Hydraulic Drive Faultfinding Chart - INDEX OF SYMPTOMS

Link to Manuals

Note 1

Working with Low Side switching:

The VMAC Hydraulic Compressor employs low side switching to its three solenoids and to the fan relay. This means that it supplies +12V to the solenoid at all times, and switches in and out the ground to enable or disable the function. To test the operation of these circuits with a multimeter voltage should be measured directly across the solenoid; from pin B to pin A. The Compressor solenoid should be measured from pin 1 to pin 2.

- Measuring from pin B to pin A will show +12V when function is enabled, and 0V when function is disabled.
- Measuring from pin B to system ground will always show +12V.
- Measuring from pin A to system ground will show +12V when the function is disabled, and 0V when the function is enabled.

Note 2

Each install/owner's manual includes electrical schematics and a harness reference chart.

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Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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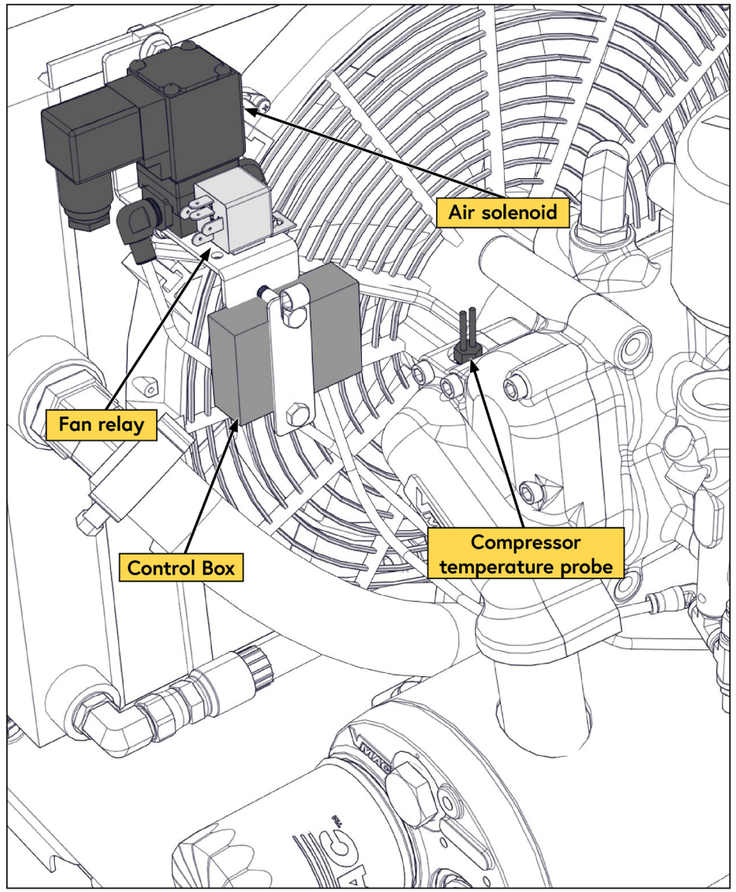
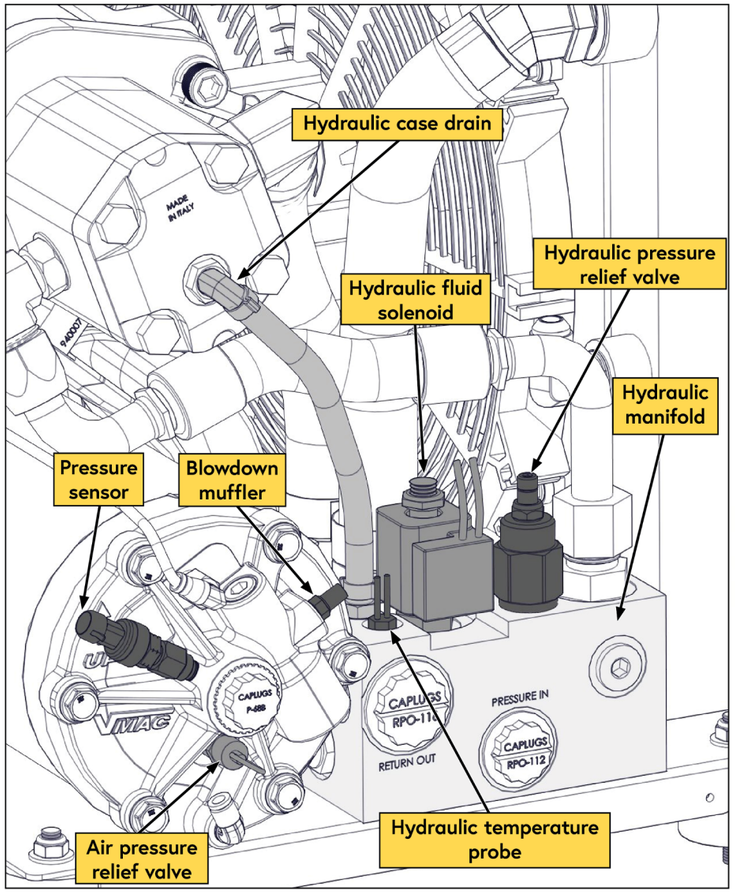
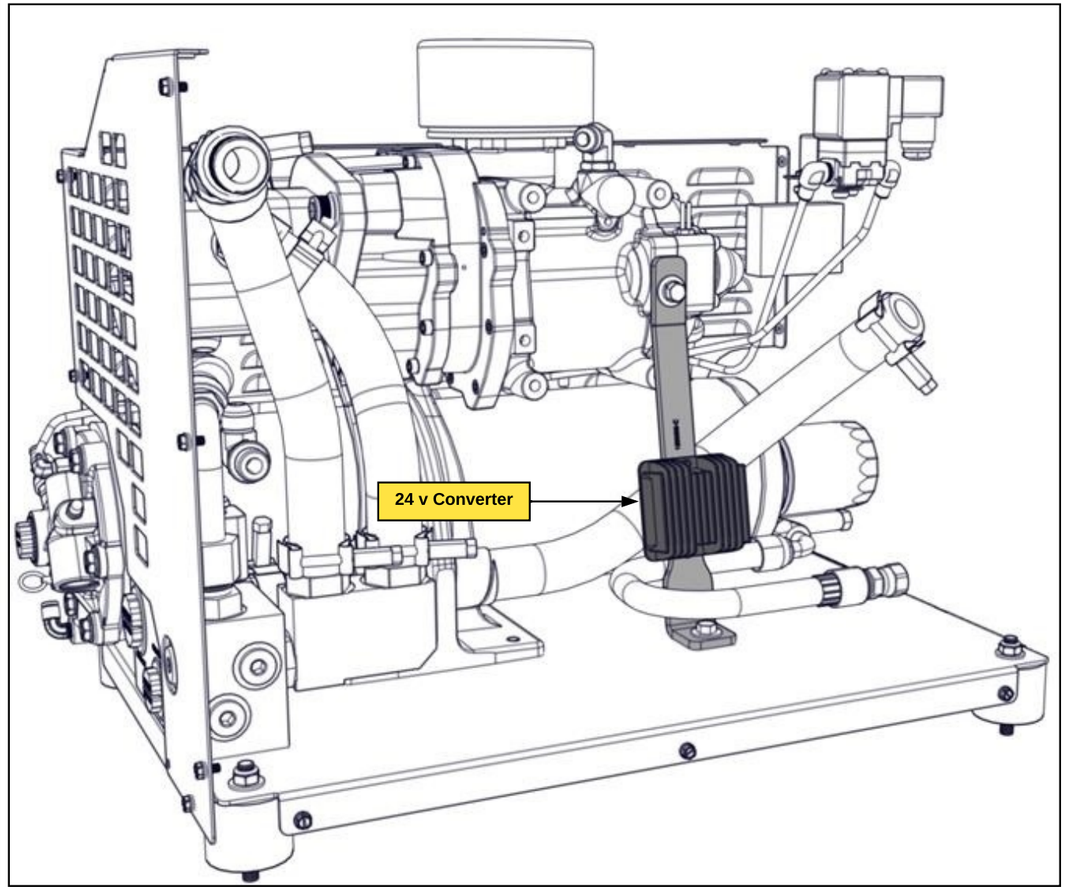
Hydraulic Drive Faultfinding Chart - HYDRAULIC DRIVE SYSTEM OVERVIEW

To Index





24 V Only



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Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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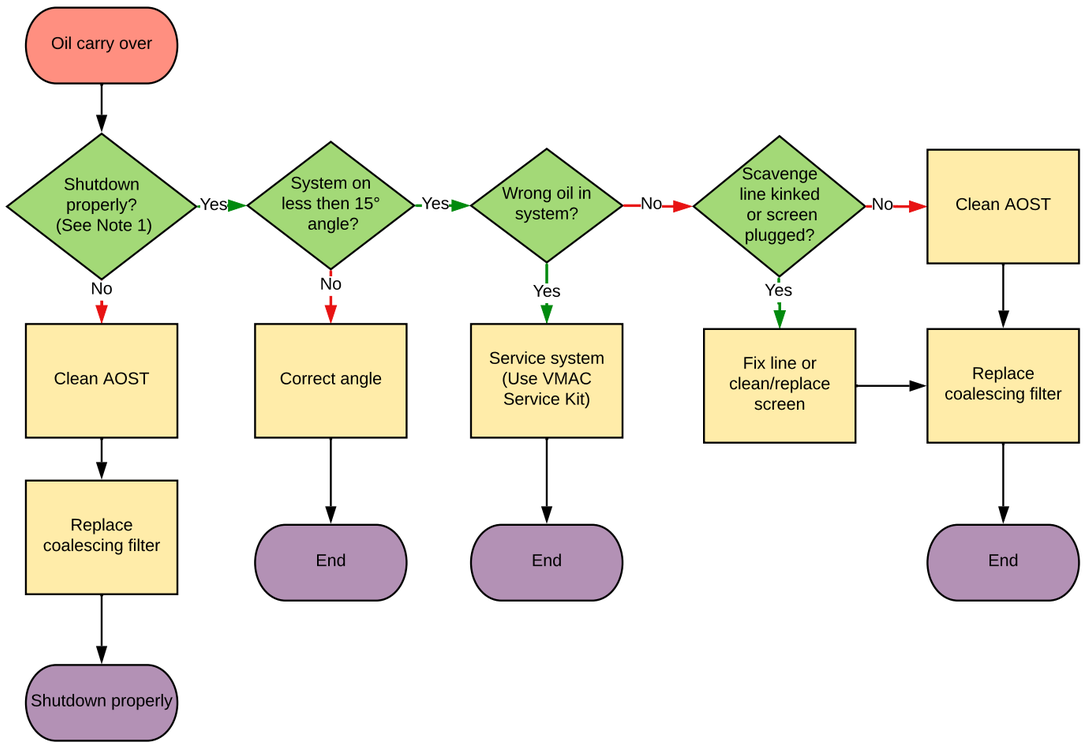
Hydraulic Drive Faultfinding Chart - OIL CARRY OVER

To Index



Note 1

When air is no longer required, allow the system to build to full system pressure (150 psi) and unload. Stop the Hydraulic Driven Air Compressor using the “OFF” button.
Any residual pressure in the compressor or AOST will blow-down automatically. Disengage the hydraulic system. If equipped, close the hydraulic shut-off valve.
Turn off the power supply to the Hydraulic Driven Air Compressor. Drain any stored air.

