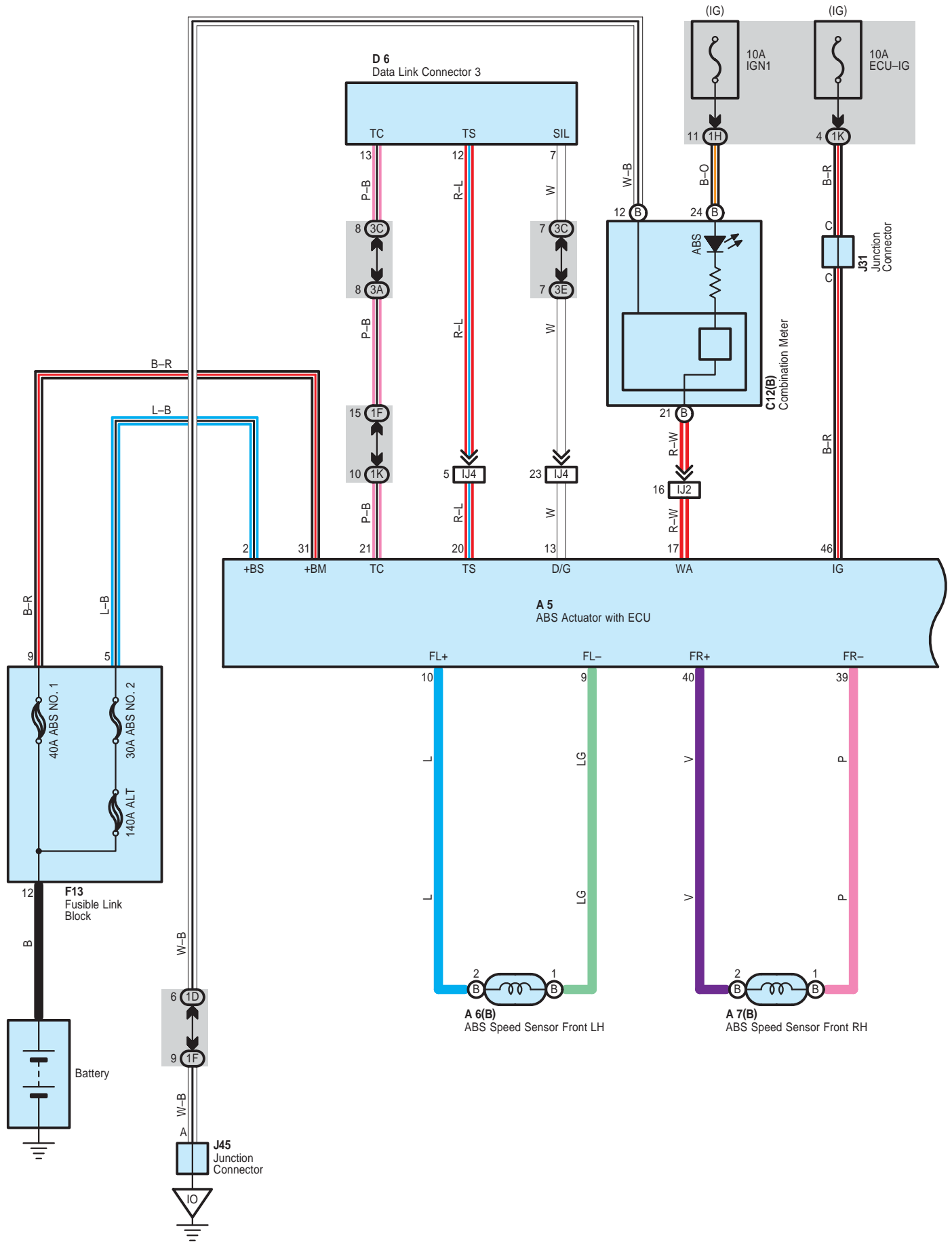
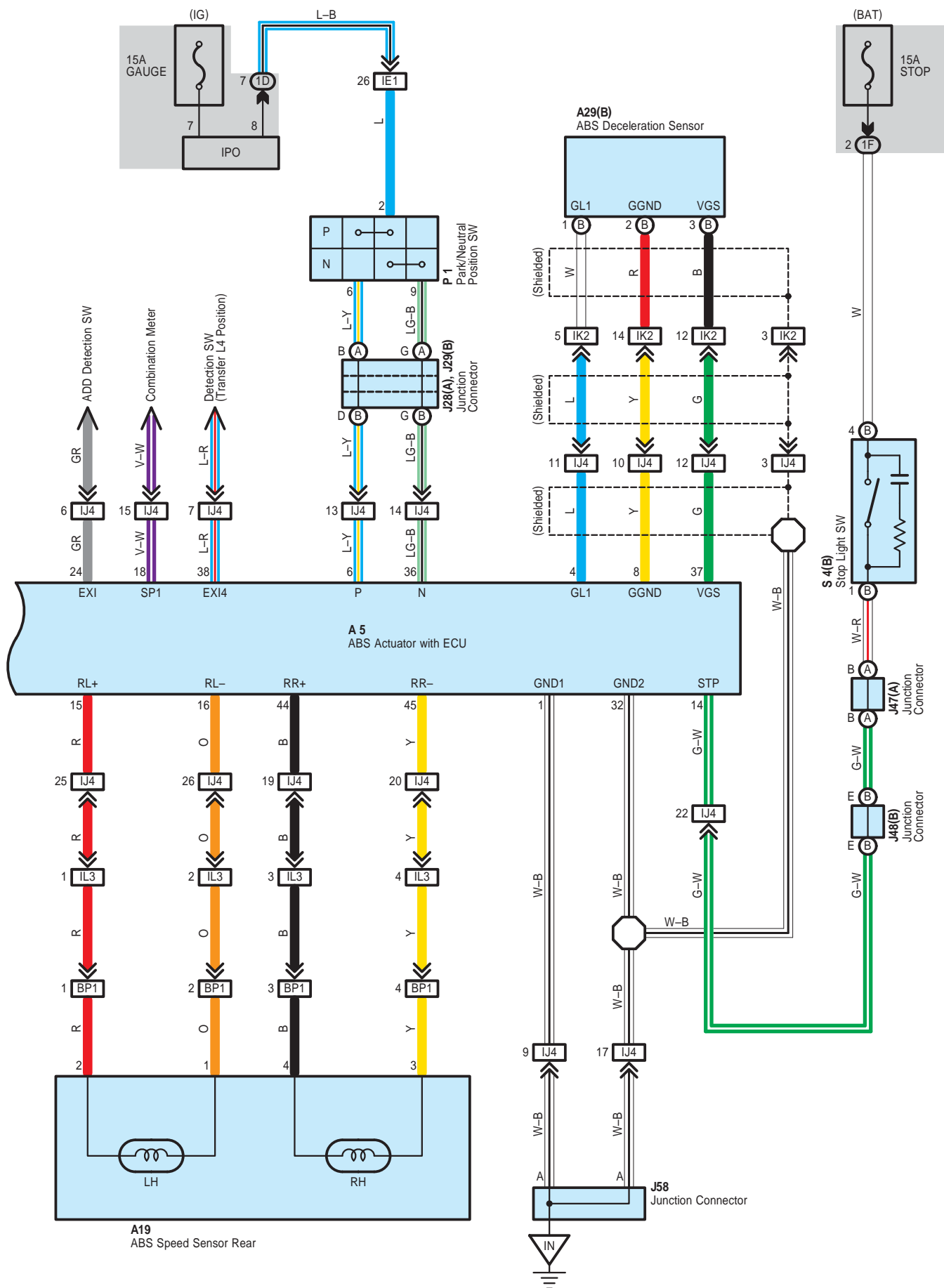


