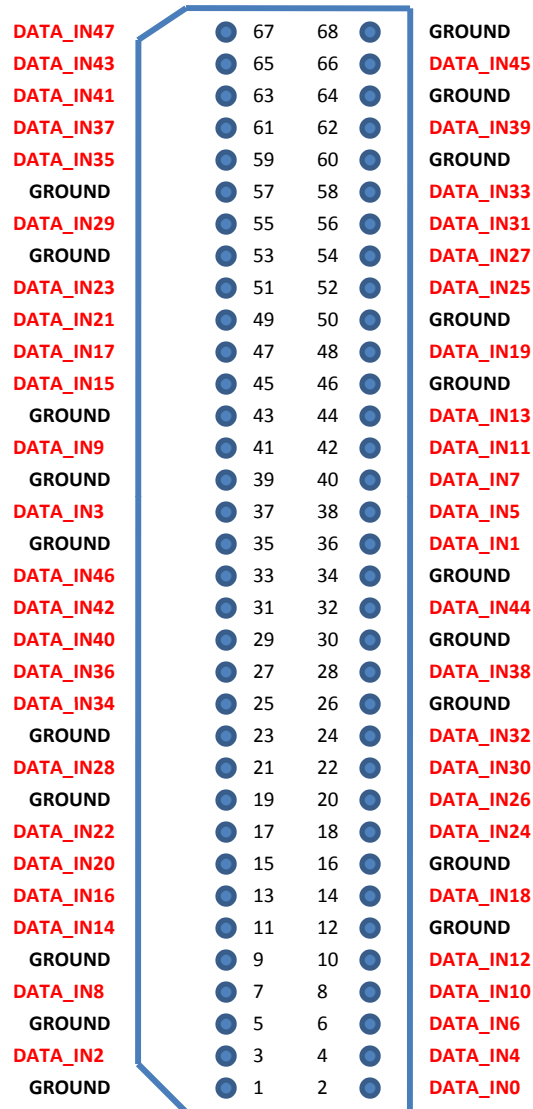


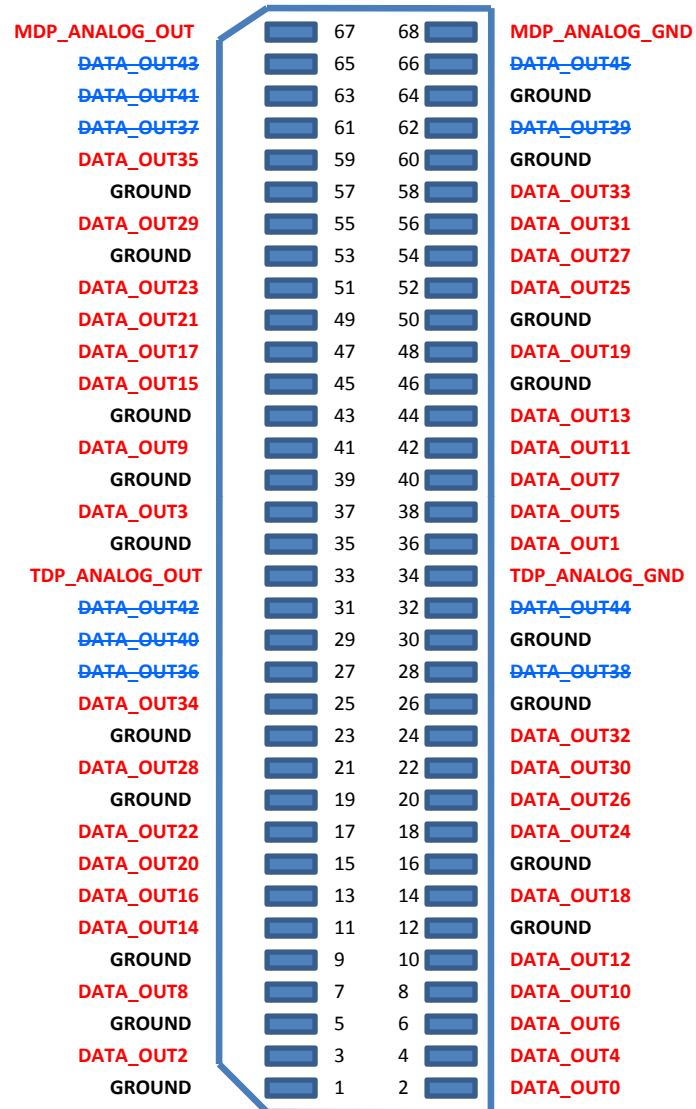
CHILI VCU

J1 (male D-68 connector)



RELAY CONTROL BOARD

J2 (Female D-68 connector)



OPTOCOUPLER BOARD

SIGNAL TERMINALS ON RELAY CONTROL BOARD (1/2)

