

BLOWER SWITCHES

| PICTURE | PART NO. | POSITION | CONTROL | TERMINALS | SPECIFICATIONS |
|---|----------|----------|---------|-----------|---|
|  | 03015 | 3 POS. | Toggle | 3 | SPDT ON-OFF-ON |
|  | 71R0200 | 3 POS. | Toggle | 6 | DPDT ON-OFF-ON |
|  | 71R1150 | 4 POS. | Rotary | 5 | OFF-LO-MED-HIGH 12 or 24 volt for 3 speed motor |
|  | 71R1210* | 4 POS. | Rotary | 3 | OFF-LO-MED-HIGH 12 volt for single speed motor |
| | 04446* | 4 POS. | Rotary | 3 | OFF-LO-MED-HIGH 24 volt for single speed motor |
|  | 04447 | 3 POS. | Rotary | 5 | OFF-LO-MED-HIGH |
|  | 04448 | 4 POS. | Rotary | 6 | OFF-LO-MED-HIGH |
|  | 04449 | 4 POS. | Lever | 5 | OFF-LO-MED-HIGH - Mounting Holes 1" C to C |
|  | 04450 | 4 POS. | Rotary | 5 | OFF-LO-MED-HIGH |

*** Resistor Type Switches for Single Speed Motors Must Be Mounted In Airstream**

BLOWER SWITCHES








| PICTURE | PART NO. | POSITION | CONTROL | TERMINALS | SPECIFICATIONS |
|---|----------|----------|------------|-----------|--|
|  | 04451 | 4 POS. | Rotary | 5 | OFF-LO-MED-HIGH Long Shaft Ford Tractor |
|  | 04452 | | Rotary | 7 | 3 Speed Blower Switch |
|  | 04453 | | Rotary | | 3 Speed Blower Switch Hesston Tractors |
|  | 04455 | 4 POS. | Rotary | 5 | -- |
|  | 04456 | -- | Pushbutton | -- | A/C ON-OFF |
|  | 04457 | 4 POS. | Rotary | 5 | OFF-LO-MED-HIGH |
|  | 04458 | 4 POS. | Rotary | 5 | -- |
|  | 04459 | 4 POS. | Rotary | 4 | -- |
|  | 04460 | -- | Rotary | 6 | -- |

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BLOWER SWITCHES

| PICTURE | PART NO. | POSITION | CONTROL | TERMINALS | SPECIFICATIONS |
|---|----------|----------|---------|-----------|---|
|  | 04461 | | Micro | | John Deere Heat and A/C Micro Switch |
|  | 04462 | 4 POS. | Rotary | 5 | -- |
|  | 71R0460 | 4 POS. | Lever | 5 | -- |
|  | 04464 | VARIABLE | Rotary | 6 | 4 SPEED |
|  | 04465 | -- | Rotary | 7 | 3 SPEED |
|  | 04466 | | Rotary | 7 | 3 SPEED - CASE/IH |
|  | 04467 | | | | Blower Switch Touch Pad with Adhesive Back |
|  | 04468 | | | | Blower Switch Control Module Solid State works with 04467 touch pad |

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| BLOWER SWITCHES | | | | | |
|---|----------|----------|---------|-----------|---|
| PICTURE | PART NO. | POSITION | CONTROL | TERMINALS | SPECIFICATIONS |
|  | 04469 | | Rotary | 5 | 3 SPEED, 1 1/2" Square Body - CASE/IH |
|  | 04470 | -- | -- | -- | A/C ON OFF SWITCH |
|  | 62365-G1 | 3 POS. | Rotary | 2 | OFF-LO-HIGH 24 volt for single speed motor |
|  | 73242 | 2 POS. | Toggle | 2 | ON-OFF 50 Amps at 6/12/24 VDC |
|  | 04474 | -- | -- | -- | Masey Ferguson Rocker Switch - Blower Control |
|  | 71R0400 | -- | -- | 4 | ON-ON-ON Chrome Toggle Switch |
|  | MS10825 | -- | -- | -- | Case/IH Micro Switch |

* Resistor Type Switches for Single Speed Motors Must Be Mounted In Airstream

KNOBS, CIRCUIT BREAKERS, ETC.

35750 Fuseholder
Universal In-Line to 30 Amp



04454 Jamb Nut
Hex, 7/16" x 28 UNF threads
for retaining switches and
thermostats in control panel

SHORT SHANK

LONG SHANK

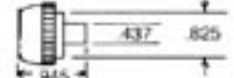
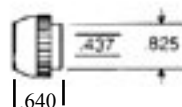


52240



52314

52315



Circuit Breakers

25110 12 or 24 V 20 Amp
25168 12 or 24 V 30 Amp
25175 12 or 24 V 40 Amp
72225 12 or 24 V 15 Amp
75155 12 or 24 V 50 Amp

Wiring Harness



04227 2 Wire Pressure Switch with 8" Leads



04228 John Deere Compressor Conversion Wire Harness



04229 Bosch Relay Wiring Harness



04230 Blower Switch Update Kit. Replaces early switch resistor. Used on Case IH 70 & 90 Series



04239 Coil Wire Adapter Harness



04240 Coil Wire Adapter Harness



04250 3 Speed Blower Switch 5 Prong Pigtail Fits Most 3 Speed Blower Switches



04471 JD 3 SPEED - Switch update kit, Replaces Tandem Style Switch, Resistors Included



04473 Cycling Switch Update Kit with High and Low Side Protection. Prevents clutch cycling in cool weather and protects system with high and low pressure switches required for R134a.



