ELECTRICAL WIRING DIAGRAMS

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TOYOTA TRUCK AND 4 RUNNER (GASOLINE) 1985 Model (Page 1 to Page 4)

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TOYOTA TRUCK AND 4 RUNNER (GASOLINE) ELECTRICAL WIRING DIAGRAM-1985 Model (Page 1 to Page 4)

Power Source | Starting | Ignition | EFI

1 | 2 | 3 | 4

A | B | C | D | E | F

IGNITION S/W
ACC
IG1
ST1
IG2
ST2
AM1
AM2
L-R
B-Y
B-W
B-R
W
W-R
AM1(40A)(22R)
FL 80A
FL 30A
FL 2.0L
To Alternator (1-6)
To Magnet S/W (3-5)
BATTERY
B-Y
STARTER
NEUTRAL START S/W (A/T)
(M/T)
From Cruise Control Computer (3-7)
From "ENGINE" Fuse (A/T) (1-5)
B (A/T)
B-W (M/T)
R-L
B(A/T) B-W(M/T)
To Back-up Lights (A/T) (3-1)
COLD START INJECTOR
START INJECTOR TIME S/W
IGNITION COIL
IGNITION COIL CHECK TERMINAL
IGNITER
DISTRIBUTOR
NOISE FILTER
To EFI Computer (1-4)
To Tachometer (2-7)
To A/C Amplifier (2-1)
To Emission Control Computer (1-6) (1-8)
15A EFI
EFI MAIN RELAY
B-Y
B-G
W-B
W-L
OX SENSOR CHECK CONNECTOR
OX SENSOR
CHECK CONNECTOR
VSV FOR FUEL PRESSURE
(4 x 4)
GR
BR
V
R-Y
CHECK ENGINE (COMB. METER)
CIRCUIT OPENING RELAY
FUEL PUMP CHECK CONNECTOR
AIR FLOW METER
KNOCK SENSOR
WATER THERMO SENSOR
CHECK ENGINE CONNECTOR
EFI COMPUTER
RESISTOR
FUEL PUMP
AIR VALVE
NO. 1
NO. 2
NO. 3
NO. 4
INJECTOR
From Stop Light S/W (3-8)
THROTTLE POSITION SENSOR
To Speed Sensor (3-7)
To A/C Ar
From
WATER THERMO S/
B01242

Ground points

a = Located under left front piller

b = Located in right front fender

c = Located on engine block

Charging

Emission Control

5 6 7 8

7.5A CHARGE
15A ENGINE
7.5A IGN

To Combination Meter
To Power Window and Wiper Relay (2-4)
To Back up Light (3-1)
To Light Remainder (4-6)

CHECK ENGINE (COMB. METER)
4 x 4 INDICATOR LIGHT
CHARGE WARNING LIGHT (COMB. METER)
4 x 4 INDICATOR S/W
From Warning Light (2-7) (COMB. METER)
CHOKE HEATER (22R)
To Turn Signal and Hazard S/W (3-1)
To Neutral Start S/W (1-1)
To A/C Amplifier (2-1)
From Igniter (1-2)
WATER THERMO S/W
From FL 80A (1-1)
ALTERNATOR

To Heater Relay & Power Main Relay (2-1)

EACV
EVAPO PURGE VSV
FUEL CUT SOLENOID
COLD MIXTURE HEATER RELAY
MAGNETIC VALVE
From Igniter (1-2)

EMISSION CONTROL COMPUTER (CALIFORNIA C & C)

SPEED SENSOR (COMB. METER)
VCS
VACUUM S/W
THERMO S/W NO. 1
THERMO S/W NO. 2
TWC SENSOR
OX SENSOR
COLD MIXTURE HEATER
From T/M Indicator (3-6)
CHECK CONNECTOR

EMISSION CONTROL COMPUTER (USA Ex. CALIFORNIA 4 x 4 & CANADA)

THERMO S/W NO. 1
VACUUM S/W
SPEED SENSOR (COMB. METER)
COLD MIXTURE HEATER
From T/M Indicator (3-6)

B00252

TOYOTA TRUCK AND 4 RUNNER (GASOLINE) (Cont'd) 2

Air Conditioner, Cooler and Heater

Rear Air Conditioner
(4 Runner)

Power Windows

1 2 3 4

A B D E

From "IGN" Fuse (1-8)

10A A/C

20A HEATER

20A RR HEATER

From "ENGINE" Fuse (1-6)

L(4 Runner)

From EFI Computer (1-4)

From Igniter (1-2)

W-R (22R-E)

W-B (22R-E)

IDLE-UP VSV

LOW PRESSURE S/W

A/C S/W

HEATER RELAY

W-B

BLOWER MOTOR

REAR HEATER RELAY

POWER MAIN RELAY

A/C AMPLIFIER

WARM-UP RELAY (4 x 4)

