

**ACCESSORIES**

PANT PARTS & ACCESSORY NEWS TODAY

B U L L E T I N

00-37

September 22, 2000

Page 1 of 2

TO: Toyota Dealer Service Manager
Toyota Dealer Parts Manager

SUBJECT: Tacoma Cruise Control Installation Instruction Update

Be advised modifications have been made to the Tacoma Cruise Control Installation Instructions (MDC p/n# 00107-00283). These changes have been reflected in the attached supplemental manual identified by MDC p/n# 00107-00283-SUP.

Please update your Cruise Control Installation Instruction binder by adding the attached supplement (MDC p/n# 00107-00283-SUP).

Limited additional quantities of the Tacoma installation supplement are also available at no cost from the Toyota Material Distribution Center.

For your reference, below is a Cruise Control application guide for all Toyota applications.

Cruise Control Application Guide

Model Application	Model Year	Part Number	Uninstalled Dealer Price	Uninstalled MSRP
Tacoma Automatic Transmission	1999-01MY	PT474-35980	\$170.00	\$299.00
Tacoma Manual Transmission	1999-01MY	PT474-35981	\$170.00	\$299.00
Corolla Automatic Transmission	1999-01MY	PT474-12980	\$163.00	\$299.00
Corolla Manual Transmission	1999-01MY	PT474-12981	\$163.00	\$299.00

DISTRIBUTION LIST NO:

(X) 1	(X) 5A	(X) 7B	() 10	() 13A	(X) 15A
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() 3	() 6	(X) 8B	(X) 12A	(X) 14A	(X) 16A
(X) 4	() 7A	() 9	(X) 12B	(X) 14B	(X) 16B

A Toyota requirement for the installation of a Genuine Toyota Cruise Control Kit is the registration of the vehicle for tracking purposes. The registration process should be completed through the Toyota warranty system as a warranty claim. Toyota will compensate the dealership 0.2 labor hours for each cruise control registration. The Cruise Control Registration Claim Procedures are listed below, for your reference. Please reference PANT 98-05 for additional information.

Cruise Control Registration Claim Procedures

The following procedures must be used to submit all Cruise Control installation registration claims:

1. R.O. #	Enter the repair order number
2. Date of First Use	Enter the date the vehicle was retailed (MM-DD-YY)
3. Vehicle ID #	Enter the 17-digit VIN
4. Repair Date	Enter the date on which the vehicle had the cruise control installed (MM-DD-YY)
5. Mileage	Enter the mileage on the vehicle at the time of cruise control installation (must be greater than zero)
6. OPN	Enter one of the following part numbers as the OPN: Tacoma Automatic Transmission PT474-35980 Tacoma Manual Transmission PT474-35981 Corolla Automatic Transmission PT474-12980 Corolla Manual Transmission PT474-12981
7. Operation Number	CC8001
8. Combination Codes	Not applicable
9. Labor Hours	0.2
10. T1 and T2 Codes	Enter T1 T2 codes as: 99
11. Replacement Part Number	N/A
12. Authorization # and Type	N/A
13. Labor Amount	Calculated by labor time entered multiplied by the dealer's labor rate
14. C/C/R	Enter "cruise control installation"

The Cruise Control Installation Instructions and Registration Claim Procedures are also available through fax on demand.

Cruise Control Fax On-Demand: (310) 539-9035

Thank you for your continued support of Genuine Toyota Accessories.

Please contact your District Service & Parts Manager with any questions.

2001 MY TACOMA SUPPLEMENTARY INSTALLATION MANUAL


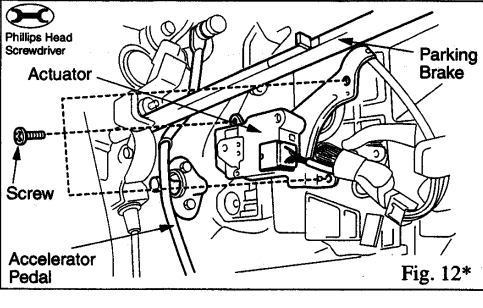
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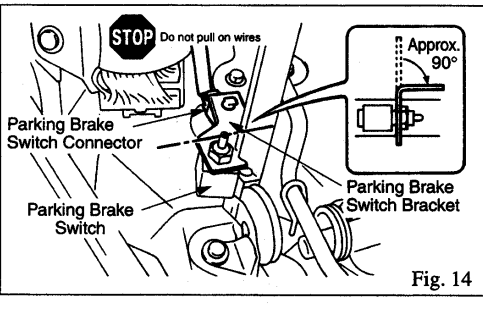
This INSTALLATION MANUAL (MDC Part # 00107-00321)
is a supplement to the 2000 MY TACOMA CRUISE CONTROL
INSTALLATION MANUAL MDC Part # 00107-00283


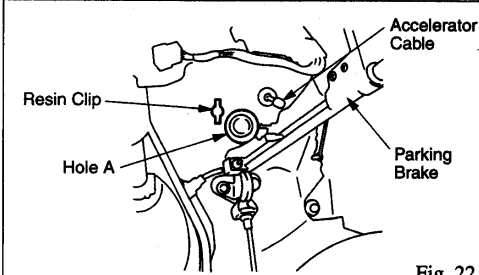
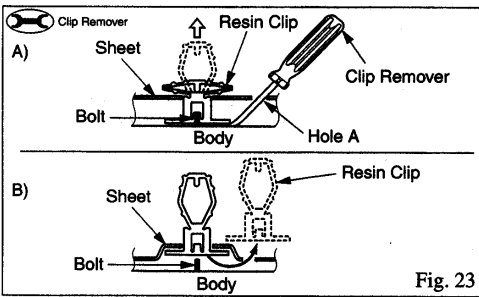
List of Changes

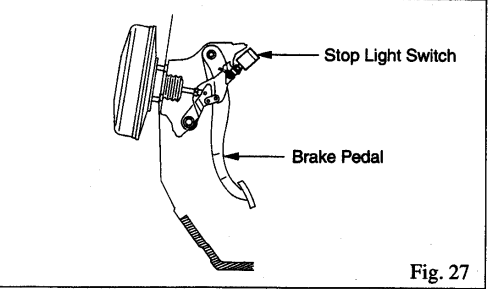
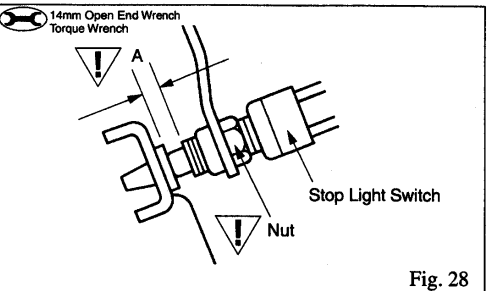
Location	Contents
Section II - Installation Procedures	
VEHICLE DISASSEMBLY Step (10) (p. 5)	Addition of new step (10*) between steps (10) and (11).
VEHICLE DISASSEMBLY Step (15) (p. 6)	Addition of description to step (15).
SYSTEM INSTALLATION CRUISE ACTUATOR INSTALLATION Step (1) (p. 9)	Alteration to Fig. 23 in step (1).
SYSTEM INSTALLATION STOP LIGHT SWITCH INSTALLATION Step (5) (p. 10)	Alteration to Fig. 27 and clearance specifications in step (5).
SYSTEM INSTALLATION PASSENGER'S SIDE WIRING ROUTING Step (10) (p. 12)	Addition of description to step (10).
SYSTEM INSTALLATION PASSENGER'S SIDE WIRING ROUTING Vehicle Speed Sensor (p. 13)	Removal of procedure titled "For 2RZ or 3RZ 4 cylinder engine only" (i.e. title after Vehicle Speed Sensor and step (16)). Alteration to title before step (17).

