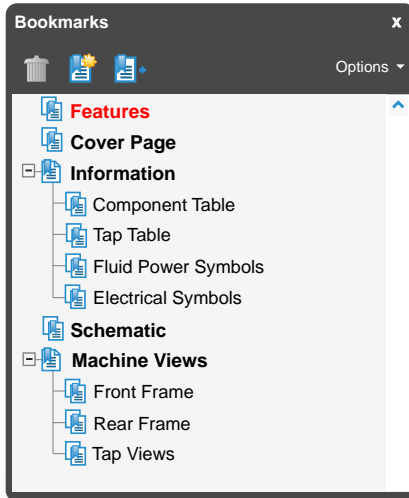


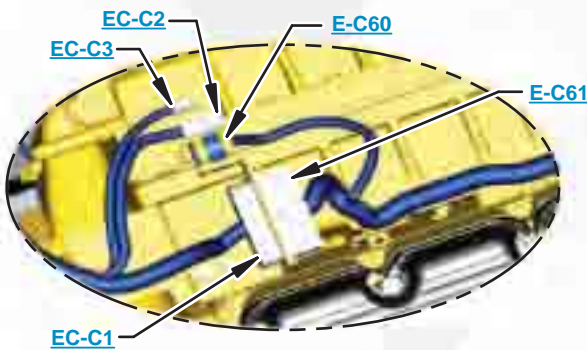
# INTERACTIVE SCHEMATIC



***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.

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



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

**VIEW ALL CALLOUTS**

When only one callout is showing on a machine view 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"



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# CONNECTOR LOCATION

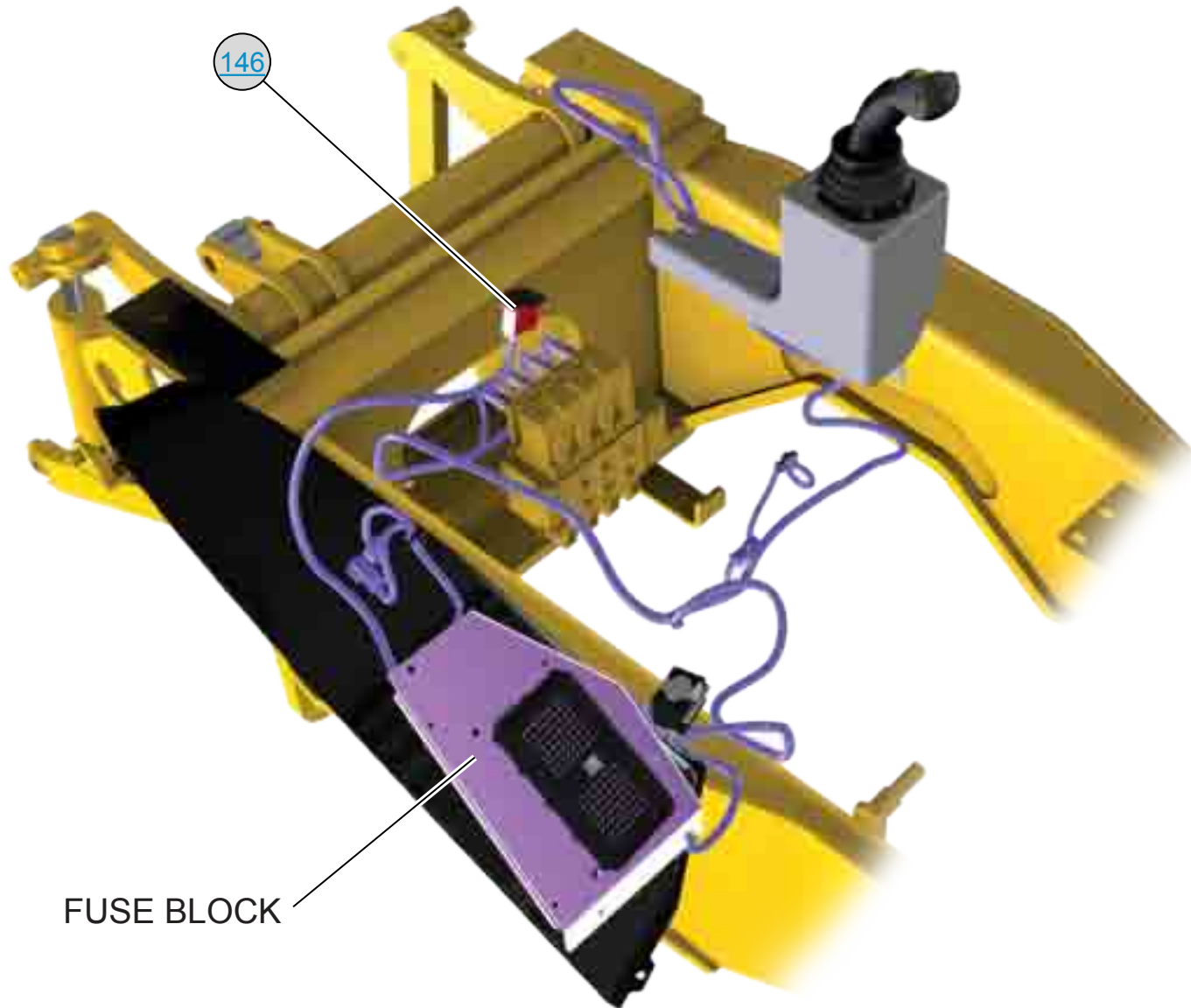
## Volume 2 of 3 - Engine and Attachment Wiring



