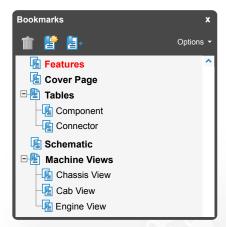
INTERACTIVE SCHEMATIC





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**.

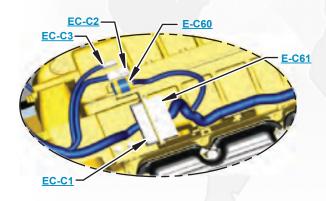
Select PROPERTIES.

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"		

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

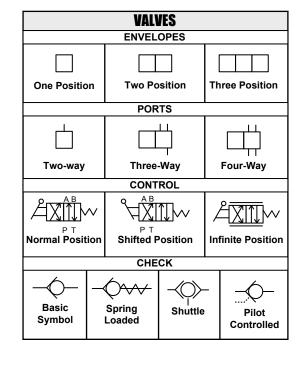
Click here to view the Schematic Symbols and Definitions page

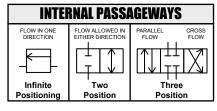
BASIC HYDRAULIC COMPONENT SYMBOLS		
Pump or Motor	Variability	
\rightarrow	₹*	
Fluid Conditioner	Spring (Adjustable)	

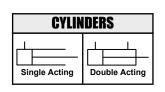


SCHEMATIC SYMBOLS AND DEFINITIONS

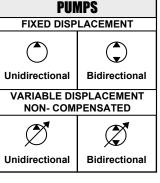


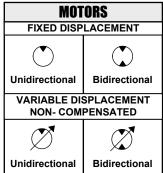


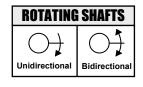


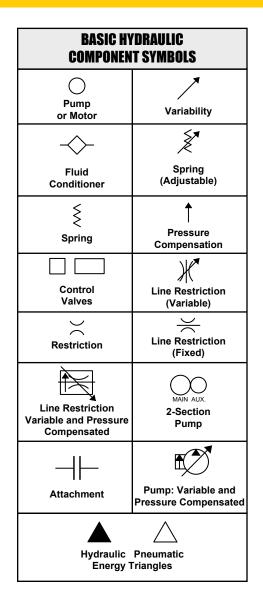


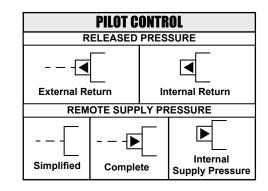
ACCUMULATORS			
Spring Loaded	Gas Charged		