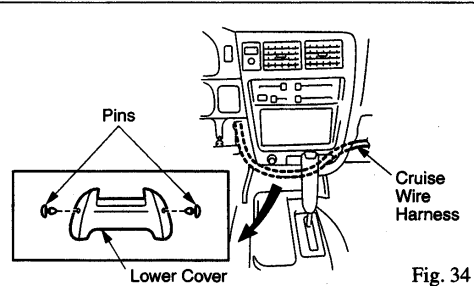
Section II - Installation Procedures

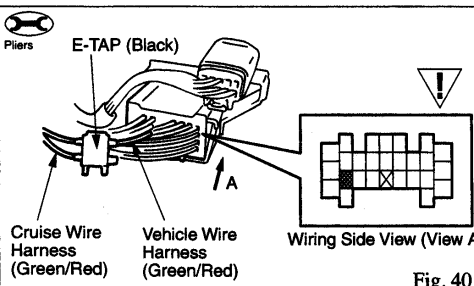
VEHICLE DISASSEMBLY Step (10) ~	Addition of new step (10*) between steps (10) and (11).
<p>(10*) Remove the heater outlet switch actuator. (3 Screws) (Fig. 12*)</p> <p> Phillips Head Screwdriver</p>	<p></p> <p>Fig. 12*</p>

VEHICLE DISASSEMBLY Step (15)	Addition of description to step (15).
<p>(14) Disconnect the connector from the parking brake switch bracket. (Fig. 14)</p> <p> Disconnect the parking brake switch electrical connector.</p> <p> Do not pull on the wire when disconnecting the connector.</p> <p>(15) Fold the parking brake switch bracket towards you along the dotted line as illustrated in the figure. (Fig. 14) Use pliers to fold the bracket if necessary.</p>	<p></p> <p>Fig. 14</p>

SYSTEM INSTALLATION CRUISE ACTUATOR INSTALLATION Step (1) (p. 9)	Alteration to Fig. 23 in step (1).
CRUISE ACTUATOR INSTALLATION (1) Remove the resin clip. (Fig. 22, 23) A) Lift the tab of the resin clip; then, using a clip remover, remove the resin clip from hole A. B) Pull out the removed resin clip from hole A.  Clip Remover	 <p>Fig. 22</p>  <p>Fig. 23</p>

SYSTEM INSTALLATION STOP LIGHT SWITCH INSTALLATION Step (5) (p. 10)	Alteration to Fig. 27 and clearance specifications in step (5).
STOP LIGHT SWITCH INSTALLATION (5) Install the stop light switch. (Refer to Fig. 16) (Fig. 27) <p>⚠ Screw the switch body into the position until the clearance "A" is 1.0 to 2.4 [mm] {0.039 to 0.094 [in.]}. (Fig. 28)</p> <p>⚠ Tighten the bolts to the torque of 14 to 15 [N•m] {143 to 153 [kgf•cm], 10.3 to 11 [ft•lbf]}.</p> <p>🔧 14mm Open End Wrench, Torque Wrench</p>	 

<p>SYSTEM INSTALLATION PASSENGER'S SIDE WIRING ROUTING Step (10)</p>	<p>Addition of description to step (10).</p>
<p>(p. 12)</p> <p>PASSENGER'S SIDE WIRE ROUTING</p> <p>(10) Route the wire portion of (A) (controller), (E) (vehicle speed), (F) ("D" position, A/T vehicle) connectors and (L) (ground terminal) from driver's side to passenger's side through the back of center cluster panel. (Fig. 34)</p> <p>Remove the lower cover if you are having difficulty routing the wire through to the other side. (2 Pins)</p>	 <p>Fig. 34</p>

<p>SYSTEM INSTALLATION PASSENGER'S SIDE WIRING ROUTING Vehicle Speed Sensor</p>	<p>Removal of procedure titled "For 2RZ or 3RZ 4 cylinder engine only" (i.e. title after Vehicle Speed Sensor and step (16)). Alteration to title before step (17).</p>
<p>Vehicle Speed Sensor For All Vehicles</p> <p>(17) Connect the (E) (vehicle speed) E-tap to the vehicle wire harness. (Fig. 40)</p> <p>⚠ Connect the (E) (E-TAP = Black; Wire = Green/Red) E-tap to the wire which is positioned at hatching cell in vehicle wire harness connector (Female, White, 26Pin).</p> <p>🔧 Pliers</p>	 <p>Fig. 40</p>

TOYOTA 2000 TACOMA

CRUISE CONTROL

Section I - Installation Preparation

Part Number: PT474-35980 (A/T Vehicle)

PT474-35981 (M/T Vehicle)

Fitting Kit Contents (Refer to Fig. 20)

Item #	Quantity Req'd.	Description	No.
1	1	Wire Harness	①
2	1	Actuator Set	②
3	1	Controller	③
4	1	Hardware Bag	—

Hardware Bag Contents

Item #	Quantity Req'd.	Description	No.
1	16	Wire Tie	—
2	1	Protective Tape	—
3	1	Protective Sheet	—
4	1	Control Switch	④
5	1	Stop Light Switch	⑤
6	1	Clutch Switch (M/T Only)	⑥
7	1	Bolt (Green)	—
8	1	Bolt (Yellow)	—
9	1	Connector	—
10	1	J/B Bracket	—

Conflicts

Note: Factory Cruise Control

Tools Required

Safety Tools	
Safety Glasses	
Safety Gloves	
Vehicle Protection	Blanket / Tape / Cloth
Special Tools	
None	
Installation Tools	
Sockets	10mm
Wrenches (open end)	10mm, 12mm x2, 14mm, 17mm

Ratchet	
Torque Wrench	
Clip Remover	
Pliers	
Screwdrivers	Phillips Head Screwdriver
Hand Drill	11mm (7/16 in.)
Work Light	Portable

General Applicability

Cruise Control System may be installed in any US or Canadian spec. Tacoma.

Recommended Sequence of Application

Item #	Accessory
1	
2	

Legend



STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.



OPERATOR SAFETY: Use caution to avoid risk of injury.



CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points may be audited.



GENERAL PROCESS: This highlights specific processes to ensure a quality installation.



TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.


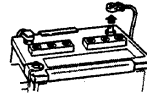
TOYOTA 2000 TACOMA

CRUISE CONTROL


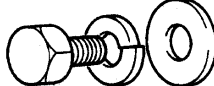

Section I - Installation Preparation

PRECAUTIONS

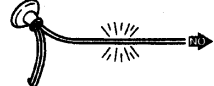
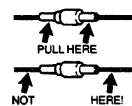

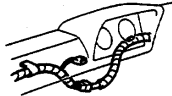
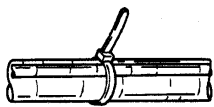
Prior to Installation

<ul style="list-style-type: none"> Protect the vehicle with fender, seat, and floor covers. 	<ul style="list-style-type: none"> Be sure to disconnect the battery cable from the negative (-) battery terminal. 
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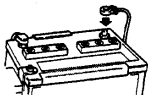
Part Mounting

<ul style="list-style-type: none"> Use the proper tools for the job when tightening nuts, bolts, and screws. 	<ul style="list-style-type: none"> Be sure to use the existing or supplied nuts, bolts, plain and locking washers when securing parts or the wire harness. 	<ul style="list-style-type: none"> Be careful not to pinch wires when tightening any nut, bolt, or screw. 	<ul style="list-style-type: none"> Do not use parts that have fallen on the floor. If kit box is damaged, do not use this kit.
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Wire Routing And Connections

<ul style="list-style-type: none"> Pay special attention when attaching fitting kit wires to vehicle wires with Splicing connectors. The anvil must make contact with both wires. Do not forcibly pull on any wires when routing wire harnesses. Doing so may result in open connections, or damage the wiring insulation, which could cause a short circuit. 	<ul style="list-style-type: none"> When disconnecting connectors, do not pull on the wires. Instead, press firmly on the tab release, and pull on the connector body.  <ul style="list-style-type: none"> When plugging in or reconnecting connectors, be sure to line up the connectors so that pins do not become bent, and pull the connectors tightly until they lock together. 	<ul style="list-style-type: none"> Route wire harnesses away from where they may be pierced by the tip of a self-tapping screw, and so they will not come into contact with sharp metal edges. To avoid loose wires, secure wire harnesses to nearby wiring with supplied wire ties.  
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After The Installation Is Completed

<ul style="list-style-type: none"> Before connecting the battery cable to the battery, recheck the wire harness connections to verify they are secure. Pay extra attention to Splicing connections. 
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TOYOTA 2000 TACOMA


Section II - Installation Procedures


CRUISE CONTROL


VEHICLE DISASSEMBLY

(1) Remove the negative battery cable. (Fig. 1)

 Perform full vehicle function check before beginning the vehicle. (See Section III Function Verifications)

 Protect the front of the vehicle before starting.

 Be careful not to ground the positive terminal.

