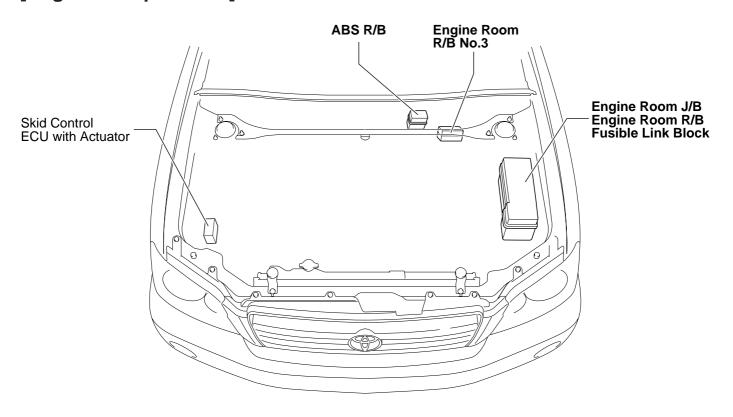
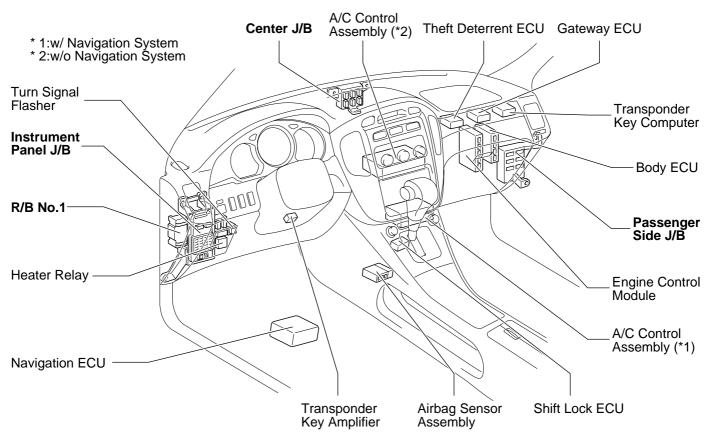
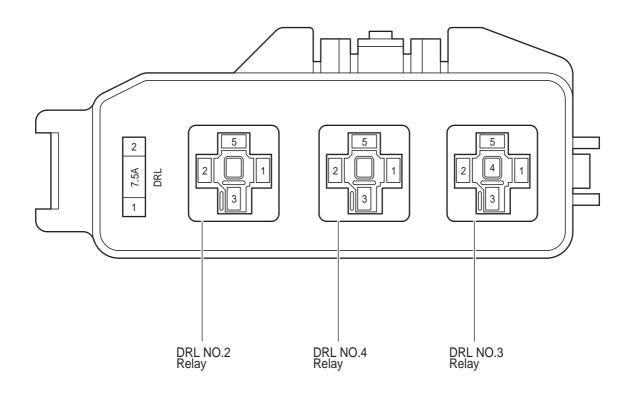
[Engine Compartment]



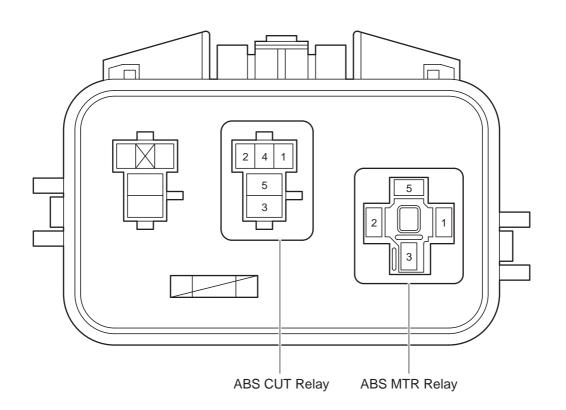
[Instrument Panel]



