

FITTING INSTRUCTIONS FOR HOLDEN VN COMMODORE CRUISE CONTROL PACKAGE PART No. 92038087

UNDER – BONNET

1. Disconnect Battery.
2. Remove windscreen washer bottle.
3. Mount stepper motor/module asm, cable and cable mounting bracket according to Fig. 3.
4. Route Cruise Control Harness along main harness as shown (Fig. 1) secure where possible using existing straps.

INTERIOR

1. Remove instrument panel lower cover (Fig. 13).
2. Remove fuse panel and fuse panel support.
3. Remove and disconnect left and right hand side switches.
4. Remove instrument cluster.
5. Remove connectors 1 and 3 from cockpit module (Fig. 6).
6. Remove terminal 2 from connector 1 (circuit number 85) and terminal 5 from connector 3 (circuit number 389). Refer Figures 9 & 10 page 5.
7. Measure 57 mm down and 57 mm inboard, from centre of main wiring harness grommet.
8. Mark and drill a 20 mm hole. Remove any sharp edges.
9. From the engine bay, feed cruise control harness through the hole drilled and install grommet.
10. Route the cruise control harness along main wiring harness.
11. Make electrical connections as shown on pages 2 and 5.
12. On completion of fitment re-install all parts removed, and perform installation diagnostic check (Page 6).