 10mm Socket

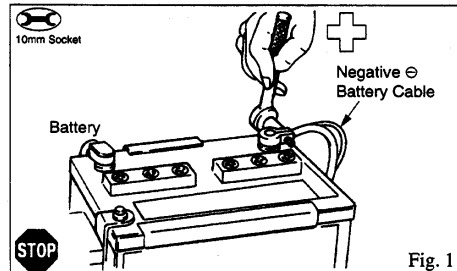



Fig. 1

(2) Remove the driver's & passenger's scuff plate.
(4 screws x2) (Fig. 2)

 Phillips Head Screwdriver

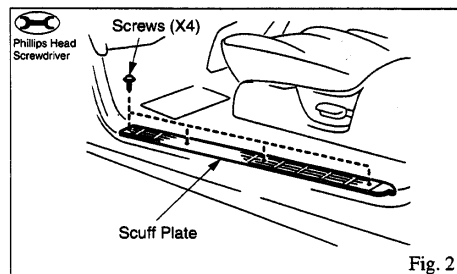


Fig. 2

(3) Remove the driver's & passenger's cowl side trim. (Fig. 3)

A) Pull the trim end toward arrow 1.

B) Slide the trim toward arrow 2.

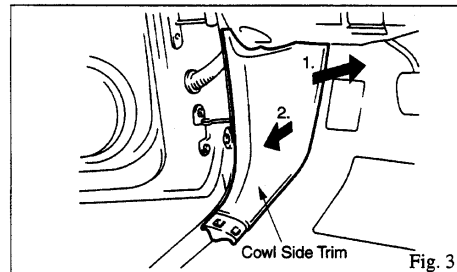



Fig. 3

(4) Remove the hood release lever. (2 Screws) (Fig. 4)

 Phillips Head Screwdriver

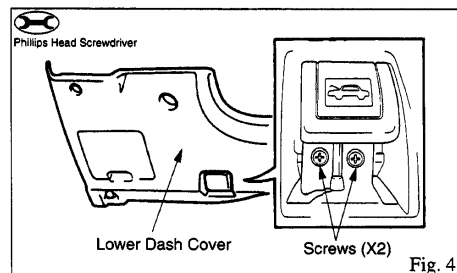


Fig. 4

TOYOTA 2000 TACOMA
Section II - Installation Procedures

CRUISE CONTROL

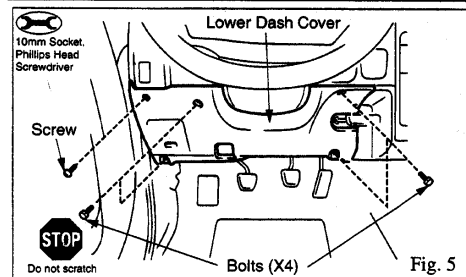
- (5) Remove the lower dash cover. (1 Screw, 4 Bolts) (Fig. 5)



Be careful not to scratch the lower dash cover.



10mm Socket, Phillips Head Screwdriver

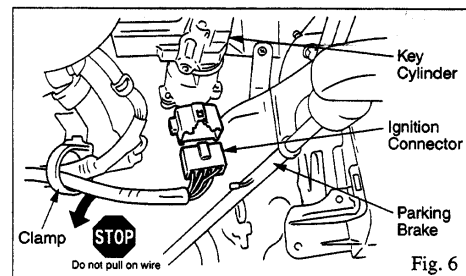


- (6) A) Disconnect the ignition connector. (Fig. 6)

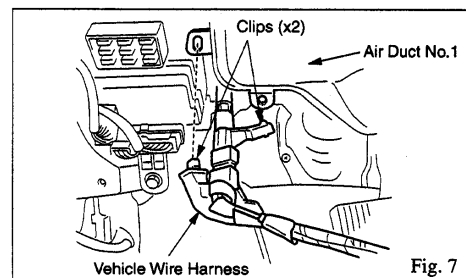


Do not pull on the wire when disconnecting the connector.

- B) Remove the wire harness from the clamp at steering shaft. (Fig. 6)



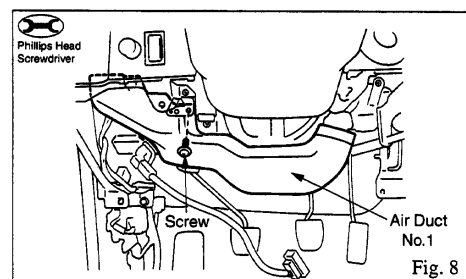
- C) Release the vehicle wire harness from the clip on the air duct No.1. (2 Clips) (Fig. 7)



- (7) Remove the air duct No.1. (1 Screw) (Fig. 8)




Phillips Head Screwdriver



Section II - Installation Procedures


- (8) Remove the air duct No.2. (1 Screw) (Fig. 9)

 Phillips Head Screwdriver

NOTE


BEFORE PERFORMING THE NEXT STEPS,
YOU MUST INSERT THE KEY INTO THE
IGNITION SWITCH AND TURN IT TO "ON".

- (9) A) Turn the steering wheel to the left, then remove the screw. (1 Screw) (Fig. 10)
B) Turn the steering wheel to the right, then remove the screw. (1 Screw) (Fig. 10)


 Phillips Head Screwdriver

- (10) Remove the lower steering column cover. (1 Screw) (Fig. 11)

 Be careful not to scratch the cover.

 Phillips Head Screwdriver

- (11) If there is an ECU as shown in the figure, remove it. (1 Bolt) (Fig. 12)

 10mm Socket

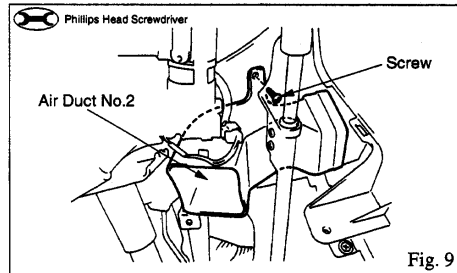


Fig. 9

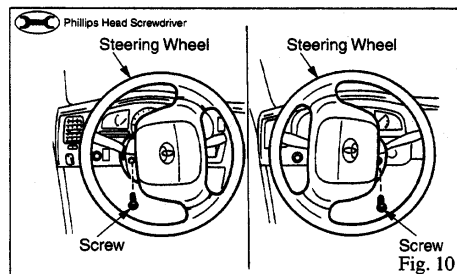


Fig. 10

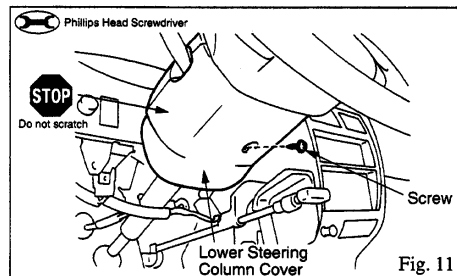


Fig. 11

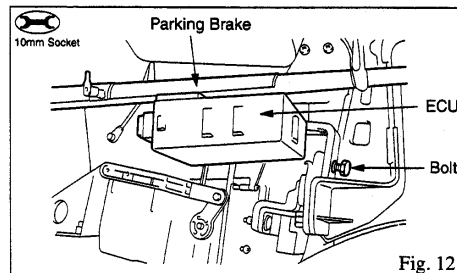


Fig. 12

TOYOTA 2000 TACOMA

CRUISE CONTROL

Section II - Installation Procedures

(12) Remove the accelerator pedal. (2 Bolts) (Fig. 13)

➡ Disconnect the accelerator cable from the accelerator pedal.

10mm Socket

(13) Remove the J/B No.3. (1 Bolt) (Fig. 13)

10mm Socket

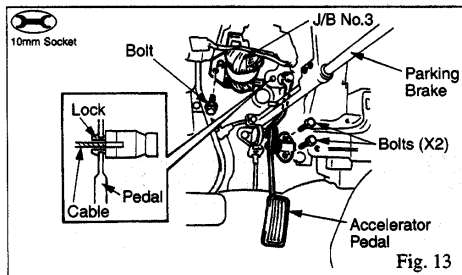


Fig. 13

(14) Disconnect the connector from the parking brake switch bracket. (Fig. 14)

➡ Disconnect the parking brake switch electrical connector.

STOP Do not pull on the wire when disconnecting the connector.

(15) Fold the parking brake switch bracket towards you along the dotted line as illustrated in the figure. (Fig. 14)

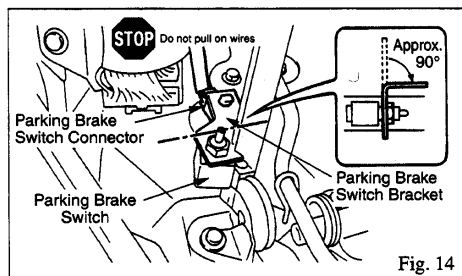


Fig. 14

(16) Remove the accelerator cable bracket bolts and pull the bracket out of the rubber bushing. (2 Bolts) (Fig. 15)

STOP Do not place any stress on the accelerator cable origin.