Note 2

Short and infrequent use of the air compressor system can lead to a compromised coalescing filter and may cause oil carry over

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Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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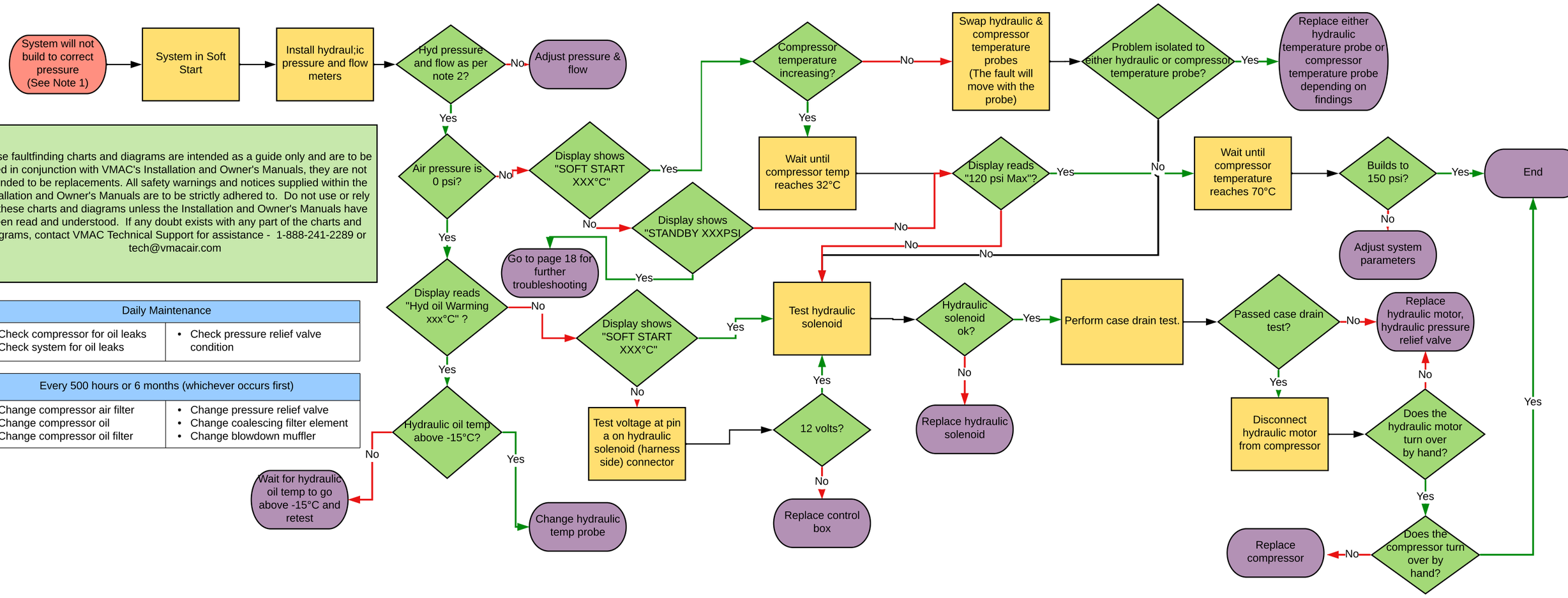
Hydraulic Drive Faultfinding Chart - SYSTEM WILL NOT BUILD TO CORRECT PRESSURE

To Index



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Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

Soft start	
The system will remain in "Soft Start" while the hydraulic fluid and compressor oil temperature are within the following parameters: • Hydraulic fluid temperature below: 41 °F (5 °C). • Compressor oil temperature below: 158 °F (70 °C).	
Compressor oil temperature below 90 °F (32 °C) *and* hydraulic fluid below 41 °F (5 °C).	Compressor will only build to 40 psi.
Compressor oil temperature below 158 °F (70 °C) *and* hydraulic fluid temperature above 41 °F (5 °C).	Compressor will only build to 120 psi.

Note 1

Pressures must be verified by installing a VMAC Test Tool to the AOST or other external pressure gauges.

Note 2

Correct Pressure and Flow to hydraulic drive compressor:

40 cfm unit: 9 - 14 gpm @ 2400 psi.
60 cfm unit: 14 - 21 gpm @ 2400 psi.
HHP Unit : 12 - 18 gpm @ 3200 psi.

Note 3

There are two temperature probes fitted in the Hydraulic Drive System, one is fitted in the VMAC air/oil stream and is referred to as the "Compressor Probe" or "Comp Probe", the other is fitted in the hydraulic manifold and measures the vehicle's hydraulic fluid temperature, it is referred to as "Hydraulic Probe" or "Hyd Probe". The probes are interchangeable and have the same VMAC Part #.

Hyd. Solenoid Test

Case Drain Test

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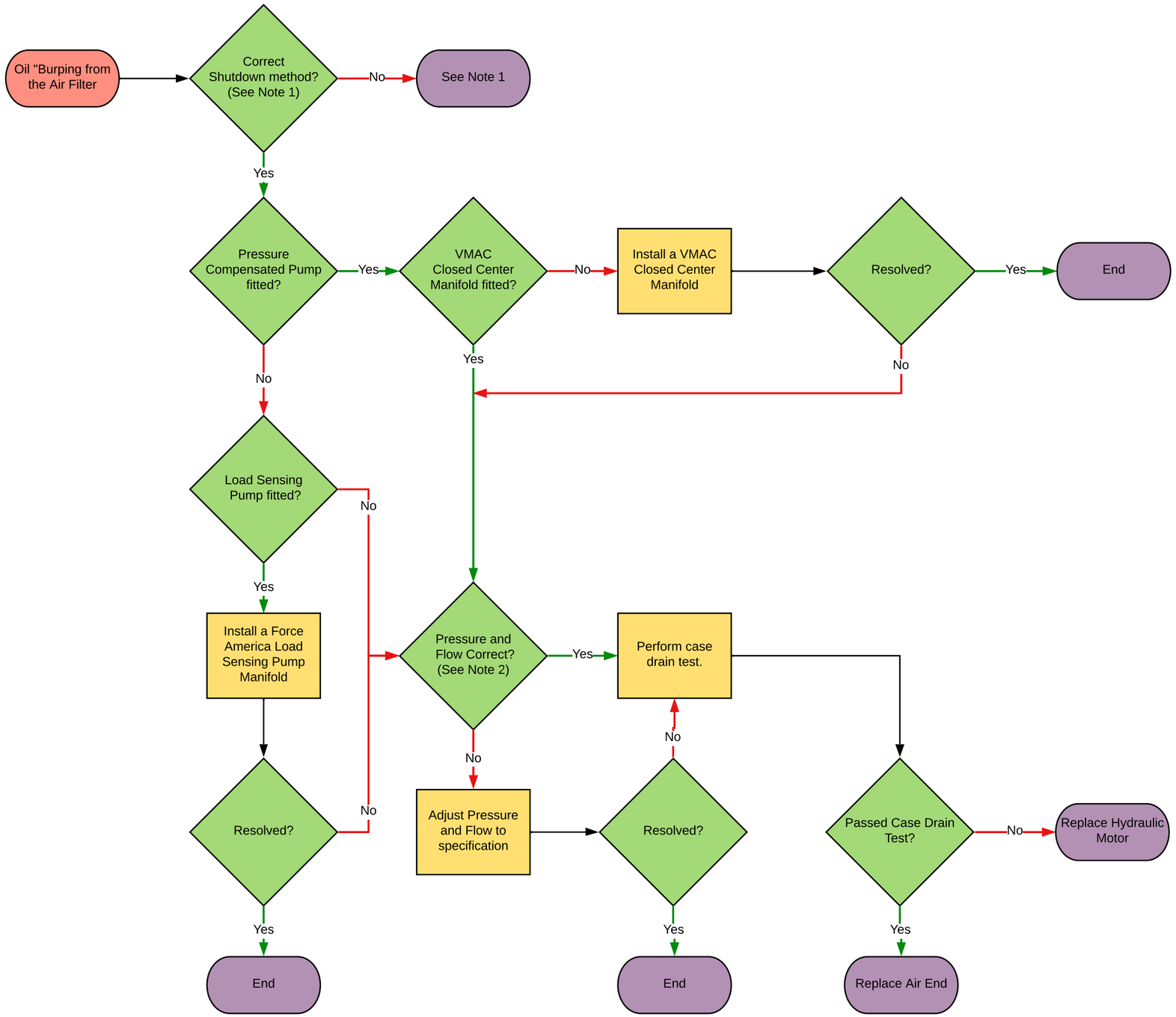
Hydraulic Drive Faultfinding Chart - OIL BURPING FROM THE AIR FILTER

To Index

Case Drain Test



Note 1

Correct Shutdown Method

1. When air is no longer required, allow the system to build to full system pressure (150 psi) and unload.
2. Stop the Hydraulic Driven Air Compressor using the “OFF” button. Any residual pressure in the compressor or AOST will blow-down automatically.
3. Disengage the hydraulic system.
4. If equipped, close the hydraulic shut-off valve.
5. Turn off the power supply to the Hydraulic Driven Air Compressor.
6. Drain any stored air.