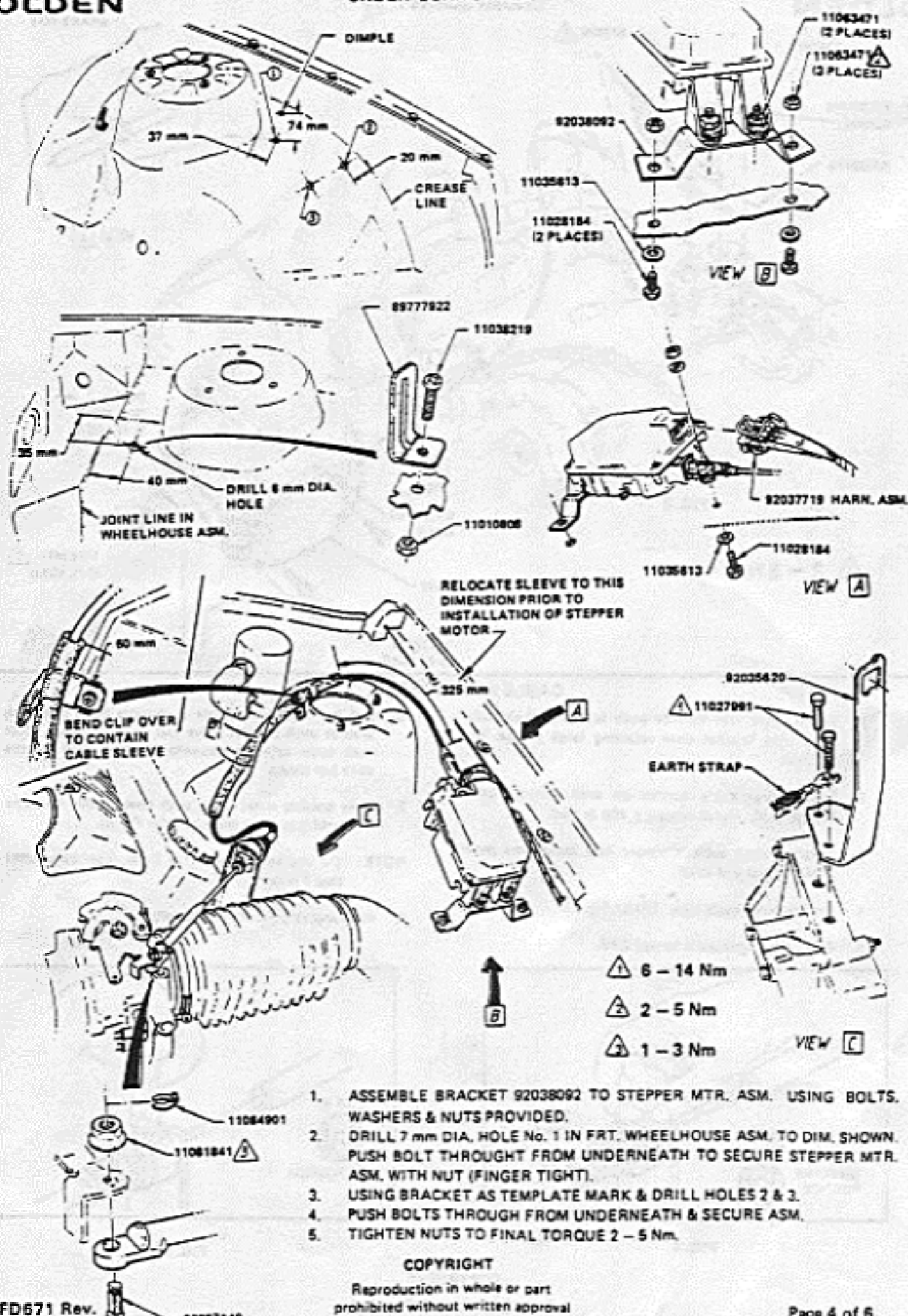


HOLDEN SERVICE PARTS OPERATIONS

Division of General Motors - Holden's Automotive Limited ACN 006 893 232

HOLDEN

UNDER BONNET : V8





HOLDEN

UNDER BONNET: V6

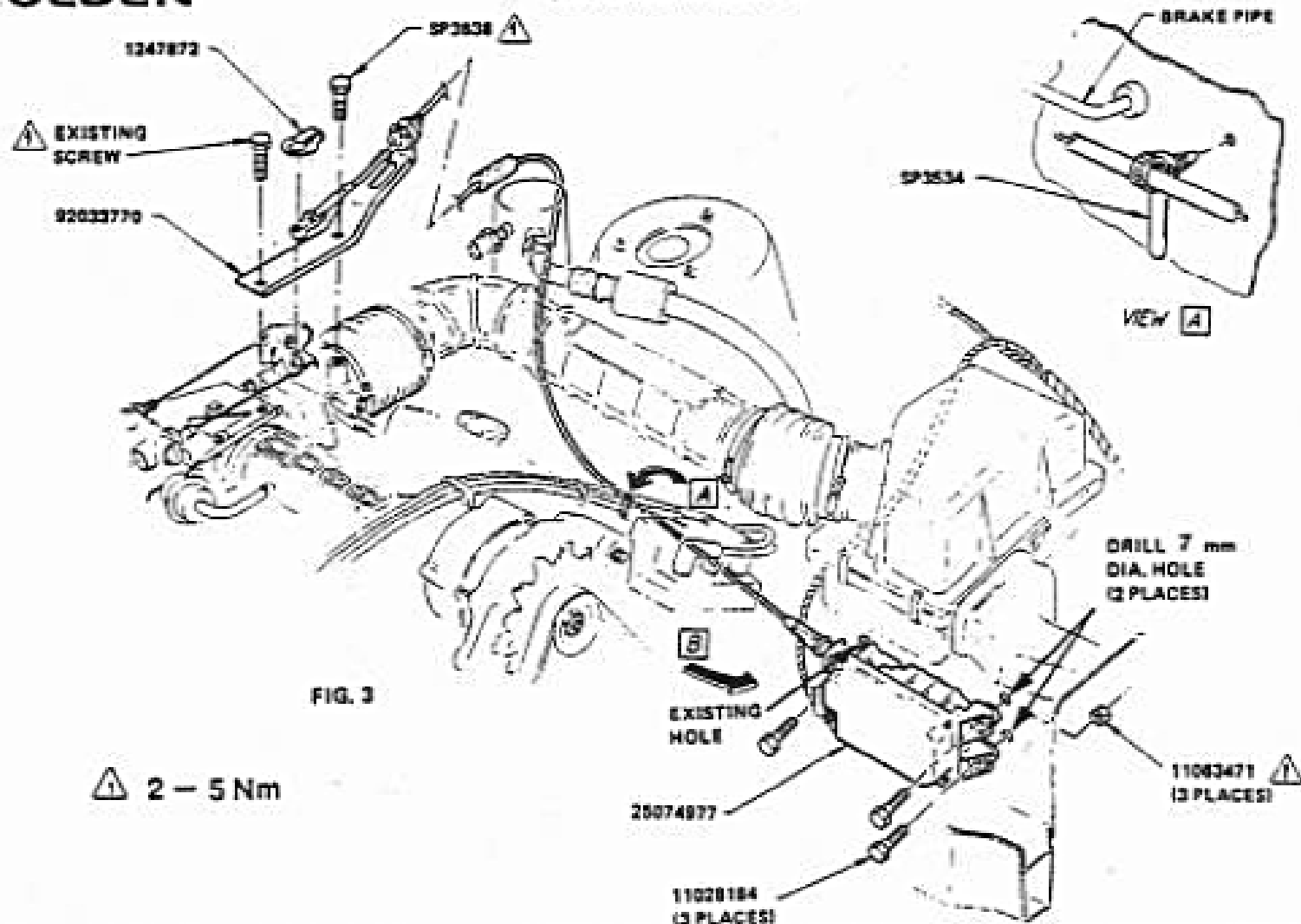


FIG. 3

⚠ 2 - 5 Nm

CABLE ADJUSTMENT

1. Install cable into throttle body bracket. Push outer cable into bracket until retaining tangs engage into position.
 2. Install inner cable connection onto throttle body linkage stud. Install retaining clip to stud.
 3. Install control cable assembly into inner skirt panel retaining clip and strap.
 4. Unlock outer cable lock. (Refer Fig. 4).
 5. Ensure that ignition is turned OFF.
 6. Pull back on outer cable at throttle body mounting bracket until throttle valve just begin to open. Then push outer cable in opposite direction until throttle valve just closes.
 7. While holding outer cable, push down firmly on cable lock until it locks in place. (Refer Fig. 5).
- NOTE:** Do not release hand grip from outer cable until step 7 is completed.
- B. Refit engine front cover (V8 only).

