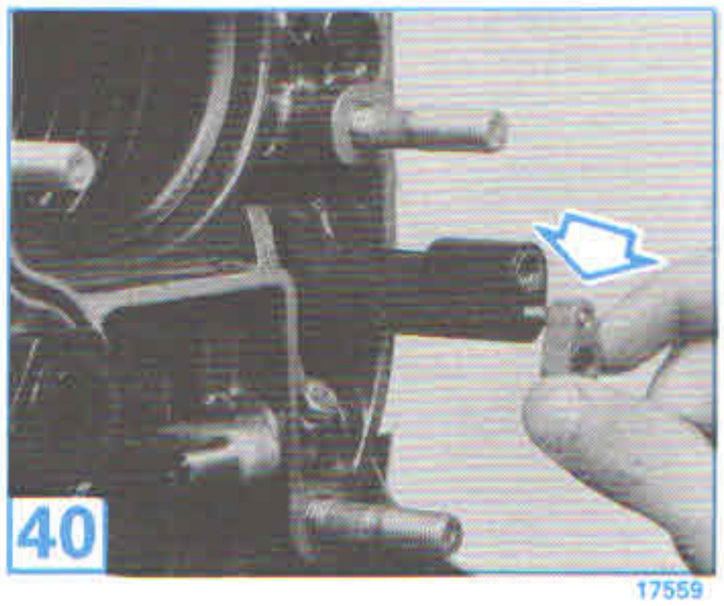

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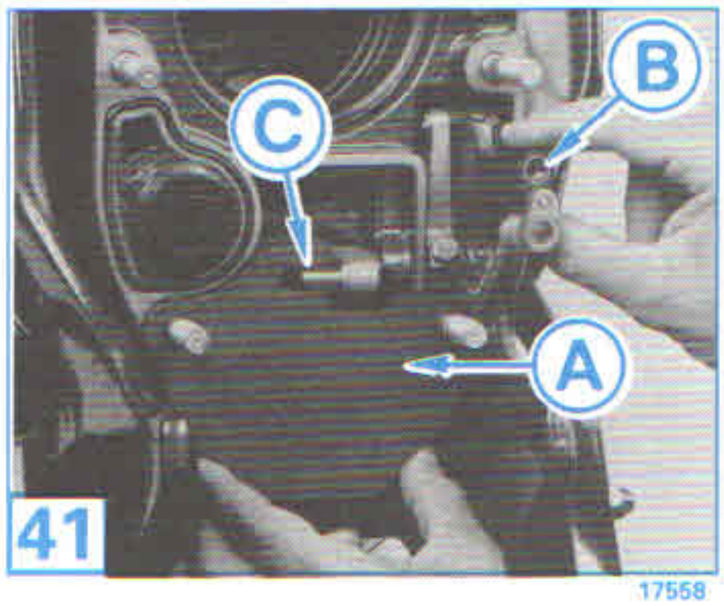

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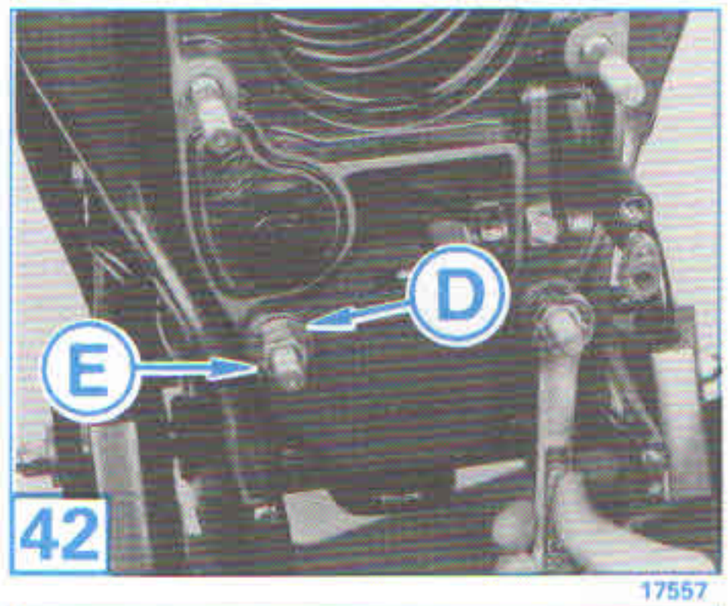

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Transom Bracket Shift Cable Adjustment

Note Whenever the shift cable is replaced, the cable must be adjusted prior to attachment at the engine shift bracket to ensure full range of travel and proper neutral position.

