

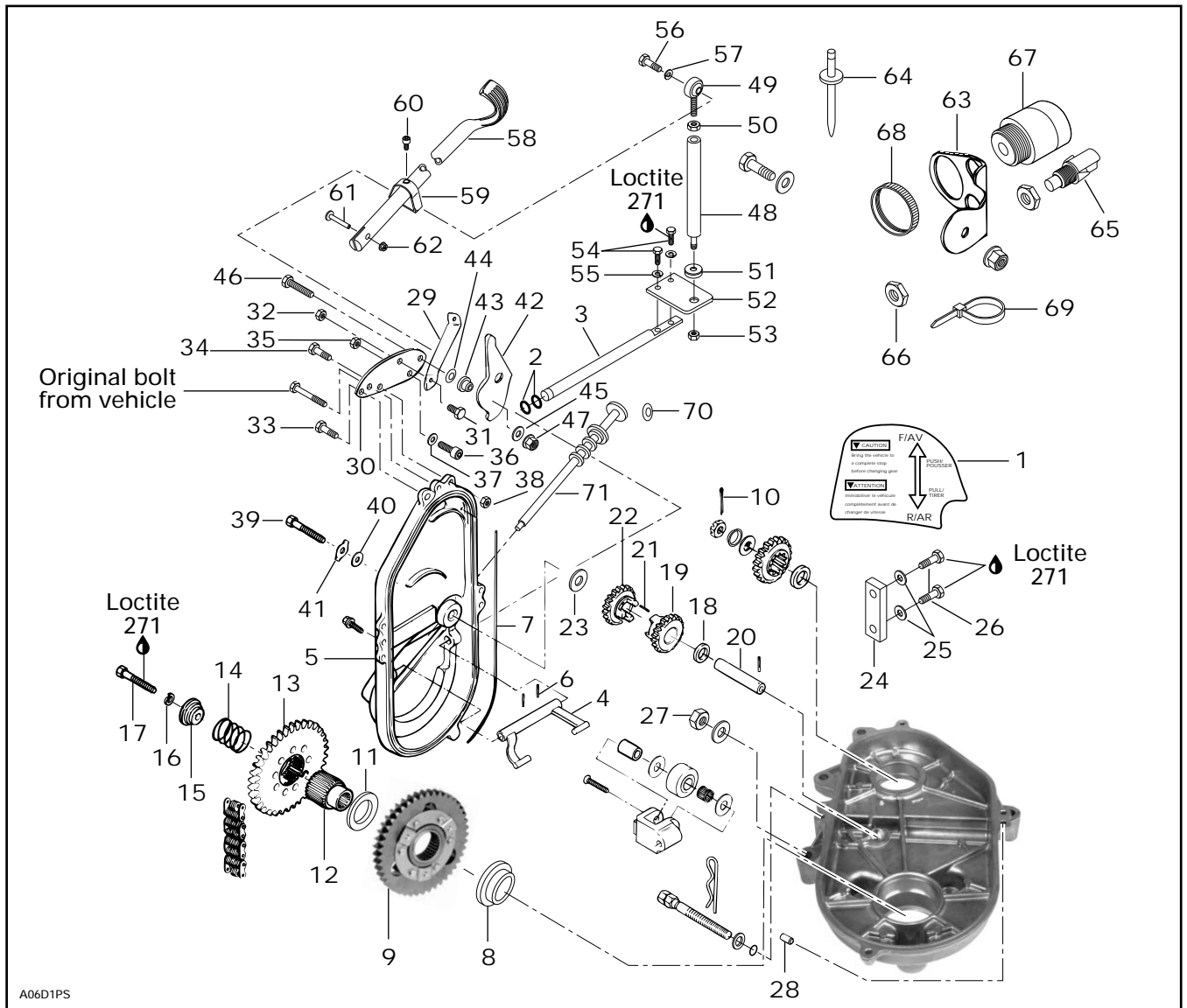


◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier Ski-Doo snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser after modification. This kit is designed for specific applicable models only. It is not recommended for snowmobiles other than those for which it was sold.

NOTE: Installation time is approximately 2.5 hours.

PARTS TO BE INSTALLED



1. Decal

2. O-ring, Viton (2)

3. Shaft
4. Fork
5. Chaincase Cover
6. Spring Pin (2)
7. O-ring
8. Spacer
9. Lower Sprocket Assembly, 44 Tooth
10. Cotter Pin
11. Washer
12. Coupling Shaft
13. Sliding Gear
14. Release Spring
15. Cap
16. Lock Washer M10
17. Hex Bolt M10 X 50
18. Ring
19. Drive Sprocket, 19 Tooth
20. Reverse Shaft Assembly
21. Rubber Alignment Rod
22. Reverse Gear, 19 Tooth
23. Thrust Washer
24. Chain Slider
25. Copper Washer (2)
26. Hex Bolt M6 X 16 (3)
27. Elastic Nut M10
28. Dowel Pin
29. Side Support
30. Pivot Support
31. Self-Tapping Hex Bolt M6 X 16
32. Hex Bolt M6 X 20
33. Elastic Nut M6 (3)
34. Socket Screw M6
35. Washer M6
36. Hex Bolt M8 X 90
37. Copper Washer M8
38. Locking Tab
39. Pivot Plate
40. Bushing
41. O-ring
42. Washer M8
43. Hex Bolt M8 X 35
44. Elastic Nut M8
45. Tie-Rod
46. Ball Joint
47. Tie-Rod Jam Nut M6
48. Rubber Washer
49. Tie-Rod Plate
50. Elastic Nut M5
51. Hex Bolt M5 X 14 (2)
52. Lock Washer M5 (2)
53. Hex Bolt M6 X 20
54. Lock Washer M6
55. Handle
56. Switch Stopper
57. Metal Screw
58. Steel Rivet 3/16
59. Push Nut 3/16
60. Backup Alarm Support
61. Pop Rivet (2)
62. Backup Alarm
63. Backup Alarm Switch
64. Switch Jam Nut
65. Locking Tie
66. O-ring (2)
67. Dipstick