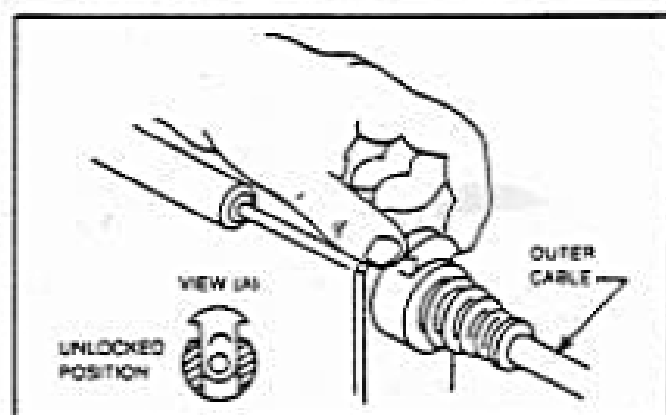


FIG. 4

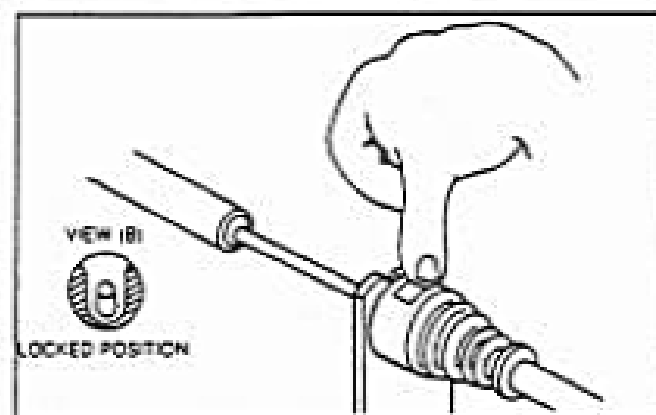


FIG. 5



HOLDEN

INTERIOR ELECTRICAL

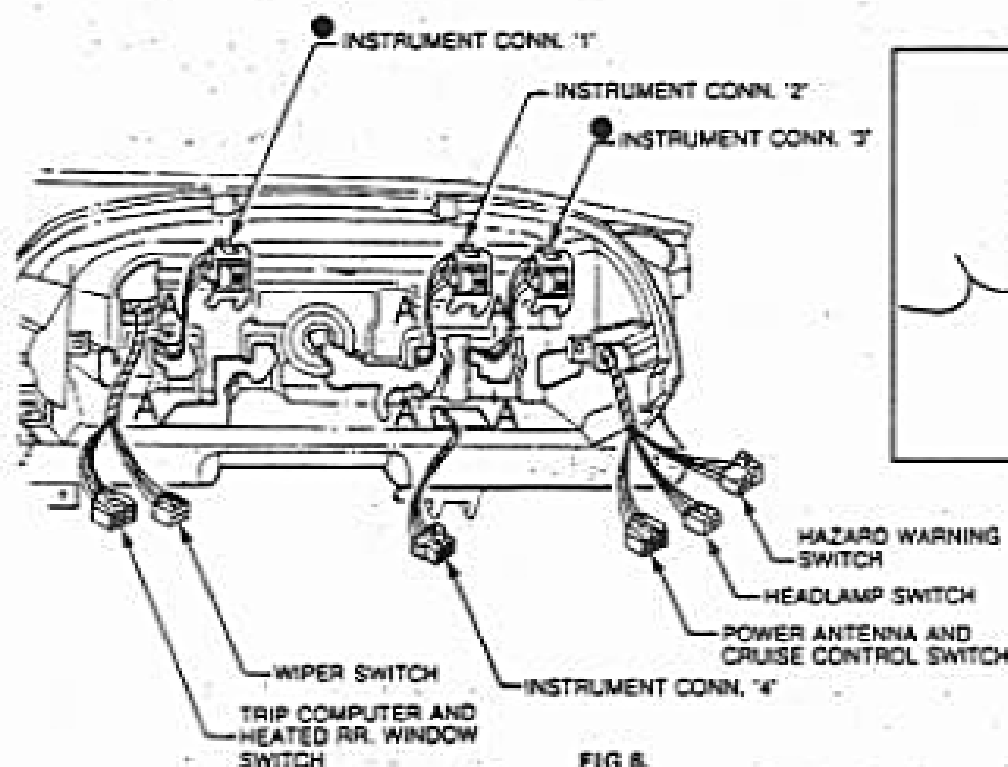


FIG 6.

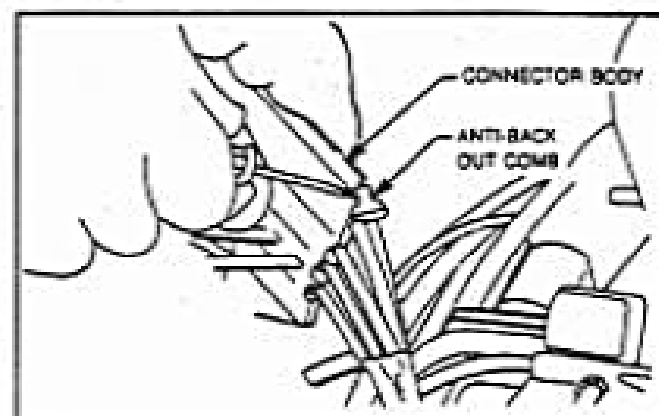


FIG 7.

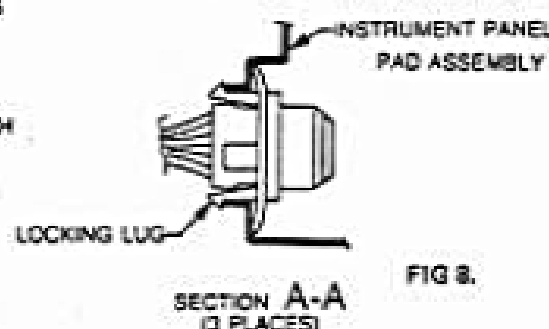


FIG 8.