Connector Number	Schematic Location
<a href="#">CONN 1</a>	<a href="#">C-11</a>
<a href="#">CONN 2</a>	<a href="#">C-11</a>
<a href="#">CONN 3</a>	<a href="#">G-9</a>
<a href="#">CONN 4</a>	<a href="#">H-9</a>
<a href="#">CONN 5</a>	<a href="#">F-9</a>
<a href="#">CONN 12</a>	<a href="#">I-13</a>
<a href="#">CONN 13</a>	<a href="#">I-10, I-13</a>
<a href="#">CONN 14</a>	<a href="#">H-12</a>
<a href="#">CONN 18</a>	<a href="#">D-12</a>
<a href="#">CONN 19</a>	<a href="#">F-12</a>
<a href="#">CONN 20</a>	<a href="#">D-6</a>
<a href="#">CONN 23</a>	<a href="#">J-4</a>
<a href="#">CONN 25</a>	<a href="#">I-5</a>
<a href="#">CONN 26</a>	<a href="#">J-5</a>
<a href="#">CONN 28</a>	<a href="#">A-11</a>
<a href="#">CONN 29</a>	<a href="#">A-11</a>
<a href="#">CONN 30</a>	<a href="#">F-13, F-14, H-12</a>
<a href="#">CONN 31</a>	<a href="#">A-8</a>
<a href="#">CONN 32</a>	<a href="#">B-9</a>
<a href="#">CONN 33</a>	<a href="#">B-8</a>
<a href="#">CONN 34</a>	<a href="#">D-7</a>
<a href="#">CONN 35</a>	<a href="#">A-5</a>
<a href="#">CONN 36</a>	<a href="#">B-5</a>
<a href="#">CONN 37</a>	<a href="#">A-3</a>
<a href="#">CONN 38</a>	<a href="#">B-3</a>
<a href="#">CONN 39</a>	<a href="#">B-3</a>
<a href="#">CONN 40</a>	<a href="#">F-2</a>
<a href="#">CONN 41</a>	<a href="#">J-2</a>

The connectors shown in this chart are for harness to harness connectors. Connectors that join a harness to a component are generally located at or near the component. See the Component Location Chart.