10mm Socket

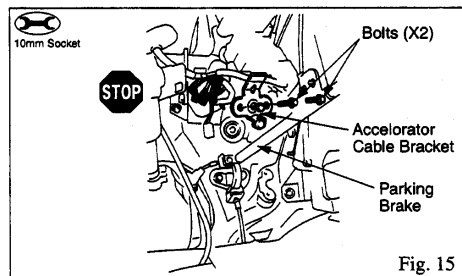


Fig. 15

(17) Remove the brake pedal return spring. (Fig. 16)

(18) Remove the stop light switch. (1 Nut) (Fig. 16)

➡ Disconnect the stop light switch electrical connector.

STOP Do not pull on the wire when disconnecting the connector.

➡ To remove the stop light switch, loosen the lock nut, then turn the switch body.

14mm Open End Wrench

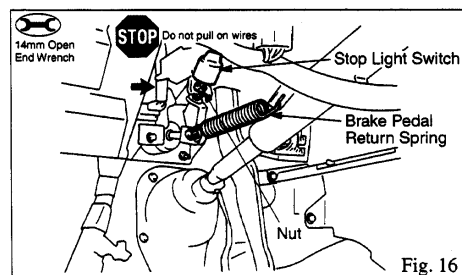


Fig. 16

TOYOTA 2000 TACOMA

CRUISE CONTROL

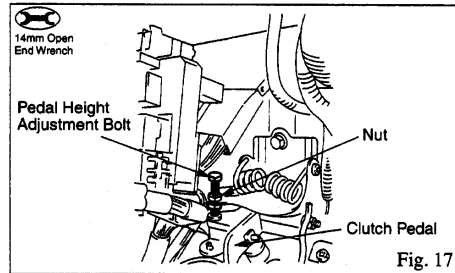
Section II - Installation Procedures

FOR M/T VEHICLE ONLY (IF A/T, SKIP TO (20))

(19) Remove the clutch pedal height adjustment bolt.
(1 Nut) (Fig. 17)

➡ To remove the bolt, loosen the lock nut, then turn the bolt.

🔧 14mm Open End Wrench

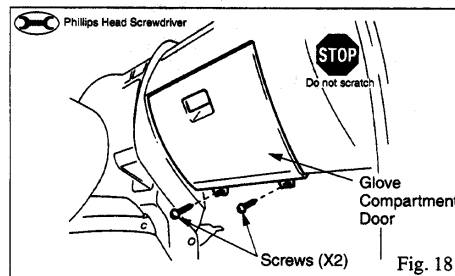


FOR ALL VEHICLES

(20) Remove the glove compartment door. (2 Screws) (Fig. 18)

STOP Be careful not to scratch the glove compartment door.

🔧 Phillips Head Screwdriver

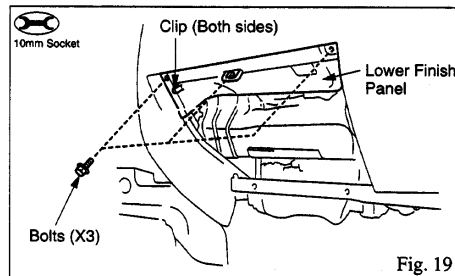


(21) Remove the lower finish panel. (Fig. 19)

🔧 10mm Socket

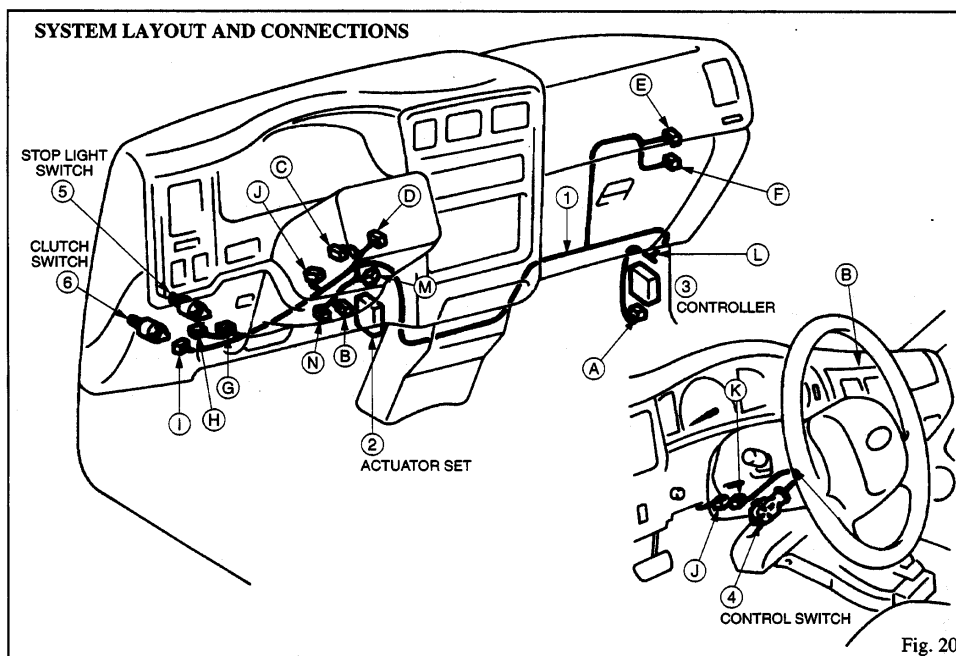
A) Remove 3 bolts.

B) Push from backside of the clips (Left & Right).



TOYOTA 2000 TACOMA
Section II - Installation Procedures

CRUISE CONTROL



(A) CRUISE CONTROLLER CONNECTOR (16P, BLACK, FEMALE)	(H) STOP LIGHT SWITCH CONNECTOR (4P, WHITE, FEMALE, STOP LIGHT SWITCH SIDE)
(B) CRUISE ACTUATOR CONNECTOR (6P, WHITE, FEMALE)	(I) CLUTCH SWITCH CONNECTOR (2P, WHITE, FEMALE) FOR M/T VEHICLE ONLY
(C) IGNITION CONNECTOR (8P, WHITE, FEMALE, KEY CYLINDER SIDE)	(J) CONTROL SWITCH CONNECTOR (3P, WHITE, FEMALE, SYSTEM WIRE SIDE)
(D) IGNITION CONNECTOR (8P, WHITE, MALE, VEHICLE WIRE SIDE)	(K) CONTROL SWITCH CONNECTOR (3P, WHITE, MALE, CONTROL SWITCH SIDE)
(E) VEHICLE SPEED E-TAP CONNECTOR (GREEN/ORANGE, BLACK)	(L) GROUND TERMINAL (WHITE/BLACK, EYELET)
(F) "D" POSITION E-TAP CONNECTOR (BLACK/WHITE, BLACK) FOR A/T VEHICLE ONLY	(M) PARKING BRAKE SWITCH CONNECTOR (2P, WHITE, FEMALE, PKB SWITCH SIDE)
(G) STOP LIGHT SWITCH CONNECTOR (4P, WHITE, MALE, VEHICLE WIRE SIDE)	(N) PARKING BRAKE SWITCH CONNECTOR (2P, WHITE, MALE, VEHICLE WIRE SIDE)

SYSTEM INSTALLATION

NOTE

AFTER SECURING CRUISE WIRES WITH WIRE TIES, CUT OFF THE EXCESS PORTION (Fig. 21)


STOP Use care when cutting the wire ties to avoid cutting wires

CRUISE ACTUATOR INSTALLATION

(1) Remove the resin clip. (Fig. 22, 23)

A) Lift the tab of the resin clip; then, using a clip remover, remove the resin clip from hole A.

B) Pull out the removed resin clip from hole A.