TB15

GND	1
RC36	2
RC37	3
RC38	4
GND	5
RC39	6
RC40	7
RC41	8

TB16

RC47	8
RC46	7
RC45	6
RC44	5
GND	4
RC43	3
RC42	2
GND	1

TB13

GND	1
RC24	2
RC25	3
RC26	4
GND	5
RC27	6
RC28	7
RC29	8

TB14

RC35	8
RC34	7
RC33	6
RC32	5
GND	4
RC31	3
RC30	2
GND	1

TB11

GND	1
RC12	2
RC13	3
RC14	4
GND	5
RC15	6
RC16	7
RC17	8

TB12

RC23	8
RC22	7
RC21	6
RC20	5
GND	4
RC19	3
RC18	2
GND	1

TB9

GND	1
RC0	2
RC1	3
RC2	4
GND	5
RC3	6
RC4	7
RC5	8

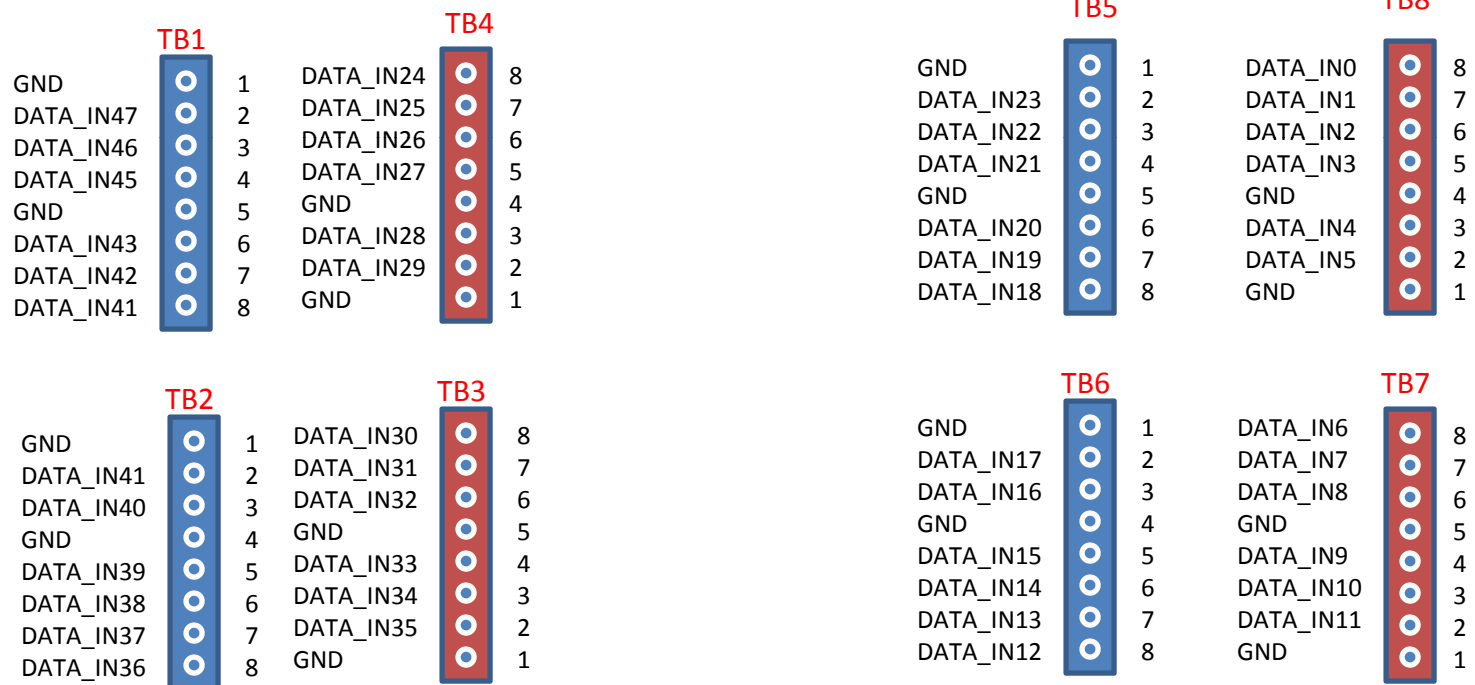
TB10

RC11	8
RC10	7
RC9	6
RC8	5
GND	4
RC7	3
RC6	2
GND	1

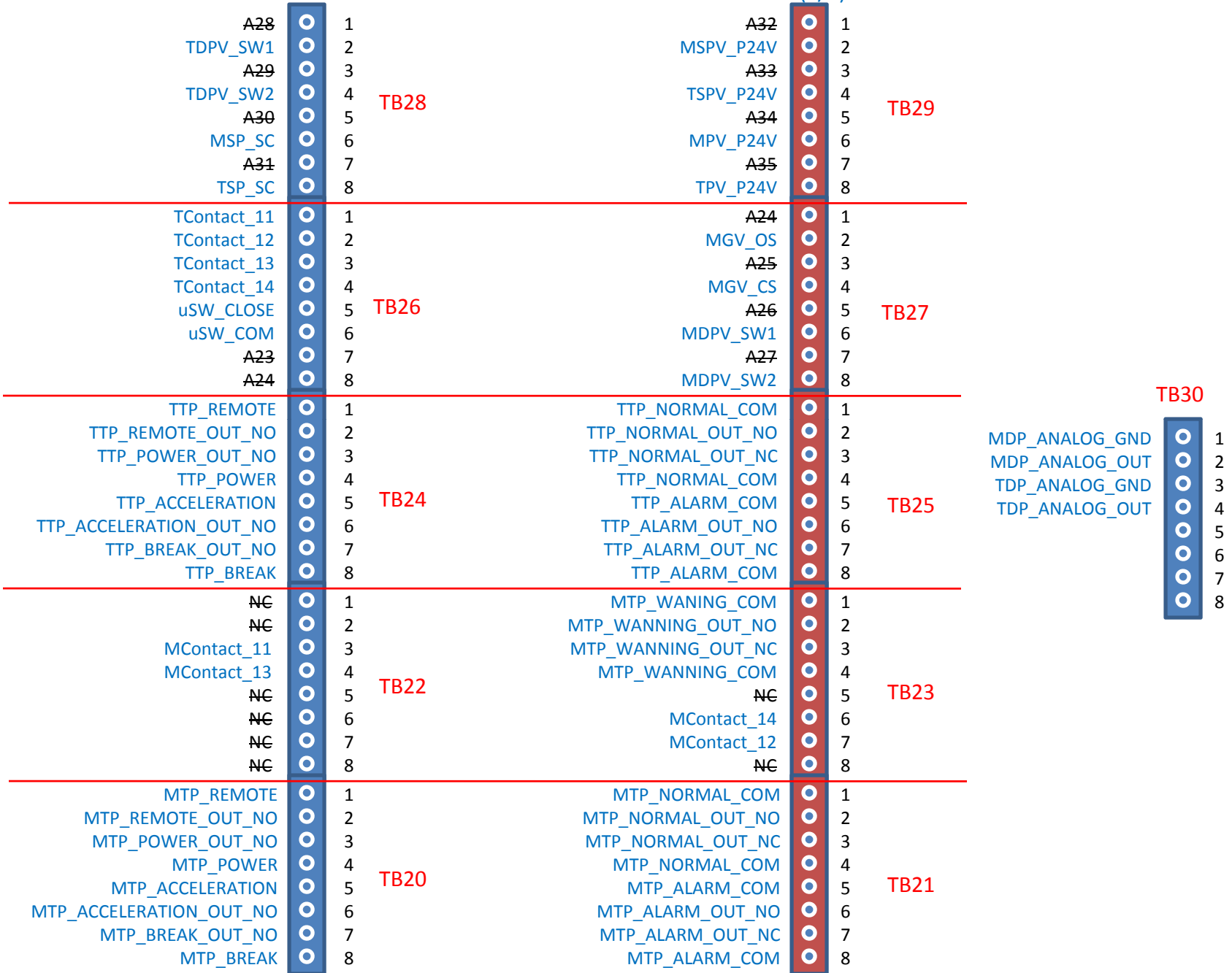
uSW_TB

GND	1
GND	2
MGV_RELAY2_7	3
MGV_RELAY1_7	4
MGV_CK_RELAY_5	5
MGV_CK_RELAY_7	6
MGV_DLY_RELAY_7	7
uSW_IN	8

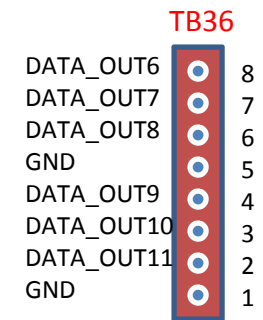
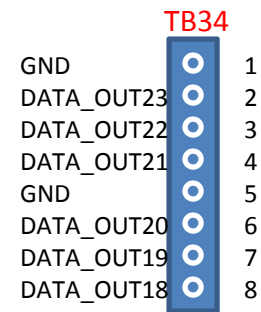
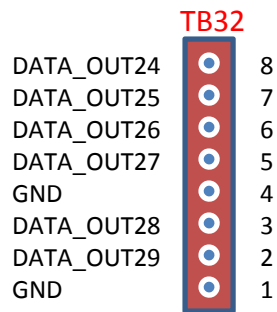
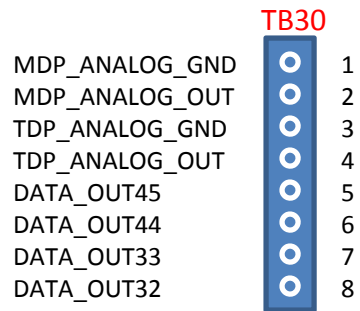
