## TTACHING CABLE (continued)

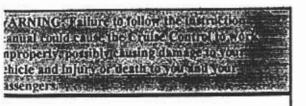
- 2. Attach the Bead Chain to the Two Bead Connector. Secure beads by folding down the metal tabs. The following parts will be used when installed properly:

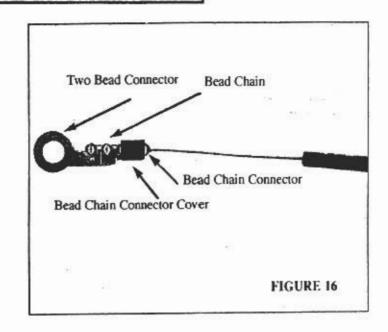
  Two Bead Connector, Bead Chain, Bead Chain Connector, and Bead Chain Connector Cover. (Figure 16)
- Remove clip or pin which retains throttle cable (and washer if provided) and install Two Bead Connector on the same side of throttle cable as the Cable Assembly will be anchored. This is necessary so that Cable Assembly and throttle cable will not cross.
- 4. The Two Bead may need to be bent so that it clears the throttle cable. (Figure 17) Also, the 4" Tie Strap can be used to hold the Two Bead Connector to the sleeve of the throttle cable. (Figure 17)

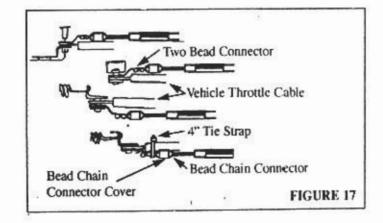
NOTE: After the Cable Assembly has been Attached, manually move the throttle to assure the Cable Assembly does not hang up on any part of the vehicle.

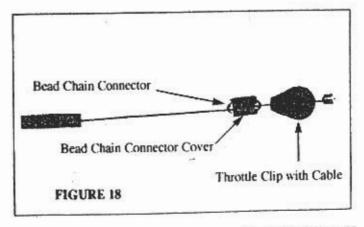
# GM, Ford, and Chrysler Throttle Using THROTTLE CLIP WITH CABLE

- Some GM, Ford, and Chrysler vehicles have an attachment stud on the throttle pulley.
- Slide a Bead Chain Connector Cover over the cruise cable, then attach the Bead Chain Connector to the cable. Attach the Throttle Clip with Cable to the Bead Chain Connector And slide the Connector Cover over the Bead Chain Connector. (Figure 18)
- Slide the Throttle Clip over the throttle pulley attachment stud. Push Throttle Clip onto the stud until it snaps firmly onto the stud.









## **Anchoring Cable Assembly**

There are three (3) types of connectors used to anchor the Cable Assembly:

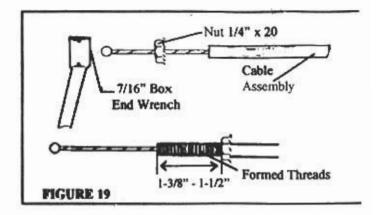
- A. Snap-In Adapter
- B. General Motors Blank Anchor
- C. Threaded Tube Clamp

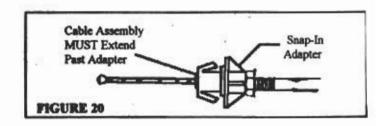
#### A. Snap-In Adapter

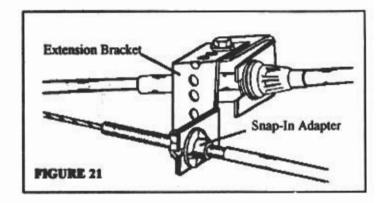
- To use the Snap-In Adapter, it will be necessary to form threads on the end of the Cable Assembly. This is easily accomplished by placing the 1/4" - 20 Nut on the end of the Cable Assembly with your fingers. Then use a 7/16" box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19)
- After the threads have been formed, screw the Snap-In Adapter on to the Cable Assembly. (Figure 20)

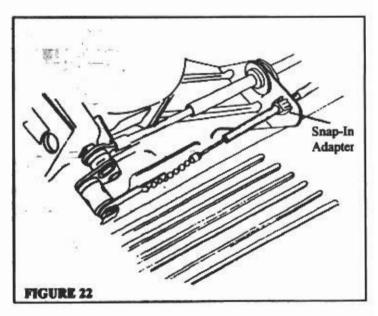
NOTE: Cable Assembly must extend past the end of the Snap-In Adapter on all applications.