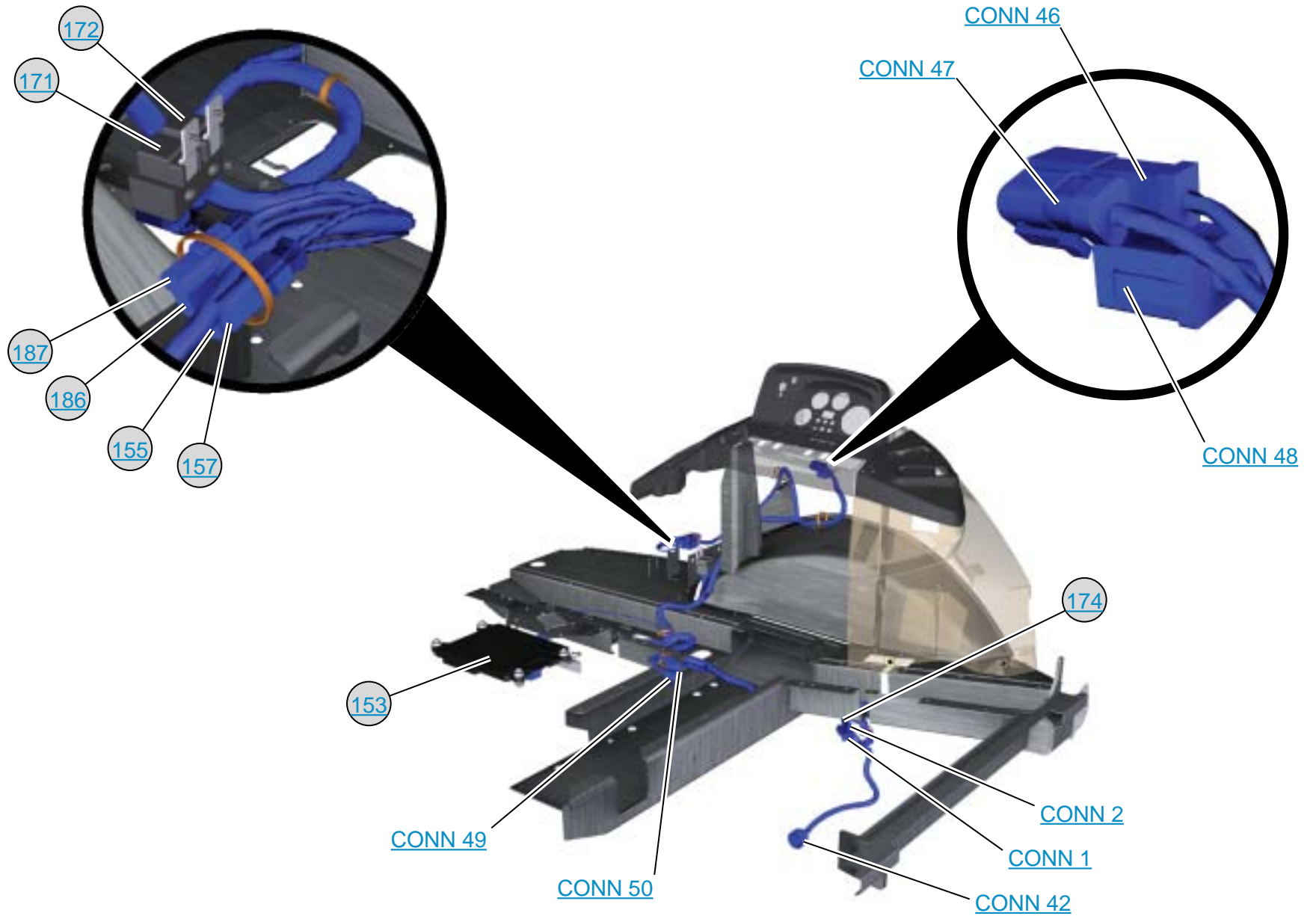
# 414E PLATFORM WIRING



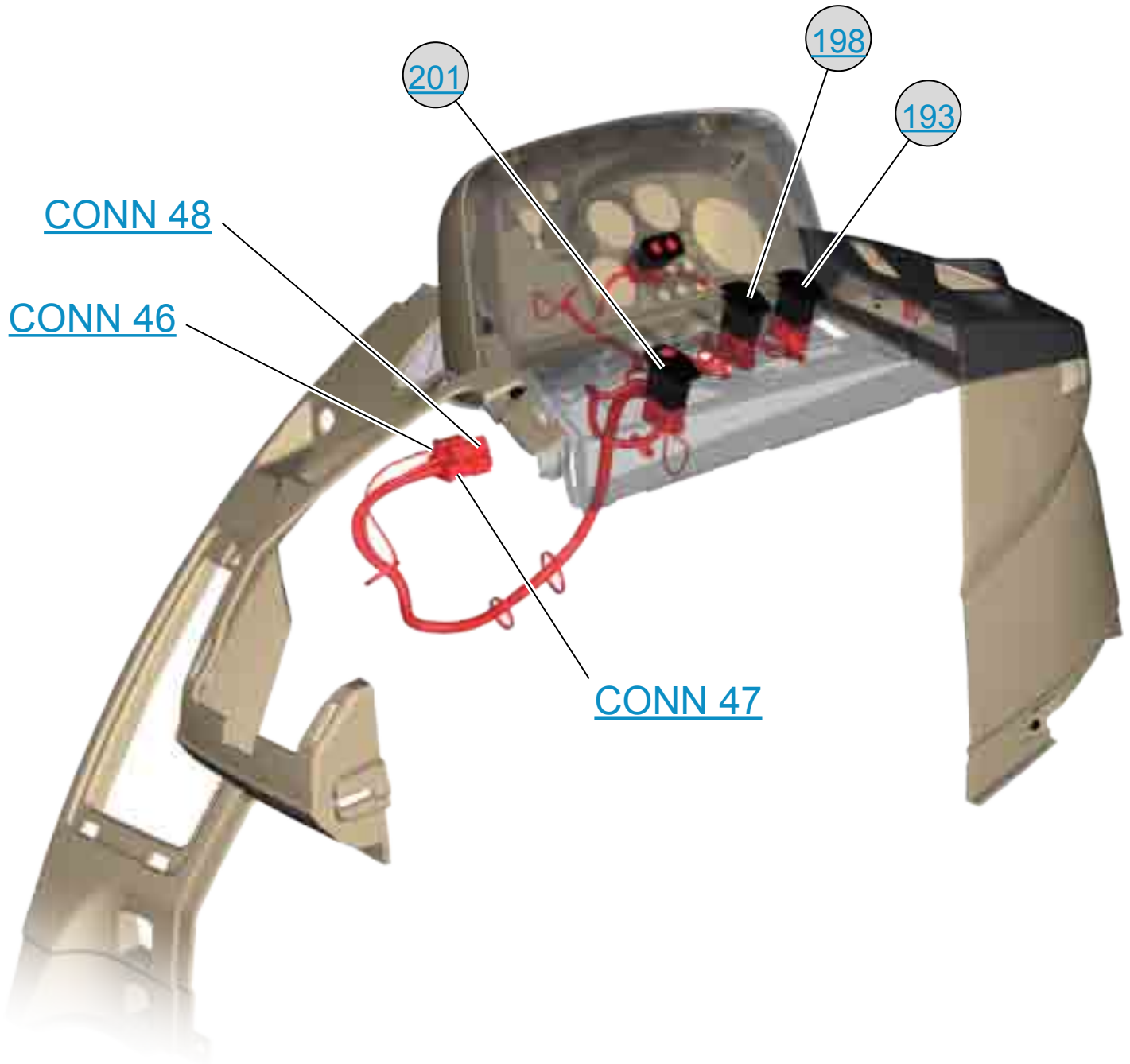
146

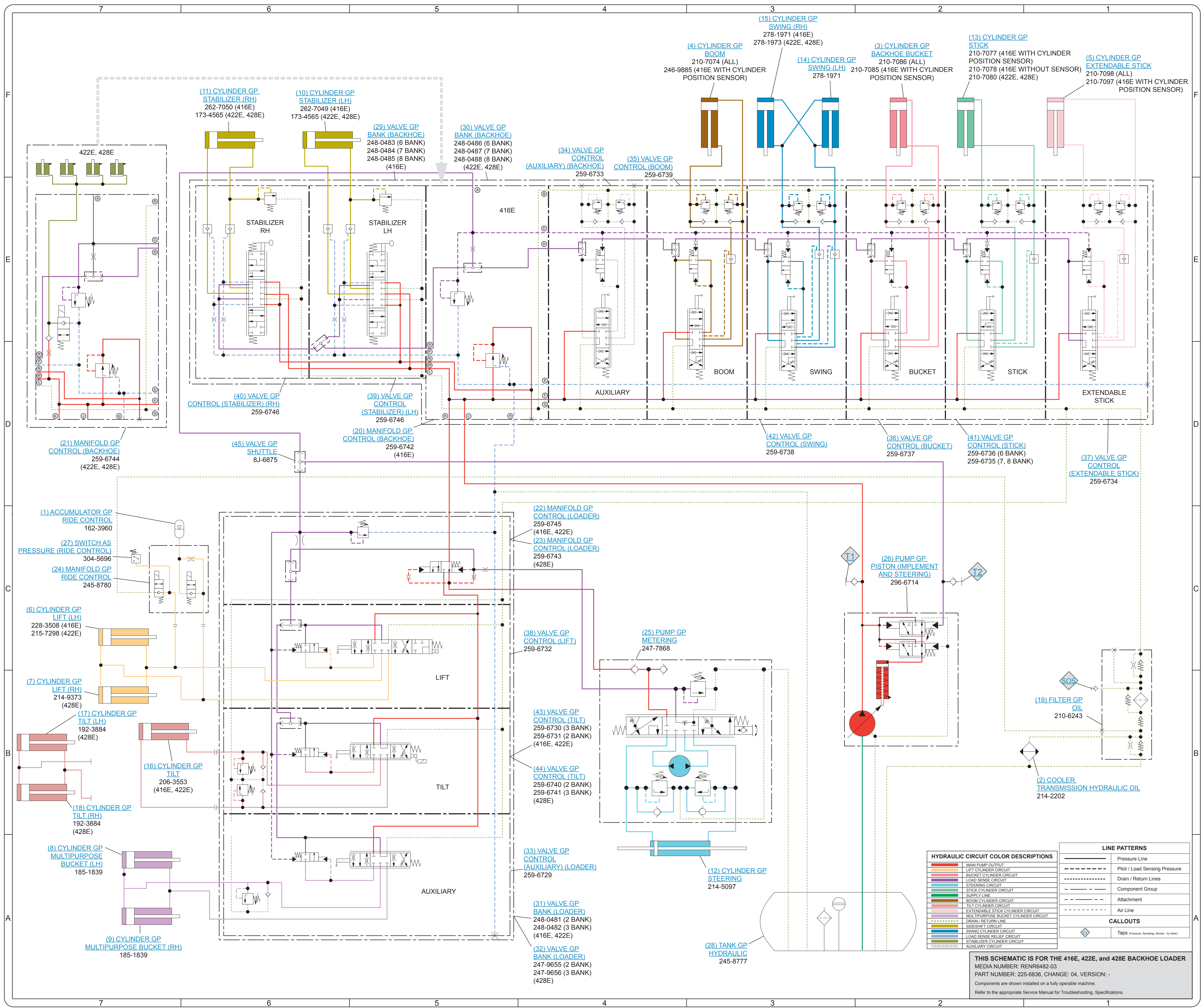
FUSE BLOCK

# PLATFORM OVERLAY WIRING (414E IL)



# SIDE CONSOLE OVERLAY WIRING (414E IL)





HYDRAULIC CIRCUIT COLOR DESCRIPTIONS	
Red	MAIN PUMP OUTPUT
Orange	LIFT CYLINDER CIRCUIT
Yellow	BUCKET CYLINDER CIRCUIT
Green	LOAD SENSE CIRCUIT
Blue	STEERING CIRCUIT
Light Blue	STICK CYLINDER CIRCUIT
Dark Blue	SUPPLY LINE