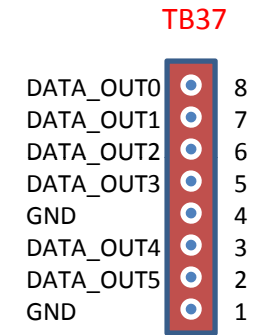
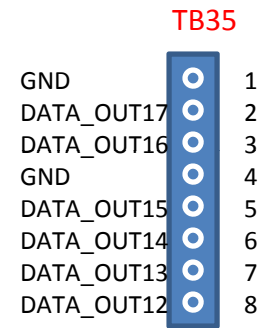
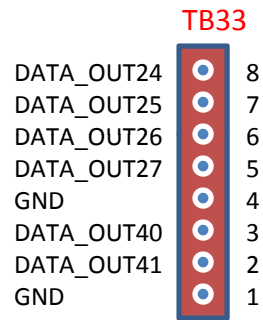
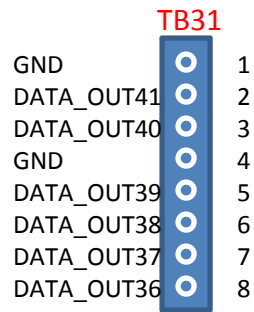
SIGNAL TERMINALS ON RELAY CONTROL BOARD (2/2)



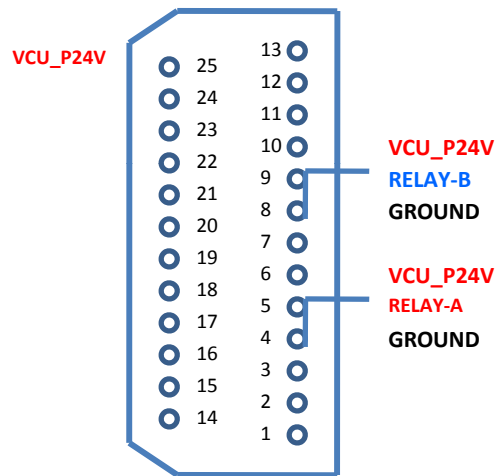
SIGNAL TERMINALS ON OPTOCOUPLER BOARD (1/2)



SIGNAL TTERMINALS ON OPTOCOUPLER BOARD (2/2)



TPG256 Gauge Control Connector (CONN1, Female D-25 Connector)



