

H.O.PENN



Service Information System

Previous Screen

< Product: COLD PLANER
 Model: PC6 COLD PLANER AKS
 Configuration: PC6 PC9 Cold Planer AKS00001-UP (MACHINE)

Systems Operation

PC6 and PC9 Cold Planers Work Tool Systems

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BURTON - 9-6865 i01394849
 CAT VALVE PN
 155 5569

Hydraulic System

SMCS - 5050

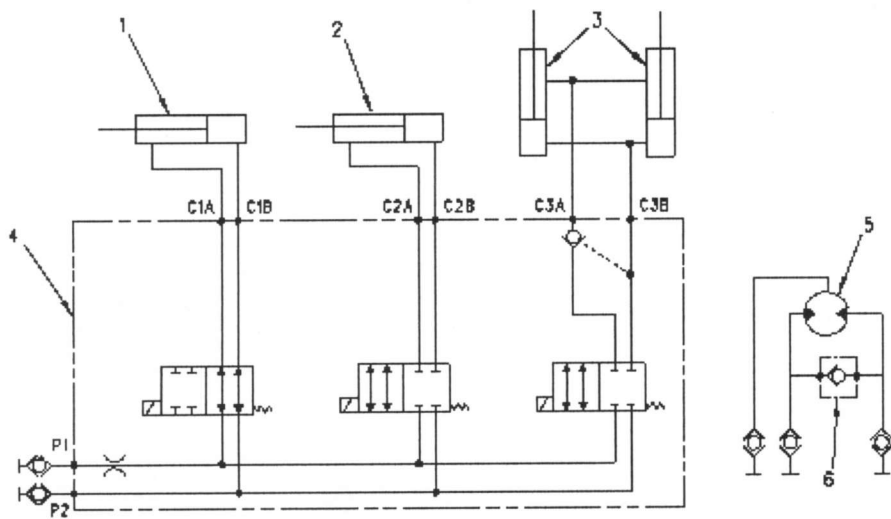


Illustration 1

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- (1) Sideshift cylinder
- (2) Tilt cylinder
- (3) Depth cylinders
- (4) Control valve
- (5) Piston motor

(6) Check valve

(C1A) Port to the rod end of the sideshift cylinder

(C1B) Port to the head end of the sideshift cylinder

(C2A) Port to the rod end of the tilt cylinder

(C2B) Port to the head end of the tilt cylinder

(C3A) Port to the rod end of the depth cylinders

(C3B) Port to the head end of the depth cylinders

(P1) Inlet port for normal flow

(P2) Inlet port for reverse flow

Drive System

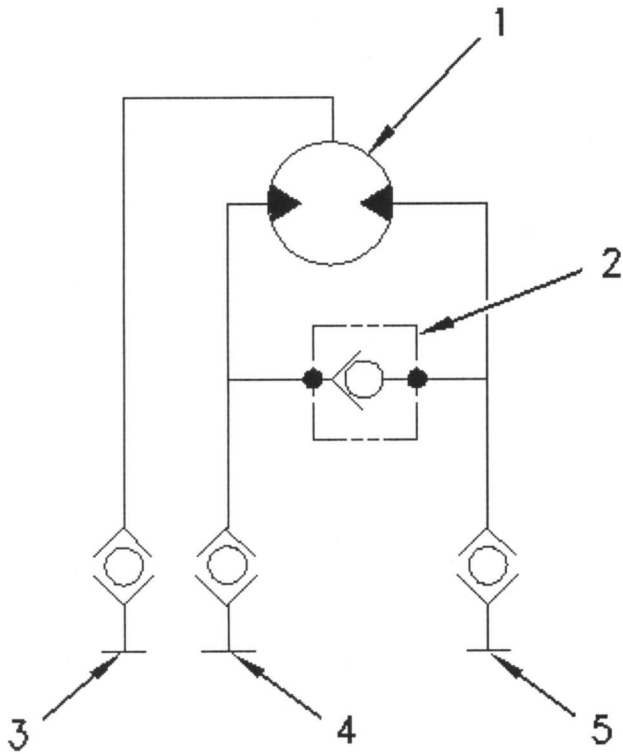


Illustration 2

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- (1) Piston motor
- (2) Check valve
- (3) Case drain hose
- (4) Upper high flow hydraulic hose
- (5) Lower high flow hydraulic hose

When oil is supplied by the host machine through lower high flow hydraulic hose (5), the oil flows to check valve (2) and the oil seats the check valve. At the same time, the oil flows to the front port of piston motor (1). The oil flows through the motor and the oil flow causes the motor to rotate counterclockwise when you view the motor from the shaft end. Then, the oil flows from the rear port of the piston motor back to the host machine through upper high flow hydraulic hose (4). Any internal leakage within the motor returns back to the host machine through case drain hose (3).

When the operator stops the oil flow, the inertia of the cutting wheel causes the motor to continue rotation. Oil flow from the output of the motor opens check valve (2) and oil flow replenishes the oil supply on the input side of the motor until the cutting wheel comes to a stop.

When oil is supplied by the host machine through upper high flow hydraulic hose (4), the oil flows to check valve (2) and to piston motor (1). Since the check valve has less resistance, the check valve opens. Then, the oil flows through the check valve and the oil flows back to the host machine through lower high flow hydraulic hose (5).

Sideshift System
