

F650GS 2002 No ABS					F650GS 2002 ABS			
X9001 – Dash Connector					X9001 – Dash Connector			
Pin	Color	Signal	I/O	Description	Pin	Color	Signal	I/O
1	Rt	30		Unswitched Power	1	Rt	30	I
2	Gn	15	V+	Switched Power	2	Gn	15	V+
3	Ge/Br	Tacho		Speedo I/P from ABS	3	GE	Tacho	I
4	Sw	KI.1		To BMS – RPM I/P	4	Sw	KI.1	I
5	Br	31		Earth	5	Br	31	Eth
6	Bl/Ge	VFZ		Speedo O/P to BMS	6	Bl/Ge	VFZ	O
7	Ws/Bl	C		Fuel Level I/P	7	Ws/Bl	C	I
8	Ws/Gn	W		To Fuel Lamp	8	Ws/Gn	W	O
9	NC	15A		Spare Sw Pwr O/P	9	NC	15A	V+
10				From ABS (on/off)	10	Ws/Ge	ABSW	I
11				To ABS Lamp	11	Ws/Sw	ABSWL	O
12	Ws/Br	SEH-		From Wheel Sensor	12	NC	SEH+	Eth

F650GS 2006 No ABS					F650GS/M 2006 US			
X9001 – Dash Connector					X9001 – Dash Connector			
Pin	Color	Signal	I/O	Description	Pin	Color	Signal	I/O
1	Rt	30		Unswitched Power	1	Rt/Ws	30	I
2	Gn	15	V+	Switched Power	2	Gn/Ge	15	V+
3	Ge/Br	Tacho		Speedo I/P from ABS	3	GE	Tacho	I
4	Sw	KI.1		To BMS – RPM I/P	4	Sw/Gn	KI.1	I
5	Br	31		Earth	5	Br	31	Eth
6	Bl/Ge	VFZ		Speedo O/P to BMS	6	Bl/Ge	VFZ	O
7	Ws/Bl	C		Fuel Level I/P	7	Ws/Bl	C	I
8	Ws/Gn	W		To Fuel Lamp	8	Ws/Gn	W	O
9	NC			Spare Sw Pwr O/P	9	NC	15A	V+
10	Ws/Ge	ABSW		From ABS (on/off)	10	Ws/Ge	ABSW	I
11	Ws/Sw	ABSWL		To ABS Lamp	11	Ws/Sw	ABSWL	O
12	Ws/Br	SEH-		From Wheel Sensor	12	NC	SEH+	Eth

**Note** ABS Lamp is on/off via a switched earth from dash X9001 Pin 11 (Earth = Off)  
SS and DS F's swap where rear wheel sensor goes ABS or Speedo pin 3 & 12

X9028 All – 2000-07 Models			
1	Br		Earth
2	GnBl		Switched Power
3	Ws		High Beam
4	BIRt		Left Indicator
5	BISw		Right Indicator
6	BrWs		Oil Pressure Lamp
7	WsSw	ABSWL	ABS Lamp
8	BrSw		Neutral Lamp
9	WsGn		Fuel Lamp
10	Vi		Water Temp Lamp

Socket Layout	
1	5
2	6
	7
	8
3	9
4	10

Note – Pin 2 of X9028 is GnGe on 05-07 Model

G650GS 2008 US ABS X9001 – Dash Connector				G650GS 2008 US No ABS X9001 – Dash Connector		
Pin	Color	Signal	Description	Pin	Color	Signal
1	Rt/Ws	30	Unswitched Power			
2	Gn/Ge	15	Switched Power			
3	GE	Tacho	Speedo I/P from ABS			
4	Sw/Gn	KI.1	To BMS – RPM I/P			
5	Br	31	Earth			
6	Bl/Ge	VFZ	Speedo O/P to BMS			
7	Ws/Bl	C	Fuel Level I/P			
8	Ws/Gn	W	To Fuel Lamp			
9		15A	Spare Sw Pwr O/P			
10	Ws/Ge	ABSW	From ABS (on/off)			
11	Ws/Sw	ABSWL	To ABS Lamp			
12	NC	SEH-	From Wheel Sensor			

X9028 – All 2008-09 Models			
1	Br		Earth
2	GnGe		Switched Power
3	Ws		High Beam
4	BlRt		Left Indicator
5	BlSw		Right Indicator
6	BrWs		Oil Pressure Lamp
7	WsSw	ABSWL	ABS Lamp
8	BrSw		Neutral Lamp
9	WsGn		Fuel Lamp
10	Vi		Water Temp Lamp

Socket Layout

1	5
2	6
	7
	8
3	9
4	10

G650GS 2011 US ABS X9001 – Dash Connector				G650GS 2012 US No ABS X9001 – Dash Connector		
Pin	Color	Signal	Description	Pin	Color	Signal
1	WS	56a	From High Beam	1	WS	56a
2	Rt/Ws	30	Unswitched Power	2	Rt/Ws	30
3			Rear Wheel Sensor	3	Ws/Sw	SEH+
4	Br	31	Earth	4	Br	31
5	Gn/Ge	15	Switched Power	5	Gn/Ge	15
6	Ws/Ge	ABS-W	From ABS (on/off)	6	Ws/Ge	ABS-W
7	Br/Sw	N	Gear Pos Sw	7	Br/Sw	N
8	Vi	KT	From BMS Coolant	8	Vi	KT
9	N/C			9		
10	GE	Tacho	Speedo I/P from ABS	10		
11	Bl/Ge	TAA	Speedo O/P to BMS	11	Bl/Ge	TAA
12	Sw/Gn	KI.1	To BMS – RPM I/P	12	Sw/Gn	KI.1
13	N/C			13		
14	N/C			14		
15	Ws/Bl	C	From Fuel Level Sw	15	Ws/Bl	C
16	Bl/Rt	BL	From LHS Flasher	16	Bl/Rt	BL
17	N/C		Rear Wheel Sensor	17	Ws/Br	SEHS
18	Bl/Sw	BR	From RHS Flasher	18	Bl/Sw	BR