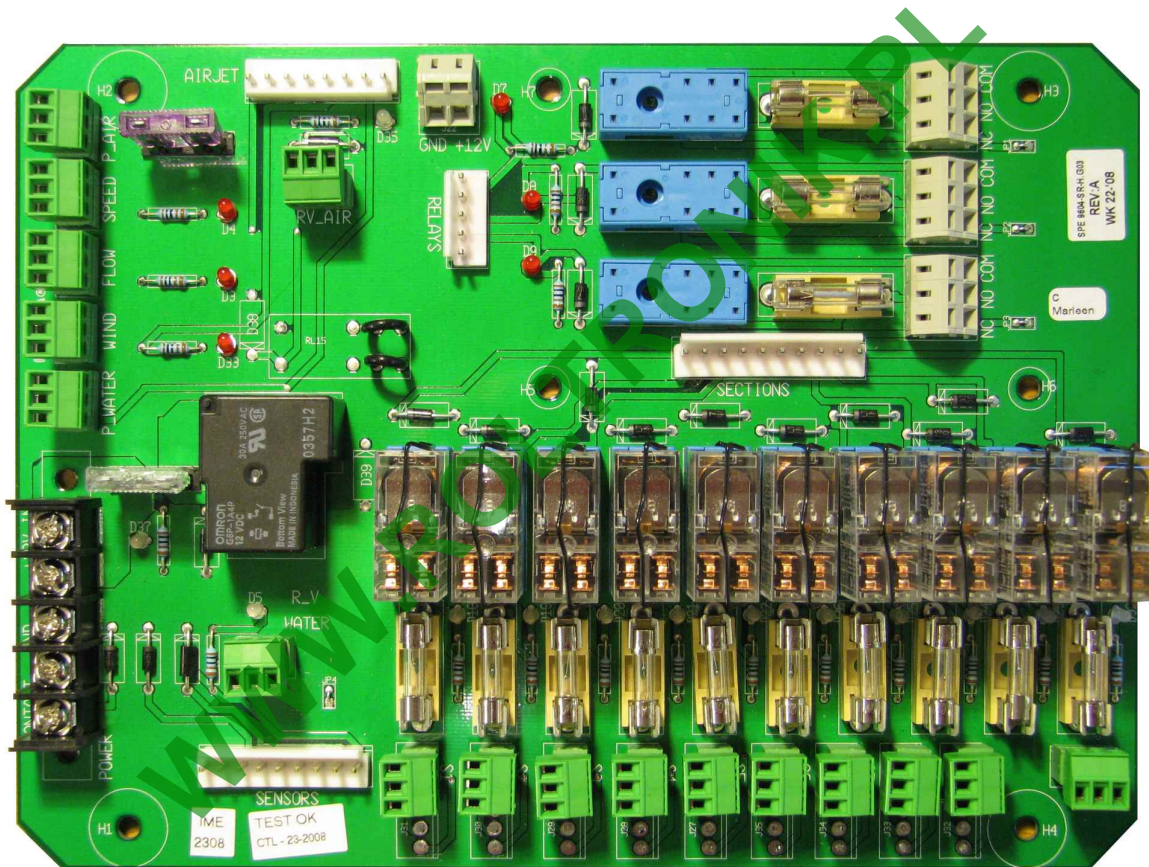