(W/O 4 x 4)

WATER TEMP. S/W (4 x 4)

MAGNET CLUTCH

THERMISTOR

BLOWER RESISTOR

(W/ A/C)

M1 M2 Lo Hi

HEATER BLOWER S/W

(22R-E)

H L

POWER WINDOW MASTER S/W

UP DOWN

POWER WINDOW S/W

DRIVER

ASSISTANT

POWER WINDOW MOTOR

BACK DOOR WARNING (COMB. METER)

UNLOCK WARNING S/W

a b d e

Ground points

a = Located under left front piller

b = Located in right front fender

d = Located on left rear fender

e = Located on center of back panel

ower Windows

Rear Wiper and Washer
(4 Runner)

Combination Meter

5 6 7 8

A
B
D
E

B
W
20A
PWR
CB

Y

Y R L

POWER WINDOW AND WIPER RELAY
(4 Runner)

G-Y
L-R

REAR WIPER MOTOR
G-Y
L-R
M
REAR WIPER RETRACTION DETECTION S/W
L-G
L-O
W-B

BACK DOOR WARNING LIGHT (COMB. METER)
Y
G-R

L-B
L-Y
R-Y
G-Y
L-B
L-W
R-L
L

POWER WINDOW MOTOR (BACK DOOR)
M

POWER WINDOW S/W
UP
DOWN
L-G

BACK DOOR CONTROL S/W
UP
DOWN
L-G

COVER TOP S/W
L-G

UNLOCK WARNING S/W
G-R

DOOR LOCK DETECTION S/W
G-R
L-R

POWER WINDOW LIMIT S/W
R-L

From Defogger S/W (3-4)

L
L-R
L-G
L-O

	W	B	+1	C	S1	EW
OFF						
ON						
WASHER						

REAR WIPER AND WASHER S/W

L-Y
REAR WASHER MOTOR
M

W-B

Y

OIL
OIL PRESSURE WARNING LIGHT S/W
Y-B

4WD
4WD INDICATOR S/W
R-Y

BRAKE
BRAKE FLUID LEVEL S/W
G-W
W-B

PKB WARNING LIGHT S/W
G-W
W-B

Y-W
To Charge Light Relay (1-4)

G
From Cruise Control Computer (3-7)

OIL
OIL PRESSURE SENDER
Y-B

VOLT

WATER TEMP.
WATER TEMP. SENDER
Y-G

FUEL
FUEL LEVEL SENDER
Y-R
W-B
L

NOISE FILTER

TACH

B
From Igniter (1-2)

W-B
(22R-E)

a
b
d
e

TOYOTA TRUCK, PICKUP (Cont'd)

Combination Meter | Back-up Light | Seat Belt | Overdrive

1 2 3 4

A B C D

To Heater Relay (1-8)
To Glow Plug Indicator Light (3-7)
To Charge Warning Light Relay (1-2)

GAUGES 7.5A

SEDIMENTER (For L)
SEDIMENTER WARNING BUZZER (For L)
SEDIMENTER WARNING LIGHT S/W (For L)
T. BELT (For L)
CANCEL S/W
4WD
4WD INDICATOR LIGHT S/W
OIL
OIL PRESSURE WARNING LIGHT S/W
BRAKE
BRAKE FLUID LEVEL S/W
PKB WARNING LIGHT S/W
VACUUM S/W (For L)
To Charge Light Relay (1-2)
From Cruise Control Computer (2-5)

WATER TEMP
WATER TEMP SENDER
FUEL
FUEL LEVEL SENDER
CONDENSER
TACH (For L)
TACH (For 22R)
PICKUP SENSOR
From Ignition Coil "-" (1-2)

OIL
OIL PRESSURE SENDER
VOLT

BACK-UP LIGHT S/W
LH
BACK-UP LIGHT
RH

From "DOME" Fuse (3-4)
UNLOCK WARNING S/W
SEAT BELT WARNING RELAY
SEAT BELT WARNING LIGHT (In Combination Meter)
SEAT BELT BUCKLE S/W
DOOR COURTESY S/W FRONT LH

O/D INDICATOR LIGHT
O/D MAIN S/W
O/D RELAY
O/D SOLENOID
THERMO S/W

MAIN
INDIC LIGHT
CRUIS

a b c

Ground points

a = Located near regulator

b = Located instrument panel on right side bracket

c = Located in frame of last cross member

Cruise Control | Stop Light | Turn Signal and Hazard | Horn | Windshield Wiper and Washer