Note 2

Correct Pressure and Flow to hydraulic drive compressor:

40 cfm unit:	9 - 14 gpm @ 2400 psi.
60 cfm unit:	14 - 21 gpm @ 2400 psi.
HHP Unit :	12 - 18 gpm @ 3200 psi.

Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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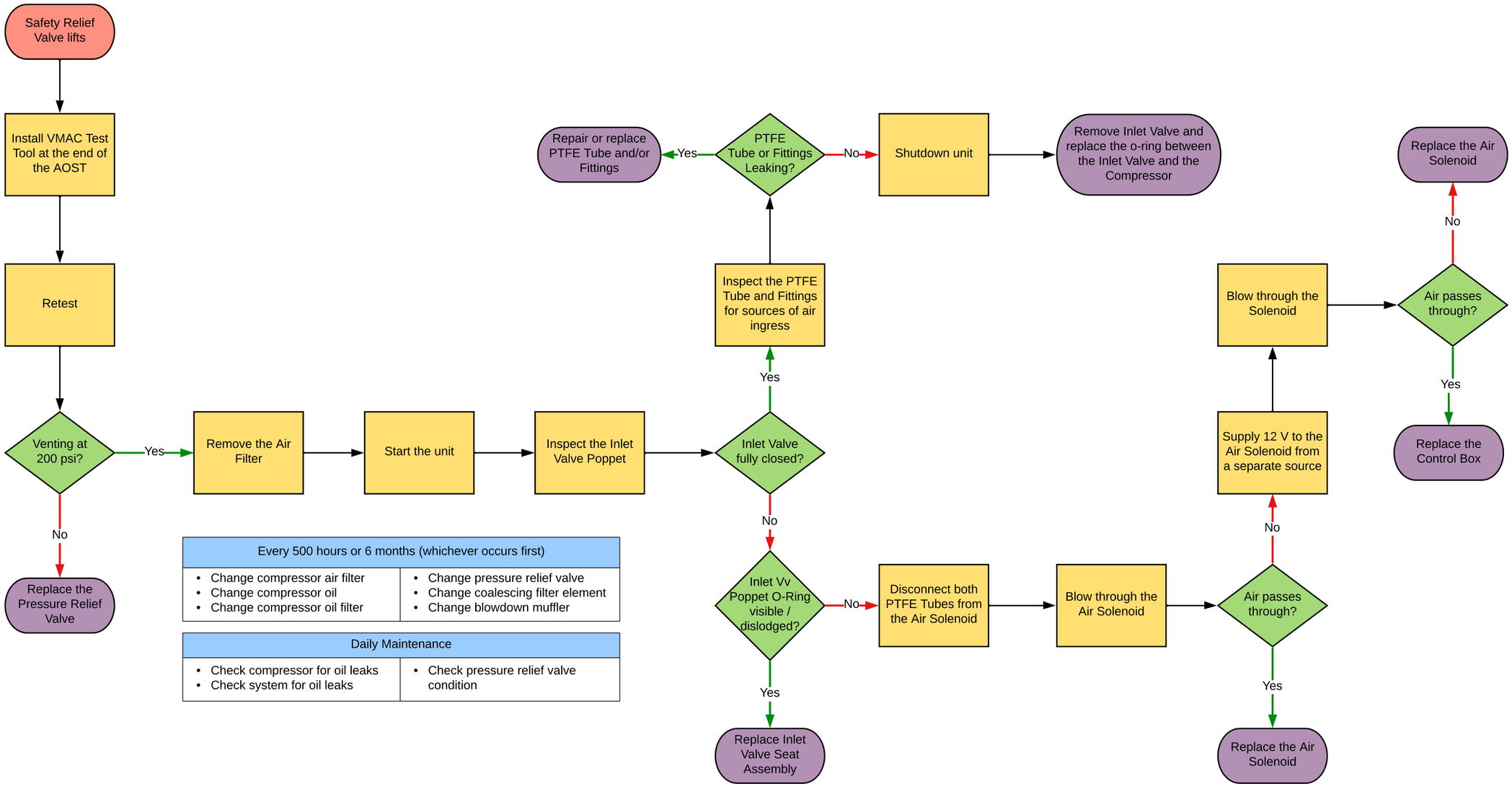
Hydraulic Drive Faultfinding Chart - SAFETY RELIEF VALVE LIFTS

To Index



Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

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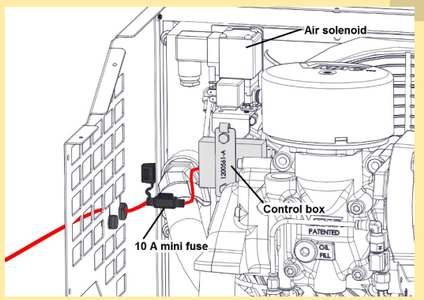
Hydraulic Drive Faultfinding Chart - UNIT WILL NOT TURN ON

To Index

Note 1



Note 2

Attach a ground wire to the remote start yellow wire to start the unit, remove the ground wire to stop the unit.

Note 3

Soft start time may be extended up to 45 minutes in cold temperatures.

Note 4

Correct Pressure and Flow to hydraulic drive compressor:

40 cfm unit:	9 - 14 gpm @ 2400 psi.
60 cfm unit:	14 - 21 gpm @ 2400 psi.
HHP Unit :	12 - 18 gpm @ 3200 psi.

Note 5

There are two temperature probes fitted in the Hydraulic Drive System, one is fitted in the VMAC air/oil stream and is referred to as the "Compressor Probe" or "Comp Probe", the other is fitted in the hydraulic manifold and measures the vehicle's hydraulic fluid temperature, it is referred to as "Hydraulic Probe" or "Hyd Probe".
The probes are interchangeable and have the same VMAC Part #.

Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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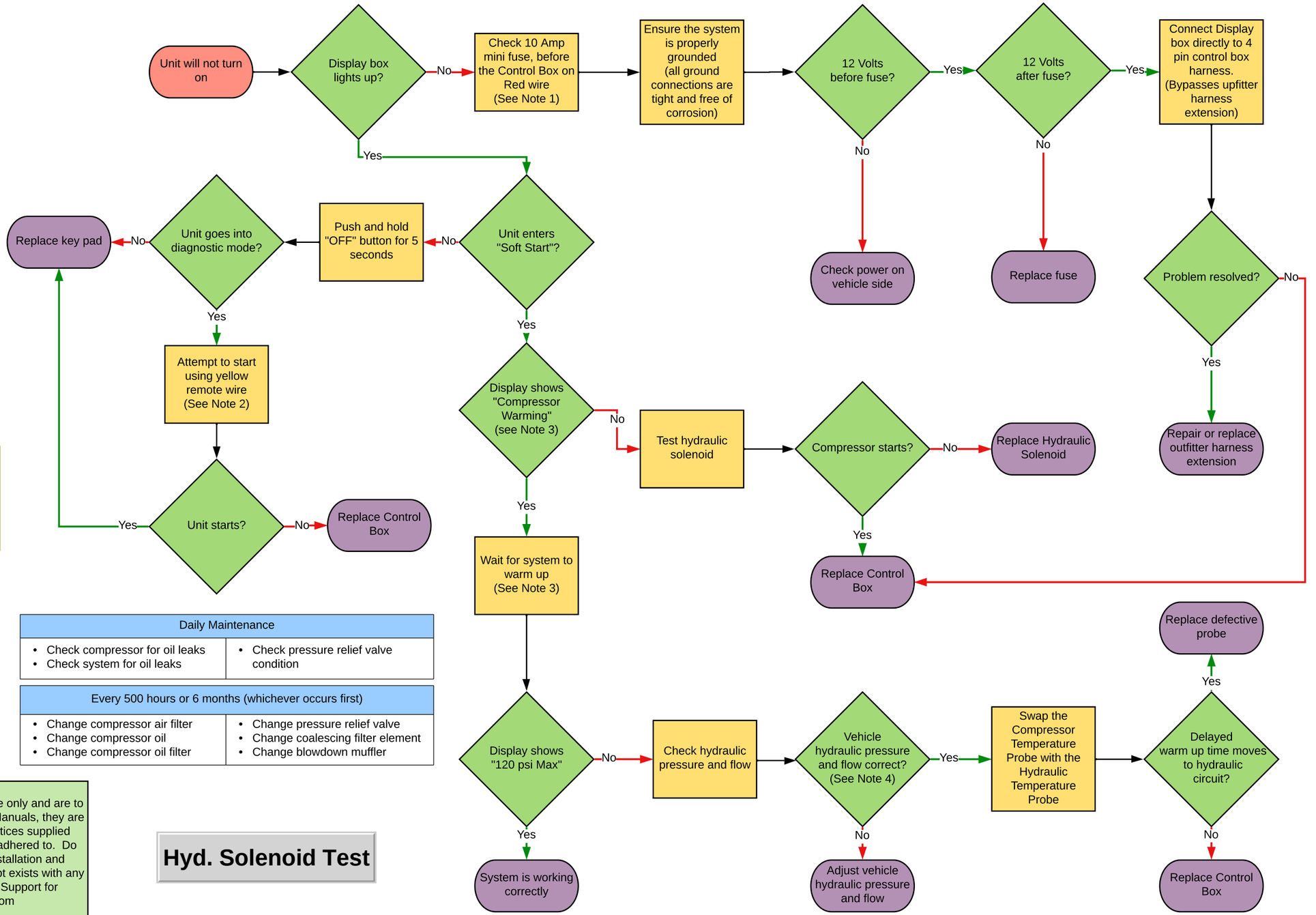
Hyd. Solenoid Test