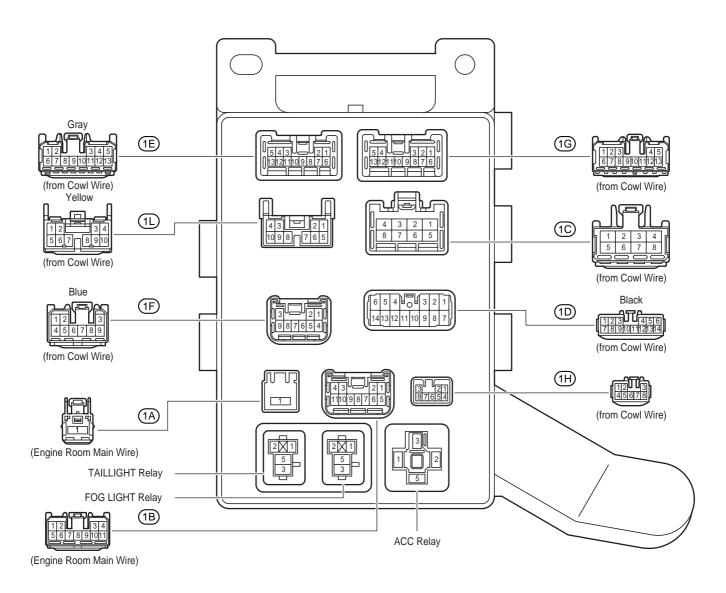
③ : Engine Room R/B No.3 | Engine Compartment Rear Left (See Page 20)