04500 Plug 3 lead wire

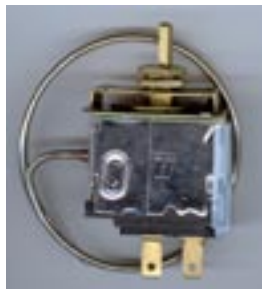


WH10090 Case/IH Wire Harness Adaptor, converts from 03242 resistor to late style 03241 resistor. Allows for the use of 03241 Blower Motor Resistor on all Serial No. Magnum Tractors.

Resistors and Relays

| | | | |
|---|---|--|--|
|  <p>03240 12 V Resistor 3 Speed Mounting Plate 9/16" x 2 3/8"</p> |  <p>03241 Blower Motor Resistor</p> |  <p>03242 Case Blower Speed Resistor, 3 Terminal</p> |  <p>03243 Blower Speed Resistor 3 Terminal, Length 2.575" Width 1.250"</p> |
|  <p>03244 Blower Speed Resistor 4 Terminal, Length 2.270" Width 1.475"</p> |  <p>03245 Blower Speed Resistor 3 Terminal, Length 3"</p> |  <p>03246 Case Blower Speed Resistor, 4 Terminal</p> |  <p>03247 John Deere Blower Speed Resistor, 3 Terminal</p> |
|  <p>03248 Blower Motor Resistor Ford/New Holland</p> |  <p>03249 Case/IH Blower Speed Resistor, 3 Terminal</p> |  <p>03250 Blower Speed Resistor 3 Terminal</p> |  <p>03251 Agco/Allis Blower Motor Resistor</p> |
|  <p>03252 Case-NH Blower Motor Resistor</p> |  <p>03253 03252 Agco/Allis Blower Speed Resistor</p> |  <p>03254 International/Navistar Blower Speed Resistor 4 Terminal</p> |  <p>03255 FNH Construction Blower Speed Resistor Assembly 3 Spade Connector L 3" H 2" W 2"</p> |
|  <p>550-216 - 12 Volt 550-219 - 12 Volt Cutout Relay</p> |  <p>550-220 12V, 5 Terminal with Resistor, Single Pole-Double Throw, 40 amp</p> |  <p>64963-G1 - 12 Volt Resistor 2 Speed</p> |  <p>71R1450 Resistor for 3 Speed Fan</p> |
|  <p>71R1457 - 12 volt 65435-G1 - 24 volt Resistor for 700 BX Blower Mounting Plate 1 1/4" x 3"</p> |  <p>71R1702 - 12 Volt Relay 71R1704 - 24 Volt Relay</p> |  <p>71R1902 - 12 Volt Relay 71R1904 - 24 Volt Relay 71R1914 - 24 Volt Relay w/diode</p> | |

THERMOSTATS



71R2100 - 18"
71R2250 - 36"
71R2300 - 48"
71R2400 - 66"
71R2305 - 72"
26300 - 36"
26301 - 30"
26302 - 18"



71R3200 - 24"



26303 - 30"
 2 3/16" C to C
 Mounting Holes



26304 - 24"
 With Micro Switch



26306 - 24" Preset
 Thermostatic Switch
 Temp. Range 31° to 39°
 Ford Genesis Tractors



26308 - 48"
 Lever Type Adjustable
 Thermostatic Switch



26311 - 18" Preset
 Thermostatic Switch
 Temp. Range 24° to 36°



26309 - 16"
71R3100 - 24" Preset
 Thermostatic Switch.
 Temp. Range 34° to 38°



71R3150 - 16" Preset
 Thermostatic Switch.
 Temp. Range 28° to 35°



26312 Thermostat Switch
 20" Capillary Tube



26313 Preset Electronic
 Thermostatic Switch
 40 Series Ford Tractor





26314 Rotary Adjustable
 Thermostatic Switch
 20" Capillary Tube
 7/8" Thread

THERMOSTATS

| | | | |
|--|---|---|---|
|  <p>26315 Electronic Thermostatic Switch CNH Tractors</p> |  <p>26316 Preset Thermostatic Switch 22" Capillary Tube Ford/New Holland</p> |  <p>26317 Temperature Control Switch Ford/New Holland</p> |  <p>26318 Thermostatic Switch Case/IH</p> |
|  <p>26319 Rotary Adjustable Thermostatic Switch 62" Capillary Tube</p> |  <p>26320 Rotary Adjustable Thermostatic Switch 46" Capillary Tube</p> |  <p>26321 Rotary Adjustable Thermostatic Switch 37" Capillary Tube</p> | <p style="text-align: center;">NO PIC</p> <p>26322 Electronic Thermostatic Switch Massey Ferguson</p> |
|  <p>26323 Rotary Adjustable Thermostat Switch, 79" Capillary Tube</p> |  <p>26324 Electronic Thermostat Elimination Kit, Replaces OE Electronic Thermostat Part # F0NN19618AA, (AB), 82034877, and 81865558</p> |  <p>26325 JD Thermostat Switch, 21" Capillary Tube</p> |  <p>26326 Rotary Adjustable Thermostat Switch, 59" Capillary Tube</p> |

