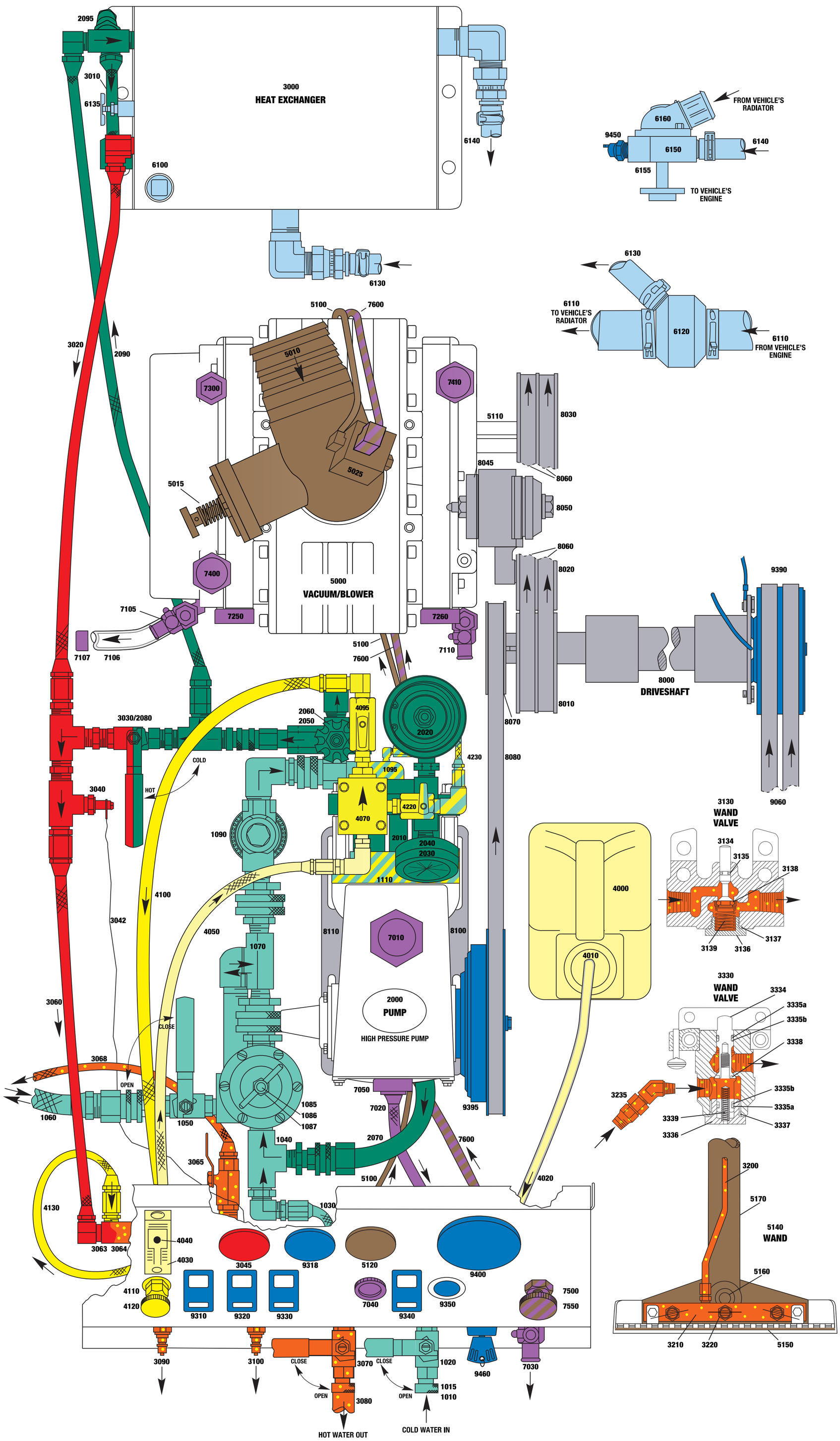

COLD WATER • LOW PRESSURE SYSTEM

- **1010** Cold Water Inlet Connection
- ▶ **1015** Inlet Strainer *(not shown)*
- **1020** Cold Water Inlet Valve
- **1030** Braided Hose from Cold Water Inlet Valve (1020)
- **1040** Junction of Unloader Return Bypass Hose (2070)
- **1050** Ball Valve-*controls flow of water to and from Fresh Water Holding Tank (if so equipped)*
- **1060** Braided Hose to and from Fresh Water Holding Tank
- **1070** Junction-*water to and from Fresh Water Holding Tank and to Pump*
- **1085** Water Pressure Reducing Valve
- **1086** Inlet Water Pressure Adjustment (pre-set) no adjustment necessary
- **1087** Lock Nut-*secures adjustment of (1086)*
- ▶ **1090** Inlet Water Strainer (Housing)-*Strainer (not shown)*
- **1095** Inlet Water Elbow (see 4230)
- **1110** Inlet Water Manifold-*part of Pump*