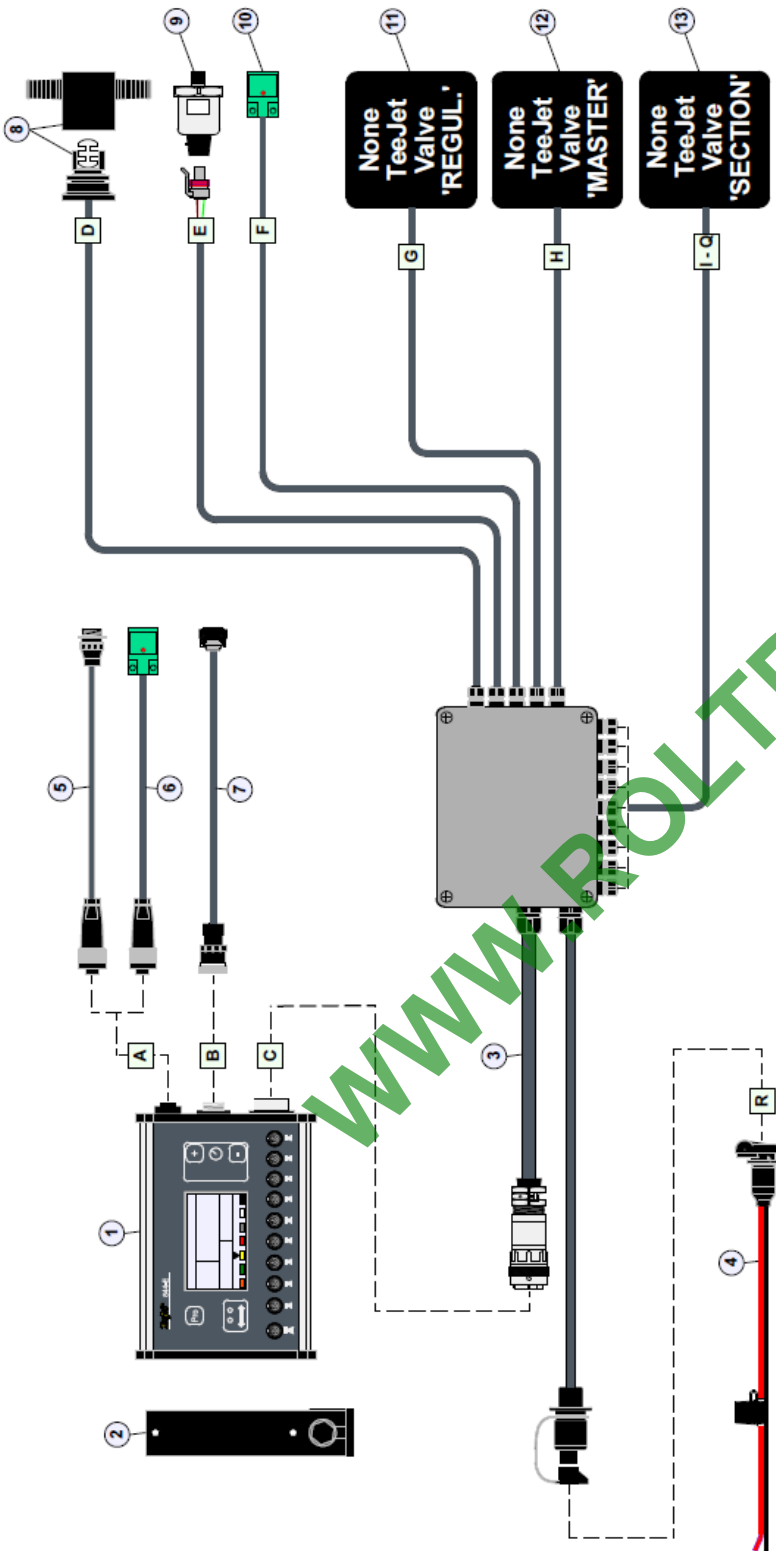