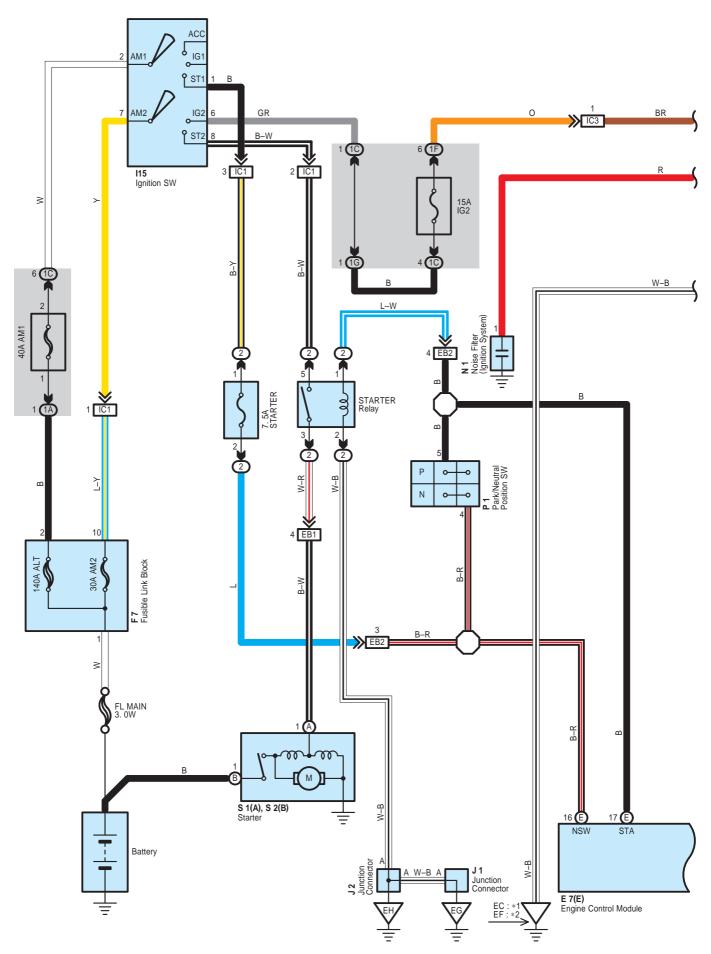


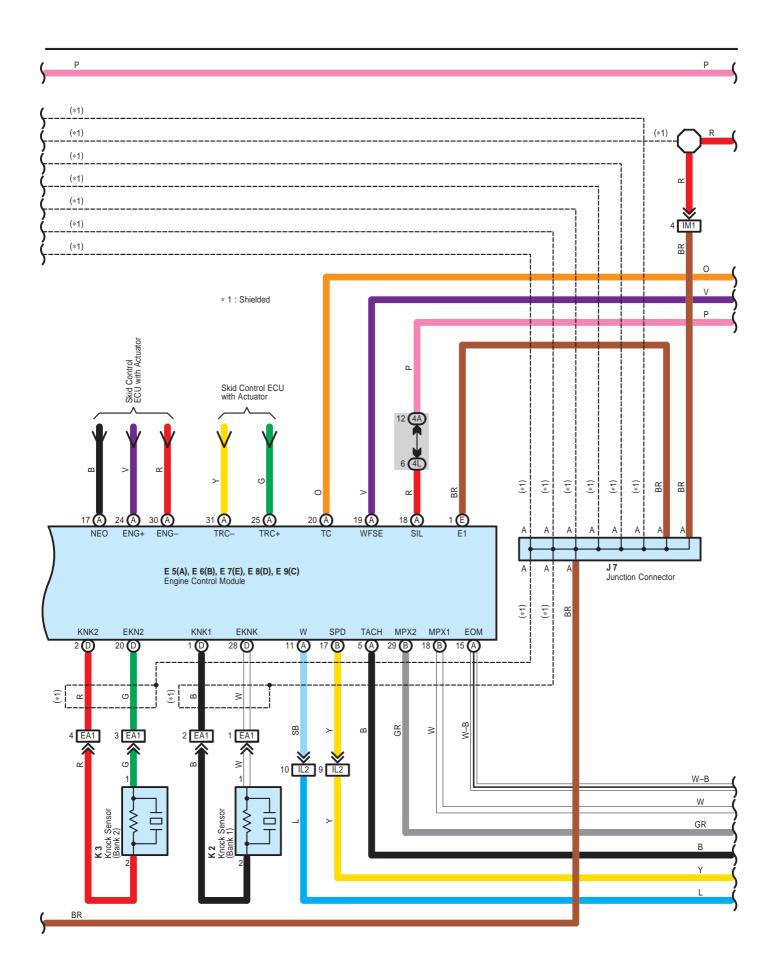
⑤ : ABS R/B Engine Compartment Rear Left (See Page 20)



(Inner Circuit : See Page 35)







Engine Control for 2AZ-FE

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (12) etc.) to the engine control module. And the control signal is output to TERMINALS #1, #2, #3 and #4 of the engine control module to operate the injector (Inject the fuel). The SFI system controls the fuel injection operation by the engine control module in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input to the engine control module from each sensor (Input signals from (1) to (12) etc.). The best ignition timing is decided according to this data and the memorized data in the engine control module and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the malfunction indicator lamp.

4. Fail-safe System

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail—safe system either controls the system by using data (Standard values) recorded in the engine control module memory or else stops the engine.

: Parts Location

| Co | de | See Page | Co | de | See Page | Co | de | See Page |
|-----|----|------------------------|------|----|-------------|-------------|----|-------------|
| А | .6 | 40 (2AZ-FE) | E6 B | | 42 | K | 1 | 41 (2AZ-FE) |
| A10 | А | 42 E7 E 42 | | N | 11 | 41 (2AZ-FE) | | |
| A11 | В | 42 | E8 | D | 42 | С | 1 | 41 (2AZ-FE) |
| A17 | В | 42 | E9 | С | 42 | Р | 1 | 41 (2AZ-FE) |
| A | 27 | 42 | F′ | 12 | 44 | Р | 2 | 41 (2AZ-FE) |
| В9 | Α | 42 | G | i1 | 40 (2AZ-FE) | Р | 5 | 44 |
| B10 | В | 42 | G | i5 | 43 | S15 | | 43 |
| С | 1 | 40 (2AZ-FE) | H10 | | 43 | S | 27 | 41 (2AZ-FE) |
| С | 2 | 40 (2AZ-FE) | 18 | В | 41 (2AZ-FE) | S28 | Α | 43 |
| С | 6 | 40 (2AZ-FE) | 19 | В | 41 (2AZ-FE) | S29 | В | 43 |
| C7 | В | 40 (2AZ-FE) | I10 | В | 41 (2AZ-FE) | S30 | Α | 43 |
| C11 | Α | 42 | l11 | В | 41 (2AZ-FE) | S31 | В | 43 |
| C12 | В | 42 | J2 | | 41 (2AZ-FE) | Т | 3 | 41 (2AZ-FE) |
| C17 | | 44 | J6 | | 43 | T. | 13 | 41 (2AZ-FE) |
| D3 | | 42 | J7 | | 43 | T, | 14 | 43 |
| E2 | В | 40 (2AZ–FE) J16 43 V16 | | 16 | 41 (2AZ-FE) | | | |
| E5 | Α | 42 | J1 | 19 | 44 | V. | 15 | 45 |