 Clip Remover

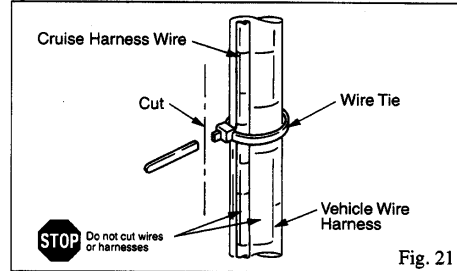


Fig. 21

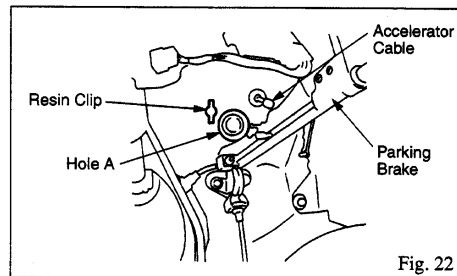


Fig. 22

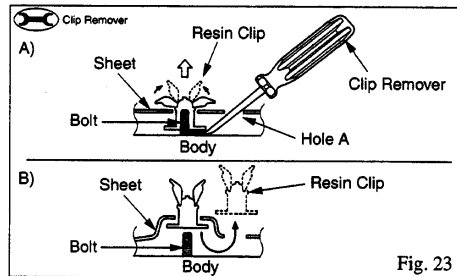



Fig. 23

(2) Install the actuator. (2 Bolts) (Fig. 24)

➡ Place the rubber bushing over the collar portion of the bracket until it is placed securely in contact with the bracket.

➡ Install the actuator so that stopper faces downward.

⚠ Tighten the bolts to the torque of 5 [N•m] {55 [kgf•cm], 47.7 [in.·lbf]}.

 10mm Socket, Torque Wrench

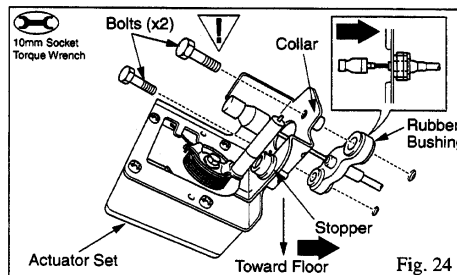


Fig. 24

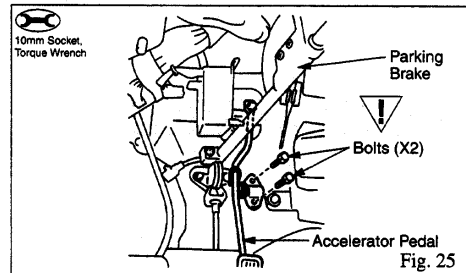
TOYOTA 2000 TACOMA
Section II - Installation Procedures

CRUISE CONTROL

(3) Install the accelerator pedal. (2 Bolts) (Fig. 25)

⚠ Tighten the bolts to the torque of 5 [N•m]
 {55 [kgf•cm], 47.7 [in.•lbf]}.

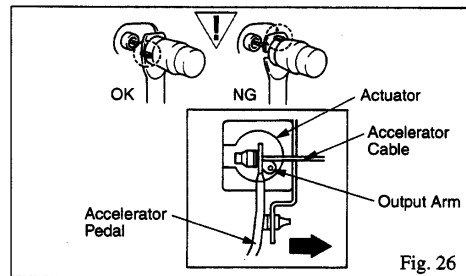
🔧 10mm Socket, Torque Wrench



(4) Connect the accelerator cable to the accelerator pedal. (Fig. 26)

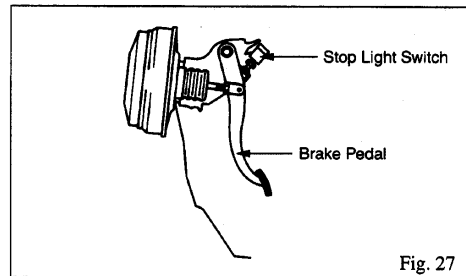
⚠ Tab on cable must align with slot on pedal arm.

➡ After installation, ensure that the actuator output arm is positioned as shown in the figure.



STOP LIGHT SWITCH INSTALLATION

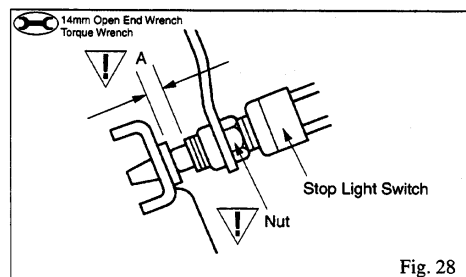
(5) Install the stop light switch. (Refer to Fig. 16) (Fig. 27)



⚠ Screw the switch body into the position until the clearance "A" is 0.5 to 2.4 [mm] {0.020 to 0.094 [in.]}. (Fig. 28)

⚠ Tighten the bolts to the torque of 14 to 15 [N•m]
 {143 to 153 [kgf•cm], 10.3 to 11 [ft•lbf]}.

🔧 14mm Open End Wrench, Torque Wrench



TOYOTA 2000 TACOMA

Section II - Installation Procedures

CRUISE CONTROL

FOR M/T VEHICLE ONLY (IF A/T, SKIP TO (7))

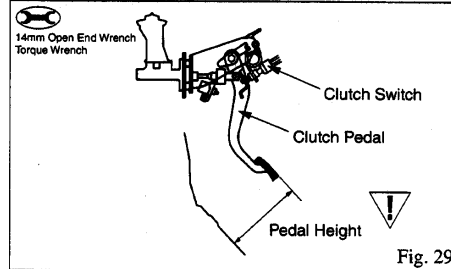
Clutch Switch Installation

(6) Install the clutch switch. (Fig. 29)

⚠ Screw the switch body into position until the "Pedal Height" is 170 to 180 [mm] {6.692 to 7.086 [in.]}, as indicated in figure.

⚠ Tighten the bolts to the torque of 14 to 15 [N•m] {143 to 153 [kgf•cm], 10.3 to 11 [ft•lbf]}.

🔧 14mm Open End Wrench, Torque Wrench



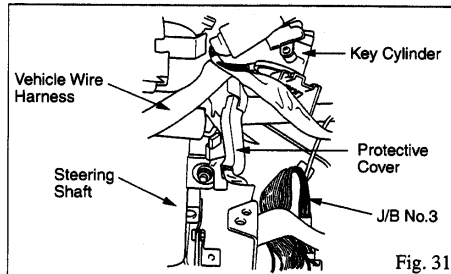
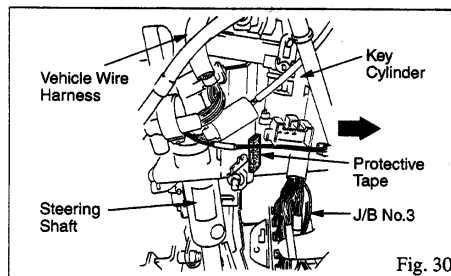
FOR ALL VEHICLES

(7) Paste the protective tape to the stay edge. (Fig. 30)

➡ Paste it to cover edge portion.

NOTE

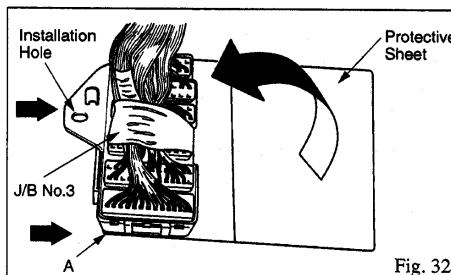
DO NOT PASTE PROTECTIVE TAPE WHEN THE VEHICLE WIRE HARNESS IS COVERED BY A HARNESS COVER. (Fig. 31)



(8) Paste the protective sheet to the J/B No.3. (Fig. 32)

➡ Match the protective sheet end to the position A, and cover the wire correctly.

➡ Do not cover the installation hole by protective sheet.



TOYOTA 2000 TACOMA

CRUISE CONTROL

Section II - Installation Procedures

- (9) Install the J/B bracket in the J/B No. 3 mounting bolt hole. (1 Bolt) (Fig. 33)

➡ Use the bolt that was used for securing the J/B No. 3.

➡ Use the hole without nut to install it.

⚠ Tighten the bolts to the torque of 5 [N•m]
{55 [kgf•cm], 47.7 [in.·lbf]}.

