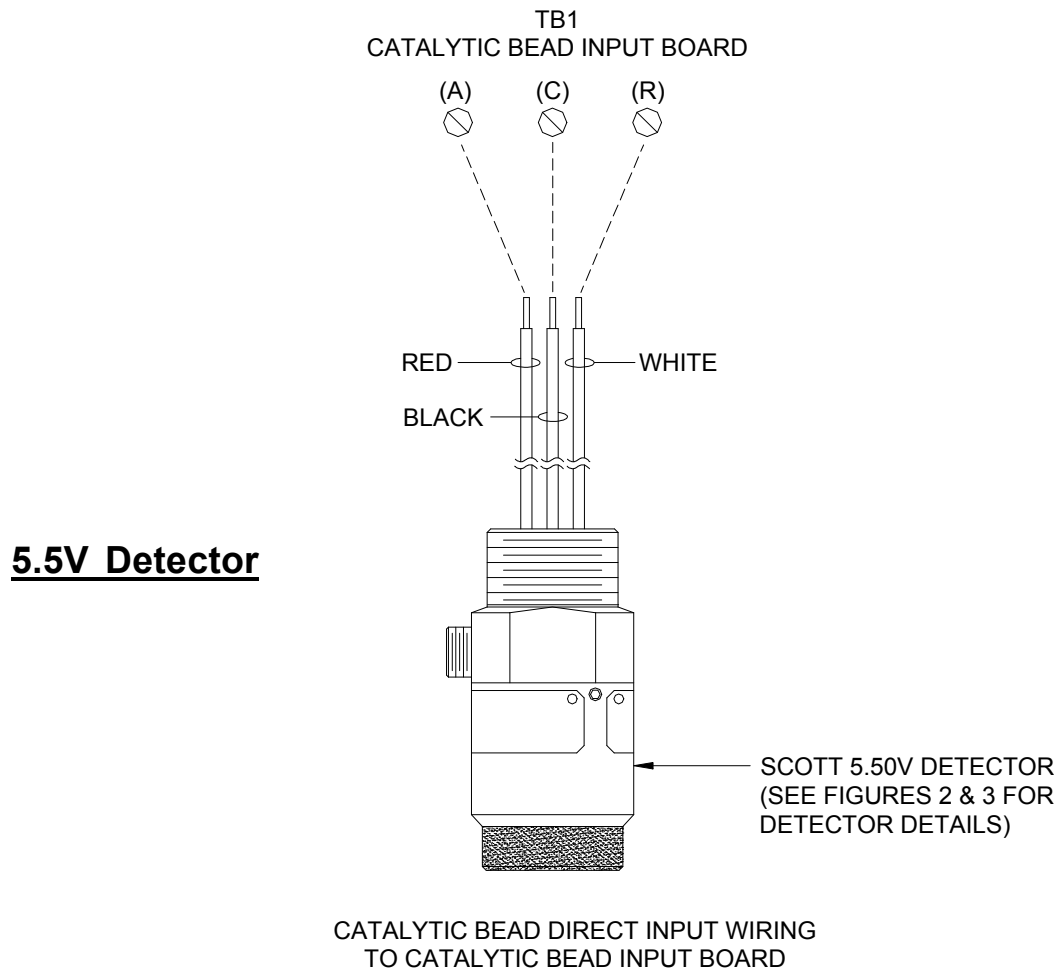
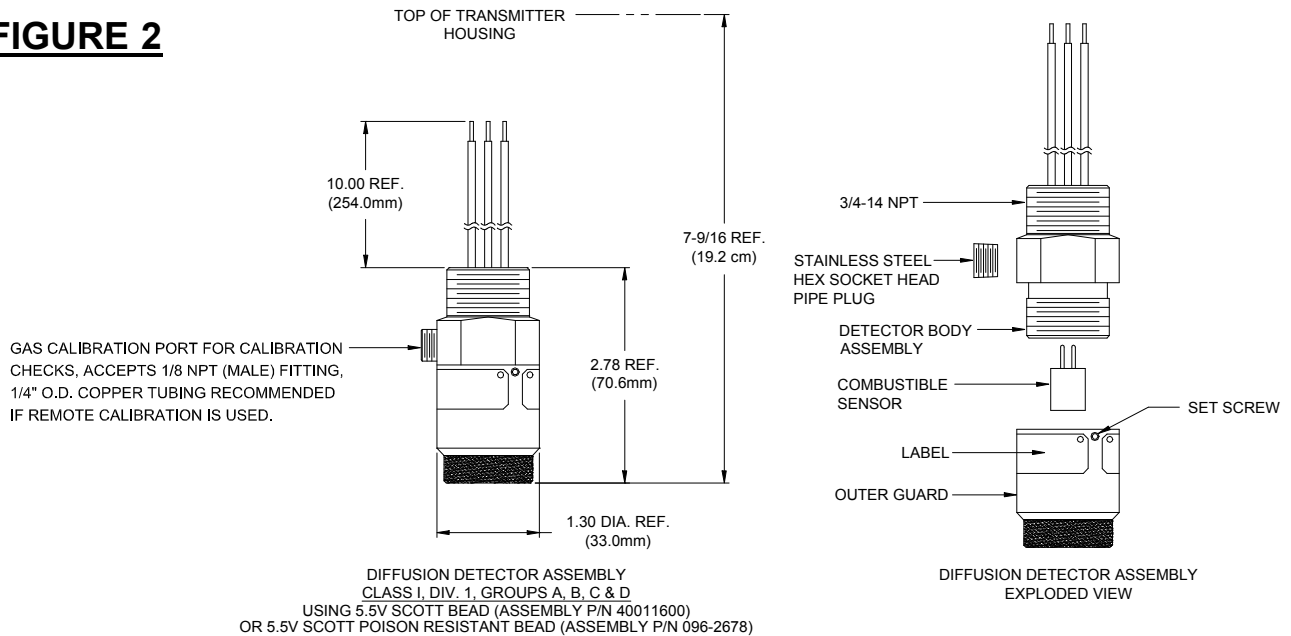