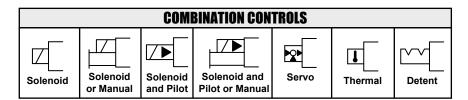


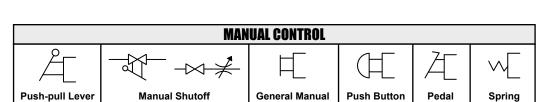


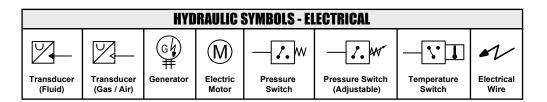


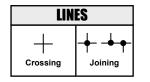


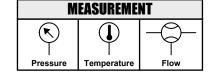


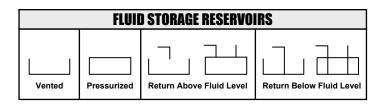


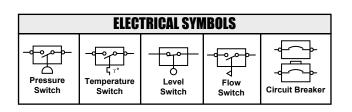


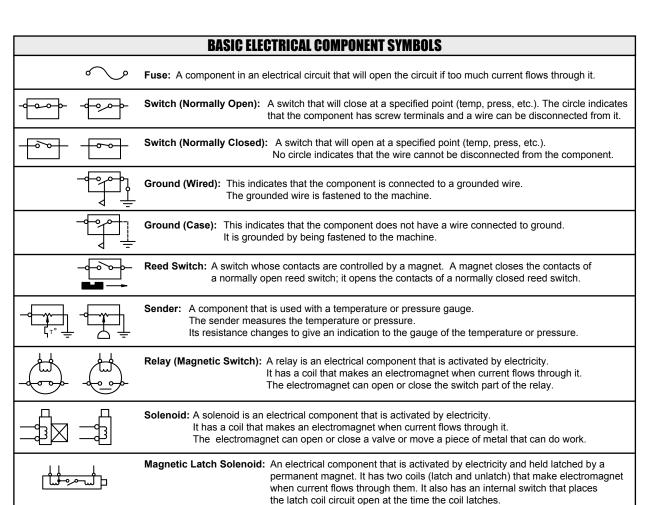


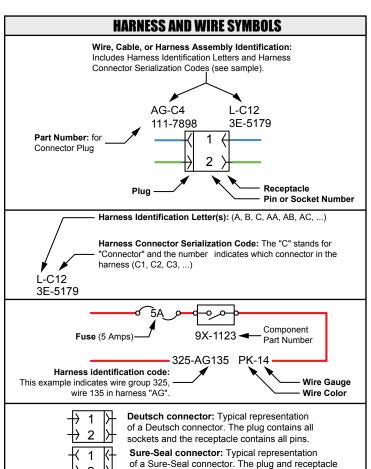












contain both pins and sockets.