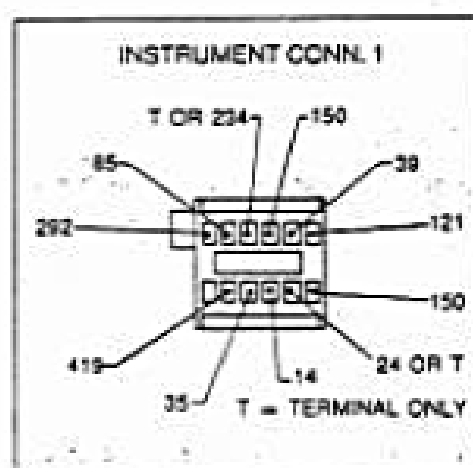


FIG 9.

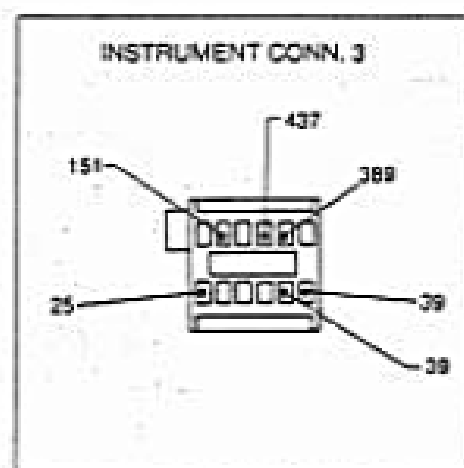


FIG 10.

LEGEND

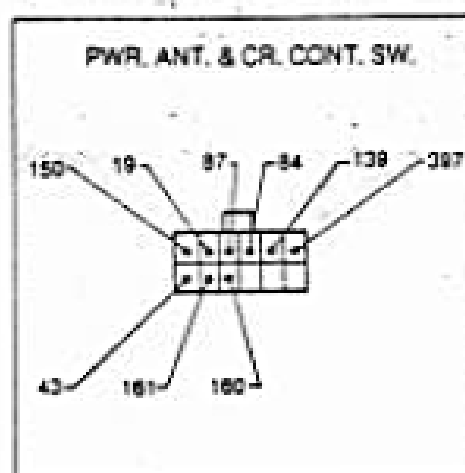
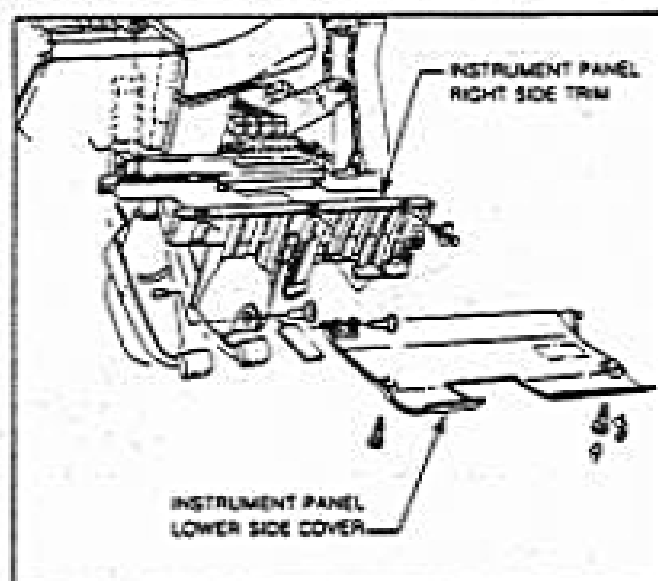
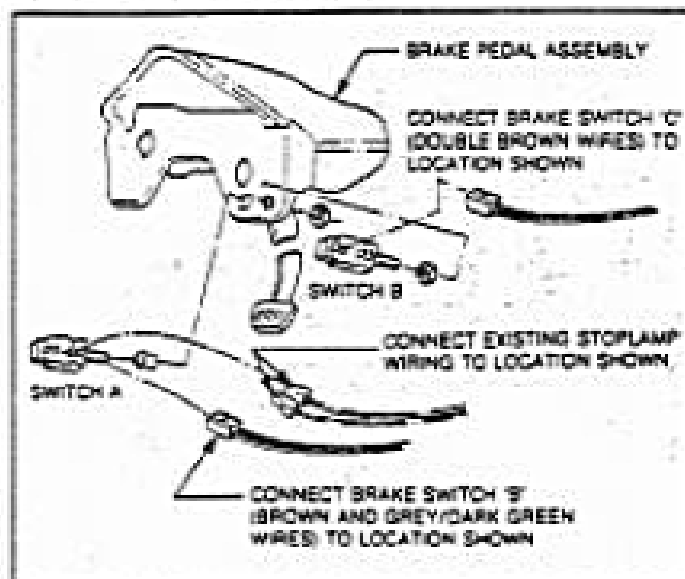