 The Snap-In Adapter snaps into the square hole of the Extension Bracket (Figure 21) or snaps into an existing square hole on the vehicle — common on GM vehicles. (Figure 22)









## nchoring Cable Assembly (Continued)

#### General Motors Blank Anchor

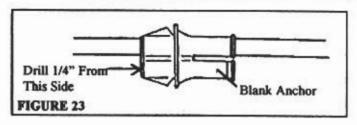
- To locate the blank anchor on General Motors vehicles, it is necessary to remove the air cleaner. The blank anchor is located above the throttle anchor.
- This anchor is hollow except at one end. Use
   a 1/4" bit and drill as shown in Figure 23.
- 3. Before using the 1/4"-20 Nut, remove the Adjustable Sleeve from the Cable Assembly. Then use the 1/4"-20 Nut to form threads on the end of the Cable Assembly. This is easily accomplished by first placing the 1/4" 20 Nut on the end of the Cable Assembly with your fingers and then use a 7/16" box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19, page 14)
- Insert the Cable Assembly through the blank anchor and thread the other 1/4" - 20 Nut in place. (Figure 24)

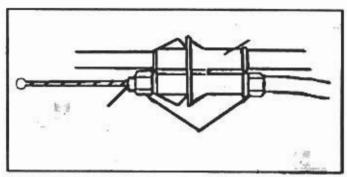
NOTE: If you do not use the other 1/4" - 20 Nut, install a Tube Clamp and the Threaded Tube Clamp 6" to 7" from the anchor point. (Figure 25) This will keep the Cable Assembly from backing out of the anchor.

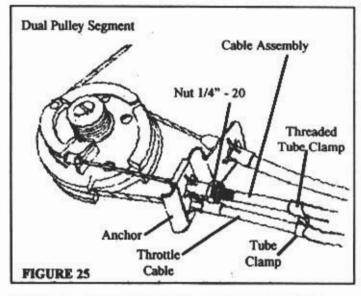
 The 1/4" - 20 Nut can also be used if there is a pre-existing 1/4" hole in a bracket on the vehicle or if it is possible to drill a 1/4" hole in a bracket on the vehicle. (Figure 26)

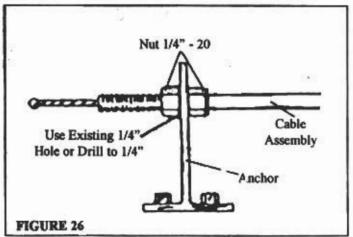
#### WARNING

Failure to follow the instruction manual could cause the Cruise Control to work improperly, possibly causing damage to your vehicle and injury or death to you and your passengers.





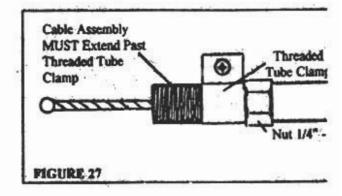


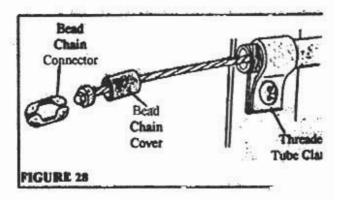


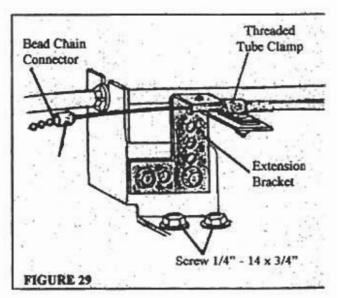
## Anchoring Cable Assembly (Continued)