When using a Scott 5.5V Detector Assembly in conjunction with the Sentinel 6 Six Channel Gas Receiver or the Sentinel 16 Sixteen Channel Gas Receiver, wiring connections to the applicable Catalytic Bead Input Board will be different than for a 6V Detector. See Figure 1 for 5.5V Detector wiring color connections.



**FIGURE 1**

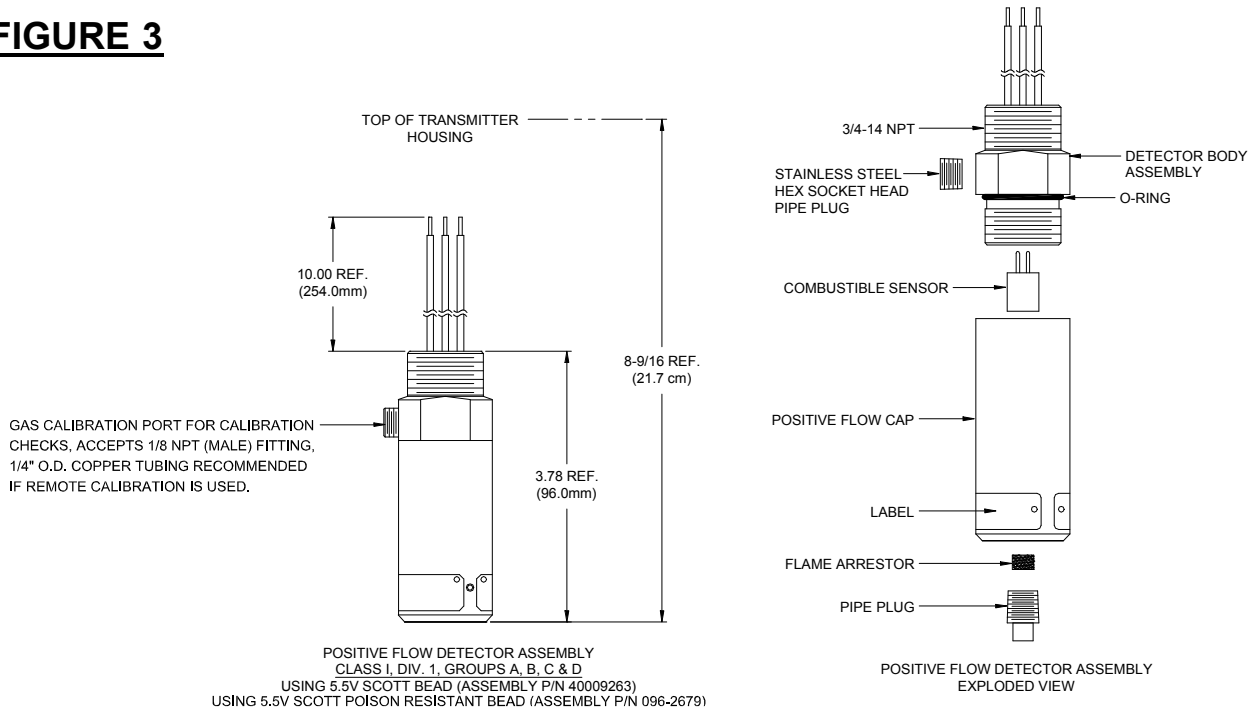
**FIGURE 2**



## 5.5V SCOTT Diffusion Detector Assembly -

Description	Part No.
Complete Assembly (Standard)	40011600
Complete Assembly (w/ Poison Resistant Sensor)	096-2678
Detector Body Assembly	40009065
Stainless Steel Pipe Plug	40002800
Combustible Sensor (Standard)	40011528
Replacement Kit	
Poison Resistant Combustible Sensor	40012111
Outer Guard Assy. (Standard Sensor)	40009066
Outer Guard (Poison Resistant Sensor)	096-2648
Set Screw	33351-017