5 | 6 | 7 | 8

A
B
C
D

B
STOP 15A
G-R
R
G-R
R-B R-W
STOP LIGHT S/W
G-W
L
CRUISE CONTROL COMPUTER
B-W G-Y G-B G-R Y-R G-W G-L G W-B R-B R-W
CRUISE CONTROL CLUTCH S/W (For M/T)
G-L
(For A/T)
G-L
B
B-W G-Y G-B
MAIN SET RESUME
INDICATOR LIGHT
W-B
CRUISE CONTROL S/W
CRUISE CONTROL ACTUATOR
W-B
G-W
To PKB Warning Light S/W & Brake Fluid Level S/W (2-1)
G
To Starter Motor (For M/T) or Neutral Start S/W (For A/T) (1-1)
SPEED SENSOR (In Combination Meter)
G-L
BR
W-B
G-W
LH
W-B
STOP LIGHT
G-W
RH
W-B

D
A
TURN 7.5A
HAZ-HORN 15A
G-L
G-O
TURN SIGNAL & HAZARD S/W

		B1	B2	F	TB	TL	TR
TURN	RIGHT	○	○	○	○		
	OFF	○	○				
	LEFT	○	○	○	○		
HAZARD	OFF	○	○				
	ON		○	○	○	○	○

G
G-W
G-B
G-Y
FLASHER RELAY
G
G-W
W-B
INDICATOR LH (In Combination Meter)
G-B
FRONT LH
G-B
REAR LH
G-B
INDICATOR RH (In Combination Meter)
G-Y
FRONT RH
G-Y
REAR RH
G-Y
TURN SIGNAL LIGHT
W-B
G-W
HORN
G-R
HORN S/W
W-B

D
WIPER 20A
L
L
L
L
WINDSHIELD WASHER MOTOR
M
L-W
WINDSHIELD WIPER & WASHER S/W

	B	S	+1	+2	C	E	W
OFF		○	○				
MIST	○		○				
INT		○	○		○		
LOW	○		○				
HIGH	○			○			
WASHER						○	○

L-R
L-B
L-O
L-Y
W-B
WIPER RELAY (Intermittent)
L
L
L
L-W
L-R L-W
L-B
L-O
L
M
WINDSHIELD WIPER MOTOR
W-B

a
b
c

TOYOTA TRUCK AND 4 RUNNER (GASOLINE) (Cont'd)

Back-up Lights

Unlock and Seat Belt Warning

Turn Signal and Hazard

Horn

Rear Window Defogger

1 2 3 4

A B D E

A

10A HAZ-HORN

From "ENGINE" Fuse (1-6)

G-L

G-L

G-W

G-O

B-W

To Radio and Tape Player (4-8)

From "DOME" Fuse (4-5)

UNLOCK WARNING S/W

TURN SIGNAL AND HAZARD S/W (COMB. S/W)

		B1	B2	F	TB	TL	TR
TURN	RIGHT			○	○		○
	OFF			○			
	LEFT			○	○		
HAZARD	OFF			○			
	ON		○		○		○

G

G-W

G-B

G-Y

TURN SIGNAL FLASHER

G

G-W

W-B

R

Y

G-W

R-L

BACK-UP LIGHT S/W

SEAT BELT WARNING RELAY

G

W-B

B

R

To Door Courtesy S/W Front LH (4-4)

From Neutral Start S/W (A/T) (1-1)

R-L

R-L

R-L

LH

RH

W-B

W-B

BACK-UP LIGHTS (RR.COMB.LIGHT)

SEAT BELT WARNING LIGHT (COMB. METER)

W-B

BUCKLE S/W

B

INDICATOR LH (COMB. METER)

G-B

INDICATOR RH (COMB. METER)

G-Y

FRONT LH

G-B

FRONT RH

G-Y

REAR LH

G-B

REAR RH

G-Y

TURN SIGNAL LIGHTS

(22R-E)

W-B

G-W

G-R

HORN

HORN S/W

E

15A DEFOG

DEFOGGER S/W

LG

B

LG

B

DEFOGGER RELAY

L-R

B

To Limit S/W (2-5) (W/ DEFOGGER RELAY)

L-R

(W/O DEFOGGER RELAY)

(W/ DEFOGGER RELAY)

(W/O DEFOGGER RELAY)

REAR WINDOW DEFOGGER

B

a

b

Ground points

a = Located under left front piller

b = Located in right front fender

Winch | Front Wiper and Washer | Overdrive | Cruise Control | Stop Lights

5 | 6 | 7 | 8

A
B
D

E

15A WIPER

B

10A STOP

W L L L L L L-W

WINCH CONTROL S/W

W Y L-W L-R G W-B

WINCH MOTOR & MAGNET S/W

B Y B

From Battery (1-1)

MAGNET S/W

W-B

WASHER MOTOR M L-W L-B

WIPER AND WASHER S/W (COMB. S/W)

L B S +1 +2 C E W L-W

	B	S	+1	+2	C	E	W
OFF		○	○				
MIST		○	○				
INT		○	○		○	○	
LOW		○	○		○		
HIGH		○		○			
WASHER						○	○

(Variable INT.)