#### C. Threaded Tube Clamp

- 1. To use Threaded Tube Clamp, it will be necessary to form threads on the end of the Cable Assembly. This is easily accomplished by first placing the 1/4" 20 Nut on the end of the Cable Assembly with your fingers and then use a 7/16" box end wrench and turn clockwise until the desired amount of threads have been formed. (Figure 19, page 14)
- After the threads have been formed, screw the Threaded Tube Clamp onto the Cable Assembly. (Figure 27)
- The Threaded Tube Clamp may be used to anchor the Cable Assembly to the existing throttle cable bracket. (Figure 28) In some cases there is an existing hole, in other cases you can drill a 3/16" hole in the bracket.
- The Threaded Tube Clamp may also be used to anchor the Cruise Cable using the Extension Bracket. (Figure 29)







#### WARNING

Pailure to follow the instruction manual could cause the Cruise Control to work improperty, possibly causing damage to your vehicle and injury or death to you and your passengers.

#### larness Assembly

Push Rubber Cover Grommet securely into place on the cover of the Actuator Assembly. (Figure 30)

Straighten the **Harness Assembly** and find the 4 pin mating connectors. Separate the 4 pin connectors. A small screw driver may be needed.

Harness Assembly needs a 3/4" hole to pass through bulkhead. You may find one nearby such as the speedometer cable hole or a small one you can file larger. If you find the right size hole in the right place, remove rubber grommet. If not, drill, saw, or punch a 3/4" hole in bulkhead. A hole a couple of inches to the left or slightly higher than the steering column is usually a good place. (Figure 31)

OTE: Check inside before drilling, sawing, or ling so you don't damage anything.

From engine side, pass four pin connector and VIOLET wire through hole. If you did not hook up the BLUE TACH wire and GRAY VSS wire under the hood, pass them through to the inside also.

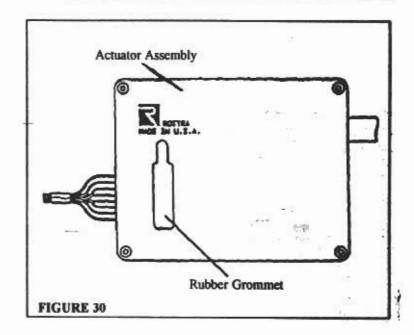
Reattach 4 pin mating connectors and make necessary wire connections. (See page 18)

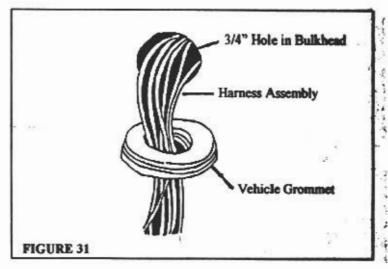
## ealing Bulkhead

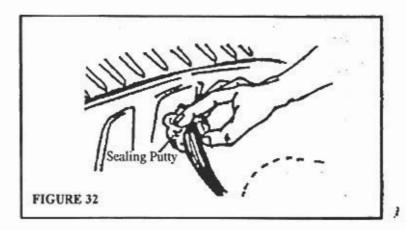
eal hole in bulkhead with Sealing Putty as shown 1 Figure 32.

#### WARNING

ailure to follow the instruction manual could cause the Cruise Control to work improperty, ossibly causing damage to your vehicle and ajury or death to you and your passengers.







17:40

er.5 .

## Cruise Control Switch Installation

If your Cruise Control switch is the type which clamps on the turn signal lever, requires cutting the turn signal lever, or is mounted on the instrument panel, follow instructions packaged with it. If you have a switch which replaces the complete original equipment turn signal lever, remove the existing lever and install the Cruise Control switch and lever assembly as instructed in the vehicle shop service manual.

#### CAUTION

If a two way radio is in the vehicle or is later installed, the Actuator Assembly should be located as far from the radio transceiver as practical (at least 3 ") and the Harness Assembly should be routed as far from the radio wires and coaxial cable as practical. The radio should be wired directly to a battery ground connection and the standing wave radio of the antenna should be as low as possible.

## WIRING ATTACHMENTS TO VEHICLE

To find a place to get electrical power you will need to "ground" one lead of your test light or volt-ohm meter. Find electrical ground by turning on the ignition switch and touching one lead to a hot fused terminal at fuse panel; touch other lead to unpainted metal part of vehicle. The metal you touch, if it makes continuity, is ground. Bracket for parking brake lever is usually a good ground. Turn ignition switch off.