**FIGURE 3**

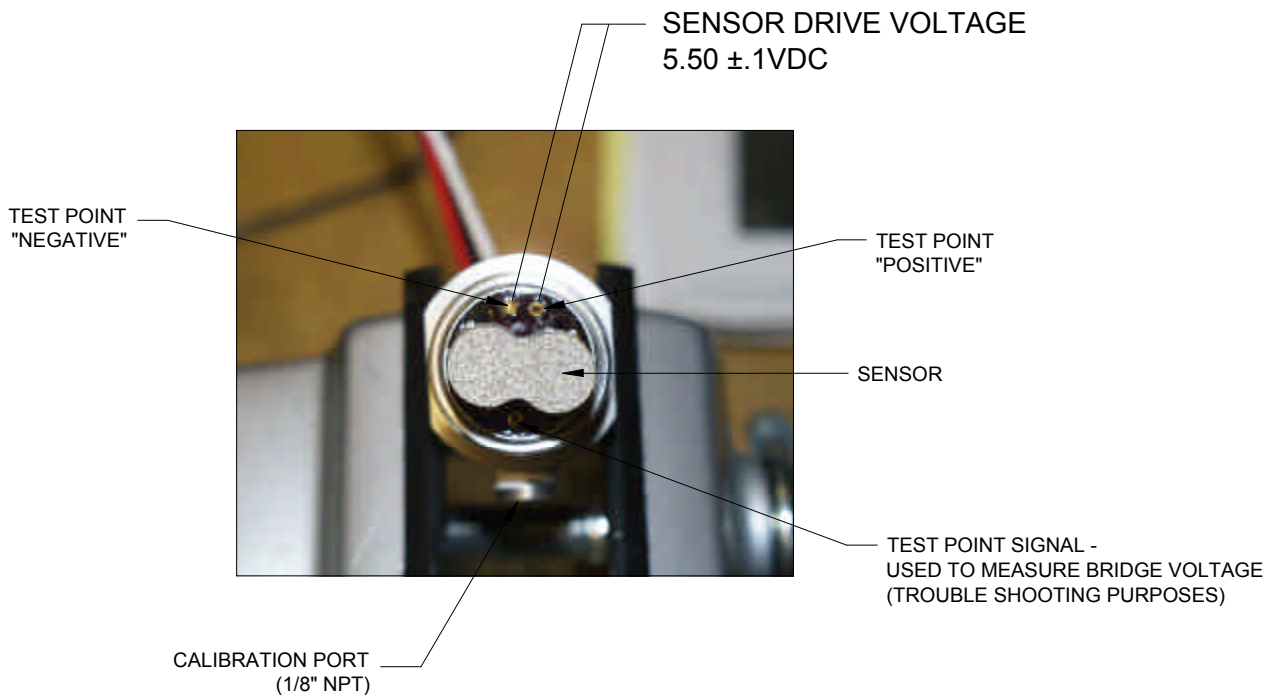


## 5.5V SCOTT Positive Flow Detector Assembly -

Description	Part No.
Complete Assembly (Standard)	40009263
Complete Assembly (w/ Poison Resistant Sensor)	096-2679
Detector Body Assembly	40009065
Stainless Steel Pipe Plug	40002800
Combustible Sensor (Standard) Replacement Kit	40011528
Poison Resistant Combustible Sensor	40012125
Positive Flow Cap Assy. (Std. Sensor)	40009329
Positive Flow Cap Assy. (Poison Resistant Sensor)	096-2649
O-Ring	40009264