4 --- 200-ohm pull-down to GROUND

5 --- RELAY-A

6 --- 50-ohm pull-up to VCU_P24V

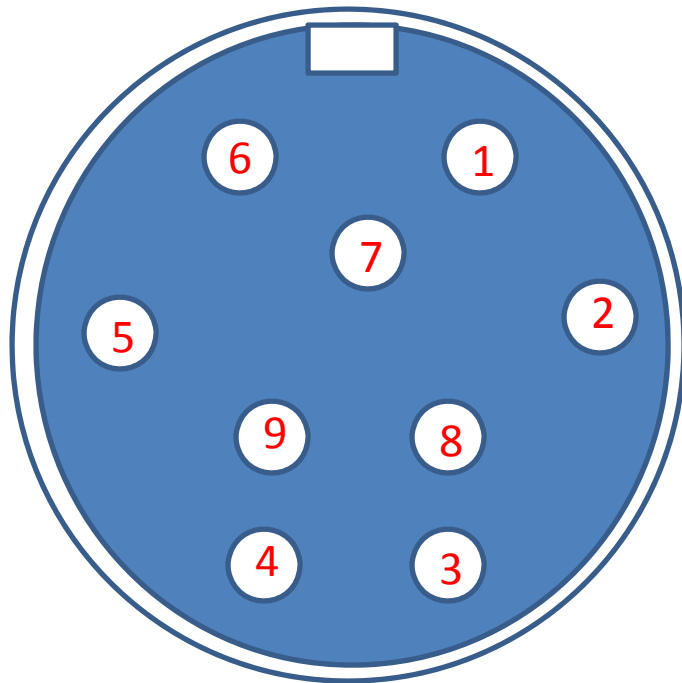
8 --- 200-ohm pull-down to GROUND

9 --- RELAY-B

10 --- 50-ohm pull-up to VCU_P24V

25 --- VCU_P24V

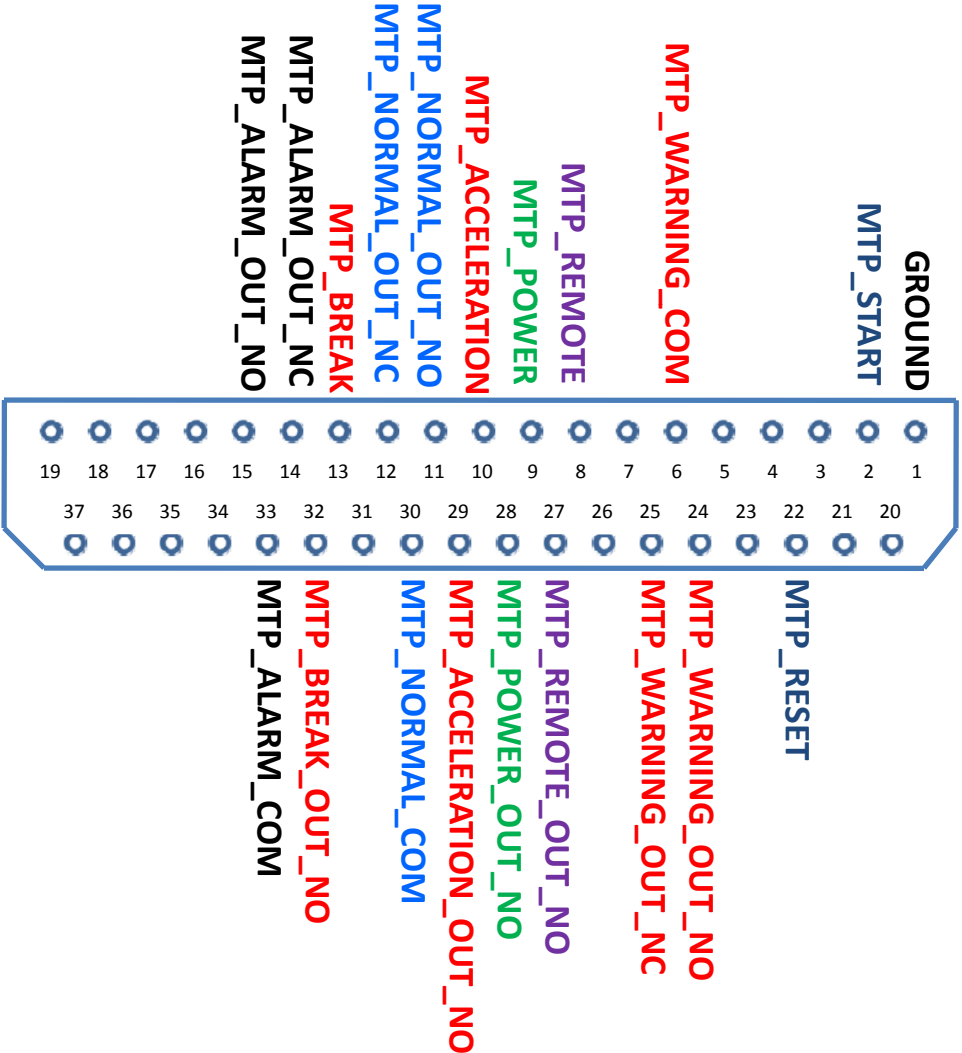
Gate Valve/Arm Switch Connector (CONNECTOR 5, FEMALE 9-pole)



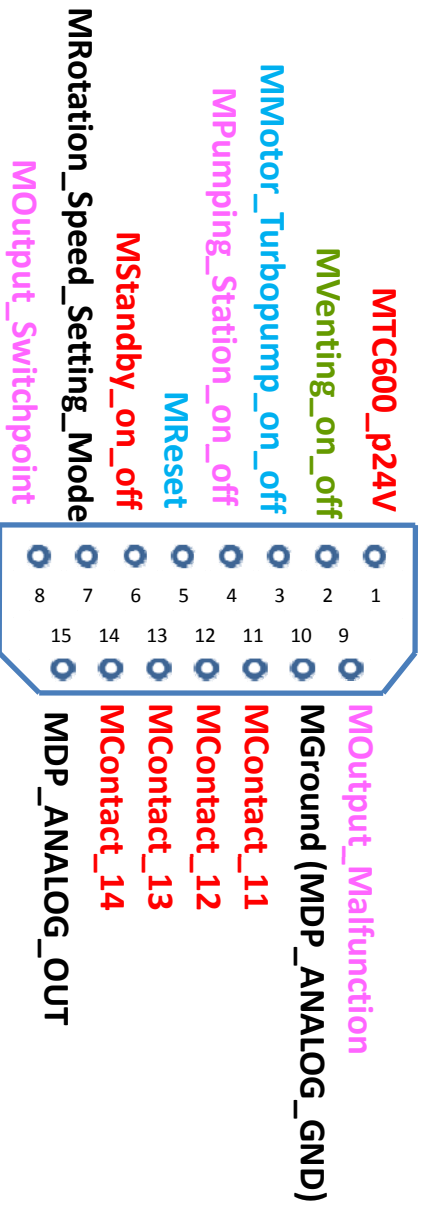
- 1 --- VP
- 2 --- VN
- 3 --- uSW_P1
- 4 --- uSW_P2
- 5 --- CS
- 6 --- CS_GND
- 7 --- VGND
- 8 --- OS
- 9 --- OS_GND