40 1. Screw cable anchor onto end of core wire until it's flush with end of wire.

41 2. Place OMC Bellcrank Alignment Plate Ⓐ P/N 914017 on the two lowest pivot housing studs. Slide shift cable guide Ⓑ in or out until bellcrank pin Ⓒ is captured by slot in alignment plate.

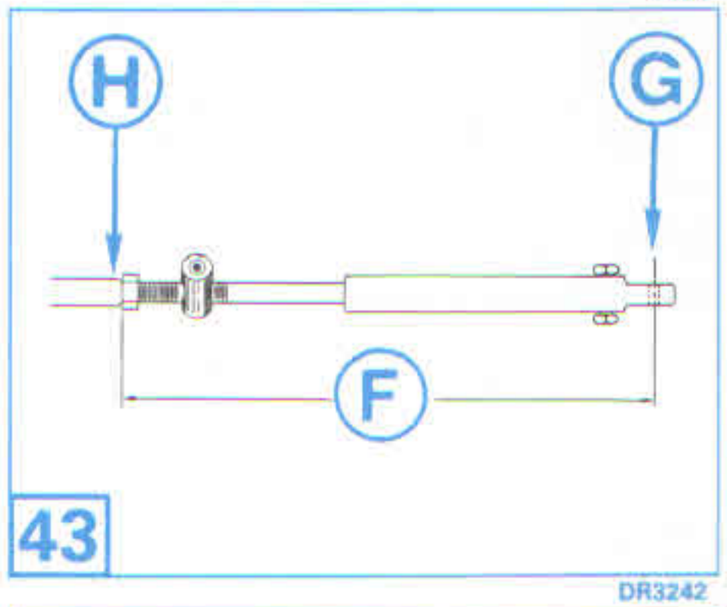
42 3. Install three ⅛" (3,18mm) thick 7/16" (11,11mm) I.D. flat washers Ⓓ (OMC P/N 312972), and one 7/16 hex nut Ⓔ, on each stud. Tighten nuts so there is no movement in alignment plate.

Important This is a critical dimension. Use care to make certain dimension is maintained while making the following adjustments.

43 43A 4. Slide casing guide at engine end of cable in or out to set a 7 9/16" ± 1/32" (19,23 cm ± 0,79 mm) dimension Ⓕ as measured from the center of shift pin hole Ⓖ to the edge of brass cable fitting Ⓗ. OMC Special Tool P/N 915271 should be used to set the cable dimension if available.

44 5. Being careful not to disturb cable setting, screw on swivel retainer Ⓘ until it just contacts the shift cable guide, then install screw finger tight.

6. Remove alignment plate.



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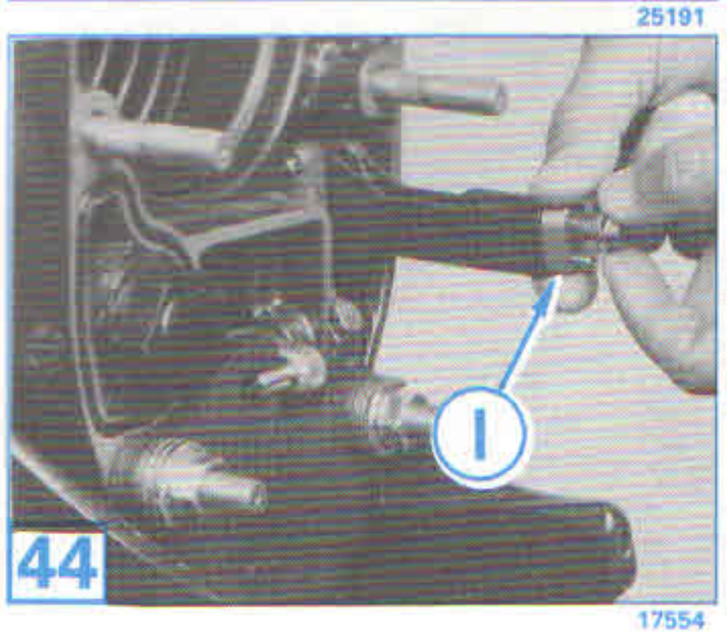