COLD WATER • HIGH PRESSURE SYSTEM

- **2000** Pump-*High Pressure Pump*
- **2010** Pump Cylinders (3)
- **2020** Pulsation Dampener-*no adjustment necessary*
- **2030** High Pressure Gauge-*should only read when system is operating and Wand Valve (Trigger) activated*
- **2040** Quick Disconnect (*not shown*), *for easy removal of High Pressure Gauge (2030) during Winterizing Procedure*
- **2050** Unloader (High Pressure Unloader)
- **2060** Pressure Adjustment Knob-*adjust only when Wand Valve (Trigger) is activated*
- **2070** Unloader Return (bypass) Hose-*returns water to Junction (1040) Low Pressure System when Wand Valve (Trigger) is not activated*
- **2080** Temperature Adjusting Ball Valve (see 3030)
- **2090** Braided Hose to Pressure Relief Valve (2095)
- **2095** Pressure Relief Valve-*will discharge water under vehicle if pressure exceeds 1,200 PSI-DO NOT ADJUST*

HOT WATER • HIGH PRESSURE SYSTEM

- **3000** Heat Exchanger-*where water is circulated through a series of coils that have been heated by the anti-freeze/coolant of the vehicle's engine* (see 6100 through 6160)
- **3010** Heat Exchanger Crossover Hose
- **3020** Braided Hose from Heat Exchanger (3000)
- **3030** Temperature Adjusting Ball Valve (see 2080)
- **3040** Temperature Sending Unit-*senses water temperature*
- **3042** Wire, Temperature Sending Unit-*to Temperature Gauge (3045)*
- **3045** Water Temperature Gauge-*displays temperature at Sending Unit (3040), read only when system is operating and Wand Valve (Trigger) activated*
- **3060** Braided Hose to Panel Manifold (3064)

HOT WATER with DETERGENT HIGH PRESSURE SYSTEM

- **3063** Junction, detergent and hot water mixing
- **3064** Panel Manifold-*supplies (3065), (3070), (3090) and (3100)*
- **3065** Ball Valve, to High Pressure Hose Reel *(if so equipped)*
- **3068** Braided Hose to High Pressure Hose Reel *(if so equipped)*
- **3070** Hot Water Convenience Valve-*also relieves pressure from entire system*
- **3080** Hot Water Convenience Hose
- **3090** Quick Connect-*connection for High Pressure Hose*
- **3100** Quick Connect-*connection for High Pressure Hose*
- **3130** Wand Valve *(see also 3330 if so equipped)*
- **3134** Plunger Stem-*opens and closes water flow to jet(s) shown in the closed (OFF) position*
- **3135** O-Ring-*seals Stem (3134)*
- **3136** Cap, *Stem access*
- **3137** O-Ring-*seals Cap (3136)*
- **3138** O-Ring-*seals water flow to Jet(s)*
- **3139** Spring-*returns Plunger Stem (3134) to the closed (OFF) position*
- **3200** Pressure Tubing from Wand Valve to Manifold (3210)
- **3210** Wand Manifold
- **3220** Jets (3)-*note angle positioning*
- ▶ **3235** In-Line Filter- *located at Inlet of Wand Valves (3130 and 3330)*
- **3330** Wand Valve *(see also 3130 if so equipped)*
- **3334** Stem
- **3335a** Teflon Backer Rings (2), *on Stem*
- **3335b** O-Rings (2), *on Stem*
- **3336** Cap, *Stem access*
- **3337** O-Ring-*seals Cap (3336)*
- **3338** Seat, Teflon
- **3339** Spring, Stem

DETERGENT PUMP • SUCTION AND HIGH PRESSURE SYSTEM

- **4000** Detergent Container
- ▶ **4010** Strainer *(not shown), located at end of Hose (4020) in Container (4000)*
- **4020** Hose-*from Detergent Container to inlet of Detergent Flow Meter (4030)*
- **4030** Detergent Flow Meter
- **4040** Indicator Ball-*indicates when system is flowing detergent*
- **4050** Braided Hose-*from outlet of Detergent Flow Meter to inlet of Detergent Pump (4070)*
- **4070** Detergent Injection Pump
- **4095** Instant ON/OFF Valve-*to turn OFF detergent flow when not desired*-shown in the open (ON) position
- **4100** Braided Hose-*to Detergent Flow Control Valve (4110)*
- **4110** Detergent Flow Control Valve
- **4120** Detergent Flow Control Adjustment Knob-*DO NOT use to shut flow OFF*
- **4130** Braided Hose-*from Detergent Flow Control Valve to Junction (3063)*
- **4220** Detergent Pump Bleeder Valve-*shown in the closed (OFF) position*
- **4230** Braided Hose-*from Detergent Pump Bleeder Valve (4220) to Inlet Water Elbow (1095) and Inlet Water Manifold (1110)*