### Scott Detectors Test Points - 5.50 Vdc (Scott stainless steel configuration)

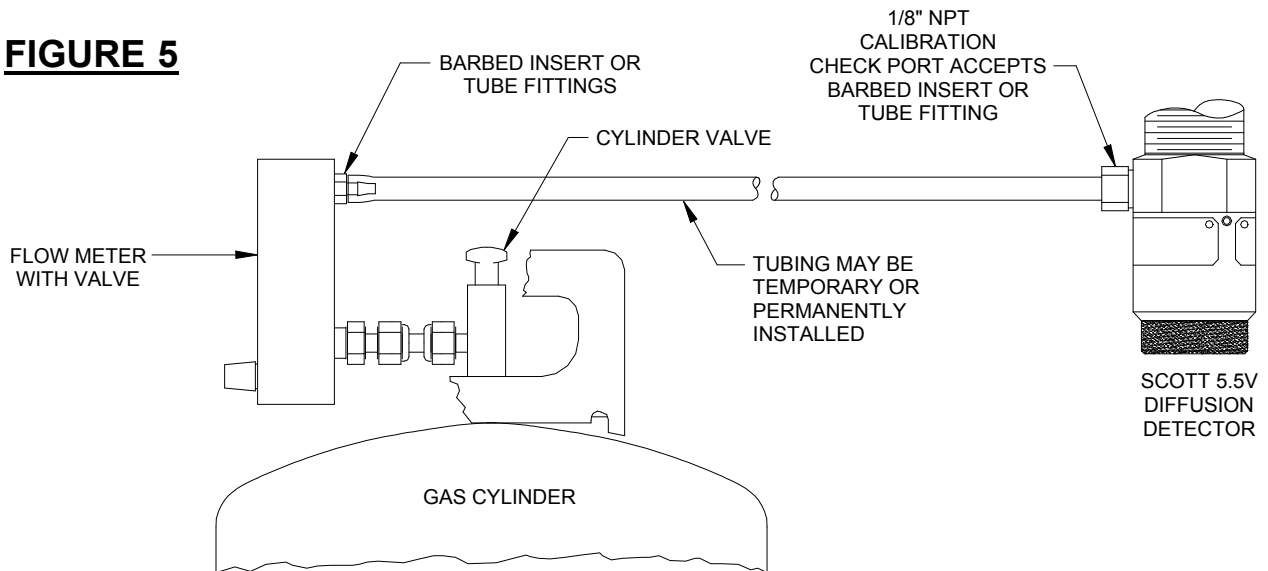
- Refer to Figure 4.
- Remove the detector outer guard. Measure the voltage across the test points as indicated and adjust the Volts potentiometer for a DVM indication of 5.50 Vdc.
- Replace the detector outer guard.



**FIGURE 4**

6 Volt detectors require a nominal gas flow of 1 liter per minute. The 5.5 Volt detectors require a nominal gas flow of 2 liters per minute. Be sure that the proper gas bottle regulator is used.