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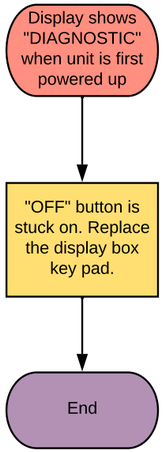
DISPLAY SHOWS "DIAGNOSTIC" WHEN UNIT IS FIRST POWERED UP /



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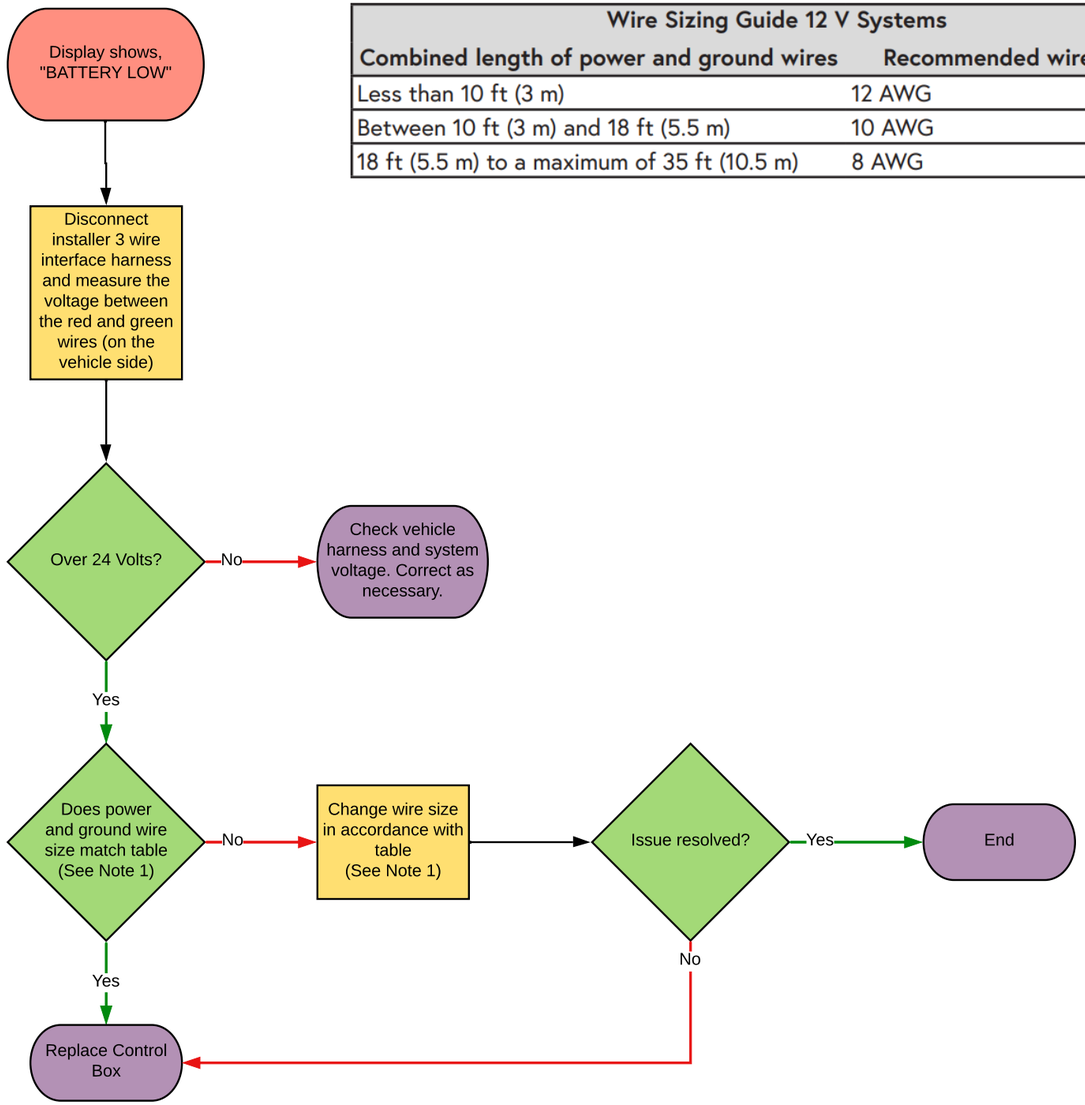
Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

- DISPLAY SHOWS "BATTERY LOW"



Wire Sizing Guide 12 V Systems	
Combined length of power and ground wires	**Recommended wire gauge**
Less than 10 ft (3 m)	12 AWG
Between 10 ft (3 m) and 18 ft (5.5 m)	10 AWG
18 ft (5.5 m) to a maximum of 35 ft (10.5 m)	8 AWG

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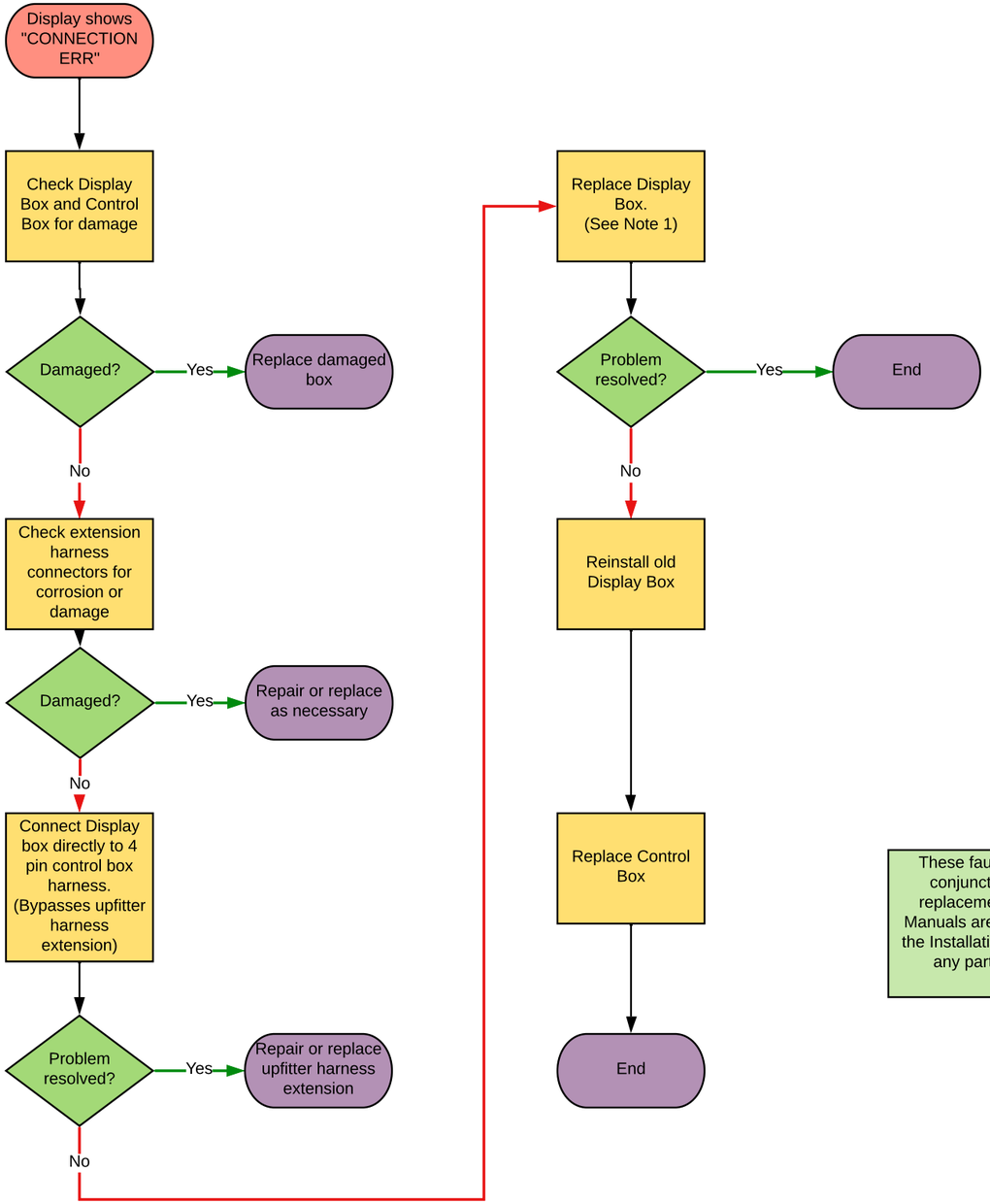
Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "CONNECTION ERR"

To Index



Note 1

There is no way to determine whether the Control Box or the Display Box has failed without changing them. The Display Box is the easier to change and is therefore changed first.

Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "OVER TEMP COMP"

To Index

Temp Probe Diag.