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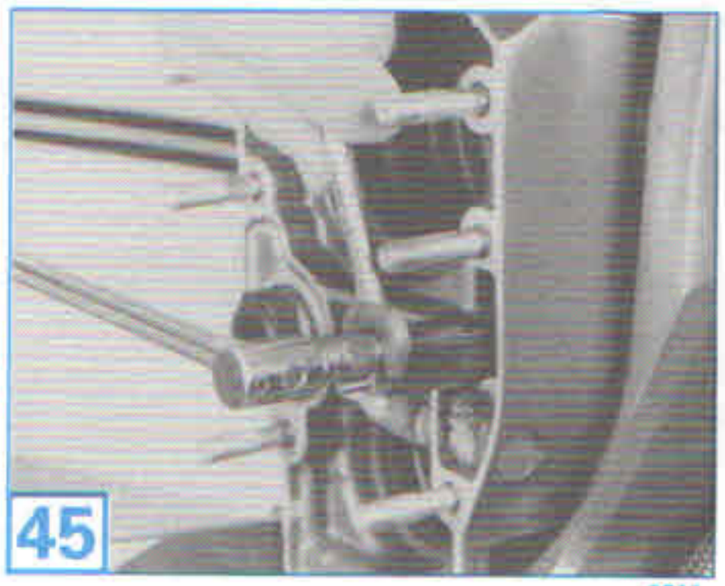

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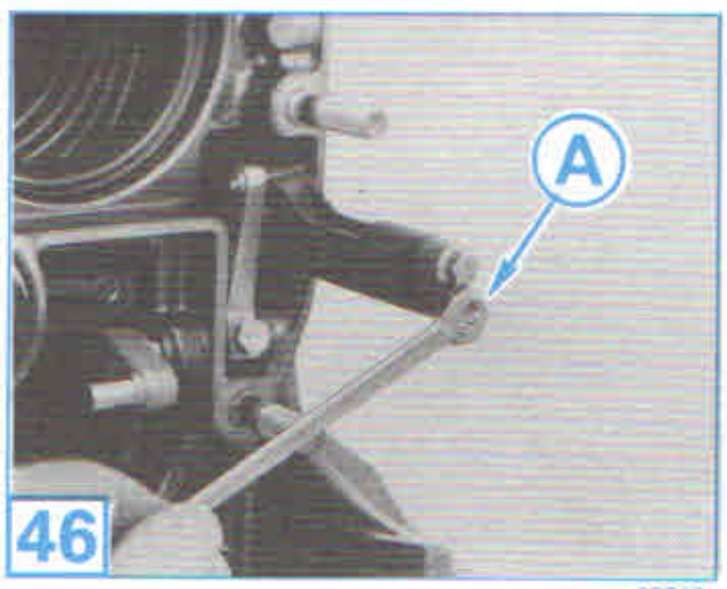

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45 ⚠ 7. To fully engage shift cable guide and prevent binding of shift cable, push cable all the way forward into pivot housing. Hold cable guide vertical with a 9/16" wrench, then **tighten the screw to 10-12 ft. lbs. (14-16 N·m).** Holding guide prevents it from twisting when screw is tightened.

Note Failure to hold guide vertical when tightening screw will cause cable to stick at end of travel when pushed in. Cable actuation force must be as light as possible and not exceed 5 lbs. when extending or retracting casing guide (engine end) 1¼ in. in either direction from neutral position (2½ in. total travel).

46 8. Install collared retainer nut Ⓐ and tighten to a torque of 24-36 in. lbs. (2,7-4,0 N·m).

43 43A 9. Install the alignment plate and recheck dimension of casing guide at engine end of cable to verify the 7 9/16" ± 1/32" (19,23 cm ± 0,79 mm) dimension was maintained. Repeat steps 1 thru 8 if this dimension was not correct.

47 10. Lightly coat the bellcrank pin with *OMC Triple-Guard* grease.