THERMOSTATS

| | | | |
|--|--|---|--|
|  <p>26327 Rotary Adjustable Thermostat Switch, 96" Capillary Tube</p> |  <p>26600 Air Temperature Sensor CNH Combines Case IH 7010, 8010 NH CX840, 860, 880</p> |  <p>26601 Air Temperature Sensor Probe CNH Combines Case IH 7010, 8010 NH CX840, 860, 880</p> |  <p>26602 Electronic Temperature Switch CNH Combines Case IH 7010, 8010 NH CX840, 860, 880</p> |
|  <p>26603 JD Lever Type Thermostatic Switch 34" Capillary Tube</p> |  <p>26604 JD Lever Type Thermostatic Switch 26" Capillary Tube</p> |  <p>26605 JD Lever Type Thermostatic Switch 36" Capillary Tube</p> |  <p>26606 Air Sensor Temperature Probe CNH Tractor</p> |
|  <p>26607 Thermostatic Switch - 60" Capillary Tube</p> |  <p>26608 Potentiometer/ Temperatur Control Switch, 10,000 Ohm Potentiometer with Internal Variable Resistor</p> |  <p>26609 Preset Thermostatic Switch, 24" Capillary Tube Ford/New Holland Skidsteers</p> |  <p>26610 Preset Thermostatic, 22" Capillary Tube</p> |
|  <p>1343 Lever Type Adjustable Thermostatic Switch, 32" Capillary Tube, Mounting Hole Spacing 2 1/8", Temp. Range 25-75 ° Type: Variable Clutch Cycle Range 5°</p> |  <p>71R2600 Lever Type Adjustable Thermostatic Switch, 18" Capillary Tube, Mounting Hole Spacing 2 3/16" Temp. Range 26-66° Type: Variable Clutch Cycle Range 8°</p> |  <p>26700 John Deere Thermostat Switch Kit. Prevents Evaporator Freeze Up in Early 9400, 9500, 9600 Combines</p> | |

PRESSURE SWITCHES

SW-9061
SW-9064
SW-9065
26521



71R6060
71R6070
26501
SW-9059



26502
26504
26505



26503



26508
26509
26523
26524



26510
26514
26528
26529



26511
26515
26517
26518



26512



26513



26519



26520
26535



26522



26526
26527



26530
26531



26532



26533
26534

| Open | Close | Thread | Part No. |
|-----------------------------------|-------|--------|----------|
| Low Pressure Normally Open | | | |
| 3 | 18 | Metric | 26530 |
| 4 | 35 | Std | 26539 |
| 5 | 18 | Metric | 26520 |
| 6 | 31 | Std | 26515 |
| 6 | 34 | Std | SW-9061 |
| 6 | 45 | Std | 26513 |
| 7 | 20 | Metric | 26531 |
| 7 | 25 | Std | 26521 |
| 9 | 28 | Std | 26532 |
| 11 | 18 | Std | 26522 |
| 11 | 42 | Std | 71R6060 |
| 14 | 35 | Std | 26517 |
| 15 | 35 | Std | 71R6040 |
| 22 | 40 | Metric | 26527 |
| 22 | 40 | Std | 26526 |
| 23 | 50 | Std | 26510 |
| 26 | 46 | Std | 26508 |
| 28 | 50 | Std | 26529 |
| 29 | 35 | Std | 26511 |
| 29 | 35 | Std | 26534 |
| 30 | 34 | Std | 26533 |
| 30 | 60 | Std | SW-9064 |
| 32 | 42 | Metric | 26536 |
| 32 | 40 | Std | 26538 |

| Open | Close | Thread | Part No. |
|--------------------------------------|-------|--------|----------|
| 40 | 53 | Std | SW-9065 |
| Low Pressure Normally Closed | | | |
| 15 | 6 | Std | 26503 |
| 15 | 6 | Metric | 26505 |
| 20 | 8 | Std | 26514 |
| 23 | 7 | Metric | 26502 |
| High Pressure Normally Closed | | | |
| 240 | 390 | Std | 26519 |
| 275 | 330 | Metric | 26512 |
| 340 | 210 | Std | 71R6070 |
| 350 | 225 | Std | 26518 |
| 350 | 220 | Std | 26537 |
| 375 | 225 | Std | 26524 |
| 375 | 225 | Std | 26528 |
| 375 | 250 | Std | 26523 |
| 395 | 192 | Std | 26509 |
| 400 | 280 | Std | 26540 |
| 400 | 300 | Std | SW-9059 |
| High Pressure Normally Open | | | |
| 300 | 395 | Std | 26501 |
| 305 | 400 | Std | 26504 |
| 350 | 260 | Std | 26535 |



26536



26537



26538



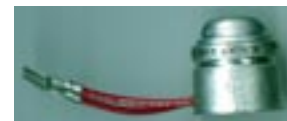
26539
26540



71R6050 Low Pressure Cutoff Switch
3/8-24 UNF-2A Male Threads "O" Ring
Normally Open-closes at 27 PSIG



71R6040



71R6300 High Temperature
Safety Switch opens at 200°F
Note: Switch Clamps onto 3/8" tube

BINARY™ SWITCHES

RED DOT BINARY™ PRESSURE SWITCHES

This switch assembly performs two distinct function. The First function prevents the compressor from operating if system charge is lost or ambient temperature is too low. The second stops compressor if head pressure increases to unsafe levels, it automatically resets when pressure drops back to normal. Install Binary™ on liquid side of A/C system between condenser and expansion valve, for use with R-12 and R-134a.