Schematic

950H and 962H Wheel Loader Hydraulic System

950H: 962H: MXL1-UP SSA1-UP JLX1-UP PCW1-UP

COMPONENT TABLE



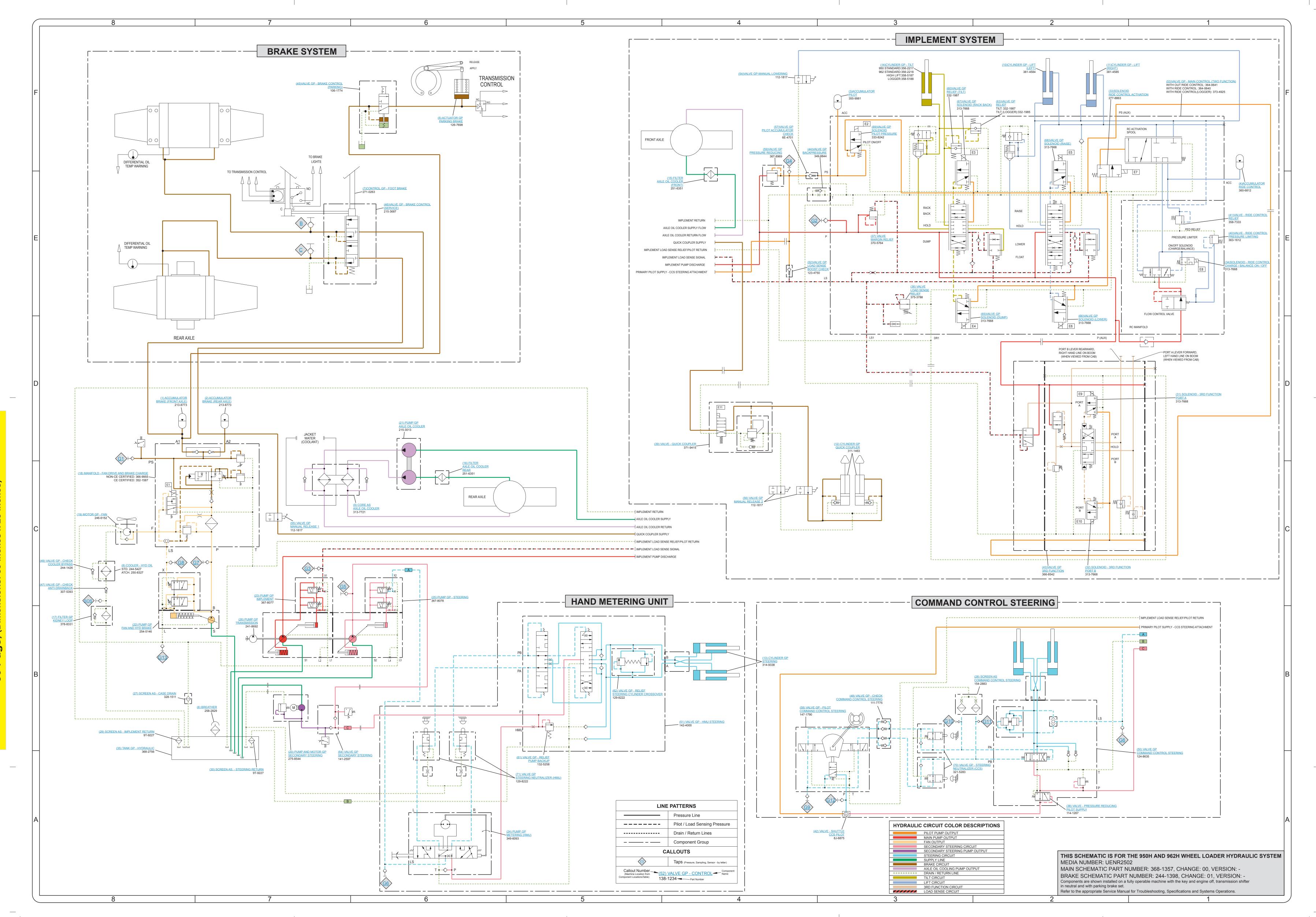
Component Loc	ation		
Description	Part	Machine	Schematic
Description	Number	Location	Location
Accumulator - Brake (Front Axle)	213-8773	1	<u>D-8</u>
Accumulator - Brake (Rear Axle)	213-8773	2	<u>D-7</u>
Accumulator - Pilot	355-9981	<u>3</u>	<u>F-3</u>
Accumulator - Ride Control	360-6812	4	<u>F-1</u>
Actuator GP - Parking Brake	126-7698	<u>5</u>	<u>F-6</u>
Breather	258-2829	<u>6</u>	<u>B-7</u>
Control GP - Foot Brake	217-0263	<u>7</u>	<u>E-6</u>
Cooler - Hyd Oil Standard Attachment	244-5427 250-8327	<u>8</u>	<u>C-8</u>
Core AS - Axle Oil Cooler	313-7721	9	C-7
Cylinder GP - Lift (Left)	381-4584	10	F-2
Cylinder GP - Lift (Right)	381-4585	11	F-2
Cylinder GP - Quick Coupler	311-1463	12	C-3
Cylinder GP - Steering	314-9338	13	<u>5-5</u> B-4
Cylinder GP - Tilt 950 Standard 962 Standard High Lift Logger	356-2217 356-2218 358-5187 358-5188	<u>14</u>	<u>F-3</u>
Filter - Axle Oil Cooler Front	251-6351	<u>15</u>	D-4
Filter - Axle Oil Cooler Rear	251-6351	<u>16</u>	<u>C-6</u>
Filter GP - Kidney Loop	378-8331	<u>17</u>	<u>B-8</u>
Manifold - Fan Drive and Brake Charge Non-CE Certified CE Certified	366-9955 352-1587	<u>18</u>	<u>C-8</u>
Motor GP - Fan	246-6152	19	<u>C-8</u>
Pump and Motor GP - Secondary Steering	275-8544	20	B-7
Pump GP - Axle Oil Cooler	215-3013	21	D-6
Pump GP - Fan and Hyd Brake	254-5146	22	B-8
Pump GP - Implement	367-8077	23	C-7
Pump GP - Metering (HMU)	349-6093	24	A-6
Pump GP - Steering	367-8078	25	B-6
Pump GP - Transmission	241-8692	<u>26</u>	<u>B-7</u>
Screen AS - Case Drain	328-1511	<u>27</u>	<u>B-8</u>
Screen AS - Command Control Steering	154-2883	<u>28</u>	<u>B-3</u>
Screen AS - Implement Return	9T-9227	<u>29</u>	<u>B-8</u>
Screen AS - Steering Return	9T-9227	<u>30</u>	<u>B-7</u>
Solenoid - 3rd Function Port A	313-7668	<u>31</u>	<u>D-1</u>
Solenoid - 3rd Function Port B	313-7668	<u>32</u>	<u>C-2</u>
Solenoid - Ride Control Activation	277-8863	<u>33</u>	<u>F-2</u>
Solenoid - Ride Control Charge / Balance On / Off	313-7668	<u>34</u>	<u>E-1</u>
Tank GP - Hydraulic	368-2756	35	A-8