Note 1

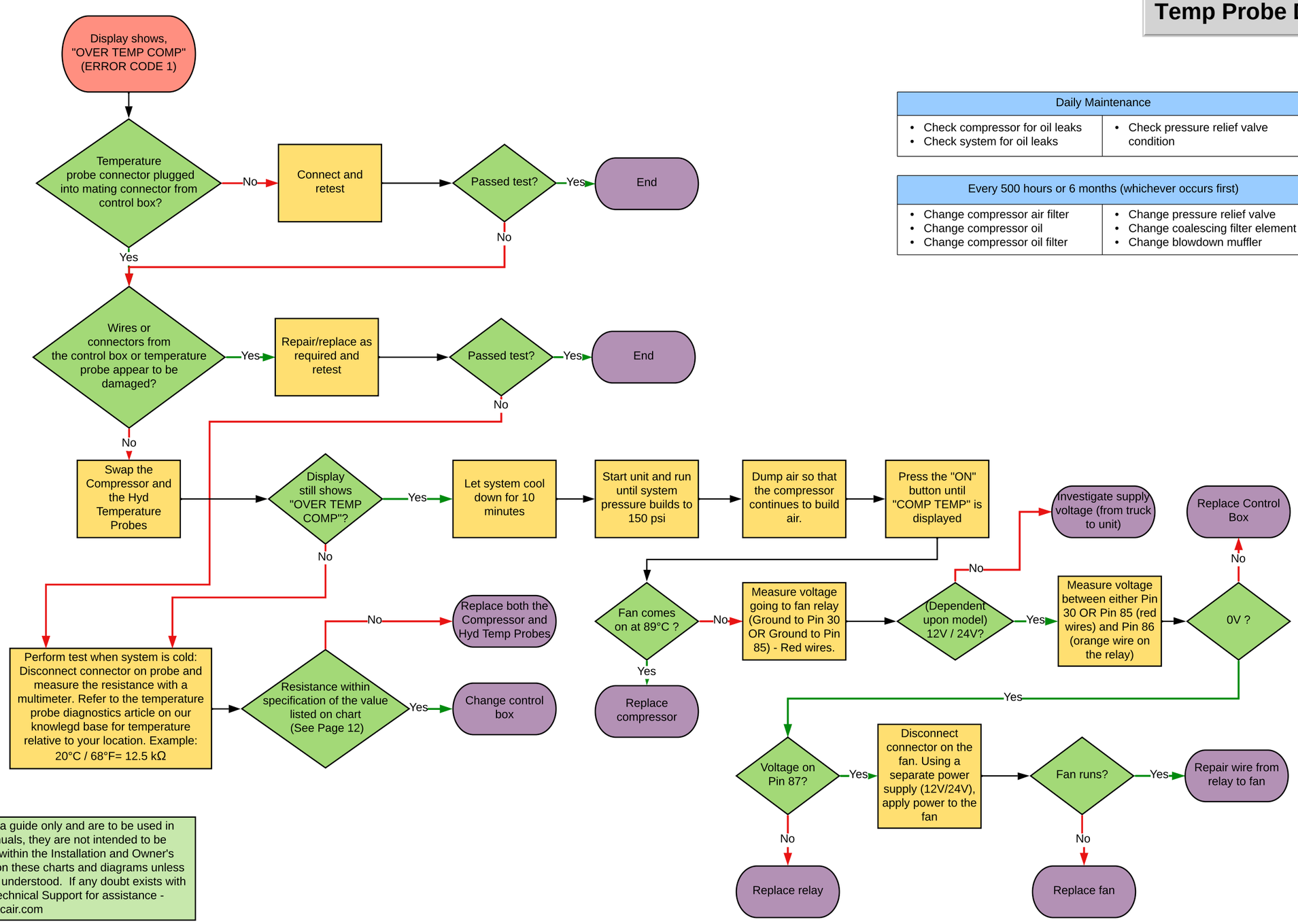
There are two temperature probes fitted in the Hydraulic Drive System, one is fitted in the VMAC air/oil stream and is referred to as the "Compressor Probe" or "Comp Probe", the other is fitted in the hydraulic manifold and measures the vehicle's hydraulic fluid temperature, it is referred to as "Hydraulic Probe" or "Hyd Probe".
The probes are interchangeable and have the same VMAC Part #.

Note 2

Duty cycle, the physical location of the Hydraulic Drive System (e.g. in an enclosed cabinet) and the load on the vehicle's hydraulic system, all impact the VMAC system temperature.

Note 3

It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.



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Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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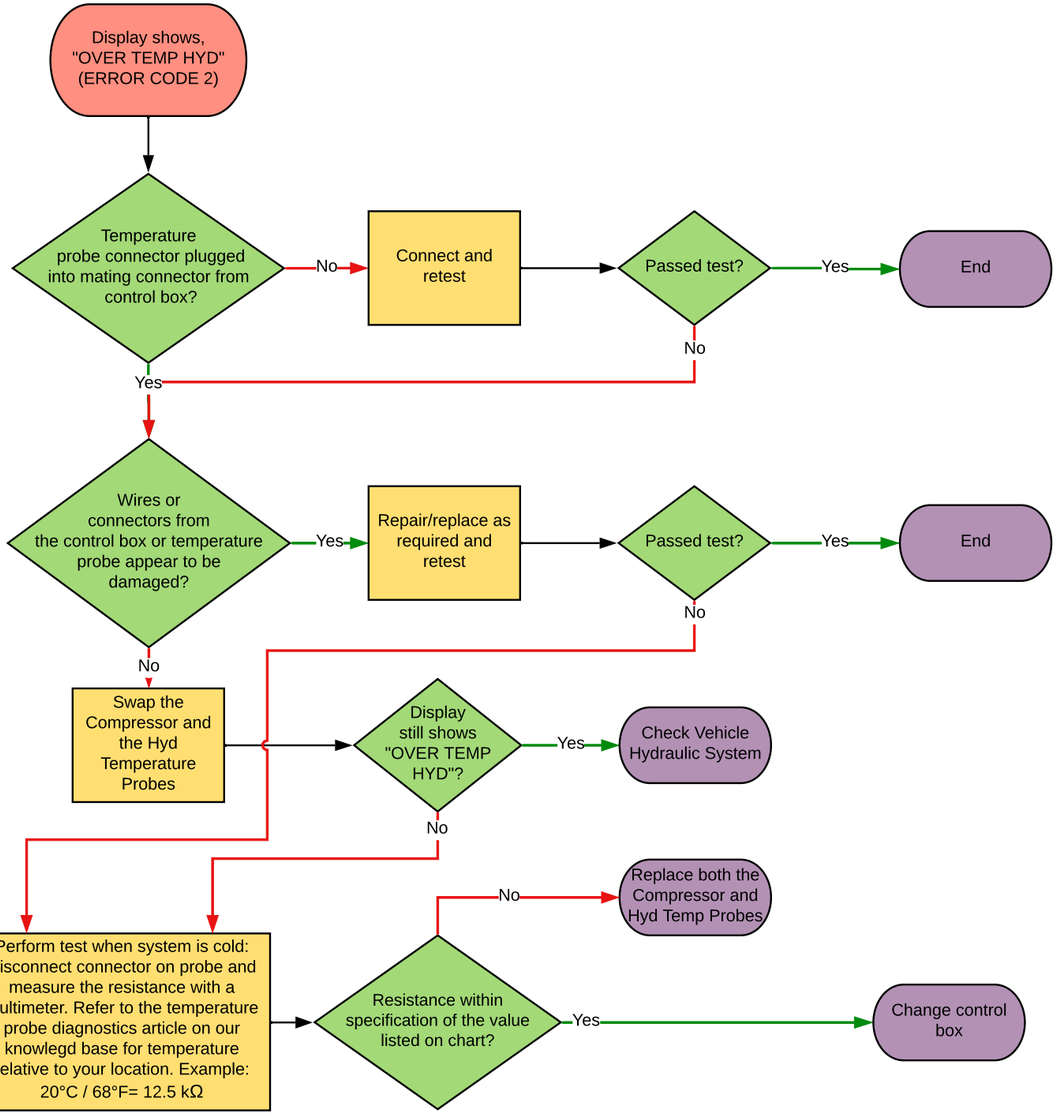
Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "OVER TEMP HYD"

To Index

Temp Probe Diag.



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The probes are interchangeable and have the same VMAC Part #.

Note 2

Duty cycle, the physical location of the Hydraulic Drive System (e.g. in an enclosed cabinet) and the load on the vehicle's hydraulic system, all impact the VMAC system temperature.

Note 3

It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.

Daily Maintenance	
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Every 500 hours or 6 months (whichever occurs first)	
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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "HYD PROBE OPEN"

To Index

Temp Probe Diag.

Note 1

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The probes are interchangeable and have the same VMAC Part #.

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Duty cycle, the physical location of the Hydraulic Drive System (e.g. in an enclosed cabinet) and the load on the vehicle's hydraulic system, all impact the VMAC system temperature.

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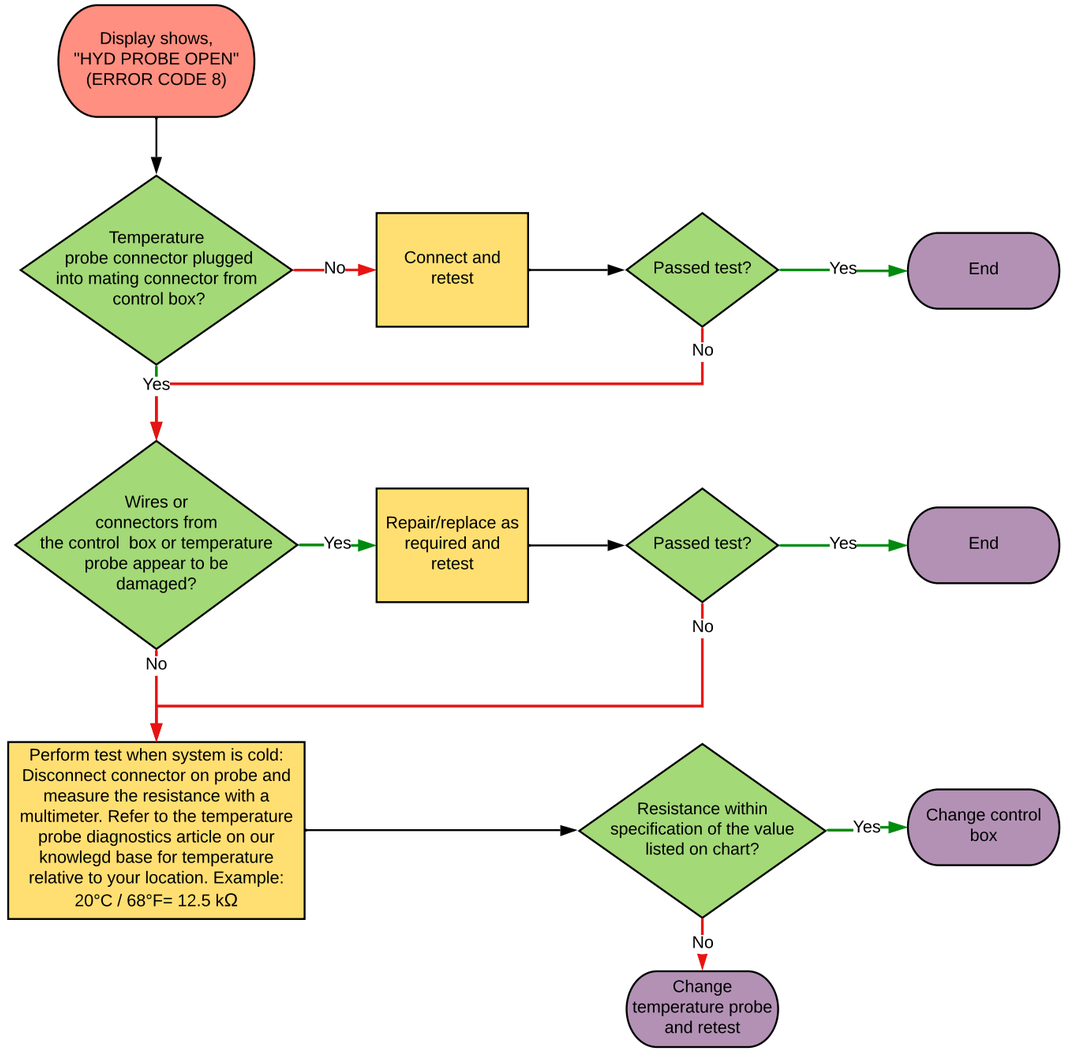
It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.