Transom Bracket Shift Cable Replacement

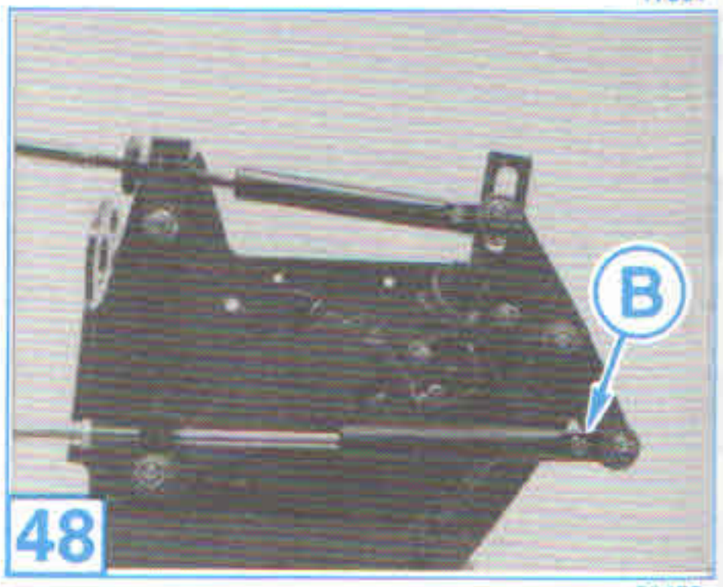
Removal

48 1. Disconnect transom bracket shift cable Ⓑ at engine.

49 2. Loosen both set screws Ⓒ and remove casing guide.

50 3. Loosen lock nut Ⓓ and unscrew casing guide jacket Ⓔ from shift cable.

51 4. Cut the two tie straps securing the boot to the end of the cable sleeve inside the boat. Pull the boot off the sleeve.



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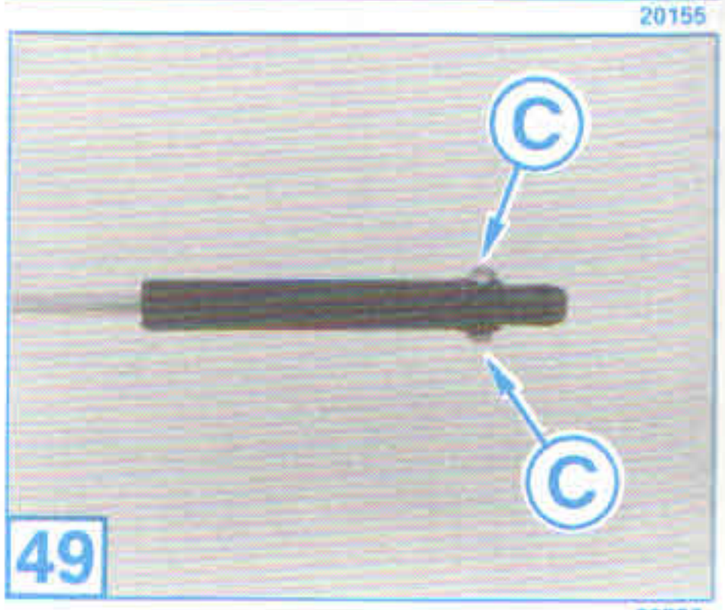

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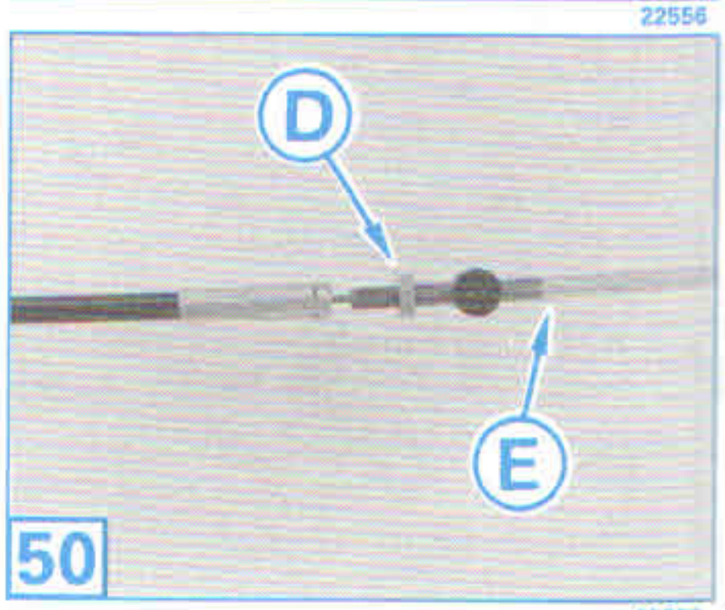