# ABS without VSC (Double Cab)





# ABS without VSC (Double Cab)

## System Outline

This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel, and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.

### 1. Input Signal

#### (1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the ABS actuator with ECU.

#### (2) Stop light SW signal

A signal is input to TERMINAL STP of the ABS actuator with ECU when the brake pedal is depressed.

### 2. System Operation

During sudden braking, the ABS actuator with ECU which has signals input from each sensor lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir.

The pump inside the ABS actuator with ECU is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of vehicle wheels.

If the ABS actuator with ECU judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current acting on the solenoid is controlled and the hydraulic pressure is increased.

Holding of the hydraulic pressure is also controlled by the ECU, by the same method as above, by repeated pressure reduction. Holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

## ○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A5	70	D6	73	J47	A 74
A6	B 70	F13	70	J48	B 74
A7	B 70	J28	A 74	J58	74
A19	76	J29	B 74	P1	71
A29	B 72	J31	71	S4	B 75
C12	B 72	J45	74		

## ○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	49	Cowl Wire and Driver Side J/B (Lower Finish Panel)
1F		
1H		
1K	49	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
3A	52	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3C		
3E		

## □ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	93	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IJ2	93	Engine Room Main Wire and Cowl Wire (Cowl Side Panel RH)
IJ4		
IK2	93	Floor Wire and Cowl Wire (Right Kick Panel)
IL3	93	Floor No.2 Wire and Cowl Wire (Instrument Panel Brace RH)
BP1	94	Frame Wire and Floor No.2 Wire (Under the Driver's Seat)

## ▽ : Ground Points

Code	See Page	Ground Points Location
IN	92	Right Kick Panel
IO	92	Left Kick Panel