Daily Maintenance	
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Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "COMP PROBE OPEN"

To Index

Temp Probe Diag.

Note 1

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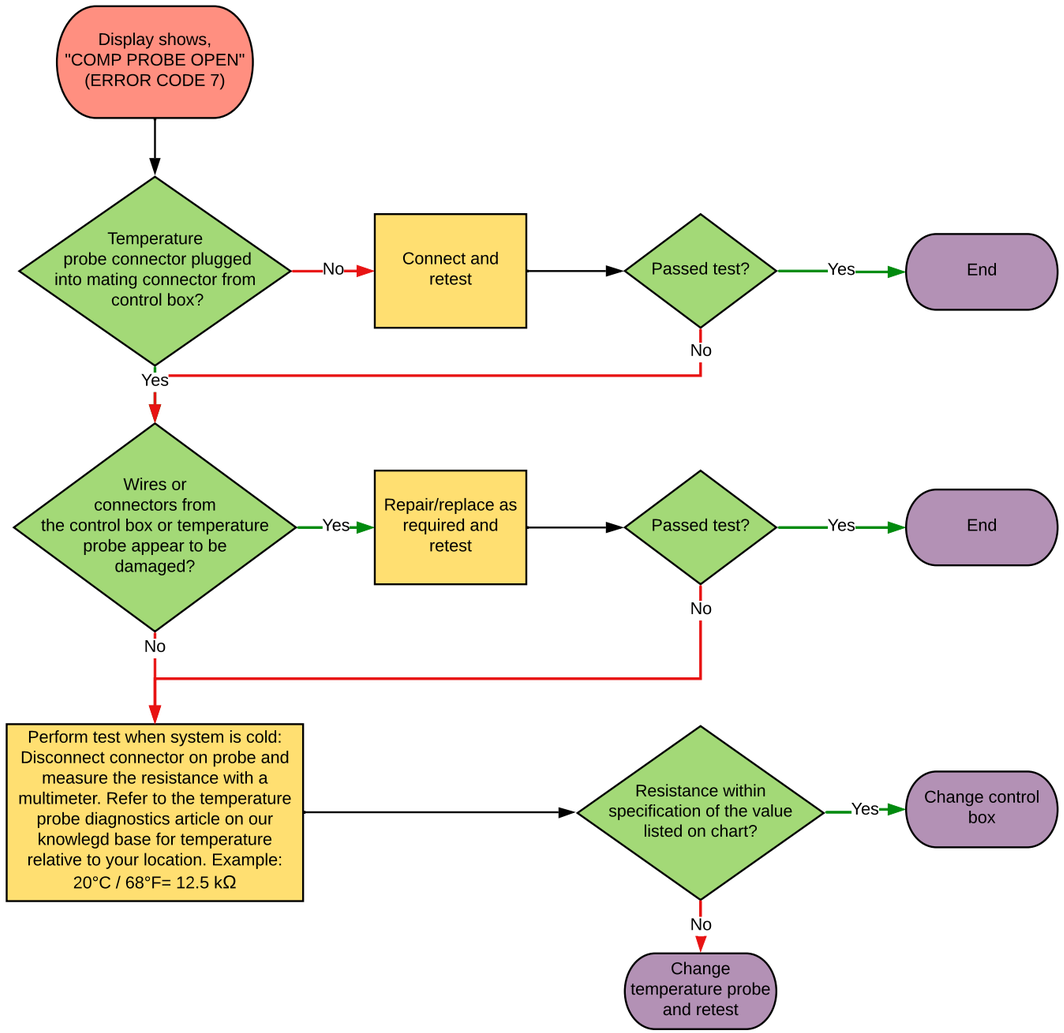
The probes are interchangeable and have the same VMAC Part #.

Note 2

Duty cycle, the physical location of the Hydraulic Drive System (e.g. in an enclosed cabinet) and the load on the vehicle's hydraulic system, all impact the VMAC system temperature.

Note 3

It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.



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Every 500 hours or 6 months (whichever occurs first)	
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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "HYD PROBE SHORT"

To Index

Temp Probe Diag.

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The probes are interchangeable and have the same VMAC Part #.

Note 2

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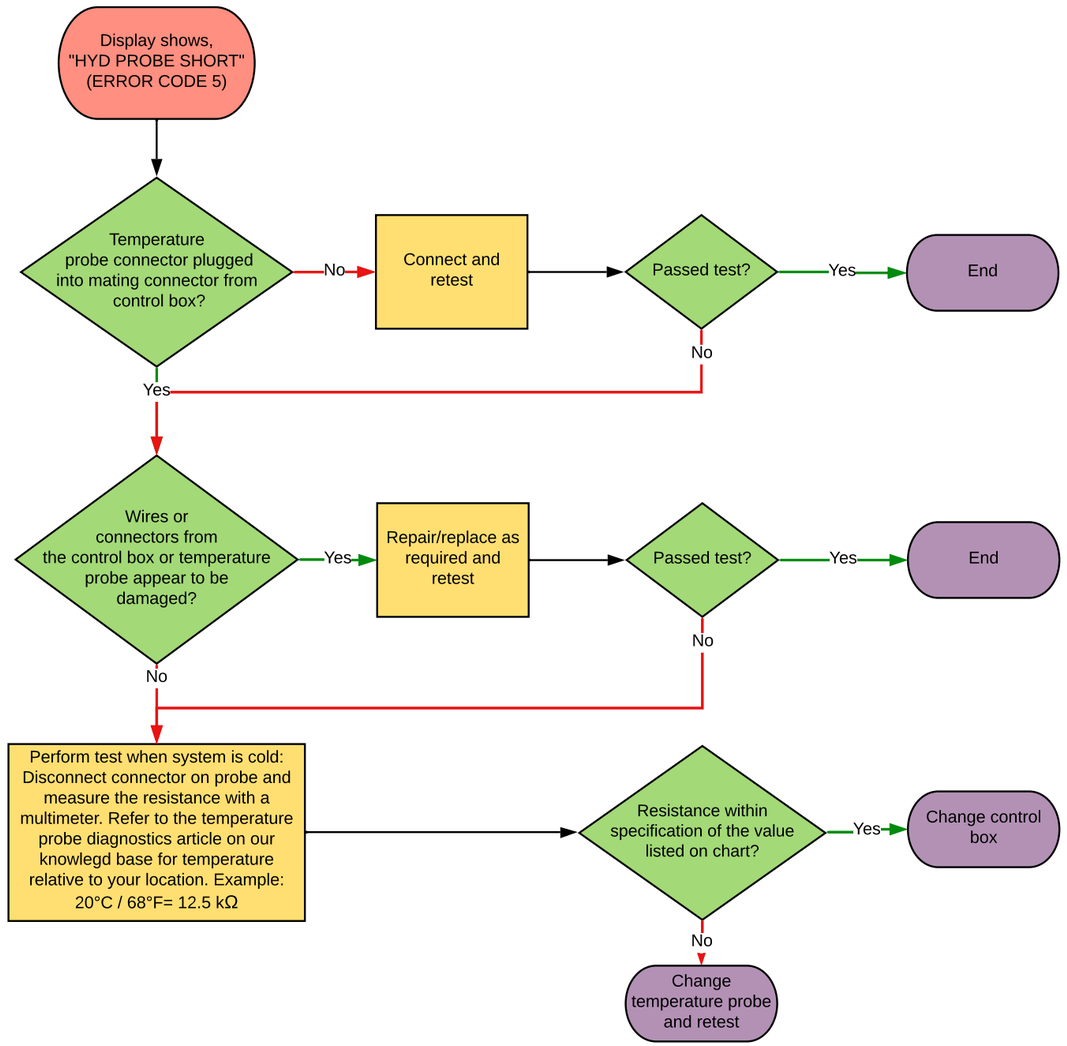
Note 3

It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.



Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

Every 500 hours or 6 months (whichever occurs first)	
• Change compressor air filter • Change compressor oil • Change compressor oil filter	• Change pressure relief valve • Change coalescing filter element • Change blowdown muffler

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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS "COMP PROBE SHORT"

To Index

Temp Probe Diag.