MAIN MCU-X7 Turbo Pump Control Connector

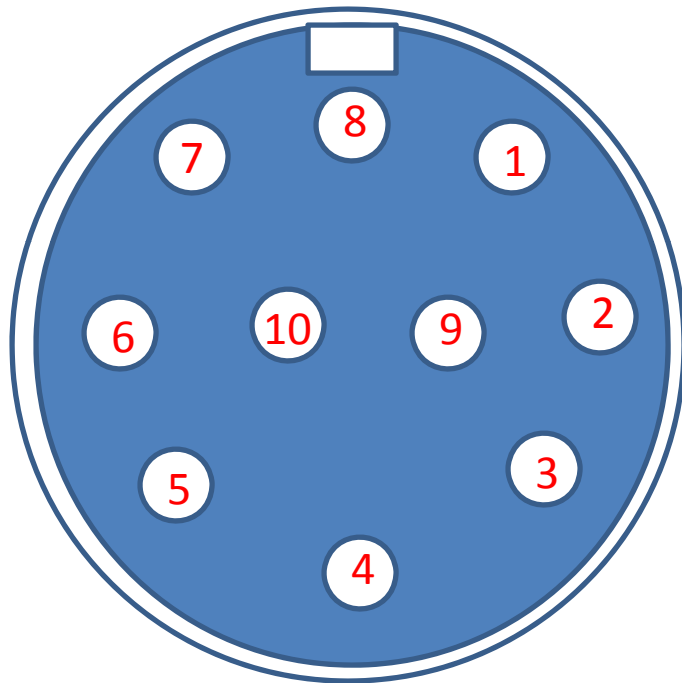
(Female D-37 Connector)



MAIN TC6000 Drag Pump Connector (CONNECTOR 6, Female D-15 Connector)

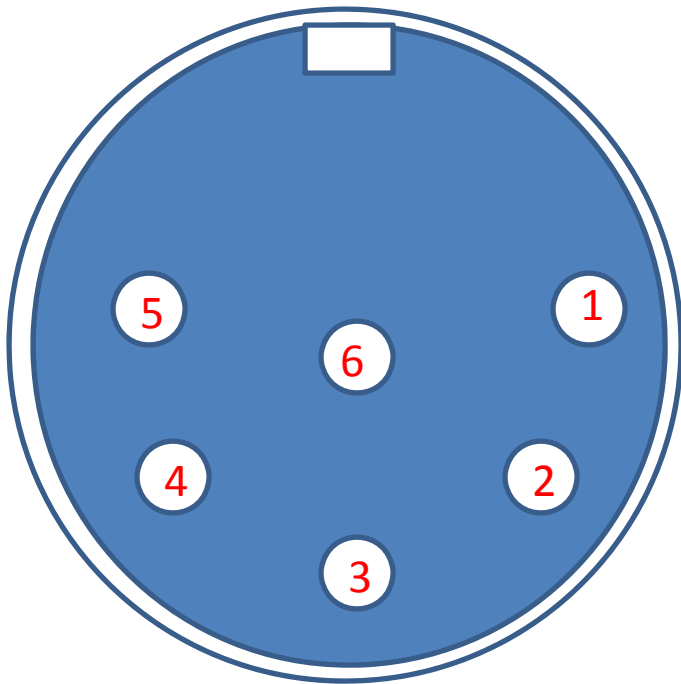


MAIN All Valves Connector (CONNECTOR 1, FEMALE 10-pole)



