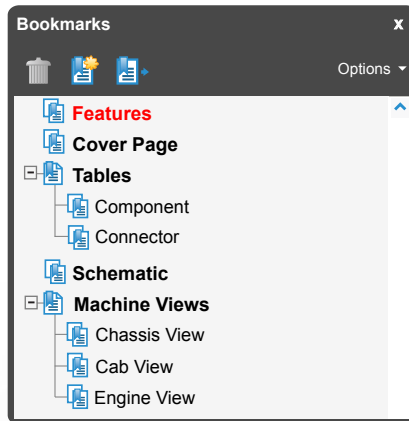


INTERACTIVE SCHEMATIC



The Bookmarks panel will allow you to quickly navigate to points of interest.

****This document is best viewed at a screen resolution of 1024 X 768.***

To set your screen resolution do the following:

RIGHT CLICK on the **DESKTOP**.

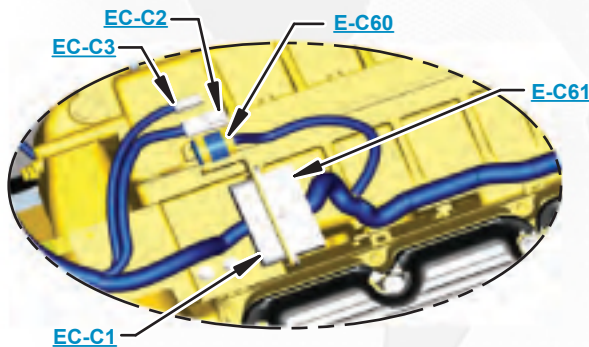
Select **PROPERTIES**.

CLICK the **SETTINGS TAB**.

MOVE THE SLIDER under **SCREEN RESOLUTION** until it shows **1024 X 768**.

CLICK OK to apply the resolution.

**Due to different monitor sizes and PDF reader preferences there may be some variance in linked schematic locations*



Click on any text that is **BLUE** and underlined. These are hyperlinks that can be used to navigate the schematic and machine views.



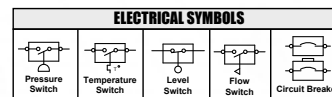
[Click here to save a copy of this interactive schematic to your desktop](#)

VIEW ALL CALLOUTS

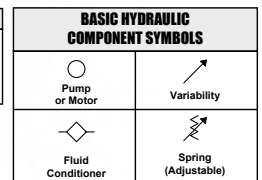
When only one callout is showing on a machine view, clicking on this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

HOTKEYS (Keyboard Shortcuts)

| | FUNCTION | KEYS |
|--|-------------|------------------------|
| | Zoom In | "CTRL" / "+" |
| | Zoom Out | "CTRL" / "-" |
| | Fit to Page | "CTRL" / "0" (zero) |
| | Hand Tool | "SPACEBAR" (hold down) |
| | Find | "CTRL" / "F" |







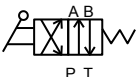
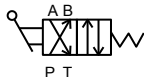
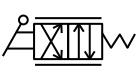










[Click here to view the Schematic Symbols and Definitions page](#)

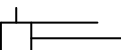
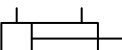




SCHEMATIC SYMBOLS AND DEFINITIONS











| VALVES | | | |
|---|---|---|---|
| ENVELOPES | | | |
|  |  |  | |
| One Position | Two Position | Three Position | |
| PORTS | | | |
|  |  |  | |
| Two-way | Three-Way | Four-Way | |
| CONTROL | | | |
|  |  |  | |
| Normal Position | Shifted Position | Infinite Position | |
| CHECK | | | |
|  |  |  |  |
| Basic Symbol | Spring Loaded | Shuttle | Pilot Controlled |



| INTERNAL PASSAGEWAYS | | | |
|---|---|---|--|
|  Infinite Positioning |  Two Position |  Three Position |  Cross Flow |

















| CYLINDERS | |
|--|--|
|  Single Acting |  Double Acting |




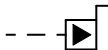

| ACCUMULATORS | |
|--|--|
|  Spring Loaded |  Gas Charged |


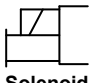





| PUMPS | |
|---|--|
| FIXED DISPLACEMENT | |
|  Unidirectional |  Bidirectional |
| VARIABLE DISPLACEMENT NON- COMPENSATED | |
|  Unidirectional |  Bidirectional |


