame since pressure build-up beyond this temperature is extremely dangerous. Store refrigerant containers in a cool place away from fire risk and sources of direct heat.

Handle containers very carefully, dropping these can damage containers and valves.

Parts List

This kit includes the following parts:

Part Number	Description	Quantity
183199	SWITCH – A/C HIGH PRESSURE	1
183179	DECAL – INSTRUCTION	1

The switch will improve performance in higher ambient temperatures, and the decal will provide anyone servicing the windrower in the future with correct charge capacity information.

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Preinstallation Instructions

Before installing the A/C High Pressure Switch kit and new receiver drier, follow these steps:

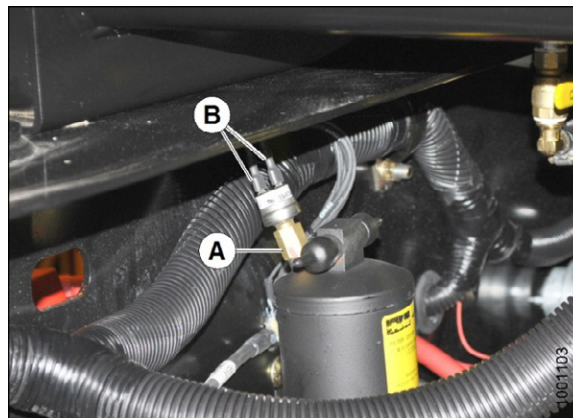
1. Park windrower on level ground. Shut down engine and remove key from ignition.
2. Open engine hood.
For instructions, see the windrower operator's manual or technical manual.
3. Attach manifold gauge set and check system static pressure. If system static pressure is above 45 psi (310 Kpa).you likely have a minor leak and below 45 you have a major leak. Follow industry standards for leak detection and use goggles and light to detect leak location(s). Florescent dye has been added to 2009 and newer machines to aid in leak detection.
4. Prepare to recover and evacuate any existing refrigerant (see windrower technical manual for instructions). Repair any leaks before installing new switch and receiver drier.

Installation Instructions

IMPORTANT: Keep all inlets and outlets of air conditioning components capped until immediately before assembly of connections. Special care should be used in keeping the caps on the receiver drier until immediately before reconnecting because of its moisture absorbing characteristics.

To install the A/C High Pressure Switch kit and new receiver drier, follow these steps:

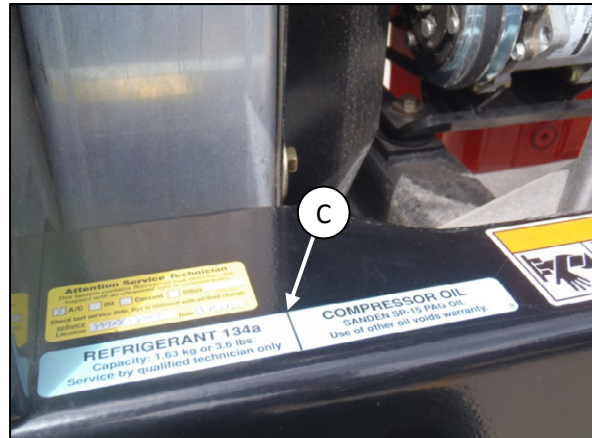
1. After any leaks are repaired, and prior to charging the system, locate the existing high pressure A/C switch (A). It is located on top of the receiver drier on the right-hand frame rail, behind the back of the fuse panel.
2. Disconnect the two wires (B) going to the terminals on the existing high pressure switch. Remove old receiver drier.
3. Prior to reconnecting A/C lines at receiver drier, install new high pressure (370 psi nominal) switch from kit. Torque to 11–13 lb-ft (15–17 Nm), and then reconnect the wires to the switch.



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4. Locate the air conditioner compressor, and look for the information decal (C). Clean or remove existing decal and replace with new decal from kit.

NOTE: The decal provides updated charge capacity information. All M-Series Self-Propelled Windrowers are capable of running with the new system charge after the new switch is installed.



5. When adding a new receiver drier to the system, add 2 fl.oz. (60 cc) of Pag-15 refrigerant oil directly to compressor fill port. If any other components were changed, additional oil may be required. Florescent dye may be added to oil in compressor to aid in leak detection (see windrower technical manual for type and recommendation).



CAUTION

Never connect the vacuum pump to a system with a static pressure of more than 10 psi; discharge the system as described on previous page.

6. Start the evacuation and carefully observe the vacuum scale on the low pressure gauge. If 710 mm (28 inches) of Hg vacuum cannot be obtained in less than 5 minutes, a severe leak exists.
7. Continue evacuation until the micron gauge (if used) indicates a moisture level of 700 microns or less and/or evacuate for an additional 30 minutes minimum assuming 5 CFM pump capacity. If your system has no moisture level indicating, evacuate system for minimum 1/2 hour to 1 hour for best results. Hold vacuum for 10 min.
8. Charge system with 5 lbs (2.27 kg) of 134A.

IMPORTANT NEW SERVICE INFORMATION

New high pressure (370 psi nominal) switch

Opens at 370 ± 10 PSI on rising pressure
(Opens at 2480–2620 Kpa on rising pressure)

Closes at 250 ± 30 PSI on falling pressure
(Closes at 1520–1930 Kpa on falling pressure)

Refer to the M155 Technical Manual (MD #169457) for the latest A/C troubleshooting and information and new Pressure vs. Ambient Temperature Chart for the M150, M155, M200, and M205.

Refer to the M105 Technical Manual (MD #169681) for the latest A/C troubleshooting and information and new Pressure vs. Ambient Temp Chart for the M100 and M105.

New refrigerant capacity for all models after new switch is installed is 5 lbs (2.27 kg) of 134A.