| | OPENS | CLOSES | ELECTRICAL |
|--------------------------|--------------------------------------|--|--|
| Low Pressure Protection | 30 - 15 PSIG (Falling Pressure) | 40 PSIG Maximum (Rising Pressure) | 7 Amp Resistive 4 Amp Inductive |
| High Pressure Protection | 270 - 330 PSIG (Falling Pressure) | 80 - 120 PSIG Below (Rising Pressure) | 28 Volt D.C. Maximum 2.50 Series Male Tab Terminals |



71R7000
3/8" UNF-2A Male thread with bulkhead type seal Using a 2-012 "O" Ring



71R7050
7/16" UNF-2B Female thread for installation on Male "Schrader" type valve



26506 Deutz Bimetal Temperature Switch. Mounts on Drier Normally Closed



26507 Dual Function Switch
7/16"-20 Female Flare Thread
Normally Open
Low Pressure-Closes 28 PSI
High Pressure-Opens 395 PSI
High Pressure-Closes 300 PSI



26525
Binary Pressure Switch
7/16"-20 Female Flare Thread Normally Open
Low Pressure-Closes 25 PSI Rising Pressure
Low Pressure-Opens 28 PSI Falling Pressure
High Pressure-Opens 350 PSI Rising Pressure
High Pressure-Closes 220 PSI Falling Pressure
JD # AL168231-AL112954



26541
Binary Pressure Switch, 7/16" 20 Female Flare Thread, Normally Open - With Harness
Low Pressure-Closes 28 PSI Rising Pressure
Low Pressure-Opens 28 PSI Failing Pressure
High Pressure-Opens 350 PSI Rising Pressure
High Pressure-Closes 350 Failing Pressure



04504 R134 Binary Pressure Switch Kit, 3/16 R12 Port
04506 R134 Binary Pressure Switch Kit, 1/4" R12 Port

BINARY™ SWITCHES

| | |
|---|---|
|  | <p>04510 R134 Binary Pressure Switch Kit, 1/4" R12 Port</p> |
|  | <p>04515 A6 Compressor R134 Binary Pressure Switch Kit Switch Install In Pressure Relief Valve Port</p> |
|  | <p>04525 Drier Mount Binary Pressure Switch Kit 7/16 - 20 Female Flare Thread</p> |
|  | <p>26542 Binary Pressure Switch - 7/16" x 20 Female Flare Thread Normally Open Low Pressure-Closes 28 PSI Rising Pressure Low Pressure-Opens 28 PSI Failing Pressure High Pressure-Closes 230 PSI Failing Pressure High Pressure-Opens 380 PSI Rising Pressure</p> |
|  | <p>SW-4086 Binary Pressure Switch 3/8"-24 MAle Thread Low Pressure-Opens 28 PSI Falling Pressure Low Pressure-Closes 29 PSI Rising Pressure High Pressure-Opens 454 PSI Ring Pressure High Pressure-Closes 369 PSI Falling Pressure Used on Landini Tractors</p> |
|  | <p>71R7077 Ford/New Holland (TC, TF, and TX Combines) Hi and Low Side Switch Kit Low Pressure-Closes High Pressure-Opens High Pressure-Closes</p> |

TRINARY™ SWITCHES

RED DOT TRINARY™ PRESSURE SWITCHES - GENERATION II R-134a COMPATIBLE

This switch assembly performs three distinct functions. The first function prevents the compressor from operating if system charge is lost or ambient temperature is too low. The second stops compressor if head pressure increases to unsafe levels. It automatically resets when pressure drops back to normal. The third function is a shutter/fan override switch that keeps head pressure within normal range by opening shutters or operating engine fan to increase air flow across condenser when head pressure rises above set value.

Install Trinary on liquid side of A/C system between condenser and expansion valve. For use with R-12 and R-134a system.



71R7500



71R7550

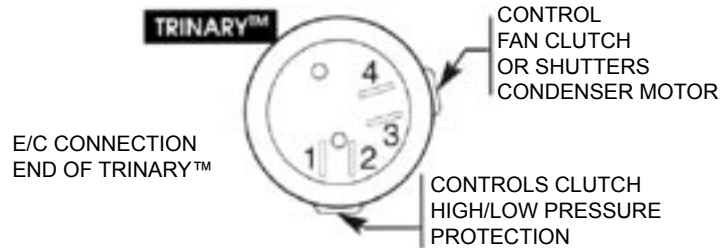


71R7600






71R7650

| | OPENS | CLOSES | | ELECTRICAL |
|--------------------------|--|--------------------------------------|-----|--|
| Low Pressure Protection | 22.5 ± 7.5 PSIG (Descending Pressure) | 40 PSIG Maximum (Rising Pressure) | | 7 Amp Resistive 4 Amp Inductive 28 Volt D.C. Maximum 2.50 Series Male Tab Terminals |
| High Pressure Protection | 325 + 25 PSIG | 230 + 20 PSIG | | |
| Shutter Fan/Override | 35-60 PSIG Below Closing Pressure | 200-230 PSIG (Rising Pressure) | | |
| Part Number | Mounting Configuration (see note) | Shutter/Fan Switch | | NOTE: A. 3/8-24 UNF-2A male thread with bulk head type seal using a 2-012 "O" Ring B. 7/16-20 UNF-2B female thread for installation on male "schrader" type valve. |
| | | N/O | N/C | |
| 71R7500 | A | X | | |
| 71R7550 | B | X | | |
| 71R7600 | A | | X | |
| 71R7650 | B | | X | |