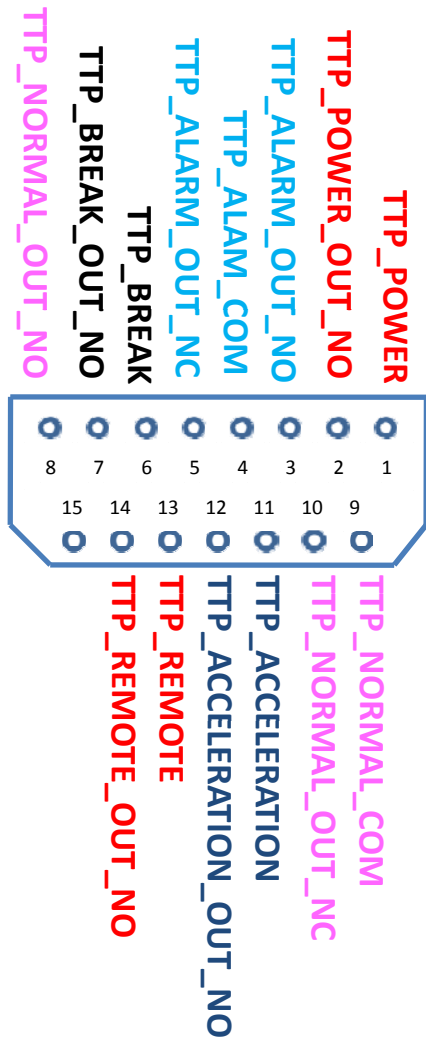
- 1 --- MAIN_GND
- 2 --- AC_MDPV_L
- 3 --- AC_MDPV_N
- 4 --- DC_MDPV_a
- 5 --- DC_MDPV_b
- 6 --- DC_MDPV_c
- 7 --- DC_MDPV_d
- 8 --- MSPV_P24V
- 9 --- MPV_P24V
- 10 --- MAIN_P24V_GND

MAIN Cooling Fans Connector (CONNECTOR 3, FEMALE 6-pole)

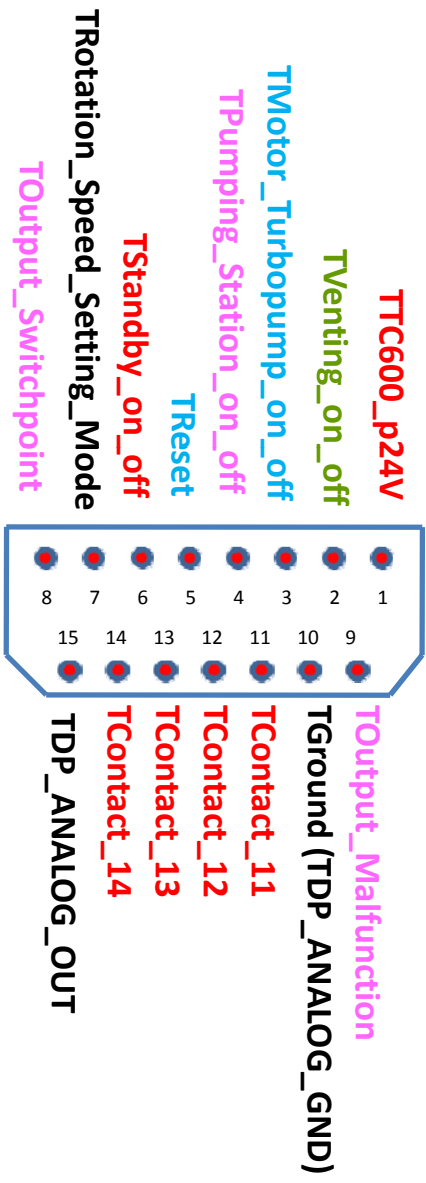


- 1 --- AC_MTPCU_I
- 2 --- AC_MTPCU_N
- 3 --- MDPCU_P24V
- 4 --- MDPCU_IN_P24V
- 5 --- MDPCU_P0V
- 6 --- MDPCU_IN_P0V

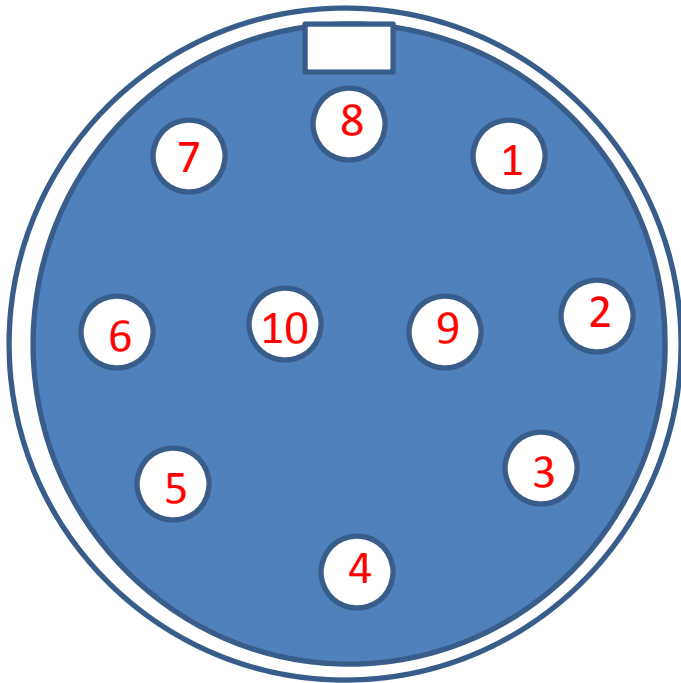
TRANSFER STP L301 Turbo Pump TB-1 Connector (Female D-15 Connector)