Component Location			
Description	Part	Machine	Schematic
2000112011	Number	Location	Location
Valve - Load Sense Relief	375-3788	<u>36</u>	<u>E-3</u>
Valve - Margin Relief	370-5764	<u>37</u>	<u>E-3</u>
Valve - Pressure Reducing Pilot Supply	114-1267	<u>38</u>	<u>A-2</u>
Valve - Quick Coupler	371-9415	<u>39</u>	<u>D-4</u>
Valve - Ride Control Pressure Limiting	363-1612	<u>40</u>	<u>E-1</u>
Valve - Ride Control Relief	358-7333	<u>41</u>	<u>E-1</u>
Valve - Shuttle CCS Pilot	8J-6875	<u>42</u>	<u>A-3</u>
Valve GP - 3rd Function	366-8542	<u>43</u>	<u>C-2</u>
Valve GP - Backpressure	349-8844	<u>44</u>	<u>E-4</u>
Valve GP - Brake Control (Parking)	106-1774	<u>45</u>	<u>F-6</u>
Valve GP - Brake Control (Service)	215-3687	<u>46</u>	<u>E-6</u>
Valve GP - Check Anti-Drainback	307-5393	<u>47</u>	<u>C-8</u>
Valve GP - Check Command Control Steering	111-7775	<u>48</u>	<u>B-3</u>
Valve GP - Check Cooler Bypass	244-1426	<u>49</u>	<u>C-8</u>
Valve GP - Command Control Steering	124-8635	<u>50</u>	<u>A-2</u>
Valve GP - HMU Steering	142-4000	<u>51</u>	<u>B-4</u>
Valve GP - Load Sense Boost Check	123-4750	<u>52</u>	<u>E-4</u>
Valve GP - Main Control (Two Function) With Out Ride Control With Ride Control With Ride Control (Logger)	364-0641 364-0640 373-4925	<u>53</u>	<u>F-1</u>
Valve GP - Manual Lowering	112-1817	<u>54</u>	<u>F-4</u>
Valve GP - Manual Release 1	112-1817	<u>55</u>	<u>C-7</u>
Valve GP - Manual Release 2	112-1817	<u>56</u>	<u>C-4</u>
Valve GP - Pilot Accumulator Check	6E-4701	<u>57</u>	<u>E-4</u>
Valve GP - Pilot Command Control Steering	147-1790	<u>58</u>	<u>A-3</u>
Valve GP - Pressure Reducing	367-8969	<u>59</u>	<u>E-4</u>
Valve GP - Relief (Tilt)	332-1987	<u>60</u>	<u>F-3</u>
Valve GP - Relief Pump Backup	132-5258	<u>61</u>	<u>B-5</u>
Valve GP - Relief Steering Cylinder Crossover	129-8222	<u>62</u>	<u>B-5</u>
Valve GP - Relief Tilt Tilt (Logger)	332-1987 332-1985	<u>63</u>	<u>F-2</u>
Valve GP - Secondary Steering	141-2597	<u>64</u>	<u>B-7</u>
Valve GP - Solenoid (Dump)	313-7668	<u>65</u>	<u>D-3</u>
Valve GP - Solenoid (Lower)	313-7668	<u>66</u>	<u>E-2</u>
Valve GP - Solenoid (Rack Back)	313-7668	<u>67</u>	<u>F-3</u>
Valve GP - Solenoid (Raise)	313-7668	<u>68</u>	<u>F-2</u>
Valve GP - Solenoid Pilot Pressure	333-8242	<u>69</u>	<u>F-3</u>
Valve GP - Steering Neutralizer (CCS)	321-5283	<u>70</u>	<u>A-3</u>
Valve GP - Steering Neutralizer (HMU)	129-8222	<u>71</u>	<u>B-6</u>



