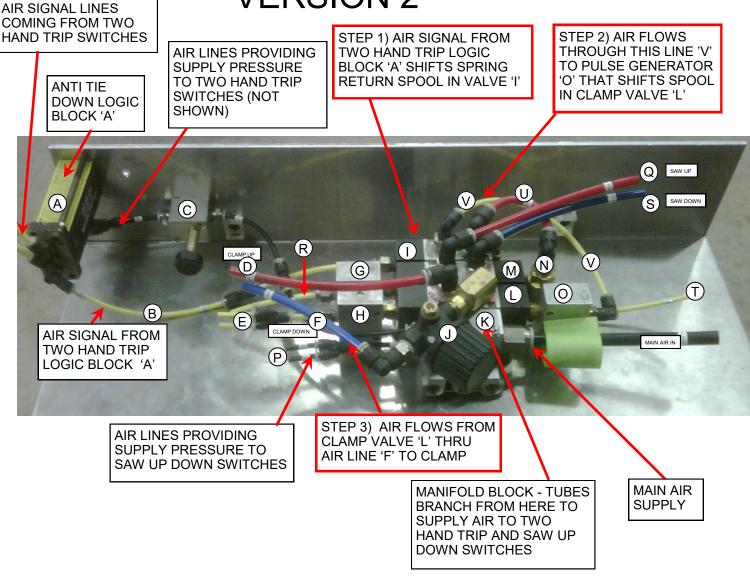


Cyclone 500 Air Logic

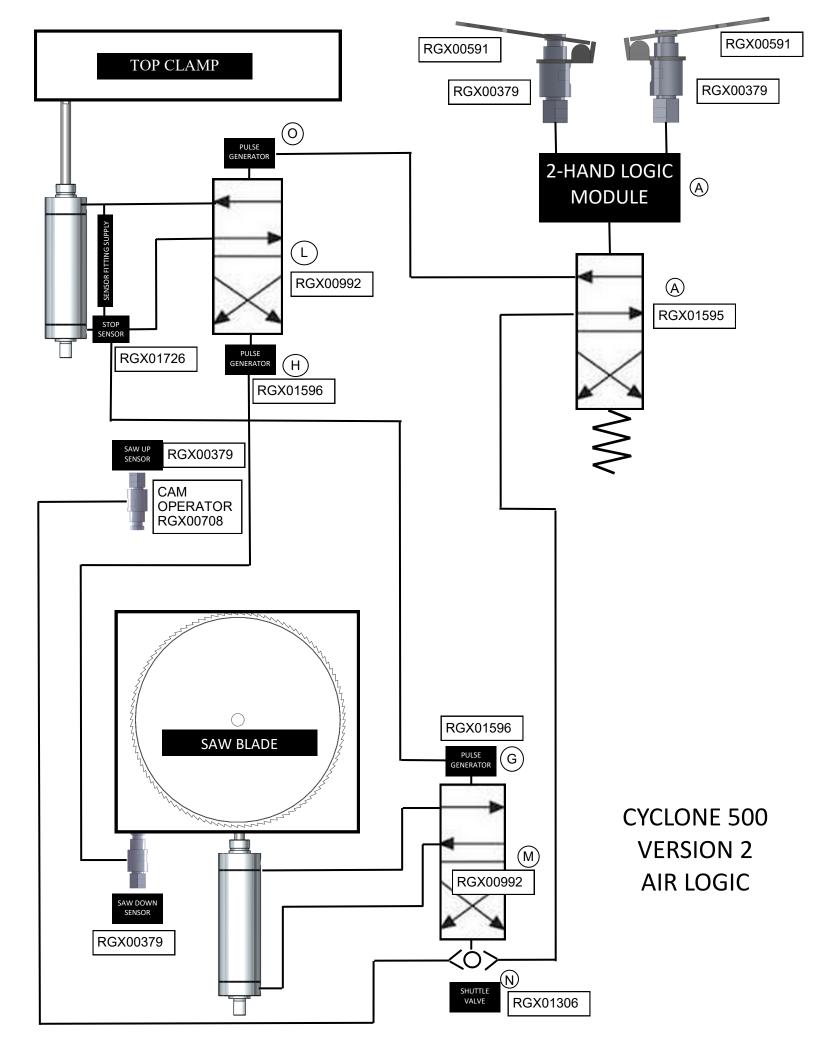
VERSION 2



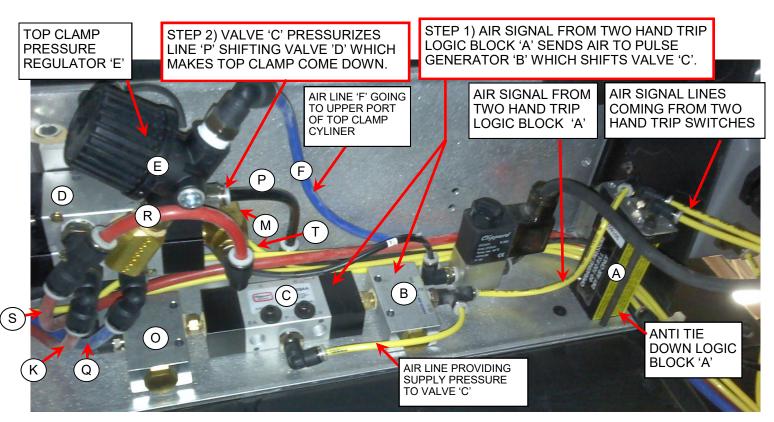
STEP 4) WHEN TOP CLAMP STOPS AGAINST PART, AN AIR SIGNAL IS SENT FROM STOP SENSOR (NOT SHOWN) THRU AIR LINE 'R' TO PULSE GENERATOR 'G' WHICH SHIFTS SAW CYLINDER VALVE 'M'

STEP 5) AIR FLOWS THRU AIR LINE 'Q' TO SAW CYLINDER CAUSING IT TO LIFT SAW. AT THIS POINT IF OPER-ATOR REMOVES FINGERS FROM TRIP BUTTONS, MODULE 'A' WILL DROP SIGNAL TO VALVE 'I' ALLOWING SPRING IN VALVE 'I' TO SHIFT THE SPOOL BACK TO ITS INITIAL POSITION. THIS SENDS AIR PRESSURE THRU AIR LINE 'U' TO SHUTTLE VALVE 'N' WHICH SHIFTS SAW VALVE 'M' CAUSING SAW TO DROP. OTHERWISE SAW CONTINUES UP TO ITS TOP OF STROKE SWITCH (NOT SHOWN) WHICH SENDS AN AIR SIGNAL THRU AIR LINE 'T' TO SHUTTLE VALE 'N' WHICH WILL ALSO SHIFT SAW VALVE 'M' CAUSING SAW TO DROP.

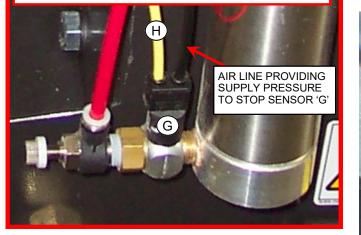