: Relay Blocks

| Code | See Page | Relay Blocks (Relay Block Location) | | |
|------|----------|---|--|--|
| 1 | 24 | t/B No.1 (Lower Finish Panel) | | |
| 2 | 22 | Engine Room R/B (Engine Compartment Left) | | |

ECT and A/T Indicator for 3MZ-FE

0

: Junction Block and Wire Harness Connector

| Code | See Page | Junction Block and Wire Harness (Connector Location) | | | |
|------|----------|---|--|--|--|
| 1E | 29 | Cowl Wire and Instrument Panel J/B (Lower Finish Panel) | | | |
| 1G | 29 | Cow whe and institution rane 3/B (Lower Fillish Faller) | | | |
| 1K | 28 | Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel) | | | |
| 2A | | | | | |
| 2B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) | | | |
| 2F | | | | | |
| 3A | | | | | |
| 3B | | | | | |
| 3C | 30 | Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center) | | | |
| 3D | 31 | | | | |
| 3E | | | | | |
| 3F | | | | | |
| 3H | | | | | |
| 3J | | | | | |
| 3K | | | | | |
| 4A | | | | | |
| 4D | 33 | | | | |
| 4E | | | | | |
| 4F | | Cowl Wire and Passenger Side J/B (Right Side of Grove Box) | | | |
| 4H | | - Committee and a description of the first of the bony | | | |
| 4K |] | | | | |
| 4L | 32 | | | | |
| 4M | | | | | |

: Connector Joining Wire Harness and Wire Harness

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) | | | |
|------|----------|--|--|--|--|
| IB2 | 50 | Front Door LH Wire and Cowl Wire (Left Kick Panel) | | | |
| IC3 | - 50 | Fasing Boom Main Wise and Coul Wise /I off Coul Cida Bonal\ | | | |
| IC4 |] 30 | Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel) | | | |
| IF3 | 50 | Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B) | | | |
| IK2 | - 51 | Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel) | | | |
| IK3 | 131 | Lingine Room Main Wire and Cowi Wire (Right Cowi Side Panel) | | | |
| IL2 | 51 | Instrument Panel Wire and Cowl Wire (Upper Side of Passenger Side J/B) | | | |
| IM1 | 51 | Engine Wire and Cowl Wire (Right Kick Panel) | | | |

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: Ground Points

| Code | See Page | Ground Points Location |
|------|-------------|------------------------------|
| EC | 48 (3MZ-FE) | Left Side of Cylinder Head |
| ED | 48 (3MZ-FE) | Rear Side of Cylinder Head |
| EH | 48 (3MZ-FE) | Under the Left Headlight |
| IB | 50 | Right Instrument Panel Brace |

Headlight with Daytime Running Light

System Outline

1. Daytime Running Light Operation

The headlight is turned on when all the following conditions are satisfied

- * When the ignition switch is ON position
- * When the generator is generating electricity
- * When the light control SW is OFF position
- * When the parking brake SW is OFF position

2. Headlight Operation

- * The headlight comes on at the LOW position when the dimmer SW is turned to the low beam position with the light control SW being HEAD position.
- * If the dimmer SW is turned to the HIGH position with the light control SW being HEAD position, the headlight comes on at the high beam position. Moreover, the high beam indicator light appears on the combination meter.
- * Regardless of the light control SW positions, the headlight comes on at the low beam position when the dimmer SW is turned to FLASH position. Moreover, the high beam indicator light appears on the combination meter.