🔧 10mm Socket, Torque Wrench

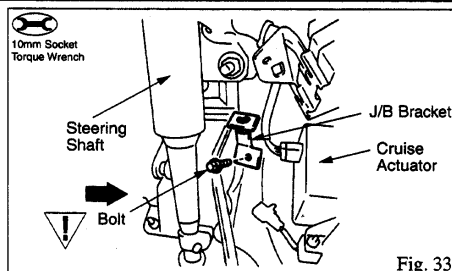


Fig. 33

PASSENGER'S SIDE WIRE ROUTING

- (10) Route the wire portion of (A) (controller), (E) (vehicle speed), (F) ("D" position, A/T vehicle) connectors and (L) (ground terminal) from driver's side to passenger's side through the back of center cluster panel. (Fig. 34)

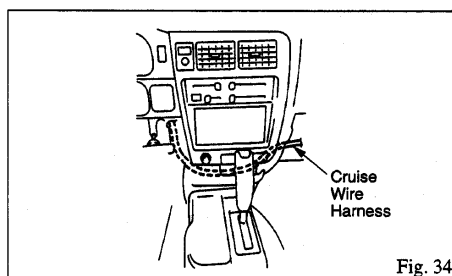


Fig. 34

- (11) Route the wires around the passenger's side glove box as shown in the figure. (Fig. 35)

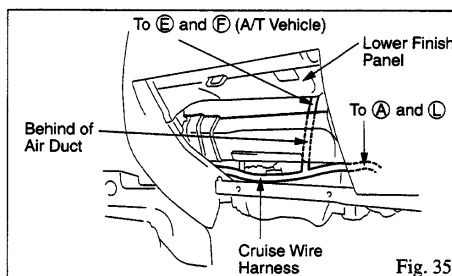


Fig. 35

Controller Installation And Ground Wire Routing

- (12) Route the wire as shown in figure, and install the controller and (L) (ground terminal) together by tightening the bolt. (1 Bolt) (1 tie strap) (Fig. 36)

⛔ When installing, do not place stress on the root of the ground terminal.

⚠ Tighten the bolt to the torque of 5 [N•m]
{55 [kgf•cm], 47.7 [in.·lbf]}.

🔧 10mm Socket, Torque Wrench

- (13) Connect the (A) (Female, Black, 16Pin) connector to the controller. (Fig. 36)

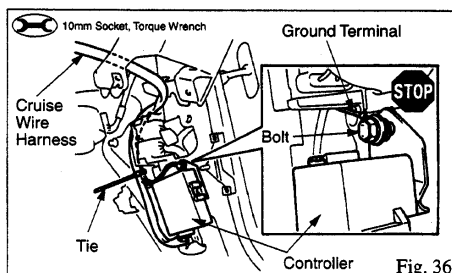


Fig. 36

TOYOTA 2000 TACOMA

CRUISE CONTROL

Section II - Installation Procedures

E-TAP Connector Instructions

- (14) A) Position the vehicle wire harness carefully, as shown, then fold the E-TAP connector along the alternate long and short dash line. (Fig. 37)
- B) Fold the vehicle wire harness into the E-TAP connector and press until the lock tabs on both sides of the connector click into their positions. (Fig. 37)

 Pliers

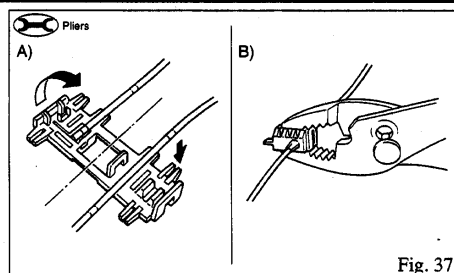


Fig. 37

- (15) Route the wire portion of (E) (vehicle speed) and (F) ("D" position, A/T vehicle) E-taps. (2 tie straps) (Fig. 38)

NOTE

THIS FIGURE ILLUSTRATES A VEHICLE WITH THE 3RZ-FE ENGINE. THE NUMBER OF CONNECTORS MAY DIFFER IN A DIFFERENT ENGINE.

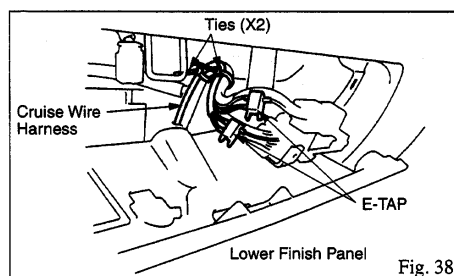




Fig. 38

Vehicle Speed Sensor

For 2RZ or 3RZ 4 cylinder engine only

- (16) Connect the (E) (vehicle speed) E-tap to the vehicle wire harness. (Fig. 39)

 Connect the (E) (E-TAP = Black; Wire = Green/Red) E-tap to the wire which is positioned at hatching cell in vehicle wire harness connector (Female, White, 26Pin).

 Pliers

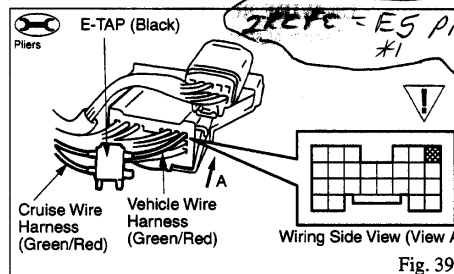




Fig. 39

For 5VZ 6 cylinder engine only

- (17) Connect the (E) (vehicle speed) E-tap to the vehicle wire harness. (Fig. 40)

 Connect the (E) (E-TAP = Black; Wire = Green/Red) E-tap to the wire which is positioned at hatching cell in vehicle wire harness connector (Female, White, 26Pin).

 Pliers

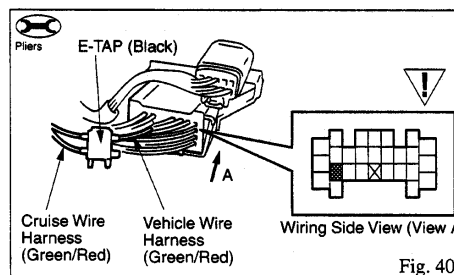


Fig. 40

TOYOTA 2000 TACOMA

Section II - Installation Procedures

CRUISE CONTROL

For A/T Vehicle Only (If M/T, Skip To (19))

"D" Range Shift Position

- (18) Connect the **(F)** ("D" position) E-tap to the vehicle wire harness. (Fig. 41)

⚠ Connect the **(E)** (E-TAP = Black; Wire = Black/White) E-tap to the wire which is positioned at hatching cell in vehicle wire harness connector (Female, White, 10Pin).

🔧 Pliers

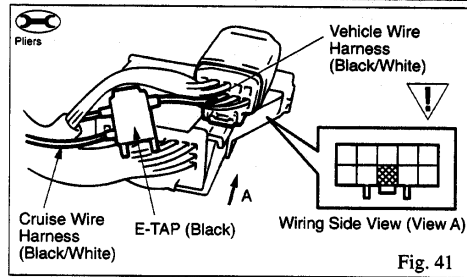


Fig. 41

For All Vehicles

- (19) Route the wires around the passenger's side glove box as shown in the figure. (2 tie straps) (Fig. 42)

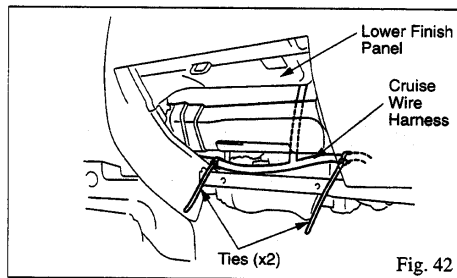


Fig. 42

DRIVER'S SIDE WIRE ROUTING

- (20) Route the wire harness as shown in the figure. (2 tie straps) (Fig. 43)

⚠ Do not tighten tie to the movable portion of air duct control cable.

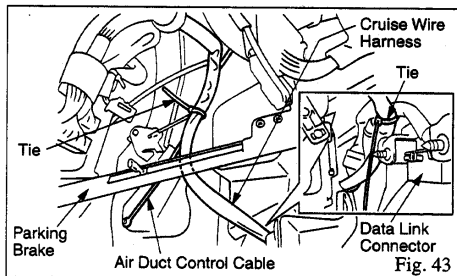


Fig. 43

- (21) Connect the **(M)** (Female, White, 2Pin) connector to parking brake switch, and connect the **(N)** (Male, White, 2Pin) connector to the vehicle wire harness connector. (Fig. 44)

➡ If the length of vehicle parking brake wire harness is too much, tie it with tie strap. (1 tie strap)

- (22) Connect the **(B)** (Female, White, 6Pin) connector to the actuator. (Fig. 44)

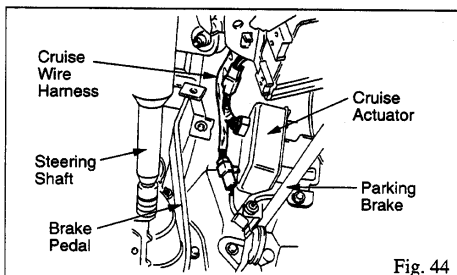
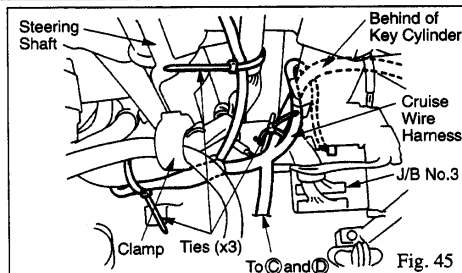