## TJ844 Connection Guide – Junction box Part no. 902-358 For non TeeJet valves

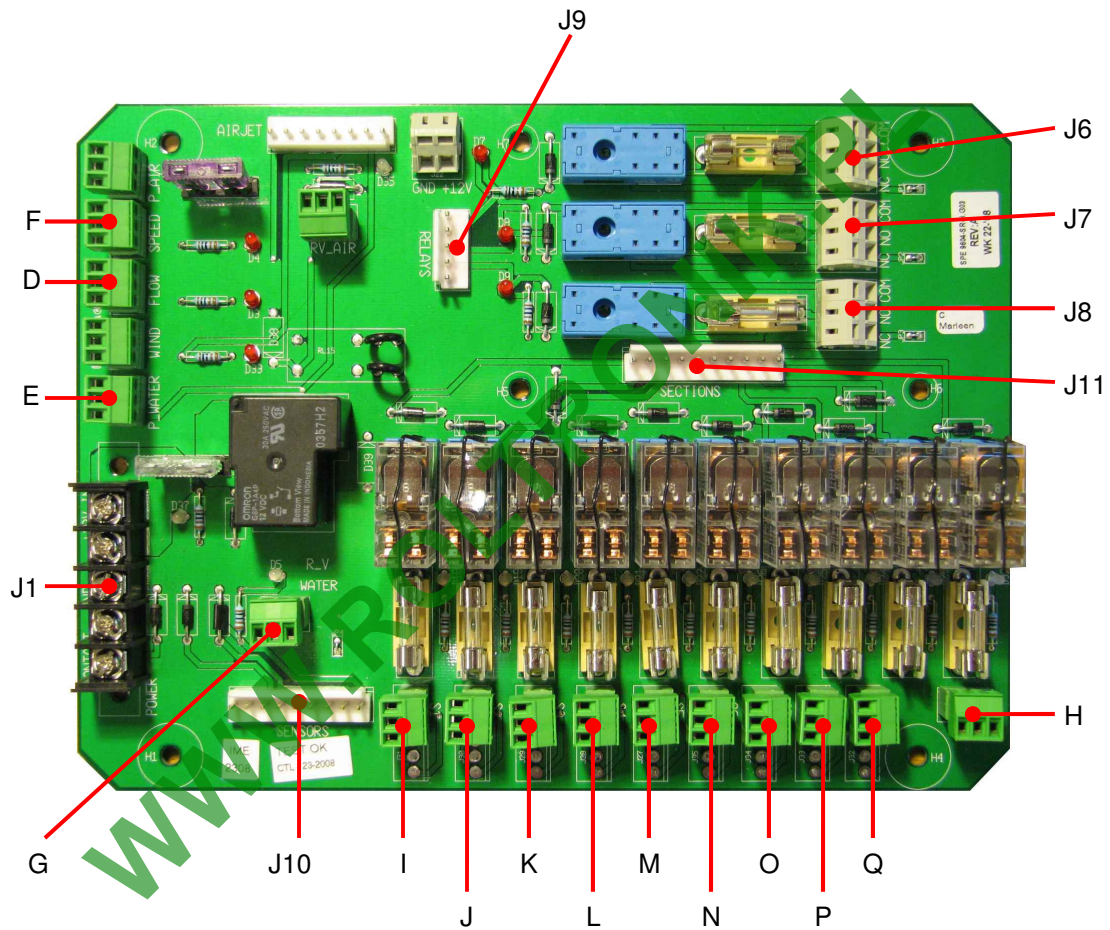




Pos.	TeeJet No.	Description
1	904-302	844E, 9 sections w. communication and speed connection
2	902-844	Bracket kit, RAM
3	903-602	Bracket kit, simple
4	96ET15-8	Main cable, Console /Junctionbox
5	96ET14	Battery cable with 25A fuse
6	198-669	Adaptor cable from GPS (Centerline) to TJ844E
7	99ET017-6	Proximity speed sensor
8	96ET17-3	Communication cable – Console to 9 pin D-SUB
9		Flow meter
10		Pressure sensor
11		Speed sensor
12		Regulation valve
13		Master valve
		Section valves

1008-0180

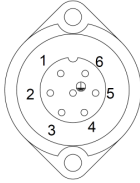
## Connection reference



Refer to following pages for connector details.

## Connection details, TJ844-E

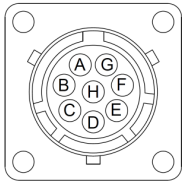
### A Extra input connector



### A Extra Input connector:

Pin	Signal
2	Speed input
6	+12V Switched output
7	GND
<b>Counterpart (male):</b> Plug with pins: 178-208	

### B Communication connector

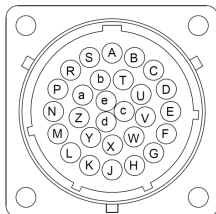


### B Communication connector:

Pin	Signal
A	Transmit output (TX)
B	Receive input (RX)
C	GND
F	GND printer
G	+12V printer
<b>Counterpart (male):</b> Plug: COC_UTG6128PN Pins: COC_SM20M11D70	



## C Main connector



## C Main connector:

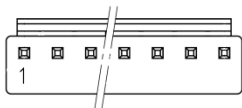
Pin	Signal	Remarks
A	Main Valve	Output to drive the Main Valve (+12V when active)
B	Section 1	<b>Output</b> to drive the valve for section number in case of integrated boom section switches <b>OR</b> <b>Input</b> for section number in case of external boom section switches.
C	Section 2	
D	Section 3	
E	Section 4	
F	Section 5	
G	Section 6	
H	Section 7	
J	Section 8	
K	Section 9	
R	Flow sensor	Input for the flow sensor (active GND)
S	Pressure sensor	Input for the pressure sensor (0 to 20mA or 4 to 20mA)
T	Speed sensor	Input for the speed sensor (active GND). Proximity or Radar type
U*	Balance Up OR Foam left	Output of the UP function of the Boom balance switch (Active GND) <b>OR</b> Output for the Foam Left switch (Active GND)
V	Remote Power ON/OFF	Optional Output for remote ON/OFF switching of the Junction Box
W*	Balance Down OR Foam Right	Output of the DOWN function of the Boom balance switch (Active GND) <b>OR</b> Output for the Foam Right switch (Active GND)
X*	Foam Marker Pump Out	Output for driving the Foam Marker Pump
Y	GND Printer	Separate GND for supply for printer
Z	+12V Switched input	Separate +12V supply for printer (Switched by main relay in junction box)
a	Reg. Valve +	Output with the plus signal for the regulating valve
b	Reg. Valve -	Output with the minus signal for the regulating valve
c	+12V Switched input	+12V Input (after main relay on Junction Box PCB). Supply for Main valve and Boom section valve outputs
d	Ground (-)	Supply GND
e	+12V supply	+12V Supply for Console