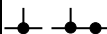
| MOTORS | |
|---|--|
| FIXED DISPLACEMENT | |
|  Unidirectional |  Bidirectional |
| VARIABLE DISPLACEMENT NON- COMPENSATED | |
|  Unidirectional |  Bidirectional |




| ROTATING SHAFTS | |
|---|--|
|  Unidirectional |  Bidirectional |


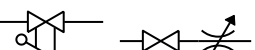




| BASIC HYDRAULIC COMPONENT SYMBOLS | |
|---|--|
|  Pump or Motor |  Variability |
|  Fluid Conditioner |  Spring (Adjustable) |
|  Spring |  Pressure Compensation |
|  Control Valves |  Line Restriction (Variable) |
|  Restriction |  Line Restriction (Fixed) |
|  Line Restriction Variable and Pressure Compensated |  MAIN AUX. 2-Section Pump |
|  Attachment |  Pump: Variable and Pressure Compensated |
|  Hydraulic |  Pneumatic |
| Energy Triangles | |



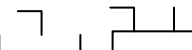
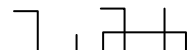
| PILOT CONTROL | | |
|---|---|---|
| RELEASED PRESSURE | | |
|  |  | |
| External Return | Internal Return | |
| REMOTE SUPPLY PRESSURE | | |
|  |  |  |
| Simplified | Complete | Internal Supply Pressure |









| COMBINATION CONTROLS | | | | | | |
|---|---|---|---|--|--|---|
|  Solenoid |  Solenoid or Manual |  Solenoid and Pilot |  Solenoid and Pilot or Manual |  Servo |  Thermal |  Detent |

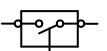
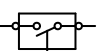
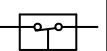
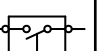

| LINES | |
|---|--|
|  Crossing |  Joining |


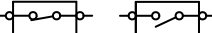
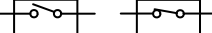
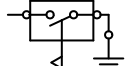
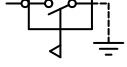
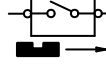
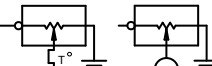
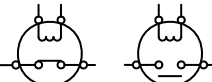
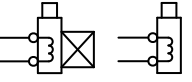
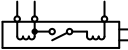
| MEASUREMENT | | |
|---|--|---|
|  Pressure |  Temperature |  Flow |

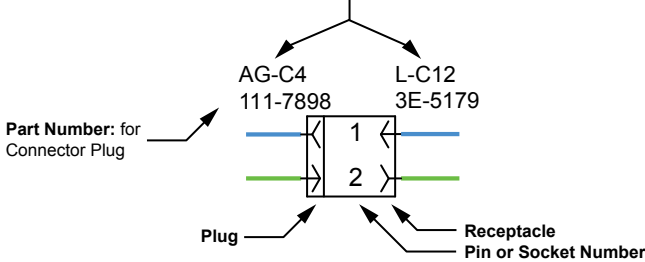
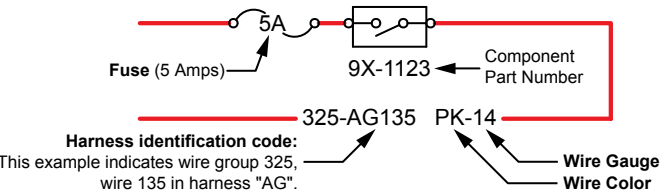
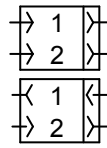
| MANUAL CONTROL | | | | | |
|--|---|---|--|--|--|
|  Push-pull Lever |  Manual Shutoff |  General Manual |  Push Button |  Pedal |  Spring |

| FLUID STORAGE RESERVOIRS | | | |
|---|--|---|---|
|  Vented |  Pressurized |  Return Above Fluid Level |  Return Below Fluid Level |

| HYDRAULIC SYMBOLS - ELECTRICAL | | | | | | | |
|---|---|--|---|--|---|---|--|
|  Transducer (Fluid) |  Transducer (Gas / Air) |  Generator |  Electric Motor |  Pressure Switch |  Pressure Switch (Adjustable) |  Temperature Switch |  Electrical Wire |

| ELECTRICAL SYMBOLS | | | | |
|--|---|---|--|--|
|  Pressure Switch |  Temperature Switch |  Level Switch |  Flow Switch |  Circuit Breaker |