26516 Trinary Pressure Switch - Normally Open
 Low Pressure-Opens 28
 High Pressure-Opens 390
 High Pressure-Closes 350
 For Case/IH MXU OE # 82019426

| | |
|---|--|
|  | <p>26543 Trinary Pressure Switch, Normally Open, Female Thread, Pressure Side and Fan Side Normally Open, 5 Terminal for Dual Condenser Fans Low Pressure-Closes 35 PSI High Pressure-Opens 410 PSI Rising Pressure High Pressure-Closes 340 PSI Falling Pressure Thread Size 7/16" x 20 Female Fan # 1 Override Turns Fan On at 225 PSI and Off at 175 PSI Fan # 2 Override Turns Fan On at 285 PSI and Off at 245 PSI</p> |
| <p>BINARY™ AND TRINARY™ SWITCH HARNESS</p> | |
|  | <p>71R4501 Trinary™ Boot (provides a molded 4 wire connection to trinary switch; (lead wires are 28" long.) Helps eliminate terminal corrosion and breakage. 71R4511 RED DOT BINARY™ boot (provides a molded 2 wire connection to Binary switch; (lead wires are 28" long.) helps eliminate terminal corrosion and breakage. Recommended on all Trinary & Binary vehicle applications</p> |
|  | <p>04227 2 Wire Pressure Switch Pigtail With 8" Leads</p> |

SAFETY SWITCHES



26500 GM-A6, High Pressure Switch
Mounts On Compressor



25779 Thermal Limiter Fuse
04261 Wiring Harness for 25779



25938 GM-A6 Superheat Switch
Mounts on Compressor



25939 A6
Hi Pressure Switch



25940 A6, R4
High Pressure Switch



04260 12 Volt Coil Extender



04271 John Deere A6 Low
Voltage Protection Kit



220-055 John Deere Clutch Saver
Protects Clutch From Slipping Due to Low
Voltage, Maintains Adequate Voltage to
Clutch Coil at all Times.

SWITCH Section



811 W. Rose, Walla Walla, WA 99362
Phone: (509)525-5070 Fax: (509)525-3753 1-800-541-8910
www.heco.net | E-mail: heco@bmi.net

THERMOSTATIC CLUTCH CYCLING SWITCHES

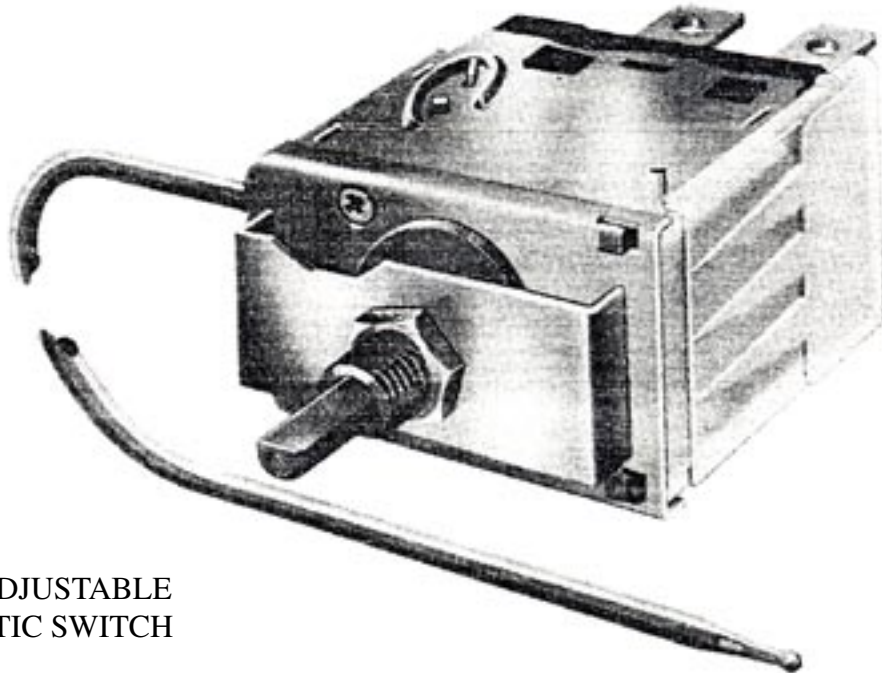
Today, automotive factory air conditioning systems are expected to operate so that engine drag and fuel consumption are minimized.

Many factory installed air conditioning systems and aftermarket units employ a thermostatic switch to cycle the compressor clutch. The thermostat senses the temperature of the evaporator coil and opens or closes a circuit to an electromagnetic clutch.

Some advantages of the thermostatic switch method of clutch cycling are:

1. The thermostatic switch senses and responds to the actual temperature of the evaporator fins, not pressure inside the coil.
2. Since the thermostat is located in the ambient air stream, it prevents accidental operation of the compressor in very cold weather.
3. Thermostatic switch clutch cycling provides cool-down.
4. A properly operating thermostatic switch provides more economical vehicle operation because the compressor runs only when cooling is required.

There are two types of switches used for clutch cycling: fixed setting and variable setting. Fixed setting switches operate at a predetermined temperature. Adjustable setting switches are changed by means of a lever, cable, or direct dial shaft.



DIAL TYPE ADJUSTABLE
THERMOSTATIC SWITCH

Fixed setting switches cycle the clutch to keep the evaporator at a constant temperature just above freezing. Adjustable setting switches control the evaporator discharge air between 30° F and 65° F.

SYSTEM TROUBLESHOOTING

Locate the thermostatic switch attached to the evaporator. Notice whether it has a fixed-setting or adjustable setting.