: Parts Location

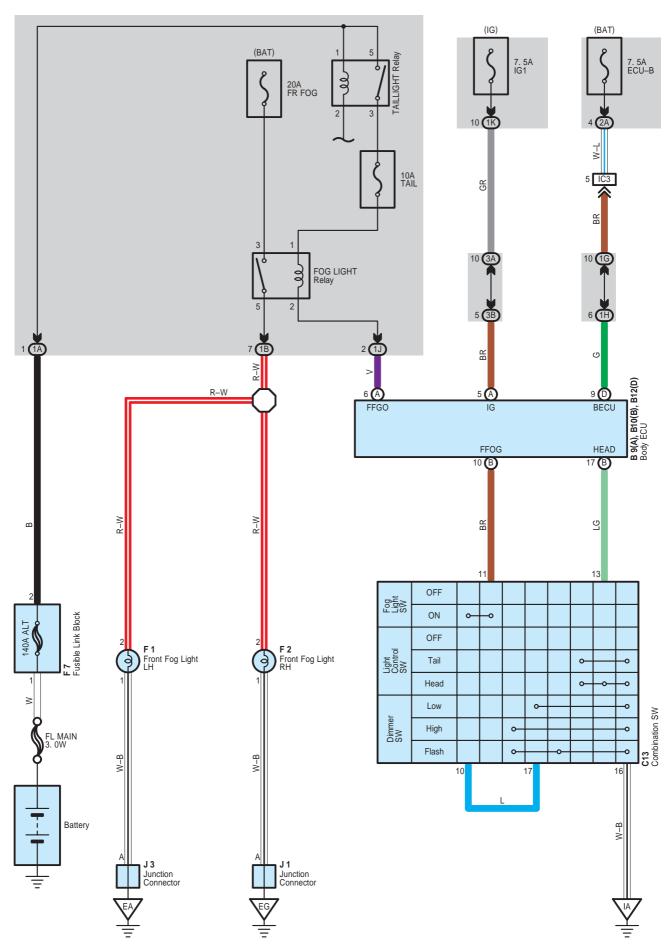
| Code | | See Page | Code | See Page | Code | See Page |
|------|---|----------|------|-------------|------|-------------|
| B9 | А | 42 | H1 | 38 (3MZ-FE) | H4 | 40 (2AZ-FE) |
| B10 | В | 42 | 111 | 40 (2AZ-FE) | J1 | 39 (3MZ-FE) |
| B11 | С | 42 | H2 | 38 (3MZ-FE) | 31 | 41 (2AZ–FE) |
| B12 | D | 42 | 112 | 40 (2AZ-FE) | J3 | 39 (3MZ-FE) |
| C11 | Α | 42 | H3 | 38 (3MZ-FE) | 33 | 41 (2AZ–FE) |
| C12 | В | 42 | 113 | 40 (2AZ-FE) | M3 | 43 |
| C13 | | 42 | H4 | 38 (3MZ-FE) | P3 | 43 |