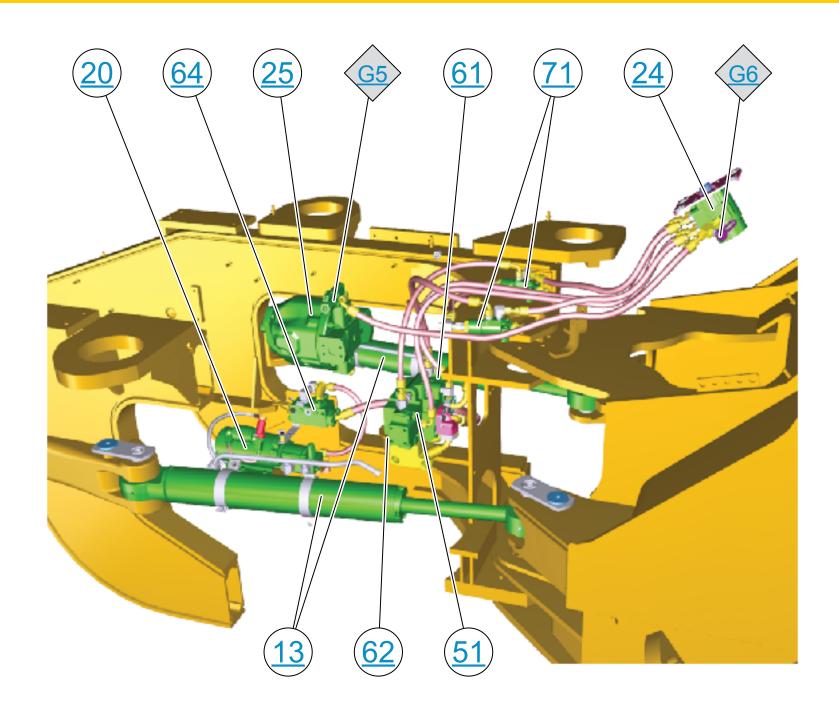
Tap Location Pressure and Sampling

Tap Number	Description	Schematic Location
<u>G1</u>	Brake Accumulator Pressure	<u>D-8</u>
<u>G2</u>	Implement Pump Discharge Pressure	<u>E-3</u>
<u>G3</u>	Implement Pump Load Sense Pressure	<u>C-7</u>
<u>G4</u>	Implement Pilot Pressure	<u>E-4</u>
<u>G5</u>	Steering Pump Discharge Pressure	<u>C-7</u>
<u>G6</u>	Steering Pump Load Sense Pressure	<u>B-2, A-6</u>
<u>G7</u>	Fan Pump Discharge Pressure	<u>C-7</u>
<u>G8</u>	Fan Pump Load Sense Pressure	<u>C-7</u>
<u>G9</u>	CCS Steering Neutral Pilot Pressure	<u>A-2</u>
<u>G10</u>	CCS Steering Left Pilot Pressure	<u>B-3</u>
<u>G11</u>	CCS Steering Right Pilot Pressure	<u>B-2</u>
<u>G12</u>	CCS Steering Resolved Pilot Pressure	<u>A-3</u>
<u>G13</u>	Case Drain Air Bleed	<u>B-8</u>
<u>B</u>	Front Brake Pressure	<u>E-7</u>
<u>C</u>	Rear Brake Pressure	<u>E-7</u>
SOS	Scheduled Oil Sampling	<u>C-8</u>