Start the engine and turn on the air conditioning. Adjust the air-conditioner control first to maximum cooling, then to warm, then back to maximum cooling to find out whether the compressor is being cycled correctly. Check for the following.

- a. Compressor does not run at all. See Step I.
- b. Compressor does not shut off (runs constantly) See Step II.
- c. Compressor quick-cycles or is delayed. See Step III.

STEP I. NON-OPERATING COMPRESSOR

- a. Leave engine running and the air conditioner on.
- b. Find the thermostatic switch and test to see if it is getting voltage. To do this:
 1. Connect voltmeter across wire leads to and from switch.
 2. If you get no voltage, check the electrical system between the battery and the thermostatic switch.
- c. Check compressor clutch operation
 1. Bypass the thermostatic switch with a jumper wire connected across the wire leads, from the battery and to the clutch. The clutch should engage the compressor.
 2. You should hear a "click" as the clutch engages. If the compressor doesn't engage, the problem may be in the electromagnetic clutch or the wire leading to it.
- d. Remove the thermostatic switch for a bench test.
 1. Turn the engine ignition switch OFF.
 2. Disconnect wire leads to the thermostatic switch.
 3. Carefully disconnect the capillary from the evaporator and remove the switch. **DO NOT KINK OR CUT CAPILLARY.**
- e. Test the switch for correct operation.
 1. Warm the capillary bellows assembly by holding them in your hands.
 2. The switch should close when the capillary is warmed above the cut-in temperature of the switch. Use an ohmmeter across the switch terminals to tell if the switch is opened or closed.
 3. Connect the ohmmeter across the switch terminals. If resistance is one ohm or greater (open switch), replace the switch.

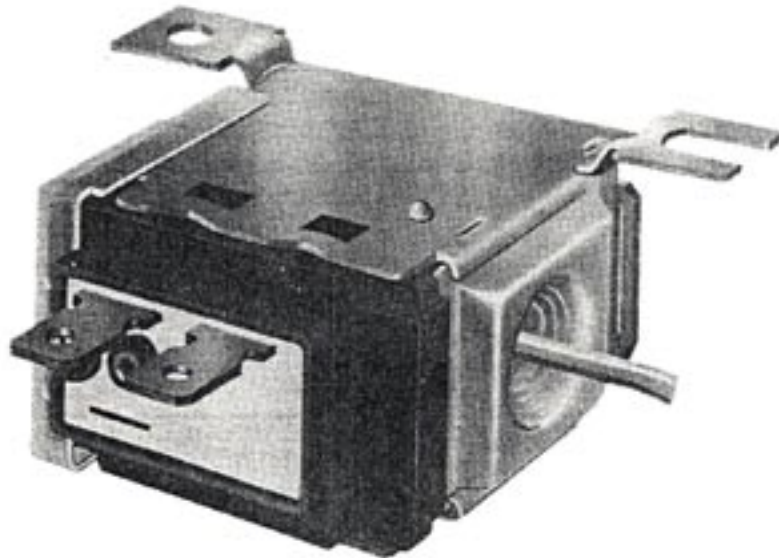
STEP II. CONSTANT-OPERATION COMPRESSOR

- a. Remove the thermostatic switch for bench test.
 1. Turn the engine ignition switch OFF.
 2. Disconnect wire leads to the thermostatic switch.
 3. Carefully disconnect the capillary from the evaporator and remove switch. **DO NOT KINK OR CUT CAPILLARY.**
- b. If the switch has a dial, bowden cable, or lever to adjust settings, put switch in the coldest position by rotating the switch cam until the cam follower is closest to the center pin of the cam.
- c. This test will tell if the thermostatic switch will shut off the compressor as required. You will need water at a temperature of 25°F.

1. Get a pan of water. Add ice and salt to the pan until the temperature is at or below 25° F on the thermometer.
 2. Place the capillary of the thermostatic switch in the pan of salt-ice-water. CAUTION: KEEP SALT OUT OF THE SWITCH HOUSING.
 3. While the capillary is in the water, use an ohmmeter to see if the switch is opened or closed. Connect the ohmmeter across the switch terminals. If resistance is less than one ohm (switch closed), replace the switch.
 4. CAUTION: BE SURE TO WASH ALL SALT WATER FROM CAPILLARY WITH CLEAR WATER AND DRY IT.
- d. Test to see if switch closes at its cut-in temperature.
1. Wait for the switch to warm up to room temperature. The switch should close when the capillary tube and bellows assembly are warmer than cut-in temperature.
 2. Connect the ohmmeter across the switch terminals. If resistance is one ohm or greater (switch open), replace the switch.

STEP III. QUICK OR DELAYED CYCLING

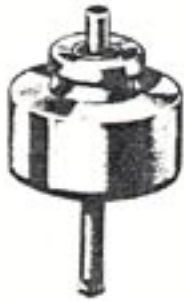
- a. A switch may "work" and yet be sufficiently out of adjustment to cause quick or delayed cycling of the compressor. This results in poor cooling performance.
- b. Loss of refrigerant in the system may cause delayed cycling of the compressor. The system should be charged to manufacturer's specifications before switch is determined to be out of adjustment.
- c. Thermostatic switches are factory calibrated and should not be field adjusted. If the switch is out of adjustment, REPLACE IT.