VACUUM SYSTEM

- **5000** Vacuum/Blower
- **5010** Vacuum Elbow with Barb and Vacuum Relief Valve Port
- ▶ **5015** Vacuum Relief Valve-*(may be located on Recovery Tank) DO NOT ADJUST*
- **5025** Vacuum Junction Block
- **5100** Vacuum Hose-*from Vacuum Junction Block (5025) to Vacuum Gauge (5120) at Instrument Panel*
- **5110** Vacuum/Blower Pulley Shaft
- **5120** Vacuum Gauge
- **5140** Wand (3 Jet Wand shown)
- ▶ **5150** Vacuum Opening
- ▶ **5160** Clean Out Plug
- ▶ **5170** Wand Vacuum Tube

HEAT TRANSFER SYSTEM

- **6100** Coolant Fill Plug
- **6110** Vehicle's Upper Radiator Hose
- **6120** Coolant Wye-*inserted in Upper Radiator Hose (6110) in vehicle's engine compartment*
- **6130** Hose-*from Coolant Wye (6120) to Heat Exchanger (3000)*
- **6135** Air Bleed Valve-*located on Heat Exchanger (3000)*
- **6140** Return Hose-*from Heat Exchanger (3000) to Coolant Bypass Adapter (6150)*
- **6150** Coolant Bypass Adapter-*installed in lower radiator hose (not shown) in vehicles engine compartment*
- **6155** Thermostat-*(not shown) relocated from vehicle's engine to Thermostat Inlet Neck (6160)*
- **6160** Thermostat Inlet Neck-*relocated from vehicle's engine to Coolant Bypass Adapter (6150)*

LUBRICATION and SERVICE POINTS

PUMP-HIGH PRESSURE PUMP

- **7010** Filler Cap
- **7020** Braided Hose-*to Oil Drain Valve (7030) located on Instrument Panel*
- **7030** Oil Drain Valve
- ▶ **7040** Oil Level Indicator Viewing Port
- ▶ **7050** Oil Level Indicator-*located on Pump*

VACUUM/BLOWER

- **7105** Gearcase Drain Valve
- **7106** Drain Valve Extension Hose
- **7107** Cap-*for Drain Hose Extension (7106)*
- **7110** Gearcase Drain Valve
- ▶ **7250** Oil Level Indicator
- ▶ **7260** Oil Level Indicator
- **7300** Gearcase Vent
- **7400** Gearcase Fill Cap
- **7410** Crankcase Fill Cap
- ▶ **7500** Vacuum/Blower Service Port-*access by removing Knob (7550)-located on Instrument Panel*
- **7550** Knob (Service Port)
- **7600** Hose-*from Vacuum/Blower Service Port (7500) to Vacuum Junction Block (5025)*

SHAFT DRIVE SYSTEM

- **8000** Drive Shaft-*driven by Vehicle's engine*
- **8010** Drive Pulley-for Vacuum/Blower *(2 groove)*
- **8020** Tensioner Pulley (*2 groove)*
- **8030** Drive Pulley on Vacuum/Blower *(2 groove)*
- **8045** Tensioner Mounting Plate
- **8050** Tensioner-*self tensioning*
- ▶ **8060** 2 "V" Belts *(matched),* to Drive Pulley (8030) on Vacuum/Blower
- **8070** Drive Pulley for Pump *(single groove)*
- ▶ **8080** "V" Belt-*to Electric Clutch (9395) on Pump*
- **8100** Tension Rail for "V" Belt on Pump
- **8110** Tension Rail for "V" Belt on Pump
- ▶ **9060** 2 "V" Belts *(matched),* in vehicle's engine compartment

12V ELECTRICAL SYSTEM

- **9310** Switch, Engage System
- **9318** Hour Meter
- **9320** Switch, Engage Pump
- **9330** Switch, Engage Speed Control-Low, Normal, and High Speed
- **9340** Switch, Auxiliary Power
- **9350** 12v Auxiliary Power Socket-*second 12v Twist Lock Receptacle at rear of Recovery Tank*
- **9390** Electric Clutch-*located on Driveshaft (8000) in vehicle's engine compartment*
- **9395** Electric Clutch-*located on Pump* (2000)
- **9400** Tachometer-*indicates Revolutions Per Minute (RPM) of vehicle's engine*
- **9450** Engine Overheat Sensor Switch-*located at Coolant Bypass Adapter* (6150)
- **9460** Key Activated ON-OFF Switch

▶ *INDICATES ITEMS REQUIRING ROUTINE CHECKS, MAINTENANCE, AND SERVICE.*

NOTICE: FOR PARTS AND/OR COMPONENTS THAT ARE NOT SHOWN, PLEASE CALL THE BUTLER CORPORATION FOR ASSISTANCE.

the butler System

251 MOODY STREET • LUDLOW, MASSACHUSETTS 01056

800.535.5025 • 413.547.8557 • butlersystem.com

©The Butler Corporation Revised December 2024