Fig. 44

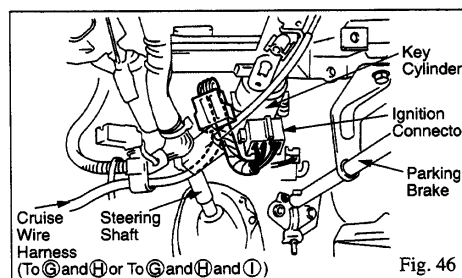
TOYOTA 2000 TACOMA
Section II - Installation Procedures

CRUISE CONTROL

- (23) Route the cruise wire harness as shown in figure.
 (3 tie straps) (Fig. 45)



- (24) Connect the ③ (Female, White, 8Pin) connector to the ignition connector, and put the ① (Male, White, 8Pin) connector in side space of that. (Fig. 46)



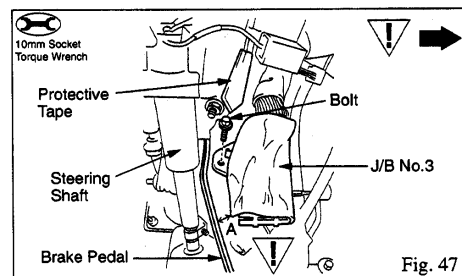
- (25) Install J/B No.3 to the J/B bracket. (1 Bolt) (Fig. 47)

➡ Match the projection of positioning on the J/B No.3 to J/B the bracket.

⚠ Tighten the bolts to the torque of 5 [N·m] {55 [kgf·cm], 47.7 [in·lbf]}.

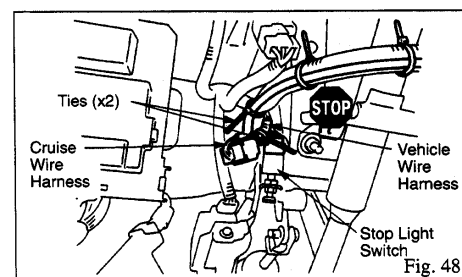
⚠ After installation, there must be 10 [mm] {0.4 [in.]} MIN. in the clearance A.

🔧 10mm Socket, Torque Wrench



- (26) Connect the ⑥ (Male, White, 4Pin) connector to the vehicle wire harness connector (Female, White, 4Pin), and connect the ⑦ (Female, White, 4Pin) connector to the stop light switch. (Fig. 48)

🛑 To avoid contact with a metal edge nearby, secure the wire harnesses using tie straps (with the vehicle wire harness running below other wire harnesses). (2 tie straps)

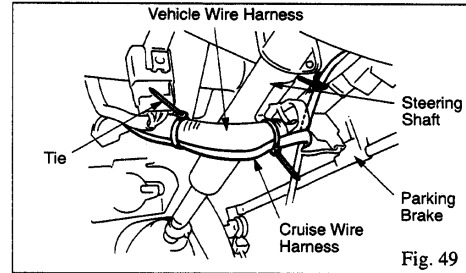


TOYOTA 2000 TACOMA

CRUISE CONTROL

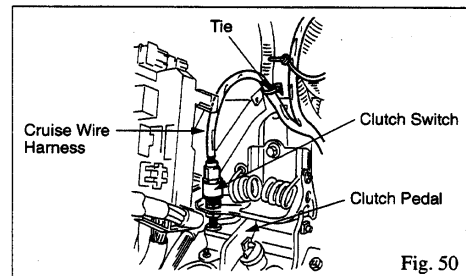
Section II - Installation Procedures

- (27) Route the driver's side wire harness as shown in the figure.
(1 tie strap) (Fig. 49)
- (28) Reinstall the brake pedal return spring. (Refer to Fig. 16)



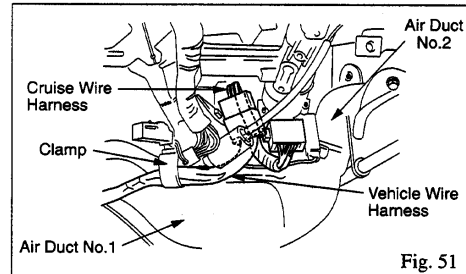
For M/T Vehicle Only (If A/T, Skip To (30))

- (29) Connect the ① (Female, White, 2Pin) connector to the clutch switch. (1 tie strap) (Fig. 50)



For All Vehicles

- (30) Reinstall air duct No.1 and air duct No.2. (Fig. 50)
- (31) Connect the vehicle wire harness for ignition to the ② (Male, White, 8Pin) connector. (Fig. 51)
- Reinstall the vehicle wire harness by the clamp. (Fig. 51)

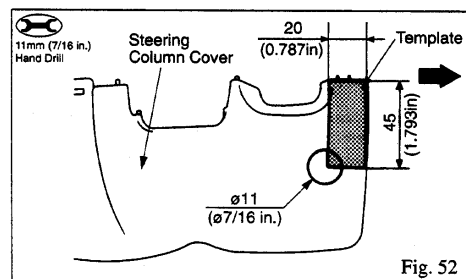


CONTROL SWITCH INSTALLATION

- (32) Drill an 11 [mm] {7/16 [in.]} diameter hole through the removed steering column cover. (Fig. 52)
- Refer to the drawing on page 18 to create a template.

➡ Use a template or dimension shown to determine the hole position.

⚙ 11mm (7/16 in.) Hand Drill



TOYOTA 2000 TACOMA
Section II - Installation Procedures

CRUISE CONTROL

(33) Install the control switch to the steering column cover.
 (Fig. 53, 54)

STOP Be careful not to install the washers in the wrong order.
 (Fig. 54)

! The surfaces mentioned as A & B, on lever wedge must be parallel. (Fig. 54)

! Tighten the nut to the torque of 2.6 to 2.9 [N•m]
 [25.3 to 28.8 [kgf•cm], 22 to 25 [in. •lbf]]

17mm Open End Wrench, Torque Wrench

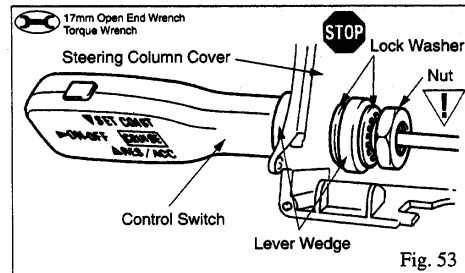


Fig. 53

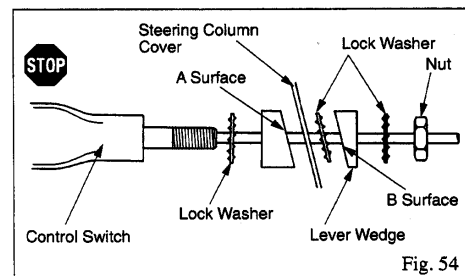


Fig. 54

(34) Insert the terminal of control switch into the **K** (Male, White, 3Pin) connector. (Fig. 55)

STOP Verify that the locks behind the connector are raised.

! After inserting the connector, engage the lock tab on the rear face of the connector; and press the lock tab into position until it clicks.

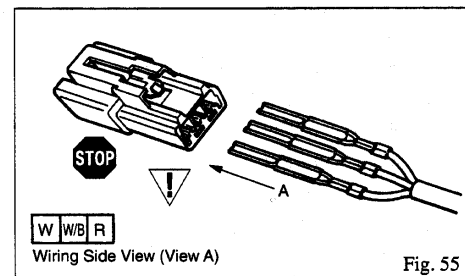


Fig. 55

TOYOTA 2000 TACOMA

CRUISE CONTROL

Section II - Installation Procedures

(35) Install the steering column cover and make sure that the control switch is positioned as shown when viewed by the driver. (Fig. 56, 57)

- ➔ Connect the ① (Female, White, 3Pin) connector to the ② (Male, White, 3Pin) connector.