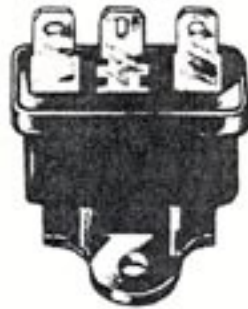
FIXED SETTING
THERMOSTATIC SWITCH

GENERAL MOTORS THERMAL FUSE SERVICE

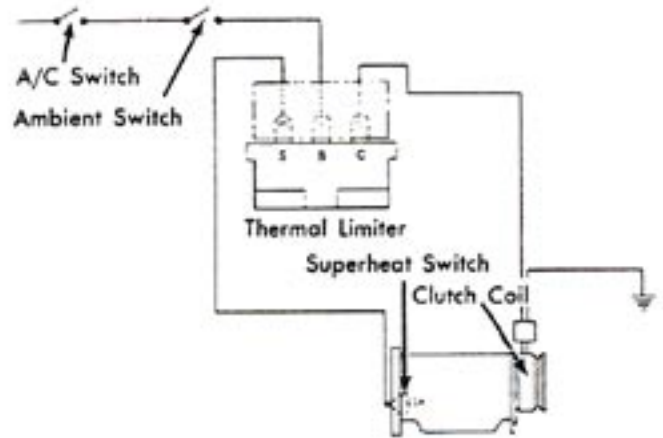
John Deere GM-A6 air conditioning systems use a thermal limiter fuse to protect the system against damage from refrigerant loss. The fuse is linked to a superheat switch at the rear of the compressor. When internal compressor pressures drop due to a loss of refrigerant (or a blockage in the refrigerant circuit that causes compressor starvation) the superheat switch contacts close heating the fuse and blowing it.



Superheat
Switch
25938



Thermal
Fuse
25779



When the thermal limiter fuse blows it will break the electrical circuit to the compressor clutch making it impossible for the system to operate. Blown thermal limiter fuses on General Motors vehicles are a common problem, especially in older cars and trucks. Do not, however, take it for granted that the failure was caused by low refrigerant or an internal blockage.

Early fuses had a very low melting point and would frequently blow as a result of high under hood temperatures. In later fuses the melting point was raised and the fuse was relocated to a relatively cool area under the hood. In some instances GM was so successful in hiding the fuse that the easiest way to find it is to follow the lead wire from the compressor to the fuse location.

In addition, blown fuses are common on vehicles in which the air conditioner has not been used for an extended period of time. In such cases the blown fuse can be traced to no refrigerant in the compressor at the time of start-up rather than a true low refrigerant condition throughout the system.

Troubleshooting Blown Fuses

Whenever a thermal fuse blows it does so for a reason. To avoid continued replacement trace the cause back to the source and correct it.

A quick way of checking to verify that the fuse has actually blown (you can't tell by looking at it) is to use a jumper wire to connect terminals "B" and "C" on the female wiring harness into which the fuse is plugged. If the air conditioner is turned on and any in-line switches (such as ambient temperature switch) are closed permitting system operation, the compressor clutch should engage. If it does, the problem lies in the fuse. If it does not, the problem lies elsewhere in the electrical circuit.

HECO SWITCH AND THERMOSTAT PRICES

Prices are Subject to change without notice

| Part No | Price | Comment | Part No | Price | Comment |
|---------|----------|------------------|---------|----------|---------|
| 03015 | \$12.00 | | 04468 | \$122.22 | |
| 03016 | \$0.00 | R/B 71R0200 | 04469 | \$30.00 | |
| 03240 | \$4.25 | | 04470 | \$70.00 | |
| 03241 | \$50.00 | | 04471 | \$75.00 | |
| 03242 | \$35.00 | | 04473 | \$80.00 | |
| 03243 | \$11.33 | | 04474 | \$65.00 | |
| 03244 | \$17.00 | | 04475 | \$27.50 | |
| 03245 | \$21.16 | | 04476 | \$25.00 | |
| 03246 | \$40.00 | | 04500 | \$1.50 | |
| 03247 | \$80.00 | | 04504 | \$44.28 | |
| 03248 | \$50.00 | | 04506 | \$44.19 | |
| 03249 | \$50.00 | | 04510 | \$35.00 | |
| 03250 | \$80.00 | | 04515 | \$28.25 | |
| 03251 | \$50.00 | | 04525 | \$35.00 | |
| 03252 | \$90.00 | | 25110 | \$7.00 | |
| 03253 | \$35.00 | | 25168 | \$7.00 | |
| 03254 | \$30.00 | | 25175 | \$7.00 | |
| 03255 | \$50.00 | | 25779 | \$5.00 | |
| 04227 | \$8.00 | | 25938 | \$25.00 | |
| 04228 | \$11.33 | | 25939 | \$40.00 | |
| 04229 | \$11.35 | | 25940 | \$46.00 | |
| 04230 | \$30.00 | | 26300 | \$25.00 | |
| 04239 | \$11.90 | | 26301 | \$35.00 | |
| 04240 | \$22.10 | | 26302 | \$61.71 | |
| 04250 | \$17.50 | | 26303 | \$55.00 | |
| 04260 | \$10.54 | | 26304 | \$117.75 | |
| 04271 | \$80.00 | | 26306 | \$150.00 | |
| 04446 | \$31.00 | | 26308 | \$45.00 | |
| 04447 | \$60.00 | | 26311 | \$45.00 | |
| 04448 | \$55.00 | | 26312 | \$75.00 | |
| 04449 | \$18.00 | | 26313 | \$227.00 | |
| 04450 | \$30.00 | | 26314 | \$160.00 | |
| 04451 | \$20.00 | | 26315 | \$45.00 | |
| 04452 | \$30.00 | | 26316 | \$55.00 | |
| 04453 | \$90.00 | | 26317 | \$55.00 | |
| 04454 | \$0.75 | | 26318 | \$90.00 | |
| 04455 | \$40.00 | | 26319 | \$70.00 | |
| 04456 | \$50.00 | | 26320 | \$80.00 | |
| 04457 | | R/B 71R115052240 | 26321 | \$45.00 | |
| 04458 | \$40.00 | | 26322 | \$72.00 | |
| 04459 | \$60.75 | | 26323 | \$60.00 | |
| 04460 | \$55.00 | | 26324 | \$70.00 | |
| 04461 | \$25.00 | | 26325 | \$120.00 | |
| 04462 | \$65.00 | | 26326 | \$85.00 | |
| 04463 | \$0.00 | R/B 71R0460 | 26327 | \$85.00 | |
| 04464 | \$100.00 | | 26328 | \$72.00 | |
| 04465 | \$40.00 | | 26500 | \$45.00 | |
| 04466 | \$90.00 | | 26501 | \$50.00 | |
| 04467 | \$86.80 | | 26502 | \$60.00 | |