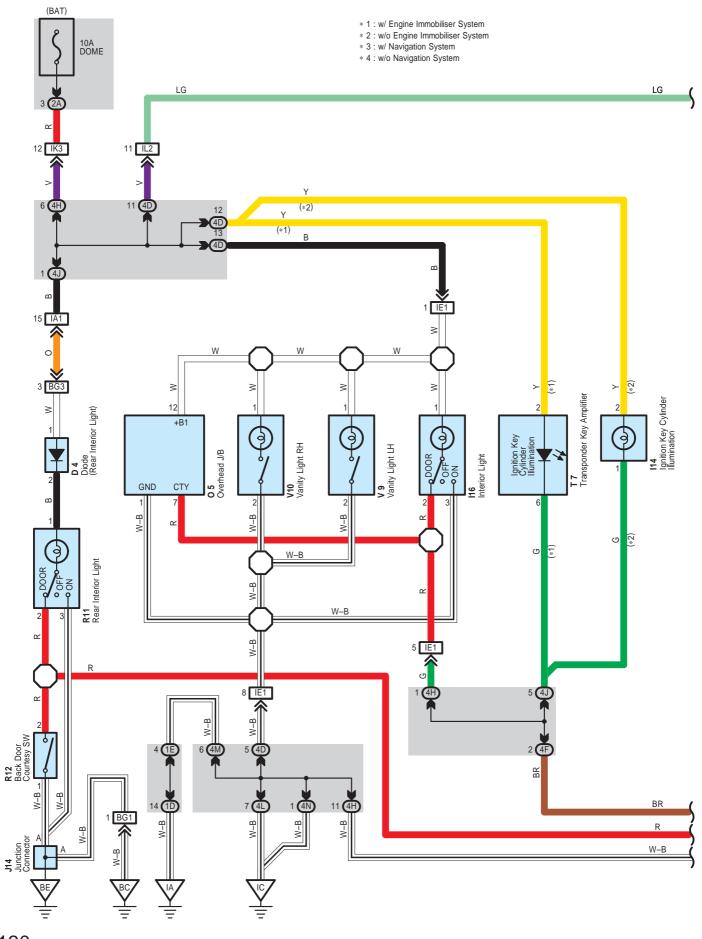
: Relay Blocks

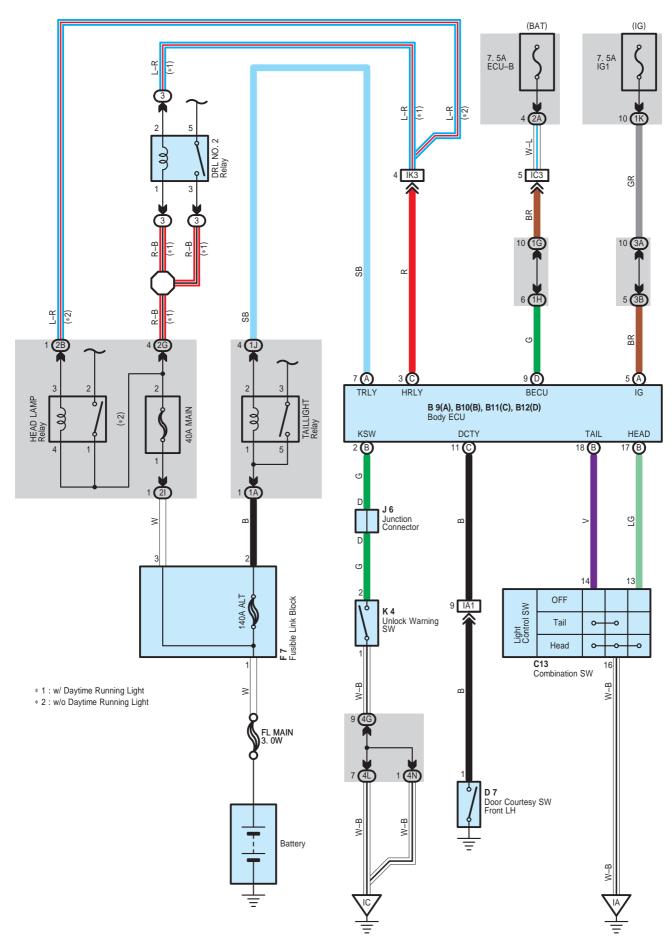
| Code | See Page | Relay Blocks (Relay Block Location) | | | |
|------|--|-------------------------------------|--|--|--|
| 2 | 22 Engine Room R/B (Engine Compartment Left) | | | | |
| 3 | 23 Engine Room R/B No.3 (Engine Compartment Rear Left) | | | | |

: Junction Block and Wire Harness Connector

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1G | 29 | Cowl Wire and Instrument Panel J/B (Lower Finish Panel) |
| 1H | 29 | Cowi Wile and institution Faller 3/5 (Lower Fillish Faller) |
| 1J | 28 | Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel) |
| 1K | 20 | This trainer who are modulity and by (Edwarf mishr and) |
| 2A | | |
| 2B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2F |] | Engine Room wain wife and Engine Room o/b (Engine Compartment Lett) |
| 2G | | |
| 3A | 30 | Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center) |
| 3B | | |
| 3C | | |
| 3F | | |
| 4A | | |
| 4F | 33 | |
| 4H | | Cowl Wire and Passenger Side J/B (Right Side of Grove Box) |
| 4L | 32 | Toom will and I assertiget olde ord (right olde of orove box) |
| 4M | | |
| 4N | | |







Trailer Towing

O : Parts Location

| Co | de | See Page | Code | See Page | Code | See Page |
|-----|----|-------------|------|----------|------|----------|
| A10 | | 42 | J10 | 44 | S15 | 43 |
| B9 | Α | 42 | J12 | 44 | T8 | 43 |
| C | 13 | 42 | J13 | 44 | T9 | 45 |
| F7 | | 38 (3MZ-FE) | J20 | 43 | T10 | 45 |
| F / | | 40 (2AZ-FE) | M3 | 43 | | |