| BASIC ELECTRICAL COMPONENT SYMBOLS | |
|---|---|
|  | Fuse: A component in an electrical circuit that will open the circuit if too much current flows through it. |
|  | Switch (Normally Open): A switch that will close at a specified point (temp, press, etc.). The circle indicates that the component has screw terminals and a wire can be disconnected from it. |
|  | Switch (Normally Closed): A switch that will open at a specified point (temp, press, etc.). No circle indicates that the wire cannot be disconnected from the component. |
|  | Ground (Wired): This indicates that the component is connected to a grounded wire. The grounded wire is fastened to the machine. |
|  | Ground (Case): This indicates that the component does not have a wire connected to ground. It is grounded by being fastened to the machine. |
|  | Reed Switch: A switch whose contacts are controlled by a magnet. A magnet closes the contacts of a normally open reed switch; it opens the contacts of a normally closed reed switch. |
|  | Sender: A component that is used with a temperature or pressure gauge. The sender measures the temperature or pressure. Its resistance changes to give an indication to the gauge of the temperature or pressure. |
|  | Relay (Magnetic Switch): A relay is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close the switch part of the relay. |
|  | Solenoid: A solenoid is an electrical component that is activated by electricity. It has a coil that makes an electromagnet when current flows through it. The electromagnet can open or close a valve or move a piece of metal that can do work. |
|  | Magnetic Latch Solenoid: An electrical component that is activated by electricity and held latched by a permanent magnet. It has two coils (latch and unlatch) that make electromagnet when current flows through them. It also has an internal switch that places the latch coil circuit open at the time the coil latches. |

| HARNESS AND WIRE SYMBOLS | |
|--|--|
| <p>Wire, Cable, or Harness Assembly Identification: Includes Harness Identification Letters and Harness Connector Serialization Codes (see sample).</p>  | |
| <p>Harness Identification Letter(s): (A, B, C, AA, AB, AC, ...)</p> <p>Harness Connector Serialization Code: The "C" stands for "Connector" and the number indicates which connector in the harness (C1, C2, C3, ...)</p> <p>L-C12 3E-5179</p> | |
|  <p>Harness identification code: This example indicates wire group 325, wire 135 in harness "AG".</p> <p>325-AG135 PK-14</p> | |
|  <p>Deutsch connector: Typical representation of a Deutsch connector. The plug contains all sockets and the receptacle contains all pins.</p> <p>Sure-Seal connector: Typical representation of a Sure-Seal connector. The plug and receptacle contain both pins and sockets.</p> | |