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| Part No | Price | Comment | Part No | Price | Comment |
|---------|----------|-------------|----------|----------|-------------|
| 26503 | \$40.00 | | 26609 | \$50.00 | |
| 26504 | \$60.00 | | 26610 | \$60.00 | |
| 26505 | \$55.00 | | 26700 | \$110.00 | |
| 26506 | \$70.00 | | 35750 | \$3.75 | |
| 26507 | \$25.00 | | 52240 | \$1.50 | |
| 26508 | \$53.00 | | 52241 | \$1.50 | |
| 26509 | \$45.00 | | 52314 | \$1.50 | |
| 26510 | \$55.00 | | 52315 | \$1.50 | |
| 26511 | \$50.00 | | 530-4035 | \$190.00 | |
| 26512 | \$54.00 | | 550-216 | \$19.39 | |
| 26513 | \$65.00 | | 550-219 | \$19.39 | |
| 26514 | \$60.00 | | 550-220 | \$25.00 | |
| 26515 | \$60.00 | | 62365-G1 | \$0.00 | N/A |
| 26516 | \$75.00 | | 64963-G1 | \$16.47 | |
| 26517 | \$60.00 | | 65066-G1 | \$0.00 | R/B 71R1457 |
| 26518 | \$50.00 | | 65435-G1 | \$21.75 | |
| 26519 | \$80.00 | | 71R0200 | \$12.04 | |
| 26520 | \$60.00 | | 71R0460 | \$15.07 | |
| 26521 | \$60.00 | | 71R1150 | \$7.71 | |
| 26522 | \$100.00 | | 71R1210 | \$13.00 | |
| 26523 | \$60.00 | | 71R1450 | \$4.64 | |
| 26524 | \$60.00 | | 71R1457 | \$13.72 | |
| 26525 | \$60.00 | | 71R1702 | \$11.85 | |
| 26526 | \$96.00 | | 71R1704 | \$21.26 | |
| 26527 | \$90.00 | | 71R1902 | \$14.26 | |
| 26528 | \$70.00 | | 71R1904 | \$18.50 | |
| 26529 | \$60.00 | | 71R1914 | \$20.65 | |
| 26530 | \$84.00 | | 71R2100 | \$38.09 | |
| 26531 | \$90.00 | | 71R2250 | \$26.05 | |
| 26532 | \$50.00 | | 71R2300 | \$26.07 | |
| 26533 | \$70.00 | | 71R2305 | \$36.63 | |
| 26534 | \$45.00 | | 71R2310 | \$37.32 | |
| 26535 | \$76.00 | | 71R2400 | \$34.76 | |
| 26536 | \$0.00 | R/B 71R6125 | 71R3100 | \$20.58 | |
| 26537 | \$140.00 | | 71R3150 | \$20.00 | |
| 26538 | \$140.00 | | 71R3200 | \$19.55 | |
| 26539 | \$95.00 | | 71R4501 | \$12.65 | |
| 26540 | \$90.00 | | 71R4511 | \$11.31 | |
| 26541 | \$60.00 | | 71R6050 | \$6.75 | |
| 26542 | \$90.00 | | 71R6060 | \$18.25 | |
| 26600 | \$60.00 | | 71R6070 | \$20.00 | |
| 26601 | \$90.00 | | 71R6125 | \$70.98 | |
| 26602 | \$225.00 | | 71R6300 | \$46.08 | |
| 26603 | \$120.00 | | 71R6350 | \$0.00 | R/B 25938 |
| 26604 | \$100.00 | | 71R7000 | \$37.58 | |
| 26605 | \$120.00 | | 71R7050 | \$43.67 | |
| 26606 | \$115.00 | | 71R7500 | \$40.45 | |
| 26607 | \$250.00 | | 71R7550 | \$49.23 | |
| 26608 | \$60.00 | | 71R7600 | \$49.00 | |

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| Part No | Price | Comment |
|----------|---------|-----------|
| 71R7650 | \$51.03 | |
| 72225 | \$8.00 | |
| 75145 | \$0.00 | R/B 25175 |
| 75155 | \$8.00 | |
| MS10825 | \$25.00 | |
| SW-4086P | \$15.00 | |
| SW50330 | \$0.00 | R/B 04473 |
| SW-9059 | \$30.00 | |
| SW-9061 | \$30.00 | |
| SW-9064 | \$47.50 | |
| SW-9065 | \$47.50 | |

