

- COLD WATER • LOW PRESSURE SYSTEM**
- 1010 Cold Water Inlet Connection
  - 1015 Cold Water Inlet Strainer (not shown)
  - 1020 Cold Water Inlet Valve
  - 1030 Braided Hose from Cold Water Inlet Valve (1020)
  - 1040 Junction of Unloading 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
  - 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 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-must only be adjusted when Wand Trigger is activated
  - 2070 Unloader Return (bypass) Hose-returns water to Junction (1040) Cold Water/Low Pressure System when Wand Trigger is not activated
  - 2080 Temperature Adjusting Ball Valve (see 3030)
  - 2090 Braided Hose to Pressure Relief Valve (2095)
  - 2095 Pressure Relief Valve (not shown) DO NOT ADJUST-will discharge water under Van if pressure exceeds 1,000 PSI

- 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 Van's Engine (see 6020 through 6040)
  - 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), only read when system is operating and Wand Trigger activated
  - 3060 Braided Hose to Panel Manifold (3064)

- HOT WATER with CHEMICAL HIGH PRESSURE SYSTEM**
- 3063 Chemical and Hot Water Mixing Junction
  - 3064 Panel Manifold-supplies (3065), (3070), (3090) and (3100) Valve, to High Pressure Hose Reel (if so equipped)
  - 3065 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 (Trigger Valve) on Wand Shaft
  - 3134 Plunger Stem-opens and closes water flow to jet(s) shown in the closed (OFF) position
  - 3135 O-Ring-seals Stem (3134)
  - 3136 Nut, Stem Access
  - 3137 O-Ring-seals Nut (3136)
  - 3138 O-Ring-seals water flow to Jet(s)
  - 3139 Spring-returns Plunger Stem (3134) to the closed (OFF) position
  - 3200 Line from Wand Valve to Manifold (3210)
  - 3210 Wand Manifold
  - 3220 Jets (3)-please note angle positioning
  - 3230 Filters attached to Jets (not shown)
  - 3235 In-Line Filter (not shown) located at inlet of Single Jet Wand and Stair Tool Valve (if so equipped)

- CHEMICAL INJECTION SYSTEM**
- 4000 Chemical Container
  - 4010 Strainer (not shown), located at end of Chemical Hose (4020) in the Chemical Container (4000)
  - 4020 Chemical Hose-from Chemical Container to CPC Fitting (4025) at Inlet of Chemical Flow Meter (4030)
  - 4025 CPC Fitting-disconnect (not shown)
  - 4030 Chemical Flow Meter
  - 4040 Indicator Ball-indicates when System is flowing Chemical
  - 4050 Braided Hose-from Outlet of Chemical Flow Meter to Inlet of Pulse Pump (4070)
  - 4060 Check Valve (Inlet)
  - 4070 Pulse Pump (Chemical Pump)
  - 4090 Check Valve (Outlet)
  - 4095 Instant ON/OFF Valve-to turn OFF Chemical flow when not desired Shown in the OPEN (ON) position
  - 4100 Braided Hose-to Chemical Flow Control Valve (4110)
  - 4110 Chemical Flow Control Valve

- 4120 Chemical Flow Control Valve Adjustment Knob-DO NOT use to shut flow OFF
- 4130 Braided Hose-from Chemical Flow Control Valve to Junction (3063)
- 4220 Pulse Pump Bleeder Valve
- 4230 Braided Hose-from Pulse Pump Bleeder Valve (4220) to Inlet Water Elbow (1095)