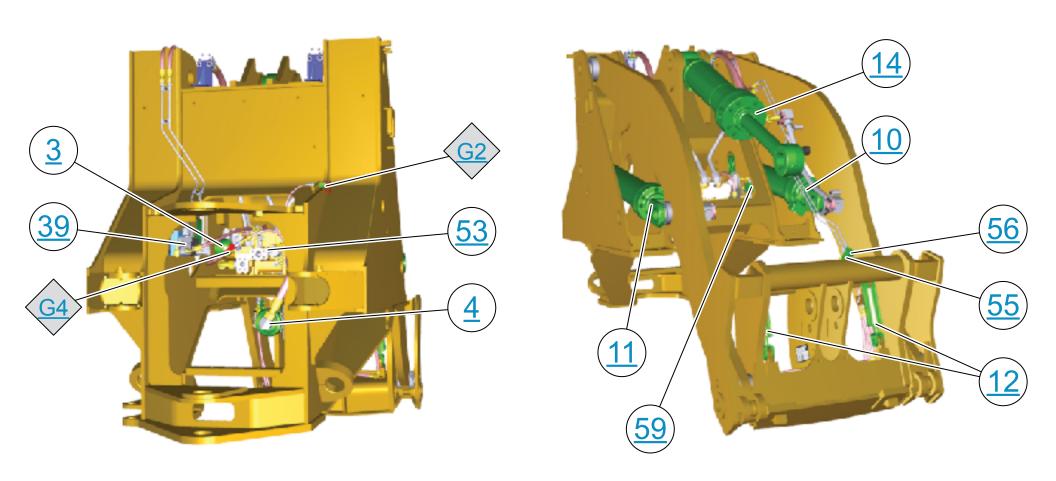
HAND METERING UNIT



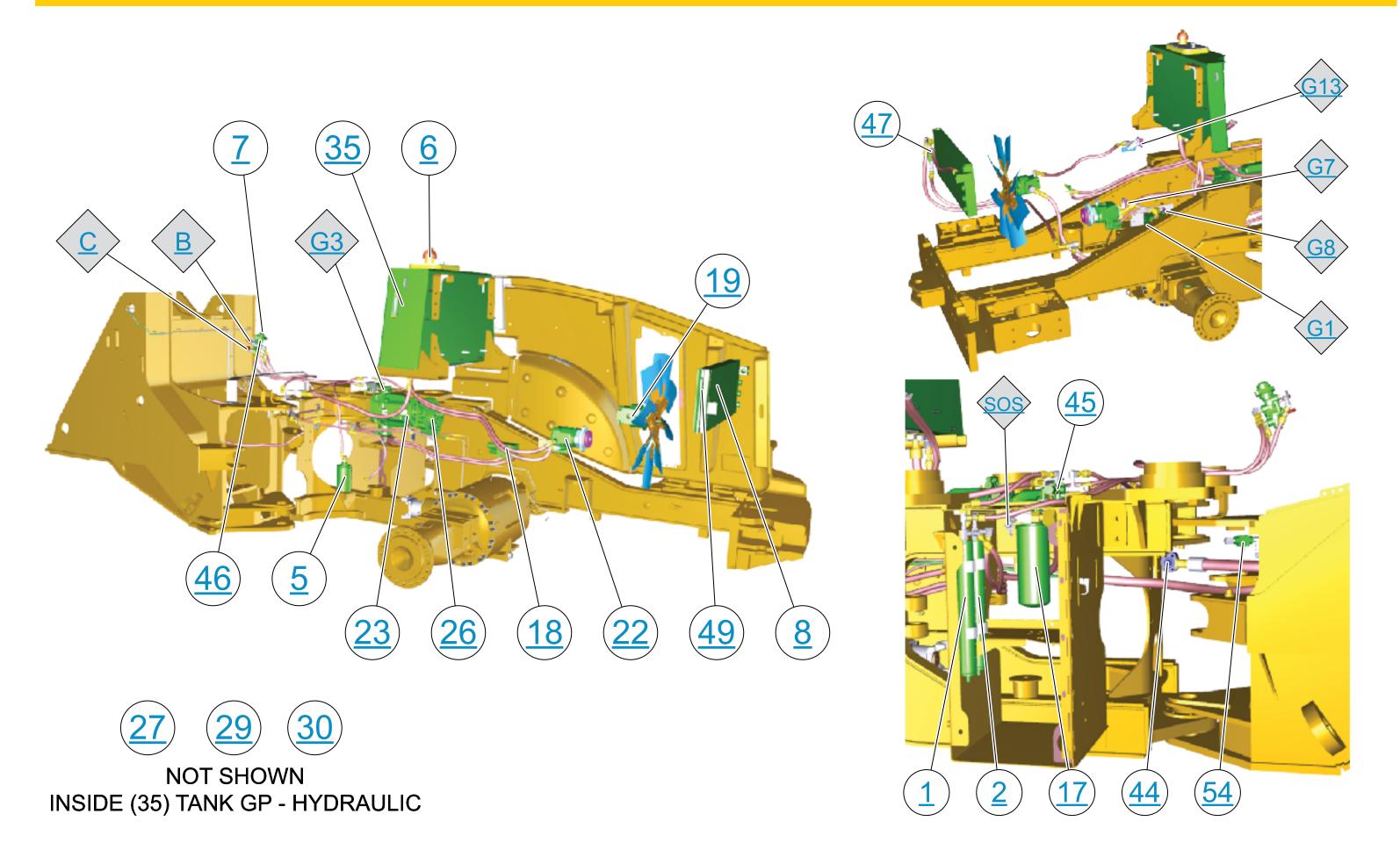


FRONT OF FRAME