Schematic

CP54B, CS54B and CS64B Vibratory Soil Compactor Hydraulic System

CP54B:
5461-UP
P5F1-UP
PFM1-UP

CS54B:
5441-UP
M5B1-UP
MFC1-UP

CS64B:
DH61-UP

Schematic

CP54B, CS54B and CS64B Vibratory Soil Compactor Hydraulic System

CP54B:
5461-UP
P5F1-UP
PFM1-UP

CS54B:
5441-UP
M5B1-UP
MFC1-UP

CS64B:
DH61-UP

COMPONENT TABLE

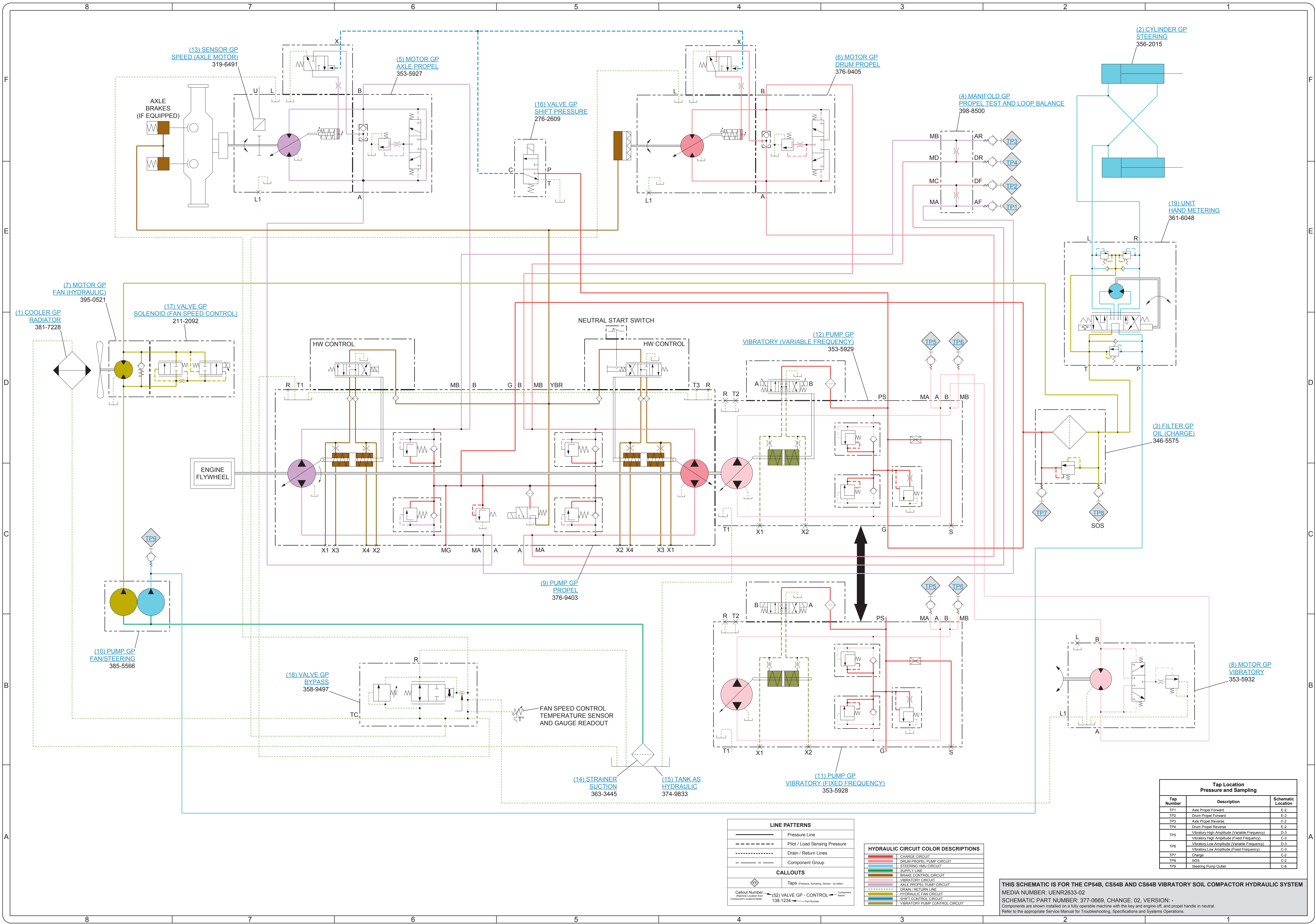


Component Locations

| Description | Part Number | Machine Location | Schematic Location |
|--|-------------|--------------------|---------------------|
| Cooler GP - Radiator | 381-7228 | 1 | D-8 |
| Cylinder GP - Steering | 356-2015 | 2 | F-2 |
| Filter GP - Oil (Charge) | 346-5575 | 3 | D-2 |
| Manifold GP - Propel Test and Loop Balance | 398-8500 | 4 | F-3 |
| Motor GP - Axle Propel | 353-5927 | 5 | F-6 |
| Motor GP - Drum Propel | 376-6405 | 6 | F-3 |
| Motor GP - Fan (Hydraulic) | 395-0521 | 7 | D-8 |
| Motor GP - Vibratory | 353-5932 | 8 | B-1 |
| Pump GP - Propel | 376-9403 | 9 | C-5 |
| Pump GP - Fan/Steering | 385-5566 | 10 | C-8 |
| Pump GP - Vibratory (Fixed Frequency) | 353-5928 | 11 | B-3 |
| Pump GP - Vibratory (Variable Frequency) | 353-5929 | 12 | D-3 |
| Sensor GP - Speed (Axle Motor) | 319-6491 | 13 | F-7 |
| Strainer - Suction | 363-3445 | 14 | B-5 |
| Tank AS - Hydraulic | 374-9833 | 15 | B-5 |
| Valve GP - Shift Pressure | 276-2609 | 16 | F-5 |
| Valve GP - Solenoid (Fan Speed Control) | 211-2092 | 17 | D-7 |
| Valve GP-Bypass | 358-9497 | 18 | B-6 |
| Unit - Hand Metering | 361-6048 | 19 | E-1 |