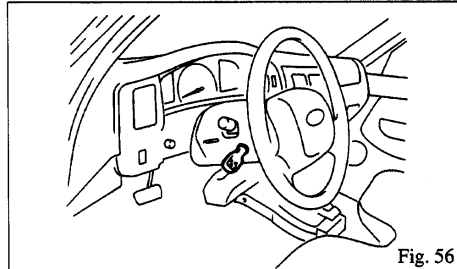


Fig. 56

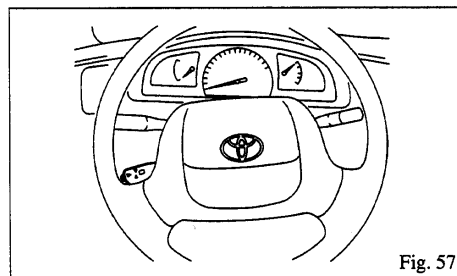


Fig. 57

(36) Checking fully-closed position of throttle link. (Fig. 58)

- ➔ With the throttle valve fully closed, ensure that no clearance exists between the throttle stopper.

⚠ If there is a clearance, eliminate the clearance by adjusting nut of the throttle cable.

🔧 12mm Open End Wrench x2

(37) Reinstall all the removed parts.

- 🛑 Perform full vehicle function check after the installation.
(See Section III Function Verifications)

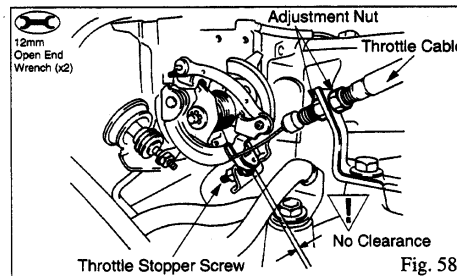
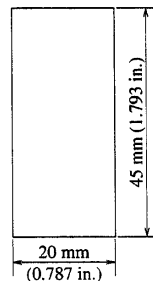


Fig. 58

Template

Use the template shown here to determine the position of the hole to be drilled in the steering column cover when installing the control switch. (Fig. 52)



TOYOTA 2000 TACOMA
Section III - Functional Verifications

CRUISE CONTROL

Date	VIN #
Vehicle Model/Year	ECU Type
Vehicle Color	

PREINSTALLATION INSPECTION

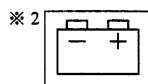
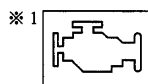
Head Lights (Low Beams)	<input type="checkbox"/>	Parking Brake Indicator	<input type="checkbox"/>
High Beams	<input type="checkbox"/>	Charge Warning Light ※ 2	<input type="checkbox"/>
Tail Lights	<input type="checkbox"/>	Starter	<input type="checkbox"/>
Stop Lights	<input type="checkbox"/>	Throttle Cable Play	<input type="checkbox"/>
Turn Signal Lights	<input type="checkbox"/>		
Meter Illumination	<input type="checkbox"/>		
Cigarette Lighter	<input type="checkbox"/>		
Malfunction Indicator Lamp ※ 1	<input type="checkbox"/>		
Radio	<input type="checkbox"/>		

SYSTEM INSTALLATION INFORMATION

OWNER'S MANUAL IN GLOVE BOX?	<input type="checkbox"/>
------------------------------	--------------------------

FINAL INSPECTION

Head Lights (Low Beams)	<input type="checkbox"/>	Parking Brake Indicator	<input type="checkbox"/>
High Beams	<input type="checkbox"/>	Charge Warning Light ※ 2	<input type="checkbox"/>
Tail Lights	<input type="checkbox"/>	Starter	<input type="checkbox"/>
Stop Lights	<input type="checkbox"/>	Throttle Cable Play	<input type="checkbox"/>
Turn Signal Lights	<input type="checkbox"/>	Control Switch Lock Nut Tighten	<input type="checkbox"/>
Meter Illumination	<input type="checkbox"/>	Stop Light Switch Position	<input type="checkbox"/>
Cigarette Lighter	<input type="checkbox"/>	Stop Light Switch Lock Nut Tighten	<input type="checkbox"/>
Malfunction Indicator Lamp ※ 1	<input type="checkbox"/>	Clutch Pedal Height	<input type="checkbox"/>
Radio	<input type="checkbox"/>	Clutch Switch Lock Nut Tighten	<input type="checkbox"/>



Section III - Functional Verifications

TEST THE SYSTEM

After completing the system installation, the system must be checked for proper connection and correct operation.

1. INPUT DIAGNOSIS

This function verifies the input signals from the switches of the cruise controller. This is performed by observing the changes in the blinking of the CRUISE indicator light while the conditions of the switches are changed.

PRECAUTIONS

- Before starting an input diagnosis, make sure that the connectors that had been disconnected during the installation are securely connected.
- Carry out the checks in a location in which the vehicle can be driven at low speeds (13 km/h minimum) (approx. 8MPH).
- If the MASTER CAUTION is output when the ignition switch is turned ON, refer to the repair manual.
- If the system does not proceed to input diagnosis or if the blinking of the CRUISE indicator light does not change correctly during input diagnosis, refer to the repair manual.
- If diagnostic trouble codes (14) are output while performing the step ③ described below, make sure to carry out the actions indicated in the repair manual.
- Maintain the pedals and the shift lever in the same state as previous until further instructions.

OPERATION STEPS (Perform the following operations in sequence, starting with ①.)

- Brake sw. must be working to enter this mode.*
- With the vehicle stopped, apply the parking brake, place the shift lever in the "P" position (or press the clutch on a M/T vehicle), and start the engine.
 - Press and hold the ON-OFF button of the control switch, and keep it in that state. (The power indicator light illuminates at this time.)
 - Approximately 7 seconds later, the power indicator light turns OFF and the actuator check starts. (This is an auto check performed by the system.)
 - After the actuator check has been completed, the power indicator light blinks as shown in Fig.4. Then, release the ON-OFF button of the control switch. (At this time, the blinking normally changes to that shown in Fig.3.)

⚠ From this point, the system enters the input diagnosis mode. If the state of the brake pedal or the shift position has changed before this point, the system does not enter the input diagnosis mode.

⊘ If the system does not enter the input diagnosis mode even if the operation has been carried out correctly, perform a repair according to the repair manual. (Trouble shooting table No.4)

- Move the shift lever to position D (on a manual transmission vehicle, place the shift lever in neutral and remove the foot from the clutch pedal) and make sure that the blinking changes to that shown in Fig.1.

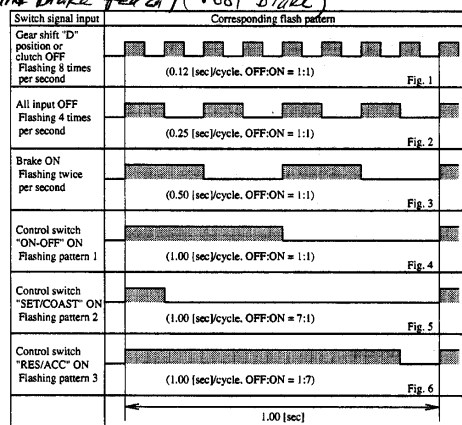
⚠ After checking, return the shift lever to position P (on a manual transmission vehicle, keep the shift lever in neutral and press the clutch pedal).

⊘ If the blinking does not change, perform a repair according to the repair manual. (Trouble shooting table No.5)

- On the control switch, press the ON-OFF button, the SET/COAST button, and the RES/ACC button, and make sure that the blinking changes as shown in Figure4, 5, and 6, respectively.

⚠ Do not press more than two switches at once. If more than two switches are pressed, momentarily move your hand away from the control switch, and repeat the operation.

⊘ If the blinking does not change, perform a repair according to the repair manual. (Trouble shooting table No.13)



Section III - Functional Verifications

⑦ Remove your foot from the brake pedal and make sure that the blinking changes as shown in Fig.2.

▽ After checking, press the brake pedal again.

⊘ If the blinking does not change, perform a repair according to the repair manual. (Trouble shooting table No.6)

⑧ Carry out a normal start off operation. When the vehicle speed reaches approximately 13 km/h (approx. 8 MPH), the power indicator light stops blinking, and the diagnosis operation ends.

▽ If the blinking does not change, perform a repair according to the repair manual. (Trouble shooting table No.12)

CANCELING CONDITIONS

Even if the system is undergoing diagnosis, the input diagnosis ends if any one of the operations listed below has been performed.

1. The ignition switch has been turned OFF.
2. The vehicle speed has exceeded 13 km/h (approx. 8 MPH).

2. CHECKING THE SYSTEM OPERATION

Check the operation on the vehicle in which the system is installed.

Check Item	Check Method
Set (constant speed control)	While the CRUISE indicator light is illuminated, press the SET/COAST button and check that the vehicle maintains the specified speed. (Constant speed control is not effective at 40 km/h (25 MPH) or below.)
Cancel	Press the brake pedal and make sure that the system cancels.