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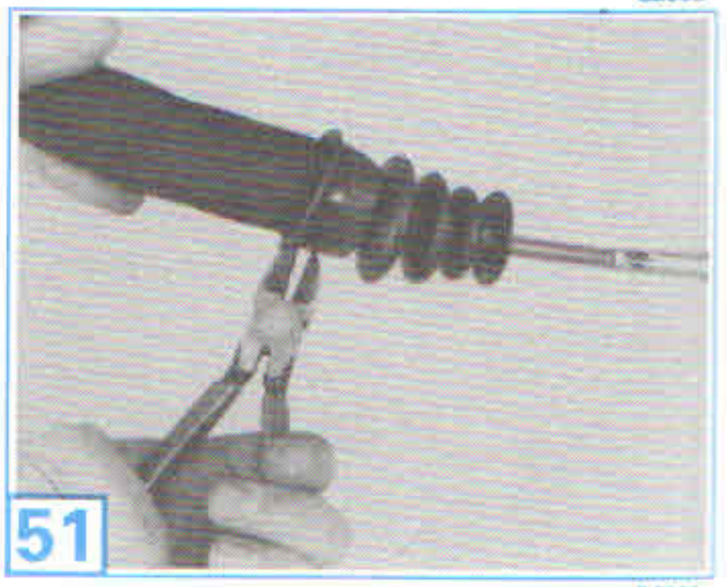

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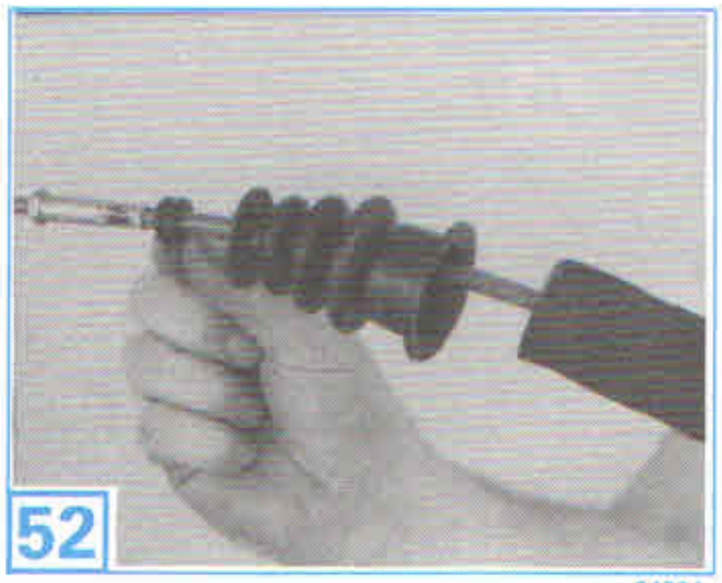

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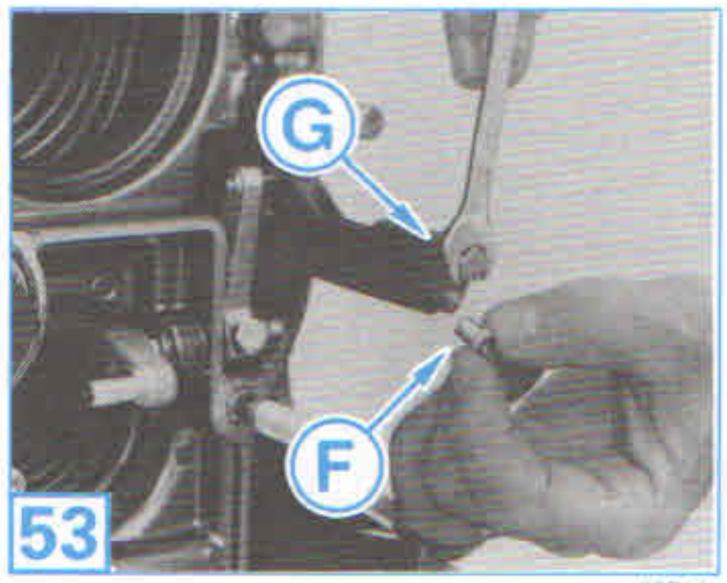

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52 5. Pull the split-ring grommet from the end of the boot and take it off the cable. Slide the boot off the end of the cable.