FIG 11

| EXISTING | WIRING, |
|----------|------------------|
| 14 | - LIGHT BLUE |
| 19 | - BROWN / WHITE |
| 24 | - LIGHT GREEN |
| 25 | - BLACK |
| 39 | - PINK / BLACK |
| 43 | - YELLOW |
| 121 | - BROWN / RED |
| 150 | - BLACK |
| 151 | - BLACK / WHITE |
| 160 | - WHITE |
| 161 | - LIGHT BLUE |
| 292 | - BLACK / RED |
| 419 | - BROWN / WHITE |
| 437 | - BROWN / YELLOW |

| CRUISE CONTROL HARNESS | |
|------------------------|----------------|
| 84 | - BLUE |
| 85 | - WHITE |
| 87 | - GREY / BLACK |
| 139 | - PINK |
| 389 | - GREEN |
| 387 | - GREY / GREEN |

**HOLDEN****STOP LAMP AND ELECTRICAL RELEASE SWITCHES****FIG. 13****FIG. 12**

1. Remove and discard existing stoplamp switch and clip.
2. Install switch A as shown in Fig. 12 and adjust.
 - a. Hold the brake pedal against its stop.
 - b. Push the switch forward to bottom the plunger against the brake pedal. Listen for the clicks as the clip rides over the thread.
3. Screw one nut onto switch B as far as possible and locate switch as shown in Fig. 12 and adjust.
 - a. Move switch forward until the plunger bottoms against the brake pedal.
 - b. Unscrew the nut from the switch until it bears against the brake pedal support with the pedal held against its stop.
 - c. Screw the second nut onto the switch and tighten, taking care not to strip the plastic thread.
4. Install harness as indicated in Fig. 12.
5. Check operation of stoplamps.

CRUISE CONTROL INSTALLATION DIAGNOSTIC

Objective:— To provide a means of checking the installation of the cruise control package, with respect to the switch and the speed sender inputs to the stepper motor cruise control unit (and the ability of the motor to pull the throttle) without the use of special test equipment.

- Steps.**
1. Cruise On/Off switch to 'Off' position.
 2. Cruise On/Off switch to 'On' position.
 3. Apply and hold brake pedal, set, '—' and res. '+' switches.
 - * If switch inputs are correct, the cruise lamp in the instrument cluster will turn on.
 - * Any switch release will cause an exit from the diagnostic mode.
 4. Release the brake pedal with the set. and res. switches still applied.
 - * The motor will stroke to 20% throttle and then back to zero.
 - * Cruise lamp will be on.
 5. Let car roll (if possible) or drive at a speed less than 24km/Hr. After 5 seconds with all switches applied, the cruise lamp will flash with varying speed sender state.
 - * Do not release the brake pedal fully or release the set. and res. switches.
 6. End of diagnostics.
 - * Release the set. and res. switches.
 - * Cruise lamp is off.



