

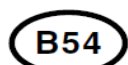
Function	Port	Circuit	AMP	Note
Power In (+12V)			1	
VSS	PT0	VR1	2	
Brake Sense	AD7	GPI4	3	
Paddle DOWN	AD6	GPI5	4	
2WD/4WD switch/switch D	PE1	GPI1	5	
switchB	AD1	GPI2	6	
LED2	PM3	GPO2	7	
LED3	PM5	GPO3	8	
LED4	PB4	GPO4	9	
LED1	PM4	GPO1	10	
Spare Output1 (LU Feel/Clutch)	PT7	VB1 (jumper)	11	
Spare Output2 (Clutch)	PA0	VB2	12	
CANH			13	
Input Shaft Sensor	PT5	VR3	14	
Paddle UP	PT6	VR2	15	
CANL			16	
Sensor Ground (Temperature/VSS/pressure sensor)			17	
Power Grounds			18	
Power Grounds			19	
Power Grounds			20	
Empty				
Empty				
Sol A	PE4	VB3	23	
non-CAN MAP/TPS/MAF	AD5	EGT1	24	
switchC	AD3	EGT3	25	
switchA	AD0	EGT4 (jumper)	26	
line pressure sensor	AD4	EGT2	27	
Vref (+5V)			28	

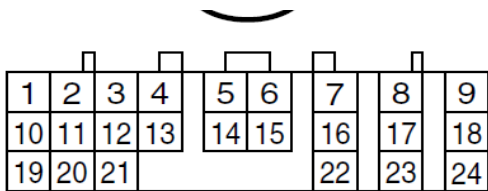
Temp Sensor	AD2	GPI3	30
Speedo Output	PT4	PWM1	31
TCC	PT3	PWM2	32
PC	PT2	PWM3	33
Sol32/Sol C	PT1	PWM4	34
Sol B	PM2	VB4	35

Subaru 5EAT TCU Inputs Outputs

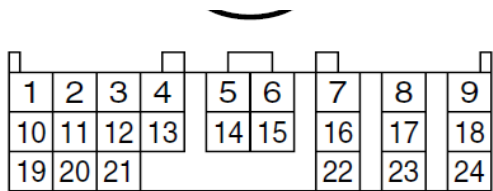
	Connection	Pin
Battery power supply	B54	1 B54=A
ATF temp sensor 1 input	B54 5eat	2
CAN communication line (-)	B54	3
CAN communication line (+)	B54	4

Power GND	B54		5
I/C oil pressure switch input	B54	5eat	6 Input clutch
PVIGN Power Supply	B54		7
PVIGN Power Supply	B54		8
P/L Solenoid Output	B54	5eat	9 Line pressure
PVIGN power supply Relay Output	B54		10
ATF temp sensor 2 input	B54	5eat	11
LC/B oil pressure switch input	B54	5eat	12 Low coast brake
Analog GND (Sensor GND)	B54		13
Power GND	B54		14
LC/B solenoid output	B54	5eat	15 Low coast brake
Control valve power supply output	B54	5eat	16
H&LR/C solenoid output	B54	5eat	17 High & low reverse clutch
I/C solenoid output	B54	5eat	18 Input clutch
Control GND	B54	5eat	19
Subaru Select Monitor comm line	B54		20
D/C oil pressure switch input	B54	5eat	21 Direct clutch
D/C solenoid output	B54	5eat	22 Direct clutch
L/U solenoid output	B54	5eat	23 Lock up TCC
Fr/B solenoid output	B54	5eat	24 Front brake
<hr/>			
Ignition power supply	B55		1
Accessory power supply	B55		2
Inhibitor switch 2 input	B55	5eat	3
Inhibitor switch 1 input	B55	5eat	4
Lateral G sensor signal input	B55		5
Lateral G sensor power supply	B55		6
Front vehicle speed sensor input	B55	5eat	7
H&LR/C oil pressure switch input	B55	5eat	8 High & low reverse clutch
	B55		9
Ignition power supply	B55		10
Back-up light relay output	B55		11
Control valve comm line	B55	5eat	12
Inhibitor switch 4 input	B55	5eat	13
Inhibitor switch 3 input	B55	5eat	14
Range lock solenoid output	B55		15 Park Shift Lock?
Turbine speed sensor 1 input	B55	5eat	16
Fr/B oil pressure switch input	B55	5eat	17 Front brake
Rear vehicle speed sensor input	B55	5eat	18
PN signal output	B55	5eat	19
Inhibitor switch 3 open circuit monitor input	B55	5eat	20
Control GND	B55	5eat	21
Turbine speed sensor 2 input	B55	5eat	22
AWD solenoid output	B55	5eat	23 Transfer clutch
	B55		24





1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24



1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21				22	23	24