



- 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 Cat 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
 - 1110 Inlet Water Manifold-part of Cat Pump

- COLD WATER • HIGH PRESSURE SYSTEM**
- 2000 Cat Pump-High Pressure Pump
 - 2010 Pump Cylinders (3)
 - 2020 Pulsation Dampener-no adjustment necessary
 - 2030 High Pressure Gauge-will 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-DO NOT ADJUST-will discharge water under Van if pressure exceeds 1,000 PSI (not shown)

- 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 Vans Engine (see 6020-6040)
 - 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 (3070), (3090), (3100) and (3065) Valve, to High Pressure Hose Reel (if so equipped)
 - 3066 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 located at inlet of Single Jet Wand and Stair Tool Valve-not shown (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 Inlet of Chemical Flow Meter (4030)
 - 4030 Chemical Flow Meter
 - 4040 Indicator Ball-reads when System is injecting Chemical
 - 4050 Chemical Hose, from Outlet of Chemical Flow Meter to Inlet of Pulse Pump (4070)
 - 4055 CPC Fitting-disconnect
 - 4060 Check Valve (Inlet)
 - 4070 Pulse Pump (Chemical Pump)
 - 4080 Chemical Pump Bleeder
 - See Owner's Manual for Bleeding/Priming procedure
 - 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)

- VACUUM SYSTEM and R.P.M. CONTROL**
- 5000 Vacuum Blower
 - 5010 Barb-to connect Vacuum Hose from Recovery Tank to Vacuum Blower
 - 5020 90° Elbow
 - 5030 Vacuum Hose-from 90° Elbow (5020) to Low Speed Actuator (5040)
 - 5040 Low Speed Actuator
 - 5042 Adjustment, Low Speed Actuator
 - 5045 High Speed Actuator Solenoid (Mach II)
 - 5050 High Speed Actuator (Mach II)
 - 5052 Adjustment, High Speed Actuator (Mach II)
 - 5090 Chain Harness
 - 5095 Cable Assembly, R.P.M. Control-operates fuel management throttle arm on Vans engine
 - 5100 Vacuum Hose-from 90° Elbow (5020) to Vacuum Gauge (5120) at Instrument Panel
 - 5110 Vacuum Blower Pulley Shaft
 - 5120 Vacuum Gauge-indicates the In Hg (inches of Mercury) of Vacuum System, as measured at the 90° Elbow (5020)
 - 5130 Tachometer-indicates Revolutions Per Minute (RPM) of the Van's engine-can be changed by adjusting 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 Vans upper radiator hose
 - 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**
- CAT PUMP**
- 7010 Filler Cap
 - 7020 Braided Hose-to Oil Drain Valve at 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 90° Elbow (5020) to Blower Maintenance Port (7500)

- 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 CAT Pump (single groove)
 - 8080* "V" Belt-to Electric Clutch (9395) on CAT Pump
 - 8100 Tension Rail, "V" Belt (CAT Pump)
 - 8110 Tension Rail, "V" Belt (CAT Pump)
 - 9060* 2 "V" Belts (matched), Front Drive Belts

- 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 Mach II
 - 9335 Breaker for Engage 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 Cat Pump (2000)
 - 9455 Engine Overheat Reset

the butler System

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*INDICATES PARTS REQUIRING ROUTINE MAINTENANCE, CHECKS AND SERVICE.