**FIGURE 5**



MUST USE ONE OF THE FOLLOWING  
CALIBRATION TEST KITS:

- 2-1/2% METHANE IN AIR (P/N 40009061)
- 1% HYDROGEN IN AIR (P/N 40009171)
- 1% PROPANE IN AIR (P/N 40009173)
- 1/2% PROPANE IN AIR (P/N 40009614)

### **CALIBRATION TEST SET-UP FOR SCOTT 5.5V DETECTORS**

**Table 1 - Diffusion Detector Calibration Check Gas Readings Valid Only in Ambient Air with Oxygen Content Approximately 21% - For use with Scott Stainless Steel Head**

GAS/ SOLVENT	FOR SENSOR 4888-2 P/N 40011528 OPTION				FOR SENSOR 4888-3 P/N 40012111 OPTION			
	1% PROPANE (45% LFL) P/N 40009173		1/2% PROPANE (22% LFL) P/N 40009614		1% PROPANE (45% LFL) P/N 40009173		1/2% PROPANE (22% LFL) P/N 40009614	
	XMIT VOLTS	% GAS METER	XMIT VOLTS	% GAS METER	XMIT VOLTS	% GAS METER	XMIT VOLTS	% GAS METER
ACETALDEHYDE	1.12	45						
ACETONE			0.93	33			0.93	33
ACRYLONITRILE	1.07	42						
ACETYLENE	1.17	48						
AMMONIA	1.12	45						
BENZENE			0.93	33				
1,3 - BUTADIENE	1.18	49					1.2	50
N - BUTANE	1.33	58					0.88	30
ISO - BUTANE	1.38	61						
ISO-BUTYLENE	1.36	60						
BUTYL ACETATE			1.3	56				
N - BUTYL ALCOHOL			1.04	40				
CHLOROBENZENE			0.93	33			0.93	33
CYCLOHEXANE			0.96	35				
CYCLOHEXANONE			1.12	45				
DIMETHYL FORMAMIDE			0.93	33				
DIETHYL ETHER			0.96	35				
N - DECANE			1.3	56				
ETHANE	1.12	45						
ETHYL ACETATE			0.94	34				
ETHYL ACRYLATE			1.04	40				
ETHYL ALCOHOL	1.31	57					1.09	43
ETHYL BENZENE			1.04	40				
ETHYLENE	1.51	47						
ETHYLENE OXIDE	1.26	54			1.3	56		
HEPTANE			0.98	36				
N - HEXANE			0.98	36			1.3	56
HEXANE	1.38	61						
ISOPROPYL ALCOHOL	1.44	65						
METHYL ETHYL KETONE			0.93	33			1.09	43
METHYL ISO BUTYL KETONE			0.98	36				
N - METHYL								
2-PYRROLIDONE			1.01	38				
METHANOL	1.22	51			1.22	NO SPAN 51		NO SPAN
METHYL STYRENE	1.25	53						
MINERAL SPIRITS			1.39	62				
MONOCHLOROBENZENE			0.93	33				
NAPTHA V.M. & P.			1.14	46				
NITRO PROPANE			0.94	34				
ISO - OCTANE			1.04	40			1.38	61
N-OCTENE			1.3	56				
OCTENE			1.15	47				
PENTANE			0.93	33				
ISO - PENTANE			0.93	33				
ISOPRENE	1.23	52						
PROPANE	1.18	49						
PROPYLENE	1.31	57						
STYRENE			1.09	43			1.41	63
TETRAHYDROFURAN	1.31	57					1.2	50
TOLUENE			0.98	36			1.36	60
VINYL ACETATE	1.41	63						
VINYL CHLORIDE			1.06	41				
O - XYLENE			1.14	46			1.49	68

FOR 40011528 SENSOR  
 HYDROGEN - USE 1% HYDROGEN (25% LFL) P/N 40009171  
 METHANE - USE 2 1/2% METHANE (50% LFL) P/N 40009061

- Notes:
1. Check gas readings include 10% positive correction for calibration port calibration at 2000 cc per minute
  2. Actual calibration field checks require use of factor shown on calibration gas cylinder to correct for actual concentration variations in calibration gas lots.
  3. Calibration check gas readings using conventional diffusion techniques (plastic bag filled with calibration and placed over detector) should be reduced by 10% (multiply table % gas reading by 0.91).
  4. % gas meter readings are the flammable gas concentration expressed as % lower flammable limits in air
  5. Instrument must be above flash point of the vapor to be detected.