6. Remove the vertical drive following the procedure in **Section 16.**

53 7. Remove collared retainer nut Ⓕ from inner shift cable wire. Remove screw and unscrew retainer Ⓖ at end of shift lever.

8. Perform all procedures under Pivot Housing Removal.

54 9. Pull the pivot housing out as far as you can. Loosen the cable retaining nut, then remove pivot housing.

55 10. Slide the plastic corrugated casing off the shift cable and pull the cable out of the housing.

Installation

56 1. Push inner cable in flush with shift cable casing. Cover end of casing with electrical tape to prevent water entering cable core when cable is inserted into sleeve.

57 2. Wrap plastic tubing around shift cable. End of tubing should contact back of hex fitting when in place. Lubricate plastic tubing with soapy water and push cable casing through sleeve and connector.

58 3. Apply *OMC Gasket Sealing Compound* to a new shift cable O-ring. Slide it onto the cable end and position it against the fitting hex.

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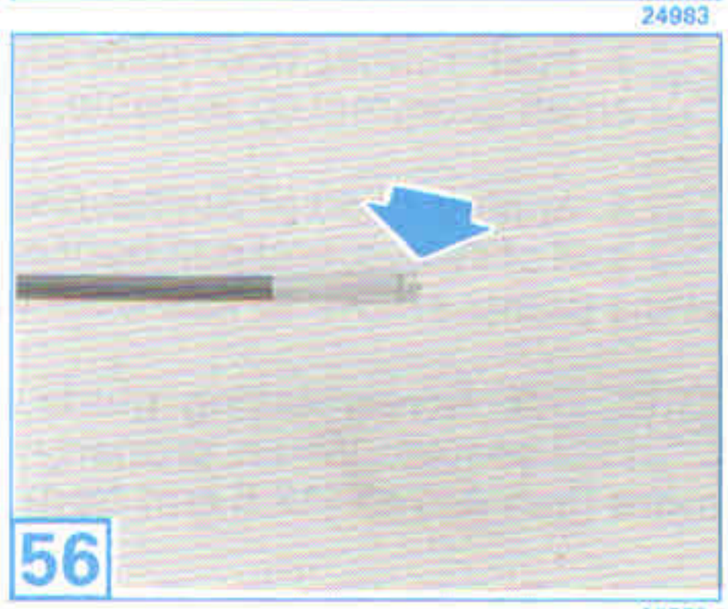

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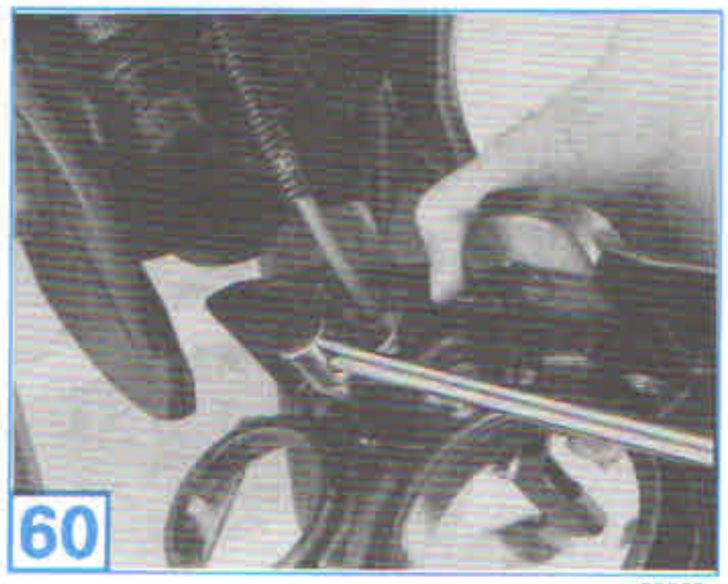
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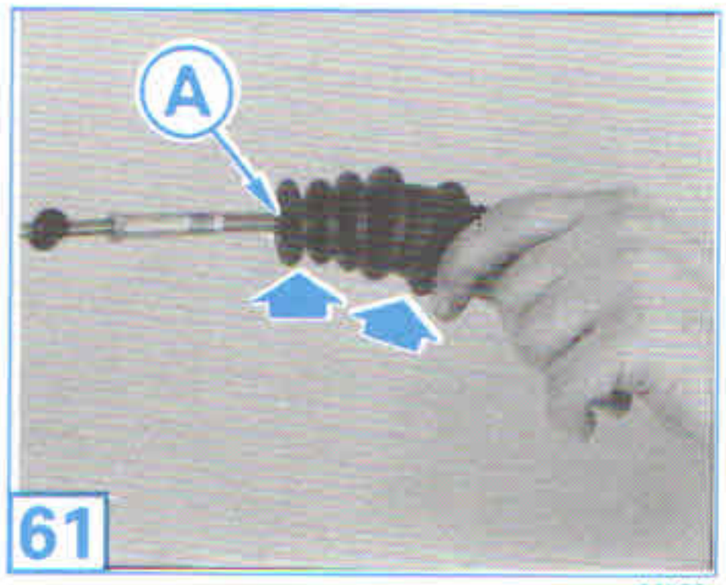