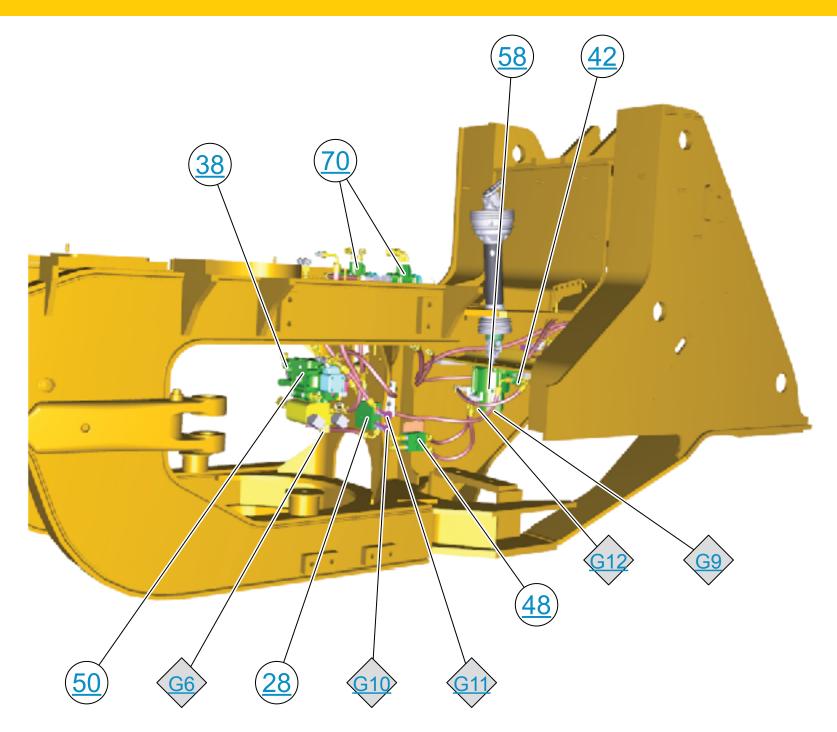




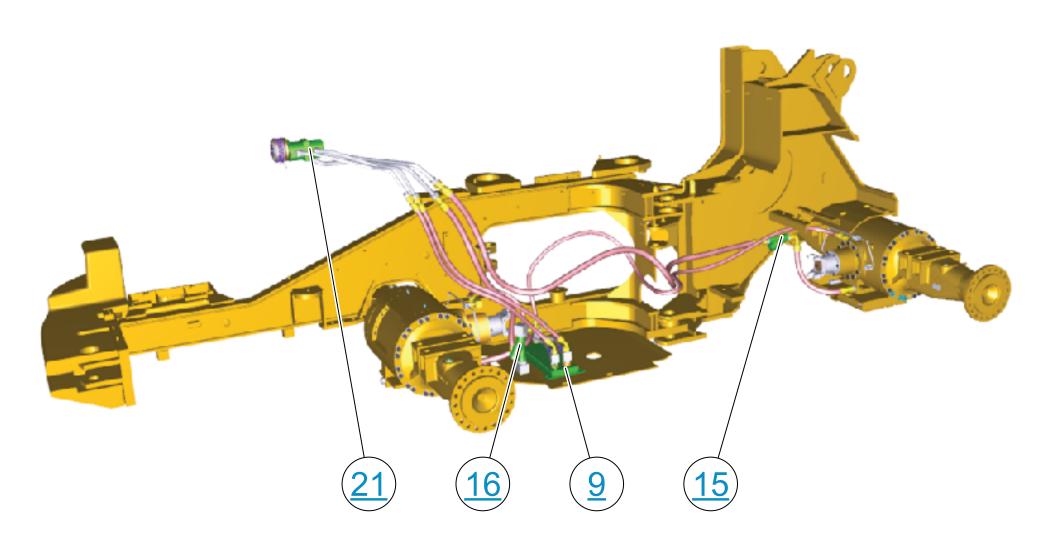


COMMAND CONTROL STEERING









MAIN CONTROL VALVE