INTERMITTENT TIME S/W

LG LG-B L-R L-B L-O L-Y W-B

WIPER RELAY

LG LG-B L-B L-R L-Y

(W/O INT.)

W-B L-W L-R L-W L-B L-O

WIPER MOTOR M

W-B (22R-E) W-B (22R-E) W-B W-B

OD RELAY

L B-G B-Y B-R

OD SOLENOID B-Y

To Thermo S/W No. 1 (1-7) (1-8)

(22R)

T/M INDICATOR L

G-R (22R) B-W (22R-E) B

OD MAIN S/W

WATER THERMO S/W B

W-B

L L-W B-G

CRUISE CONTROL COMPUTER

B B-Y G-Y G-B Y-R G-R BR G B-R G-L W-B G-W

CRUISE CONTROL MAIN S/W

L-W B B-Y MAIN INDICATOR W-B

CRUISE CONTROL S/W

G-Y SET RESUME G-B W-B

CRUISE CONTROL STOP S/W

CRUISE CONTROL ACTUATOR

Y-G G-R BR

To Parking Brake S/W & Brake Fluid Level S/W (2-7)

G

CRUISE CONTROL CLUTCH S/W (M/T)

B-R (A/T) B-R B-W

To Starter (M/T) or Neutral Start S/W (A/T) (1-1)

SPEED SENSOR (COMB. METER)

G-L W-B

From EFI Computer (1-4)

G-L

L G-R STOP LIGHT S/W G-W G-W

To EFI Computer (1-4)

G-W G-W

LH G-W W-B RH G-W W-B

STOP LIGHTS (RR.COMB.LIGHT)

(22R-E) W-B W-B

a
b

TOYOTA TRUCK AND 4 RUNNER (GASOLINE) 4

Work Light

Taillights and Illumination

Headlights

1 2 3 4

A
B
D

15A TAIL

10A HEAD LH

10A HEAD RH

7.5A DOME

To Clock (Digital) (4-6)

DECK LIGHT S/W

DECK LIGHT

CLINOMETER & ALTIMETER

HEATER CONTROL

A/T INDICATOR

O/D S/W

RADIO

COMBINATION METER

DEFOGGER S/W

CRUISE CONTROL S/W

RHEOSTAT

POWER WINDOW S/W (BACK DOOR) (4 Runner)

REAR WIPER AND WASHER S/W (4 Runner)

REAR SIDE MARKER RH

TAIL RH

LICENSE PLATE RH

REAR SIDE MARKER LH

TAIL LH

LICENSE PLATE LH

CLEARANCE RH

CLEARANCE LH

TAILLIGHT RELAY

HEADLIGHT RELAY

HEADLIGHT LH

HEADLIGHT RH

HIGH BEAM INDICATOR LIGHT (COMB. METER)

LIGHT CONTROL S/W

	T	EL	H
OFF			
TAIL	○	○	
HEAD	○	○	○

DIMMER S/W

	HF	HU	HL	ED
FLASH	○	○		
LOW			○	
HIGH		○	○	

DECK LIGHT S/W (4 Runner)

INTERIOR LIGHT

ON

DOOR

REAR ROOM LIGHT (4 Runner)

From Seat Belt Warning Relay (3-2)

(W/Seat Belt Warning Relay)

FRONT LH

FRONT RH

DOOR COURTESY S/

(22R-E)

Ground points

a = Located under left front piller

b = Located in right front fender

e = Located on center of back panel

Interior Lights

Clock

Cigarette Lighter

Auto Antenna

Radio and Tape Player

5

6

7

8

B

D

7.5A DOME

15A CIG

From "ENGINE" Fuse (1-6)

From "HAZ-HORN" Fuse (3-2)

B-W

To Unlock Warning S/W (3-1)

R-G

INTERIOR LIGHT

DOOR

LIGHT REMAINDER

R-W

B-W

G

R-G

R

W-B

R-Y

LH

RH

DOOR COURTESY LIGHT

B

IGNITION KEY CYLINDER LIGHT

(W/Seat Belt Warning Relay)

FRONT RH

DOOR COURTESY S/W

CLOCK (Digital)

10:00

From "TAIL" Fuse (4-1)

CIGARETTE LIGHTER

ANTENNA MOTOR S/W

UP

DOWN

LG

LG-W

M

ANTENNA MOTOR

RADIO AND TAPE PLAYER

POWER AMPLIFIER

LG-R

LG

LG-Y

LG-B

W

W-B

REAR RH

SPEAKER

REAR LH

FRONT RH

FRONT LH

WOOFER

a

b

e