NOTE: Some fuse panels are behind shields which must be removed first. On other vehicles the screw that mounts the panel must be removed to get to the fuses.

#### CAUTION:

Before making any wiring connections, be sure to disconnect your vehicle's negative battery cable to avoid electric shock and/or damage to the vehicle's electrical system.

| WIRE<br>COLOR | FUNCTION             | LOCATION   |  |
|---------------|----------------------|--|--|
| BLACK         | GROUND               | Vehicle ground point which is a clean unpainted metal surface  NOTE: DO NOT USE THE ENGINE AS A GROUNDING POINT. DO NOT CONNECT TO THE EXTENSION BRACKET   |  |
| BROWN         | ACCESSORY POWER      | Fuse panel: fuse that has +12 volts when key is ON and 0 volts when key is OFF or in the START (CRANK) position.   |  |
| RED           | CONSTANT POWER       | Hot side of brake switch - +12 volts   |  |
| VIOLET        | GROUND               | Cold side of brake switch - 0 resistance when brake is not pressed, +12 volts or open resistance when brake is pressed.  |  |
| BLUE .        | TACHOMETER           | See Vehicle Technical Information Guide (Form #2482)<br>or<br>consult Vehicle Shop Manual  |  |
| GRAY          | VEHICLE SPEED SENSOR | THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW |  |

## SELF DIAGNOSTICS PROCEDURES

## ntering Diagnostics Mode:

- 1. Turn the Cruise Control Switch to the OFF position
- 2. Turn the ignition switch to the OFF position
- 3. Press and hold the RESUME/ACCEL slide switch while you turn the ignition switch to the ON position without starting the engine. Now release the RESUME/ACCEL slide switch. (If you are using a 250-3592, 250-3593, 250-3742 or 250-3743 Cruise Control Switch, turn the ignition switch to the ON position without starting the engine, hold the RESUME/ACCEL button down while you turn the Cruise Control Switch to the ON position.)

Press and release SET/COAST button.

4. The Diagnostics LED should be off at this time.

IF NOT

sting the Cruise Control Switch, Brake Switch Wiring, and Vehicle Speed Sensor (VSS) Signal:

|   | LED should light each time button is   | til vantorani  |
|---|--|--|
| eck steps to entering diagnostics mode                                  | pressed and go out when it is released.  | IF NOT   |
| d try again   | IF YES   | Check steps to entering diagnostic mode and  |
|   | IF TES   | try again  |
| ck Programming Switch #7:   | Ĩ Ĩ  |  |
| FF: Normally OPEN switch ON: Normally CLOSED switch                     | Press and release the  | Check power to Actuator Assembly if none   |
| ON: Normally CLUSED switch  | RESUME/ACCEL switch. LED should  | of the diagnostic commands are functioning   |
|   | light each time the switch is pressed  |  |
| et incorrectly, reset and re-enter<br>gnostic mode                      | and to out when it is released.  | Check Cruise Control Switch  |
|   |  |  |
| eck power to Actuator Assembly, if<br>se of the diagnostic commands are | IF YES   | IF NOT   |
| ctioning  | Press and release the BRAKE, LED   |  |
|   | should light each time BRAKE is  | Check steps to entering diagnostic mode and  |
| ock Cruise Control Switch   | pressed and go out when it is released.  | try again  |
|   |  | Check power to Red wire  |
|   | IF YES   | Circle power to Red wife   |
| IF NOT  | Test VEHICLE SPEED SENSOR  | Check power to Actuator Assembly, if none  |
| ,INOI   | (VSS):   | of the diagnostic commands are functioning   |
| ck steps to entering diagnostic mode                                    | A second person is required to check   | I I  |
| try again   | visual status of the LED. Push car at  | Check Brake Switch and wiring to Brake   |
| 1   | least three (3) feet forward or  | Switch   |
| ne vehicles need to be pushed more than                                 | backward, LED should flash at least  |  |
| ee (3) feet   | once.  |  |
| 1   |  | IF NOT   |
| nection to the Vehicle Speed Sensor is                                  |  |  |
| I   | OR   | Check steps to entering diagnostic mode and  |
|   |  | try again  |
| connection point for the Vehicle Speed                                  |  |  |
| sor is not correct  |  | Check Programming Switch #10, it should be   |
| 781777  | Test AUXILIARY SPEED SENSOR  | OFF  |
|   | (Signal Generator):  | A STATE OF THE STA |
|   | A second person is required to check   | If switch is ON reset to OFF and re-enter  |
|   | visual status of the LED. One drive  | diagnostic mode  |
|   | wheel needs to be jacked-up, take care   | Name and American  |
|   | to use a support stand for safety. Spin<br>wheel by hand as fast as you can, LED | You must spin the wheel at least 3 MPH or  |
|   | should flash.  | faster in order to test an auxiliary signal<br>generator   |
|   |  | Daniel many  |