TRANSFER TC6000 Drag Pump Connector (CONNECTOR 7, Male D-15 Connector)

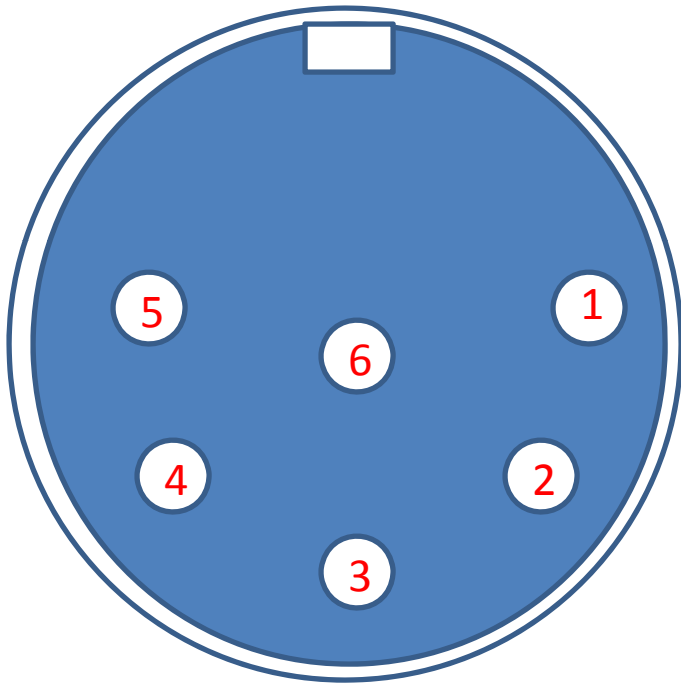


TRANSFER All Valves Connector (CONNECTOR 2, FEMALE 10-pole)



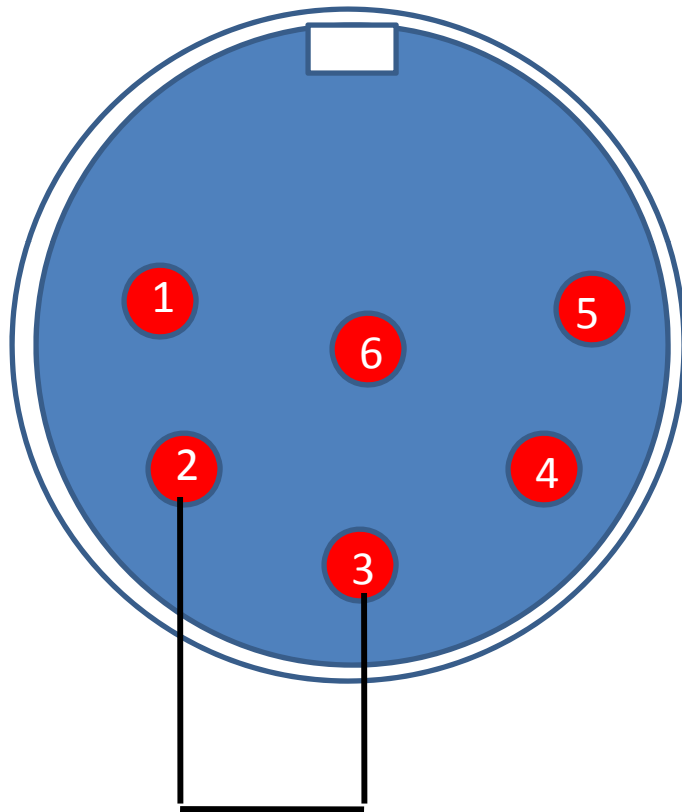
- 1 --- TRAN_GND
- 2 --- AC_TDPV_L
- 3 --- AC_TDPV_N
- 4 --- DC_TDPV_a
- 5 --- DC_TDPV_b
- 6 --- DC_TDPV_c
- 7 --- DC_TDPV_d
- 8 --- TSPV_P24V
- 9 --- TPV_P24V
- 10 --- TRAN_P24V_GND

TRANSFER Cooling Fans Connector (CONNECTOR 4, FEMALE 6-pole)



- 1 --- AC_TTPCU_I
- 2 --- AC_TTPCU_N
- 3 --- TDPCU_P24V
- 4 --- TDPCU_IN_P24V
- 5 --- TDPCU_P0V
- 6 --- TDPCU_IN_P0V

TRANSFER STP L301 Turbo Pump TB2 Connector (MALE 6-pole)



- 1 --- TB2-1_P12V
- 2 --- CONNECT TO PIN 3
- 3 --- CONNECT TO PIN 2
- 4 --- TB2-4 (No Use)
- 5 --- TTP_START
- 6 --- TTP_RESET