Counter part (female): Plug: COC\_UTG62028SN / Pins: COC\_SC16M11D70

\* Optional kit for the TJ844

## Connection details, Main cable from TJ844-E to Junction Box

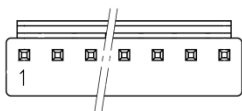
### J9 - RELAYS



(Front view)

Pin	Colour	Signal	Counterpart (female)
1	White/Pink	+12V OUT	Not available
2	Brown/Green	Balance Up <b>OR</b> Foam Left	
3	Yellow/Brown	Balance Down <b>OR</b> Foam Right	
4	White/Grey	Foam Marker Pump	
5	Grey/Brown	GND OUT	

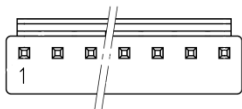
### J10 - SENSORS



(Front view)

Pin	Colour	Signal	Counterpart (female)
1	Brown/Red	+12V for console. Before master relay	Not available
2	Brown/Blue	+12V out - After master relay	
3	White/Yellow	Remote On/Off	
4	White/Red	GND	
5	Grey/Pink	Flow signal	
6	White/Green	Speed signal	
7	Red/Blue	Water pressure signal	
8	Pink/Brown	Reg. valve +	
9	White/Blue	Reg. valve -	

### J11 - SECTIONS



(Front view)

Pin	Colour	Signal	Counterpart (female)
1	Brown	Section 1	Not available
2	Yellow	Section 2	
3	Green	Section 3	
4	Grey	Section 4	
5	Pink	Section 5	
6	Blue	Section 6	
7	Red	Section 7	
8	Black	Section 8	
9	Violet	Section 9	
10	White	Master	

## Connection details, Sensors to Junction Box

### D - FLOW



1 2 3

(Front view)

Pin	Signal
1	GND
2	+12V out
3	Flow

### E - WATER PRESSURE



1 2 3

(Front view)

Pin	Signal
1	GND
2	+12V out
3	Water Pressure

### F - SPEED



1 2 3

(Front view)

Pin	Signal
1	GND
2	+12V out
3	Speed

## Connection details, Junction Box to Valves

### G - WATER REGULATION VALVE



1 2 3

(Front view)

Pin	Signal
1	GND
2	Reg. Valve +
3	Reg. Valve -

### H → Q - MASTER VALVE (H) AND SECTION VALVES (I → Q / Section 1 → 9)



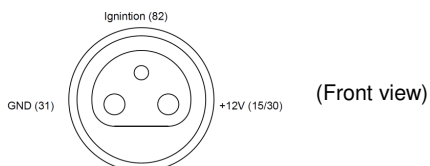
1 2 3

(Front view)

Pin	Valve OFF	Valve ON
1	GND	GND
2	+12V out	GND
3	GND	+12V out

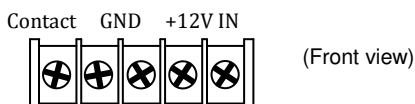
## Connection details, Junction Box in general

### R – COBO POWER PLUG



Pin	Colour	Signal	Counterpart (female)
+12V	Brown	+12V	Power cable with fuse: 96ET14
GND	Blue	GND	
Ignition	Not used		

### J1 - POWER



Pin	Signal	Counterpart
1	+12V IN	15m Power cable with Cobo plug: 198-683
2	+12V IN	
3	GND IN	
4	GND IN	
5	Not used	

### J6 - FOAM MARKER PUMP CONTROL (OPTIONAL)



Pin	Relay OFF	Relay ON	Parts required
1	GND	GND	Relay: RL012C1/16000 Retaining clip: RLAF000
2	+12V	+12V	
3	GND	+12V	

### J7 - FOAM MARKER RIGHT OR BOOM CONTROL DOWN (OPTIONAL)



Pin	Relay OFF	Relay ON	Parts required
1	GND	GND	Relay: RL012C1/16000 Retaining clip: RLAF000
2	+12V	+12V	
3	GND	+12V	

### J8 - FOAM MARKER LEFT OR BOOM CONTROL UP (OPTIONAL)



Pin	Relay OFF	Relay ON	Parts required
1	GND	GND	Relay: RL012C1/16000 Retaining clip: RLAF000
2	+12V	+12V	
3	GND	+12V	