Note 1

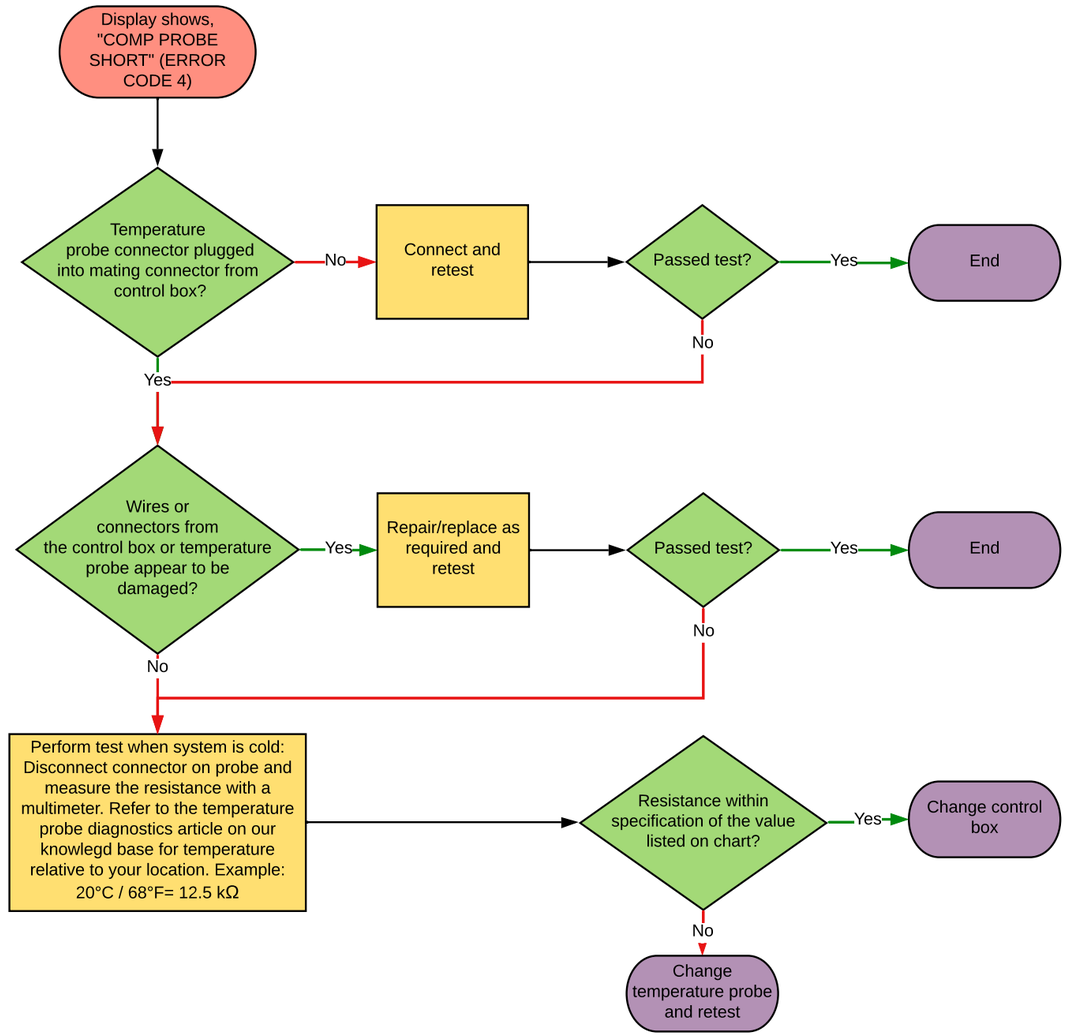
There are two temperature probes fitted in the Hydraulic Drive System, one is fitted in the VMAC air/oil stream and is referred to as the "Compressor Probe" or "Comp Probe", the other is fitted in the hydraulic manifold and measures the vehicle's hydraulic fluid temperature, it is referred to as "Hydraulic Probe" or "Hyd Probe".
The probes are interchangeable and have the same VMAC Part #.

Note 2

Duty cycle, the physical location of the Hydraulic Drive System (e.g. in an enclosed cabinet) and the load on the vehicle's hydraulic system, all impact the VMAC system temperature.

Note 3

It is possible that a faulty probe may pass tests at ambient temperature, but will fail at normal operating temperatures; in these situations the probe must be replaced.



Daily Maintenance	
• Check compressor for oil leaks • Check system for oil leaks	• Check pressure relief valve condition

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Hydraulic Drive Faultfinding Chart - DISPLAY SHOWS " PRESSURE SENSOR?

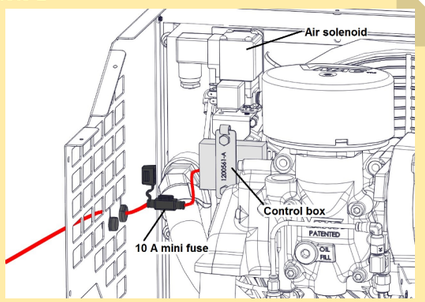
To Index

Press. Sens. Diag.

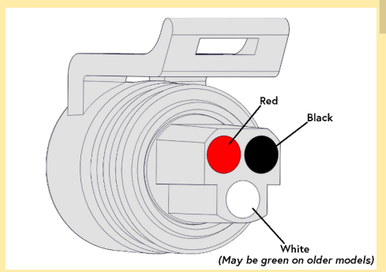
Note 1

i.e. Very low resistance (almost zero) to ground when back probed with unit running. A resistance reading above 2 Ohms indicates a "bad" ground.

Note 2

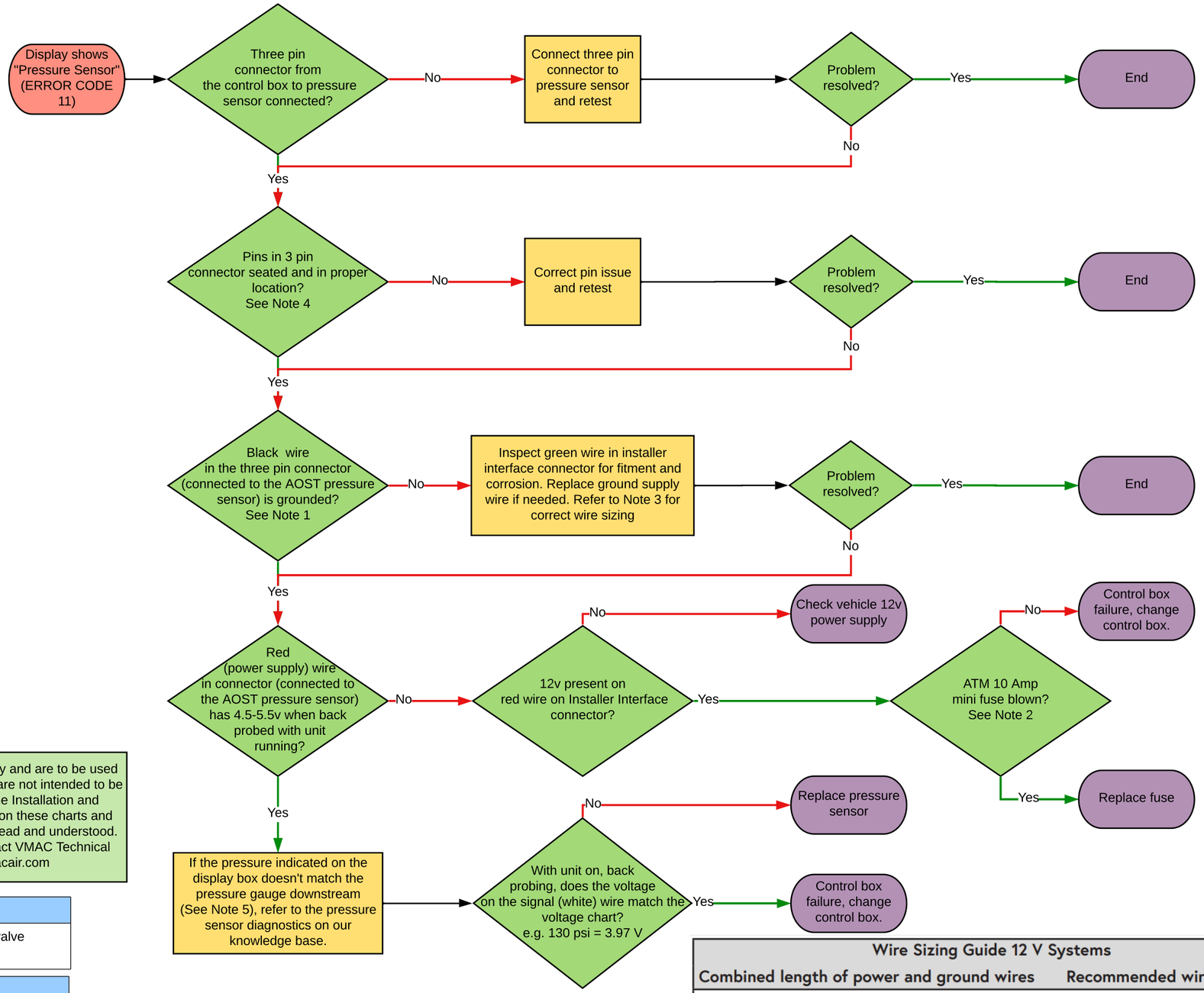


Note 3



Note 4

Measured before any installed regulator.