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59 4. Wipe excess sealer off the cable end, then coat the entire length with *OMC Triple-Guard* grease.

60 5. Insert the cable end through the rear of the pivot housing and into the guide. Screw in the fitting and use a crowfoot adapter to tighten it to a torque of 35-37 ft. lbs. (47-50 N·m). Attach the crowfoot to the torque wrench at a 90° angle to ensure an accurate reading.

6. Perform all procedures under **Pivot Housing Installation.**

61 7. Push rubber boot onto engine end of shift cable. Attach small grommet Ⓐ to cable, then push it into the boot.

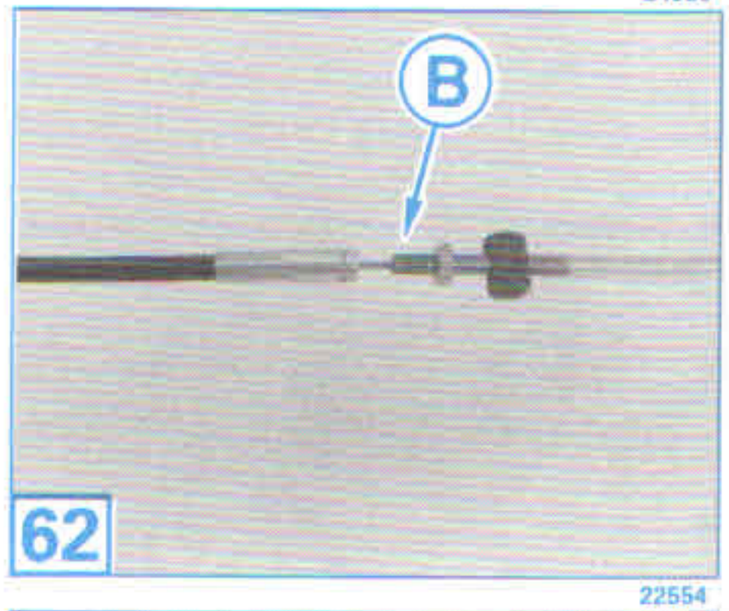
61 8. Apply a bead of *Scotch Grip Rubber Adhesive 1300* around end of sleeve, and pull boot onto sleeve. Attach two tie straps at the points shown to seal boot to sleeve, and boot to grommet.

62 63 9. Screw casing guide jacket Ⓑ into cable until it is seated. When properly installed, it must measure no more then 4 15/16" (12,5 cm) from forward end Ⓒ to cable tip Ⓓ.

63 10. Tighten locknut Ⓔ to a torque of 35-50 in. lbs. (4.0-5.6 N·m).

64 65 ⚠ 11. Lubricate cable and casing with *OMC Triple-Guard* grease. **Slide casing onto guide jacket until inner cable seats against sight hole** Ⓕ. Turn one set screw against core wire and tighten to a torque of 18-20 in. lbs. (2-2,3 N·m). Turn other set screw against core wire and also tighten to a torque of 18-20 in. lbs. (2-2,3 N·m).