...

## **Testing the TACH Signal**

If all of the previous functions are correct, check the TACH Signal

- 1. Turn the Cruise Control Switch to the OFF position
- 2. Turn the ignition switch to the OFF position
- 3. Press and hold the RESUME/ACCEL slide switch while you turn the ignition switch to the ON position and start the engine. Now release the RESUME/ACCEL slide switch. (If you are using a 250-3592 or 250-3593 dash mount Cruise Control Switch, turn the ignition switch to the ON position and start the engine, hold the RESUME/ACCE button down while you turn the Cruise Control Switch to the ON position.)
- 4. The Diagnostics LED should be flashing. Rev the engine, the LED should flash faster at higher RPM's. If not:
  - Check steps to entering diagnostic mode and try again
  - Connection to TACH Signal source is bad
  - TACH Signal connection point is not correct

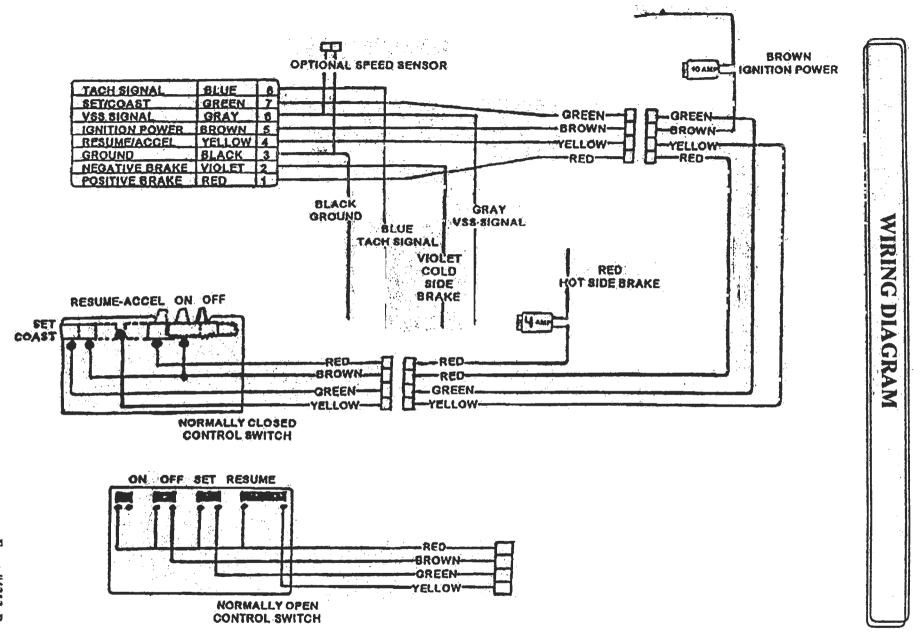
## CONTROL SWITCH TESTS

#### To do the test:

- 1. Unplug the 8-pin connector from the Actuator Assembly.
- 2. Ground the test light lead and verify that the test light works by proving with a known power source.
- 3. Follow Test Chart A for a Closed Circuit Control Switch, Test Chart B for an Open Circuit Control Switch