- VACUUM SYSTEM and R.P.M. CONTROL**
- 5000 Vacuum/Blower
  - 5010 Vacuum Elbow and Barb Assembly
  - 5025 Vacuum Junction Block
  - 5030 Vacuum Hose-from Vacuum Junction Block (5025) to Vacuum Tee (5032)
  - 5032 Vacuum Tee
  - 5035 Normal Speed Actuator Solenoid
  - 5040 Normal Speed Actuator
  - 5042 Normal Speed Actuator Adjuster
  - 5045 High Speed Actuator Solenoid (Mach II)
  - 5050 High Speed Actuator (Mach II)
  - 5052 High Speed Actuator (Mach II) Adjuster
  - 5090 Chain Harness Assembly
  - 5092 Speed Control Arm
  - 5095 Cable Assembly, R.P.M. Control-operates fuel management throttle arm on Vans engine
  - 5100 Vacuum Hose-from Vacuum Junction Block (5025) to Vacuum Gauge (5120) at Instrument Panel
  - 5110 Vacuum/Blower Pulley Shaft
  - 5120 Vacuum Gauge-indicates the in Hg (inches of Mercury) of Vacuum measured at Vacuum Junction Block (5025)
  - 5130 Tachometer-indicates Revolutions Per Minute (RPM) of the Van's engine-can be adjusted by turning Actuator Adjusters (5042 & 5052)
  - 5140 Wand (3 Jet Wand shown)
  - 5150 Vacuum Opening
  - 5160 Clean Out (Air Inlet) Plug
  - 5170 Wand Tubing

- HEAT TRANSFER SYSTEM**
- 6020 Remote Thermostat Housing-inserted in Van's upper radiator hose in Van's Engine Compartment \*Model Year 2003 and Newer--see NOTICE
  - 6025 Thermostat-relocated from the Van's engine into Remote Thermostat Housing (6020)
  - 6030 Heat Transfer Supply Hose-from Remote Thermostat Housing (6020) to Heat Exchanger (3000)
  - 6035 Air Bleed Valve-located on Heat Exchanger (3000)
  - 6040 Heat Transfer Return Hose-from Heat Exchanger (3000) to Return Tee (not shown) in lower radiator hose of Van's engine

- LUBRICATION, GREASE and SERVICE POINTS**
- 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
- VACUUM/BLOWER**
- 7060 Grease Fitting
  - 7070 Grease Fitting
  - 7016 Grease Vent
  - 7017 Grease Vent
  - 7105 Gearcase Drain Valve
  - 7106 Drain Valve Extension Hose
  - 7200 Oil Level Tube
  - 7250 Oil Level Indicator (not shown)
  - 7300 Gearcase Vent
  - 7400 Gearcase Fill Cap
  - 7450 Gearcase Fill Port-access by removing Fill Cap (7400)
  - 7500 Blower Maintenance Port-access by removing Knob (7550)
  - 7550 Knob (Blower Maintenance Port)
  - 7600 Hose (Blower Maintenance Port)-from Blower Maintenance Port (7500) to Vacuum Junction Block (5025)

- BUTLER DRIVE SHAFT SYSTEM**
- 8000 Drive Shaft-driven by Van's engine
  - 8010 Drive Pulley, Vacuum Blower (2 groove)
  - 8020 Tensioner Pulley (2 groove)
  - 8030 Driven Pulley, Vacuum Blower (2 groove)
  - 8045 Tensioner Offset Plate
  - 8050 Tensioner-self tensioning
  - 8060 2 "V" Belts (matched), Vacuum Blower
  - 8070 Drive Pulley for Pump (single groove)
  - 8080 "V" Belt-to Electric Clutch (9395) on Pump
  - 8100 Tension Rail, "V" Belt (Pump)
  - 8110 Tension Rail, "V" Belt (Pump)
  - 9060 2 "V" Belts (matched), Front Drive Belts in Van's Engine Compartment

- 12V ELECTRICAL SYSTEM**
- 9310 Switch, Engage System
  - 9315 Breaker for Engage System
  - 9318 Hour Meter
  - 9320 Switch, Engage Pump
  - 9325 Breaker for Engage Pump
  - 9330 Switch, Engage Speed Control
  - 9335 Normal and High Speed (Mach II)
  - 9340 Switch, Auxiliary Power
  - 9345 Breaker for Auxiliary Power
  - 9350 Outlet for Auxiliary Power-second outlet at rear of Recovery Tank
  - 9390 Electric (Front) Clutch, located on Driveshaft (8000)-in Van's engine compartment
  - 9395 Electric Clutch, located on Pump (2000)
  - 9455 Engine Overheat Reset
  - 9460 Key Activated ON-OFF Switch (not shown)


**the butler System**  
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