Tap Location Pressure and Sampling

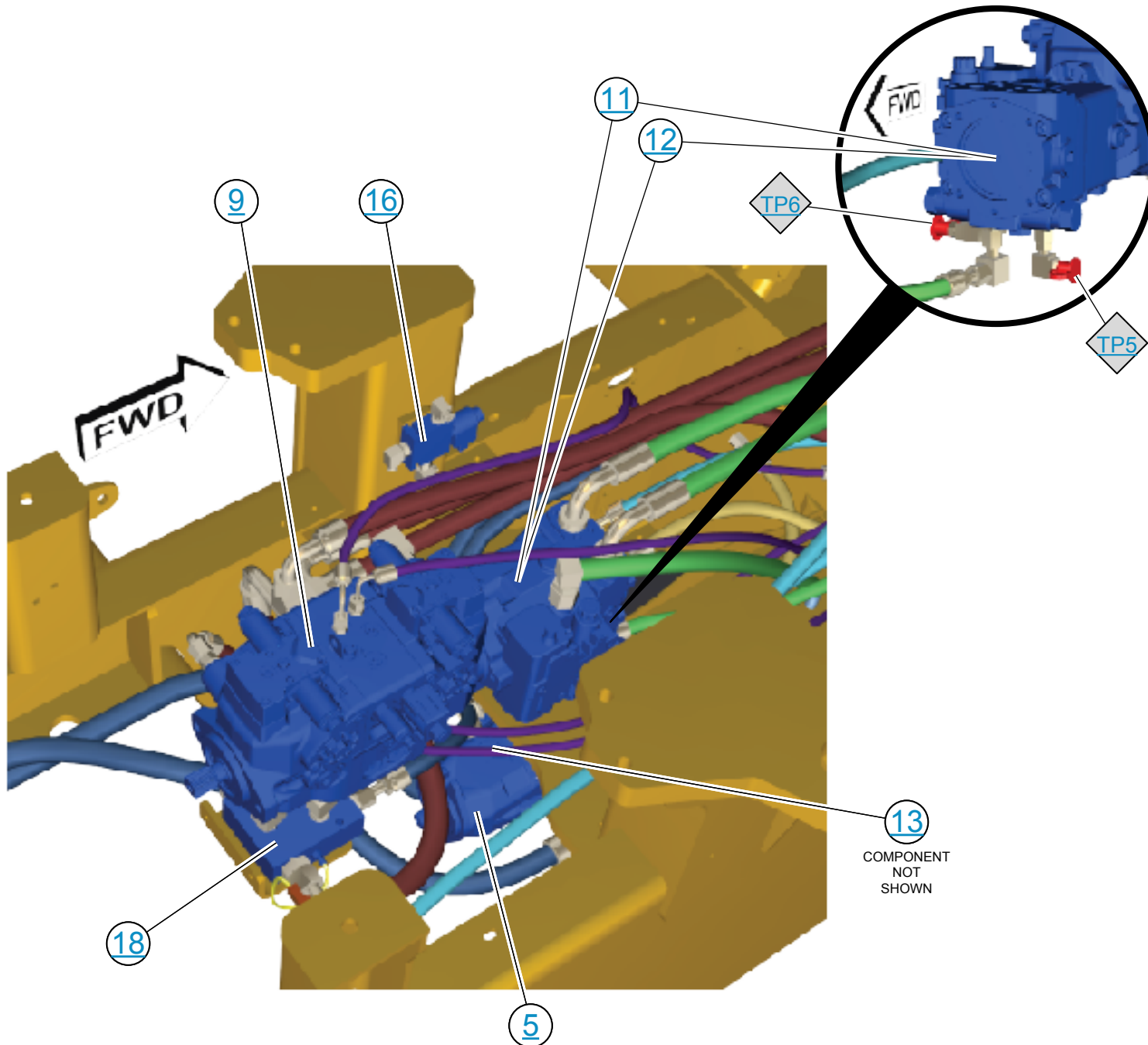
| Tap Number | Description | Schematic Location |
|---------------------|---|---------------------|
| TP1 | Axle Propel Forward | E-2 |
| TP2 | Drum Propel Forward | E-2 |
| TP3 | Axle Propel Reverse | F-2 |
| TP4 | Drum Propel Reverse | E-2 |
| TP5 | Vibratory High Amplitude (Variable Frequency) | D-3 |
| | Vibratory High Amplitude (Fixed Frequency) | C-3 |
| TP6 | Vibratory Low Amplitude (Variable Frequency) | D-3 |
| | Vibratory Low Amplitude (Fixed Frequency) | C-3 |
| TP7 | Charge | C-2 |
| TP8 | SOS | C-2 |
| TP9 | Steering Pump Outlet | C-8 |