STEP 6) WHEN THE SAW DROPS BACK TO ITS HOME POSITION IT WILL ACTUATE THE SAW DOWN SWITCH (NOT SHOWN) SENDING AN AIR SIGNAL THROUGH AIR LINE 'E' TO PULSE GENERATOR 'H' WHICH SHIFTS VALVE 'L' BACK TO ITS HOME POSITION WHICH SENDS AIR THROUGH AIR LINE 'D' WHICH LIFTS THE TOP CLAMP. NOW BOTH THE SAW AND THE CLAMP ARE IN HOME POSITIONS READY FOR ANOTHER CYCLE.



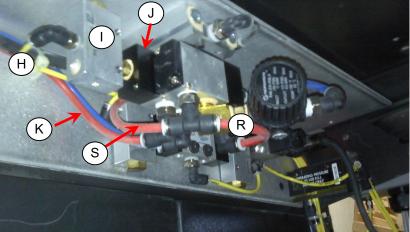
VERSION 1



STEP 3) WHEN TOP CLAMP STOPS MOVING DOWN THE STOP SENSOR 'G' SENDS AN AIR SIGNAL OUT LINE 'H'. STEP 4) LINE 'H' ACTUATES PULSE GENERATOR 'I' WHICH SHIFTS VALVE 'J', CAUSING AIR PRESSURE TO FLOW THROUGH AIR LINE 'K' WHICH CAUSES SAW TO ASCEND.



THROUGH AIR LINE 'K' WHICH CAUSES SAW TO ASCEND.



STEP 5) WHEN THE SAW SLIDE HITS THE UPPER LIMIT SWITCH 'L' IT SENDS AN AIR SIGNAL TO SHUTTLE VALVE 'M' WHICH SHIFTS VALVE 'J' CAUSING SAW TO DESCEND.

STEP 6) WHEN THE SAW SLIDE HITS THE LOWER LIMIT SWITCH 'N' IT SENDS AN AIR SIGNAL TO PULSE GENERA-TOR 'O' WHICH SHIFTS VALVE 'C' SHUTTING OFF PRES-SURE TO AIR LINE 'P' ALLOWING THE SPRING IN VALVE 'D' TO SHIFT THE VALVE BACK WHICH CAUSES THE TOP CLAMP TO GO BACK UP.