12. Proceed to **"Transom Bracket Shift Cable Adjustment"** (page 6-25).



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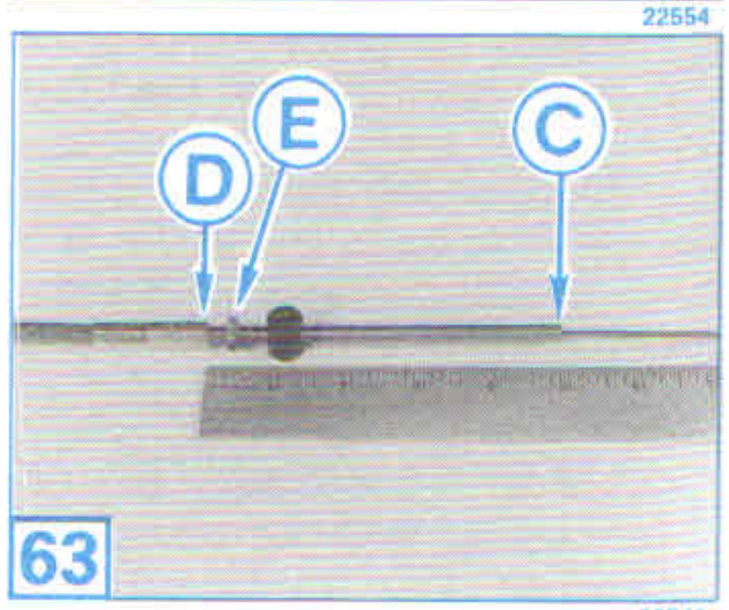

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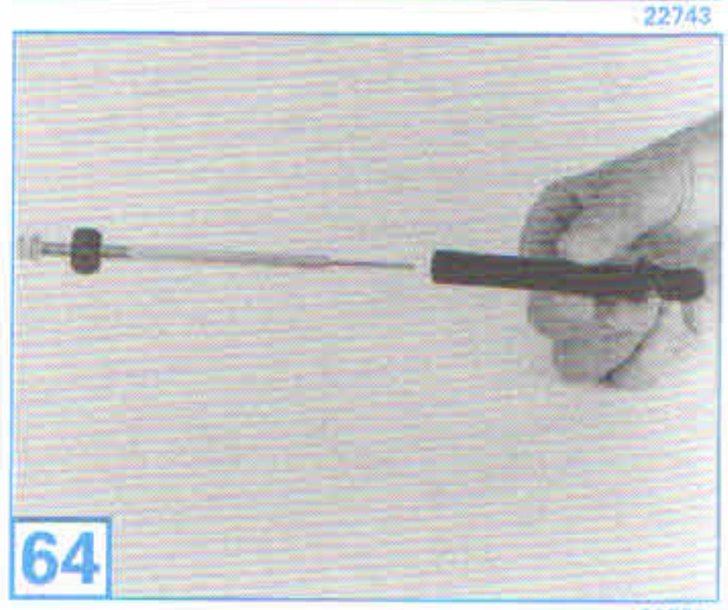
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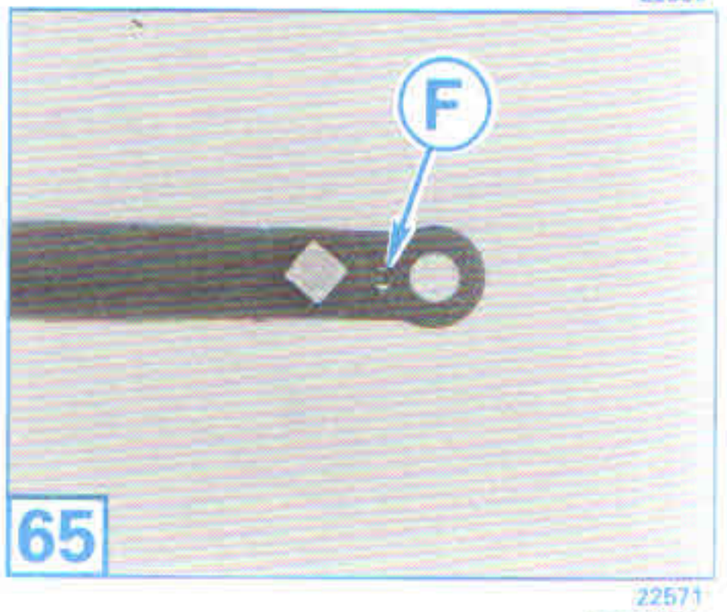

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