Light Green	BOOM CYLINDER CIRCUIT
Light Yellow	TILT CYLINDER CIRCUIT
Light Purple	EXTENDABLE STICK CYLINDER CIRCUIT
Light Cyan	MULTIPURPOSE BUCKET CYLINDER CIRCUIT
Light Magenta	DRAIN / RETURN LINE
Light Blue-Gray	SIDESHIFT CIRCUIT
Light Green-Gray	SWING CYLINDER CIRCUIT
Light Yellow-Gray	LOAD SENSE RELIEF CIRCUIT
Light Cyan-Gray	STABILIZER CYLINDER CIRCUIT
Light Magenta-Gray	AUXILIARY CIRCUIT

LINE PATTERNS	
—	Pressure Line
- - - - -	Pilot / Load Sensing Pressure
· · · · ·	Drain / Return Lines
— · — · — ·	Component Group
- · - · - · - ·	Attachment
- · - · - · - · - ·	Air Line

CALLOUTS	
◇	Taps (Pressure, Sampling, Sensor, by letter)

THIS SCHEMATIC IS FOR THE 416E, 422E, and 428E BACKHOE LOADER  
 MEDIA NUMBER: RENR6482-03  
 PART NUMBER: 225-6836, CHANGE: 04, VERSION: -  
 Components are shown installed on a fully operable machine.  
 Refer to the appropriate Service Manual for Troubleshooting, Specifications.

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