MOTORS AND PUMPS



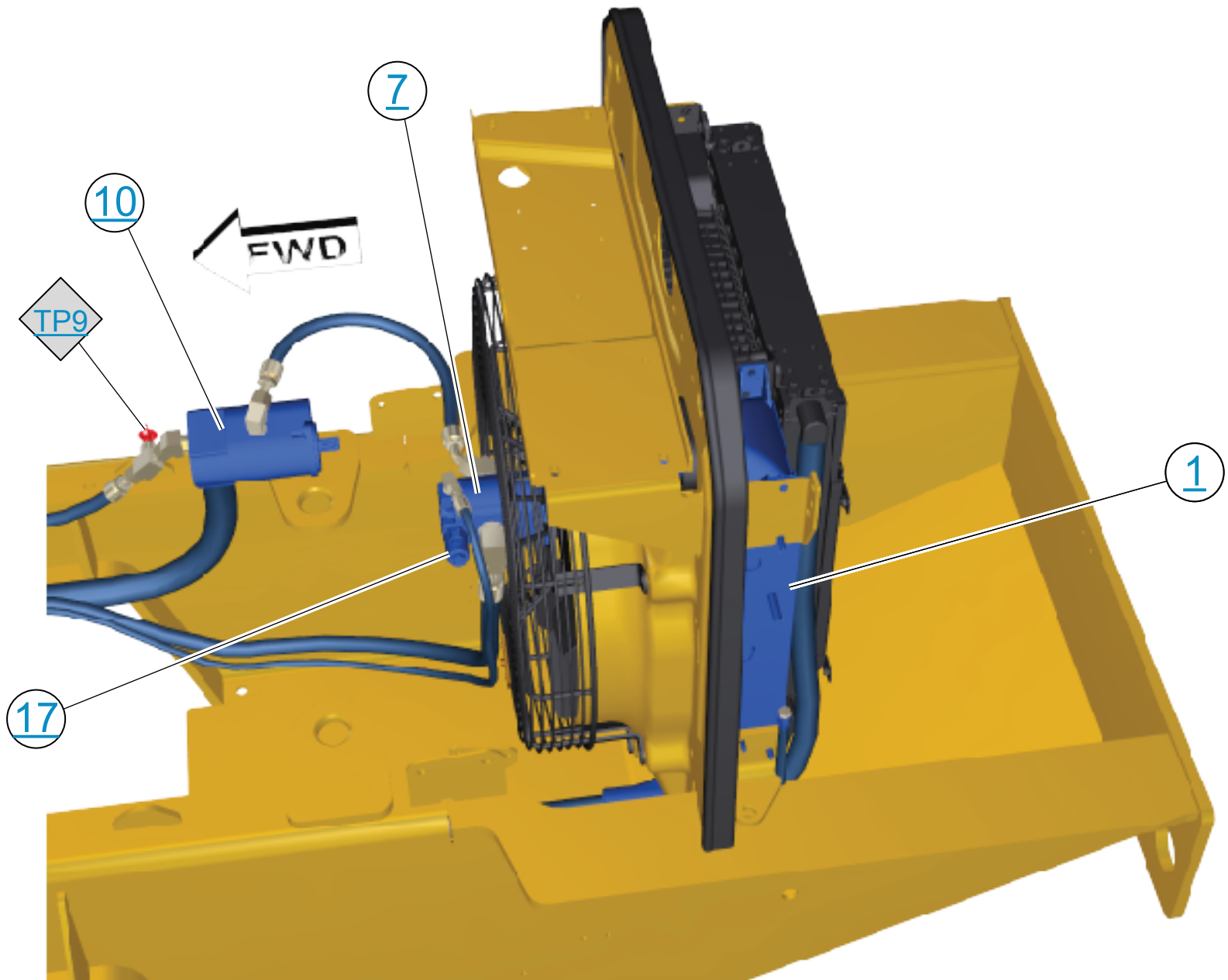
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LEFT REAR OF MACHINE



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DRUM



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