| IGNITION<br>SWITCH<br>POSITIONS | CONTROL<br>SWITCH<br>POSITIONS    | RED | DARK<br>GREEN | YELLOW | BROW |
|---------------------------------|-----------------------------------|-----|---------------|--------|------|
| OFF                             | OFF                               | OFF | OFF           | OFF    | OFF  |
| OFF                             | ON                                | ON  | ON            | OFF    |      |
| OFF                             | ON<br>press and hold<br>SET/COAST | ON  | OFF           | ON     |      |
| OFF                             | ON press and hold RESUME/ACCEL    | ON  | ON            | ON     |      |
| ON                              | ON                                | ON  | ON            | OFF    | ON   |
| CRANK or<br>START               | ON                                | ON  | ON            | OFF    |      |

|                                 | TEST CHART B                         | (FOR OPEN CI | RCUIT CONTROL | SWITCH) |      |
|---------------------------------|--------------------------------------|--------------|---------------|---------|------|
| IGNITION<br>SWITCH<br>POSITIONS | CONTROL<br>SWITCH<br>POSITIONS       | RED          | DARK<br>GREEN | YELLOW  | BROW |
| OFF                             | OFF                                  | OFF          | OFF           | OFF     | OFF  |
| OFF                             | ON                                   | ON           | OFF           | OFF     |      |
| OFF                             | ON<br>press and hold<br>SET/COAST    | ON           | ON            | OFF     | OFF  |
| OFF                             | ON<br>press and hold<br>RESUME/ACCEL | ON           | OFF           | ON      |      |
| ON                              | ON                                   | ON           | OFF           | OFF     | ON   |
| CRANK or<br>START               | ON                                   | ON           | OFF           | OFF     |      |



# TECHNICAL SERVICE

60040

In the event that you need technical assistance with trouble shooting, please have the following information ready when calling our Technical Service Department 910-277-1828. This information is important for a proper and speedy diagnosis of the problems encountered.

| viodel Number of Cruise Control System printed on box and manufacturers code printed on the  |
|--|
| Actuator Assembly  |
| Vehicle Make Model and Year:   |
| Engine and Transmission:   |
| Ensure that the Brake Switch wiring connections are correct.  Red wire of Wiring Harness Assembly is connected to "HOT SIDE"(color): |
| Violet wire of Wiring Harness Assembly is connected to "COLD SIDE" (color):  |
| Ensure that the Brown wire is connected to an "ignition power source"  |
| Speed Signal Source: VSS (Vehicle Speed Signal): Gray wire connection point and wire color:  |
| Alternative Speed Signal Source (Part #)   |
| Fachometer Signal: Blue wire connection point and color  |
| Actuator Assembly programming switch settings:   |
| 1 2 3 4 75 6 7 8 9 10<br>ON<br>OFF   |
| List the parts used for the throttle connection and cable anchoring. Refer to the Parts List a Parts Diagram on Pages 4-5.           |
|  |

## 36 MONTH/36,000 MILE LIMITED WARRANTY

AUDIOVOX CORPORATION (The Company) warrants to the original retail purchaser of this Cruise Product that should this product or any part thereof, under normal use and conditions, be proven defective material or workmanship within 36 months or 36,000 miles of the original purchase, such defect(s) will be repaired or replaced (at the Company's option) without charge for the parts.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station or the Company at the address shown below.

This Warranty does not cover costs incurred for removal or reinstallation of the product, or damage to vehicle electrical systems.

This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

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THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

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IN WESTERN U.S.A.: AUDIOVOX WEST CORPORATION, 16808 MARQUARDT AVE, CERRITOS, CA 90701 Phone (213) 926-7758

## OWNER'S WARRANTY RECORD

(To be completed by selling dealer and retained by customer)

| Customer's Name    |                         |     |  |
|--------------------|-------------------------|-----|--|
| Address            |                         |     |  |
| Dealer Name        |                         |     |  |
| Dealer Address     |                         |     |  |
| City               | State                   | Zip |  |
| Date Purchased     | Date Installed          |     |  |
| Make & Year of Car | Mileage at Installation |     |  |

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