HOLDEN

CRUISE CONTROL HARNESS

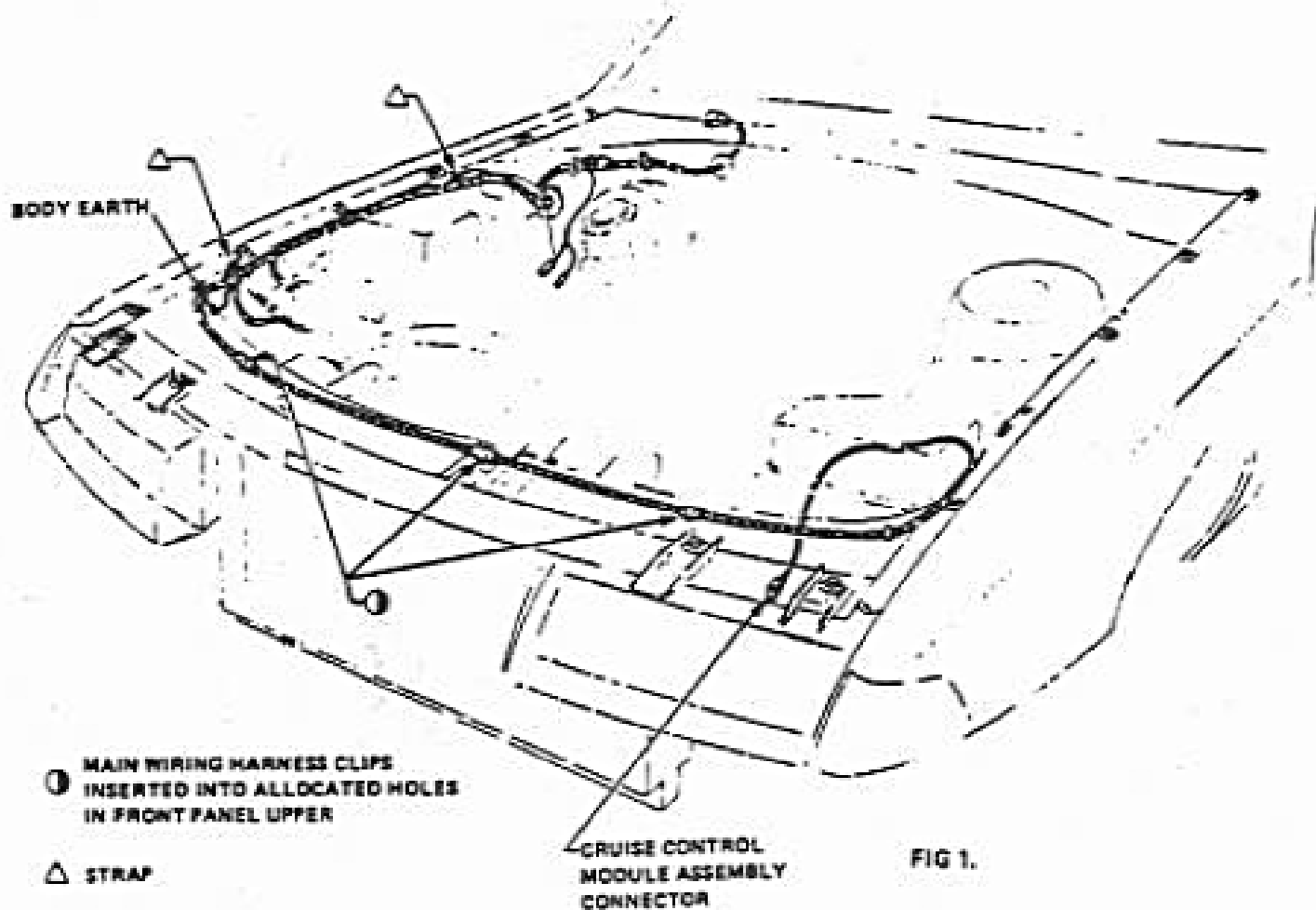
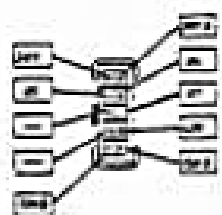


FIG 1.