: Junction Block and Wire Harness Connector

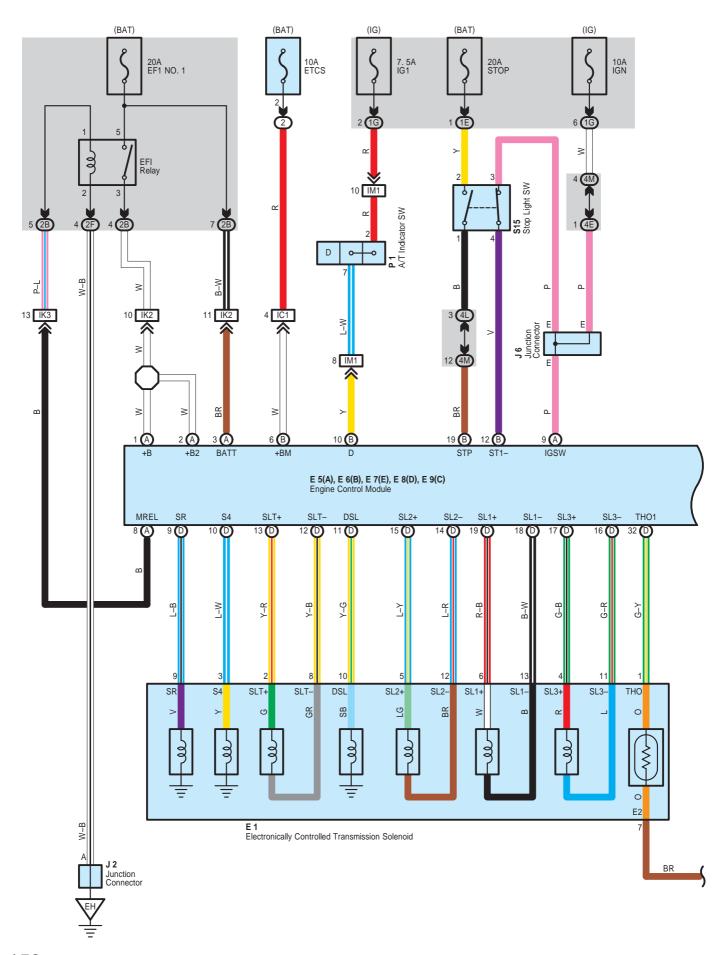
| Code | See Page | Junction Block and Wire Harness (Connector Location) | | | | | |
|------|----------|---|--|--|--|--|--|
| 1A | 29 | Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel) | | | | | |
| 1D | | | | | | | |
| 1E | 29 | Cowl Wire and Instrument Panel J/B (Lower Finish Panel) | | | | | |
| 1H |] | | | | | | |
| 2B | - 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) | | | | | |
| 2F | | Engine Room Main Wile and Engine Room 3/D (Engine Compartment Left) | | | | | |
| 3B | 30 | Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center) | | | | | |
| 3E | | Instrument and wife and ochief 5/5 (Schilla the Instrument) | | | | | |
| 4C | | | | | | | |
| 4E | 33 | | | | | | |
| 4G | | Cowl Wire and Passenger Side J/B (Right Side of Grove Box) | | | | | |
| 4L | - 32 | | | | | | |
| 4M | | | | | | | |

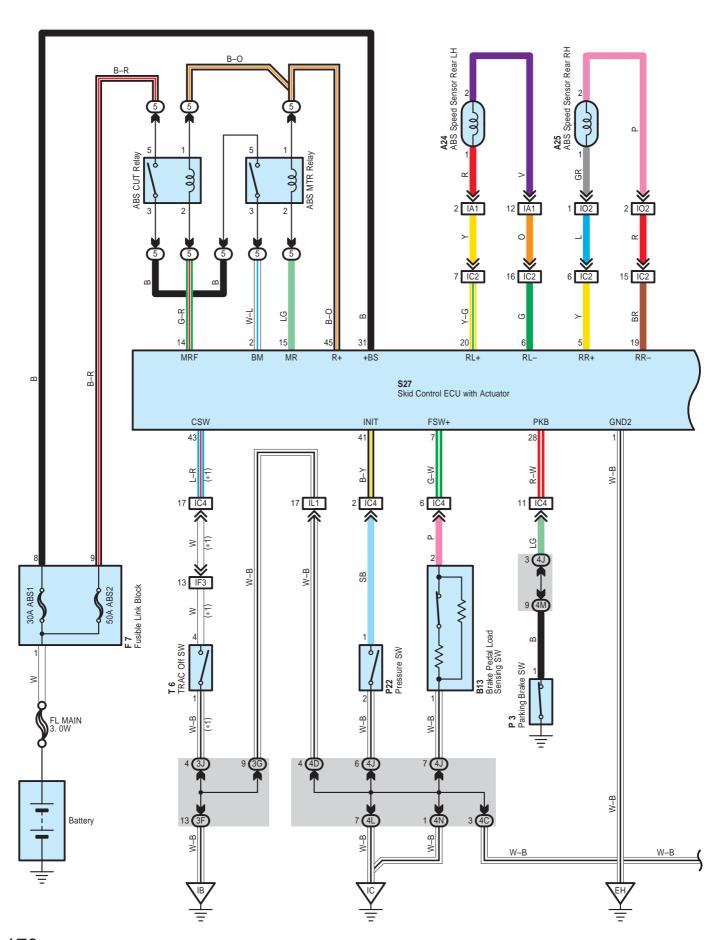
: Connector Joining Wire Harness and Wire Harness

