

# MODEL 7940-7977 FIELD CONNECTION DIAGRAM

EXAMPLE: 7940-7977-1-6

-6 = OFF TIME RANGE  
(1-60 SECONDS)

-1 = ON TIME RANGE  
(16-600 MILLISECONDS)

RANGES AVAILABLE: -50 F TO 150F

- RANGE = 1" H2O TO 10" H2O
- FACTORY PRESET TO 3" LOW & 6" HIGH
- MAX PRESSURE 25 PSIG
- DIAPHRAGM MATERIAL: TEFLON

OFF TIME ADJUST  
ON TIME ADJUST

OUTPUT INDICATORS

TYPICAL BULK HEAD FITTING

- PARKER 22 CABH-4-4

LOADS: 1-3 AMPS  
(3A FUSE SUPPLIED)

JUMPER:

- SHIPPED IN 19 OUTPUTS POSITION
- MOVE JUMPER DOWN TO REDUCE # OF OUTPUTS
- REMOVE JUMPER IF 20 OUTPUTS ARE REQUIRED

TO LOW VACUUM

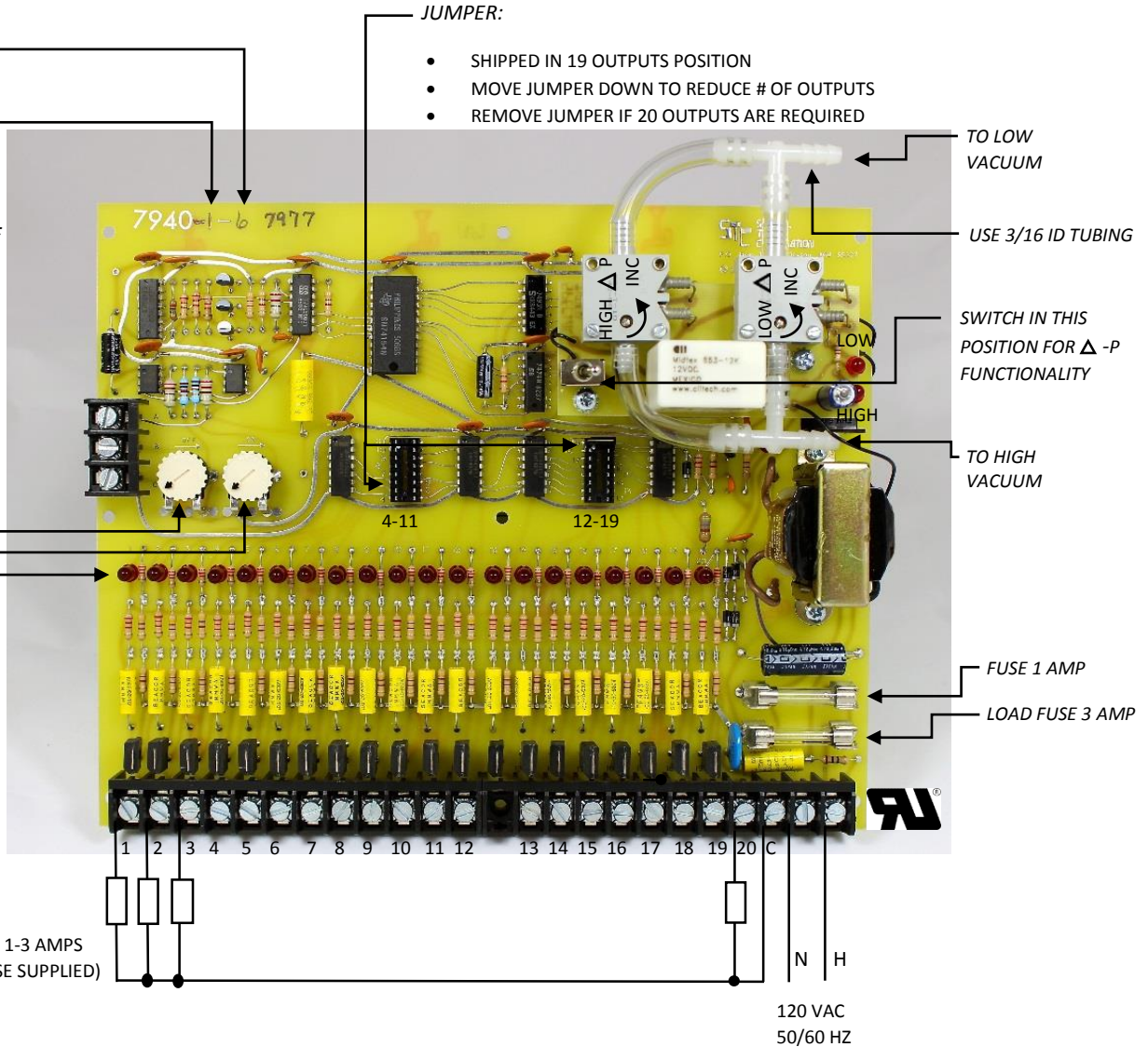
USE 3/16 ID TUBING

SWITCH IN THIS POSITION FOR Δ - P FUNCTIONALITY

TO HIGH VACUUM

FUSE 1 AMP

LOAD FUSE 3 AMP



120 VAC  
50/60 HZ

DELTA - P FUNCTION:

- AT LOW Δ - P TIMER STOPS AND HOLDS FOR NEXT HIGH SIGNAL
- AT HIGH Δ - P TIMER STARTS SEQUENCING AT PREVIOUSLY HELD OUTPUT
- WHEN LOW SWITCH OPERATES BOTH LED INDICATORS ILLUMINATE
- AT HIGH (START) ONLY HIGH LED IS ILLUMINATED
- AT STOP BOTH LED'S OFF

DELTA P ADJUSTMENT INSTRUCTIONS:

- TO ADJUST, APPLY DESIRED Δ - P TO HIGH VACUUM PORT AND ROTATE SET SCREW TO PROPER LED INDICATION
- LOW SETTING - BOTH LED "ON"
- HIGH SETTING - LOW LED "OFF", HIGH LED "ON"

SEQUENCE:

- No. 1 ON THEN No. 1 OFF, THEN No. 2 ON THEN No. 2 OFF, AND SO ON TO LAST OUTPUT, THEN BACK TO No. 1 AND CYCLE REPEATS
- ON TIME AND OFF TIME ARE INDEPENDENTLY ADJUSTABLE
- FOR AVAILABLE TIMES SEE TABLE AT RIGHT

ON AND OFF TIME RANGE

SYM	TIME RANGES
1	16 TO 600 MILLISECONDS
2	30 MILLISECONDS TO 1.2 SECONDS
3	.1 TO 6 SECONDS
4	.2 TO 12 SECONDS
5	.3 TO 20 SECONDS
6	1 TO 60 SECONDS
7	2 SECONDS TO 2 MINUTES
8	15 SECONDS TO 10 MINUTES
9	.5 TO 20 MINUTES
10	1 TO 45 MINUTES
11	2 MINUTES TO 1.5 HOURS
12	3 MINUTES TO 2 HOURS