CRUISE CONTROL ACTUATOR

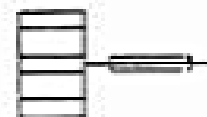
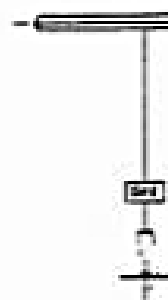
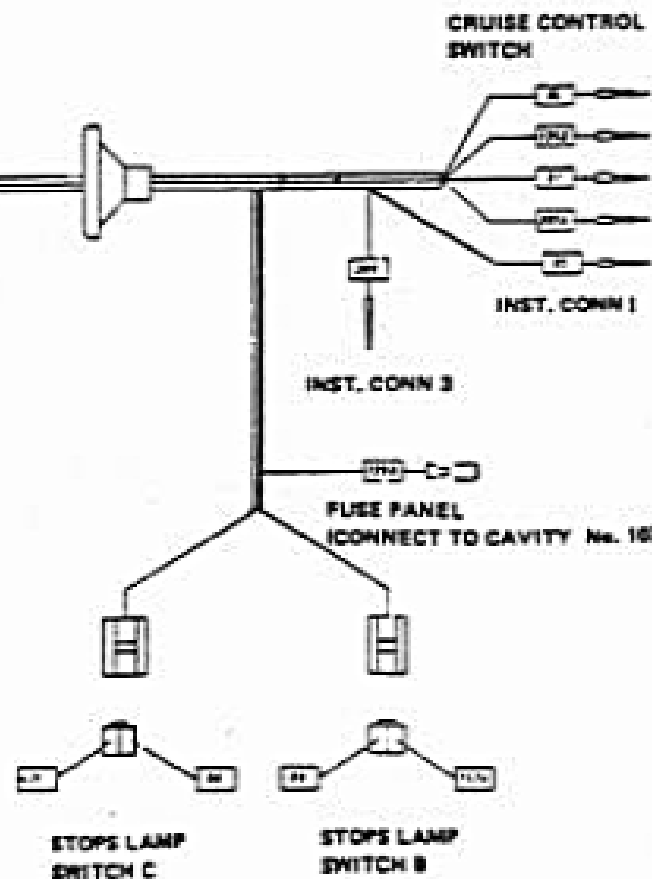


FIG 2



BODY EARTH



| No. | COLOUR | SIZE | FROM | TO |
|-------|--------------|---------|--|-------------------------|
| 107 | BROWN | 0.5 | STOP LAMP SWITCH C | CRUISE CONTROL ACTUATOR |
| 107 B | GREEN/DR GRN | 0.5 | PWR ANT & CRUISE CONT SW/CRUISE CONTROL ACTUATOR | |
| 107 A | GREEN/DR GRN | 0.5 | PWR ANT & CRUISE CONT SW/STOP LAMP SWITCH B | |
| 109 | DK GREEN | 0.5 | INSTRUMENT CONN 3 | CRUISE CONTROL ACTUATOR |
| 108 A | BLACK | 0.83 | CRUISE CONTROL ACTUATOR | BODY EARTH |
| 109 B | PUR | 0.5 | PWR ANT & CRUISE CONT SW/CRUISE CONT ACTUATOR | |
| 109 A | PUR | 0.5 | PWR ANT & CRUISE CONT SW/FUSE PANEL 10 | |
| 82 | GREEN/BLACK | 0.5 | PWR ANT & CRUISE CONT SW/CRUISE CONT ACTUATOR | |
| 8c | BROWN | 0.5 | STOP LAMP SWITCH B | STOP LAMP SWITCH C |
| 85 | WHITE | 0.5 | INSTRUMENT CONN 1 | CRUISE CONT ACTUATOR |
| 84 | DK BLUE | 0.5 | PWR ANT & CRUISE CONT SW | CRUISE CONT ACTUATOR |
| LEAD | | ROUTING | | |