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) | | | | |
|------|---|---|--|--|--|--|
| IA1 | 50 | Cowl Wire and Floor No.2 Wire (Left Kick Panel) | | | | |
| IA2 | 1 30 | | | | | |
| IC2 | 50 | Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel) | | | | |
| IC3 |] 30 | Engine Room Main Wire and Cowi Wire (Left Cowi Side Parier) | | | | |
| IL2 | 51 Instrument Panel Wire and Cowl Wire (Upper Side of Passenger Side J/B) | | | | | |

: Ground Points

| Code | See Page | Ground Points Location |
|------|----------------------------|--------------------------------|
| IA | IA 50 Left Cowl Side Panel | |
| ВС | 52 | Left Side of Rear Cross Member |





Wireless Door Lock Control

System Outline

In this system, the wireless door lock ECU receivers weak radio wave transmitted from the transmitter and outputs a signal to the body ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. Normal Operation

* Lock operation

When the lock SW on the transmitter is pressed, all the doors are locked.

* Unlock operation

When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2 Auto Lock Function

After all the doors are unlocked by pushing the UNLOCK SW of the transmitter, unless each of the doors is opened or the ignition key is inserted, all the doors are locked again.

3. Wireless Door Lock Stop Function

If any of the following conditions are detected, the wireless door lock does not function.

Lock operation

- * When any door is open (Door courtesy SW on)
- * The ignition key is inserted into the ignition SW (Unlock warning SW on)
- * Ignition SW is on

Unlock operation

* Ignition SW is on

4. Visual Confirmation of Lock or Unlock

When doors are locked by using the transmitter, the hazard light flashes once. When doors are unlocked by using the transmitter, the hazard light flashes twice. If UNLOCK SW of the transmitter is pushed while all the doors are locked, doors are unlocked and the interior light and ignition key cylinder light are turned on simultaneously.

5. Panic Mode Function

When the panic SW on the transmitter is pressed, the panic mode is activated. The panic mode is canceled when the unlock SW or panic SW is pressed.

6. Repeat Function

If the lock detection signal in response to the output signal is not received after the wireless door lock ECU has output the lock signal, the lock signal is output again.

: Parts Location

| Code | | See Page | Code | | See Page | Code | | See Page |
|-------|------|----------|------|---|----------|------|----|-------------|
| A10 | Α | 42 | D11 | | 44 | J16 | | 43 |
| A11 B | | 42 | D12 | | 44 | J18 | | 44 |
| A17 | В | 42 | D13 | | 44 | J19 | | 44 |
| B9 | A 42 | | D14 | | 44 | K4 | | 43 |
| B10 | B 42 | | D15 | | 44 | O5 | | 44 |
| B11 | С | 42 | E6 | В | 42 | P5 | | 44 |
| B12 D | | 42 | G5 | | 43 | R12 | | 45 |
| B15 | | 44 | l14 | | 43 | S30 | Α | 43 |
| C11 | Α | 42 | l16 | | 44 | S31 | В | 43 |
| C12 | В | 42 | J5 | | 43 | T4 | | 43 |
| D3 | | 42 | J6 | | 43 | T7 | | 43 |
| D7 | | 44 | J10 | | 44 | T8 | | 43 |
| D8 | | 44 | J12 | | 44 | 1 1 | 15 | 39 (3MZ-FE) |
| D9 | | 44 | J13 | | 44 | - W5 | | 41 (2AZ-FE) |
| D10 | | 44 | J14 | | 44 | W6 | | 45 |