Wire Sizing Guide 12 V Systems	
Combined length of power and ground wires	**Recommended wire gauge**
Less than 10 ft (3 m)	12 AWG
Between 10 ft (3 m) and 18 ft (5.5 m)	10 AWG
18 ft (5.5 m) to a maximum of 35 ft (10.5 m)	8 AWG

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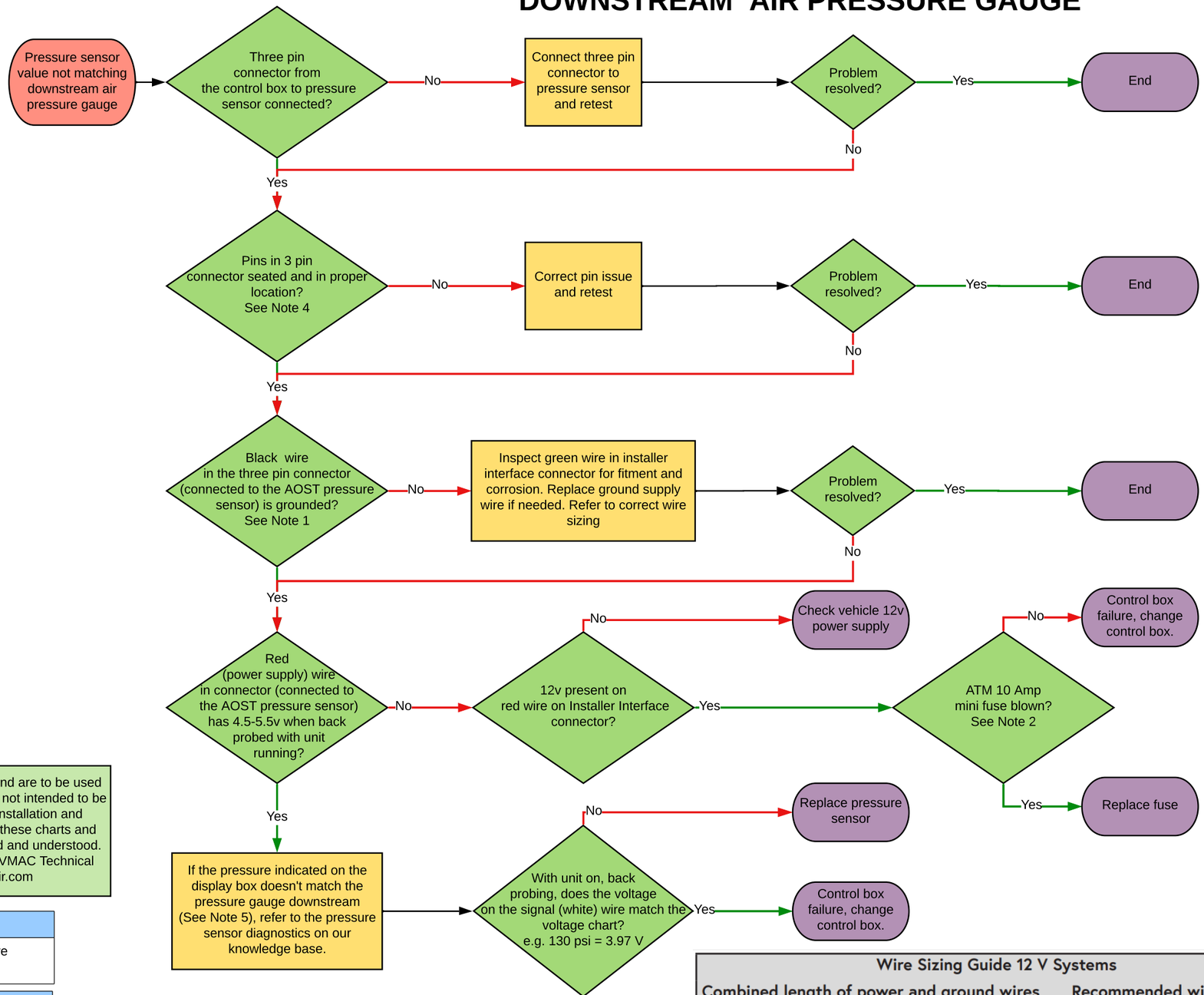
Hydraulic Drive Faultfinding Chart - PRESSURE SENSOR VALUE NOT MATCHING DOWNSTREAM AIR PRESSURE GAUGE

To Index

Press. Sens. Diag.



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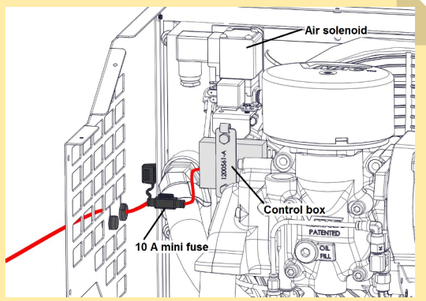
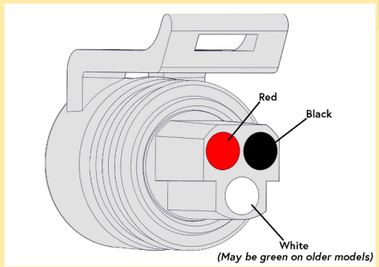


Note 3



Note 4

Measured before any installed regulator.

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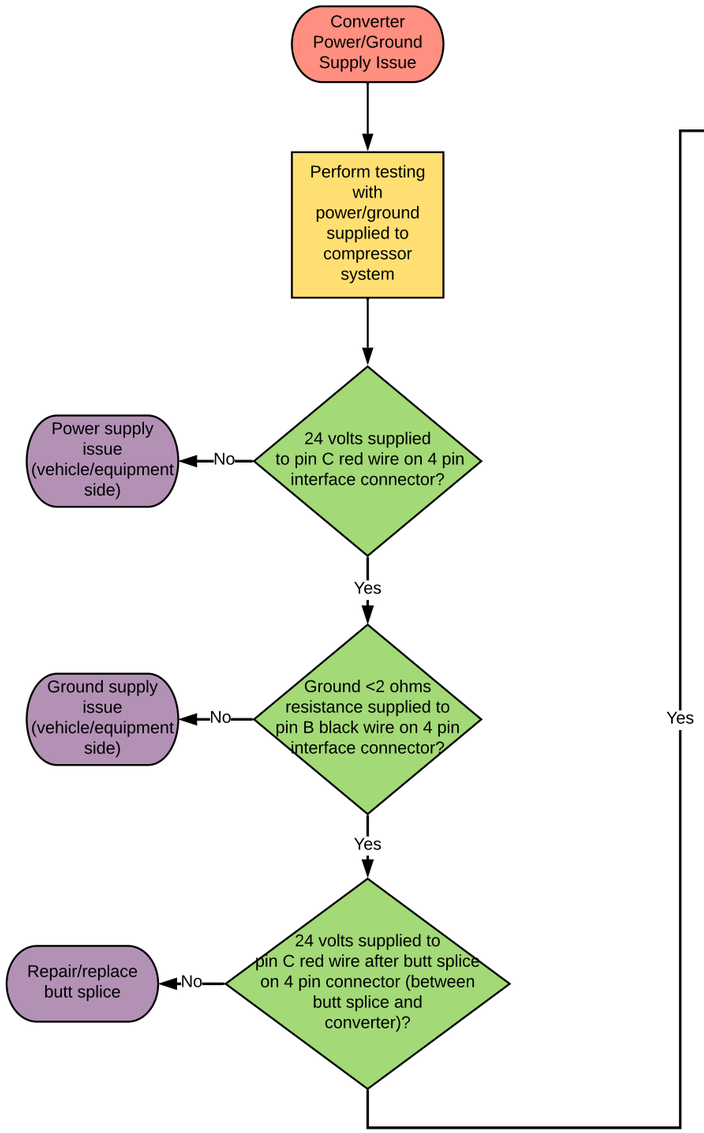
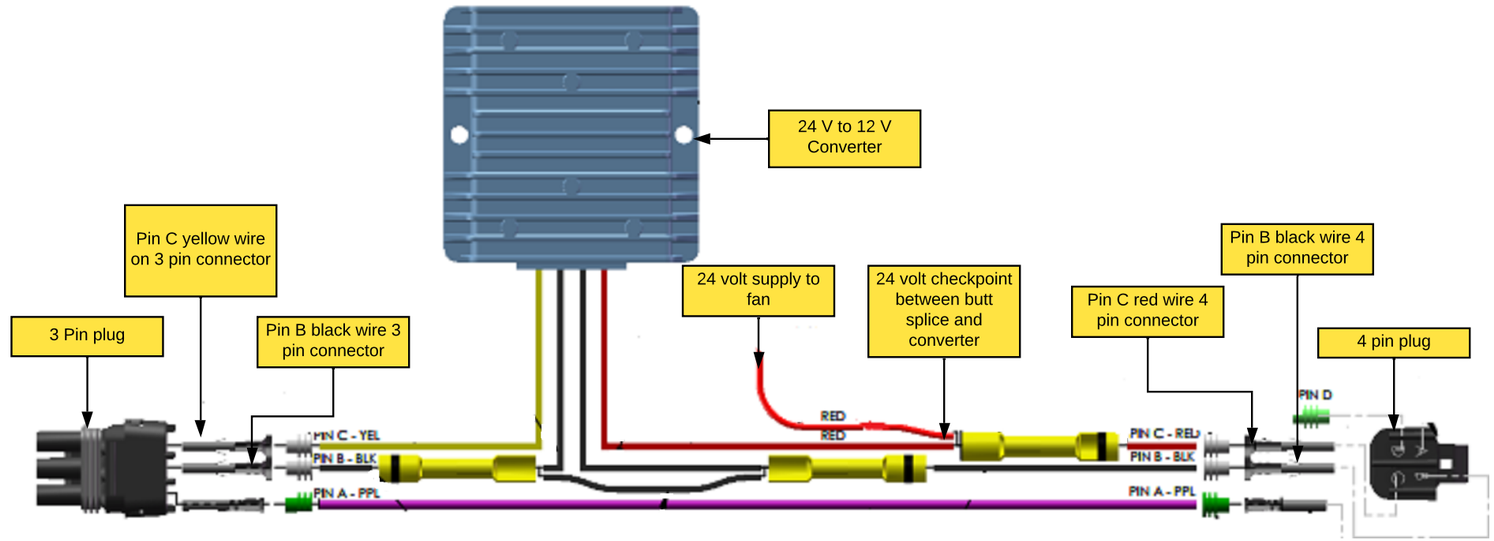
Hydraulic Drive Faultfinding Chart - 24 V to 12 V Converter Power/Ground Supply Issue

To Index





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