INSTRUCTIONS

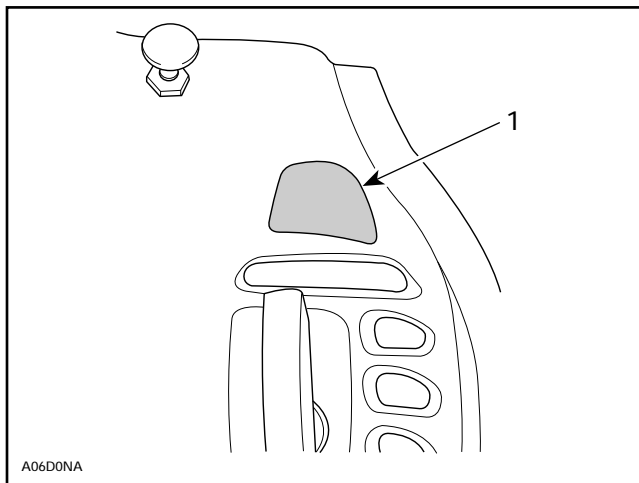

CAUTION

Do not use a 20 tooth or a 24 tooth sprocket in conjunction with the 44 tooth sprocket.

Console Preparation


1. Position template (found on the last page of these instruction sheets) on RH side of the console as illustrated below.

2. Drill a 17.5 mm (11/16 in) hole in the console using template's center lines as a guide.



1. *Template*

- Heat embossed region on the dash using a portable propane torch. Continue to apply heat until the plastic surface of the dash has a shiny appearance, i.e. a wet look.

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|  WARNING |
| <p>Prior to using the propane torch, remove all flammable items that could ignite. Apply heat using extreme caution.</p> |

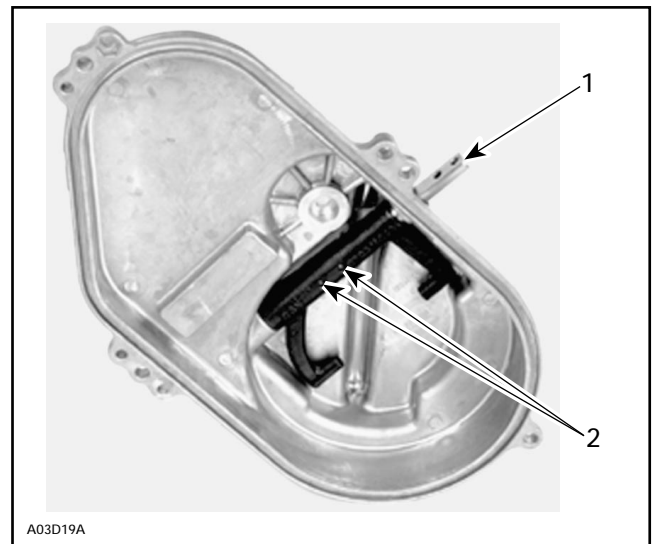
- Apply decal no. 1 on plastic surface.

Chaincase Preparation

- Remove tuned pipes and muffler.
- Remove tension from chain.
- Remove chaincase cover, sprockets and lower spacer.
- Discard lower sprocket, spacer, M10 bolt, lock washer, cap and chaincase cover.

Chaincase Cover

- Install O-rings no. 2 on fork shaft no. 3 and spread multi-purpose grease on it.
- Install the fork no. 4 and the shaft in the new chaincase cover no. 5. Secure with spring pins no. 6. Ensure to position flat surface of shaft lever upwards as illustrated.
- Install O-ring no. 7 in cover.



1. *Position notch toward the top*
2. *Align holes*

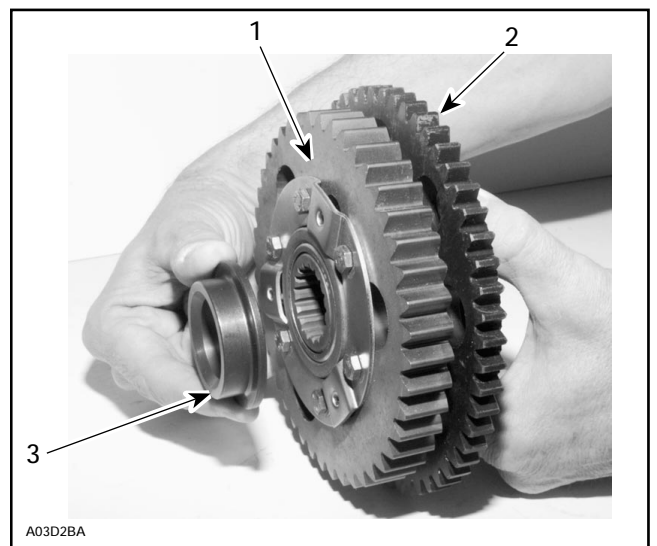
Chaincase

- Remove and discard bolts and copper washers that are located close to the chain tensioner adjustment screw.

NOTE: M10 nut may need to be removed to allow access to the screw.

Finalizing Chaincase Assembly

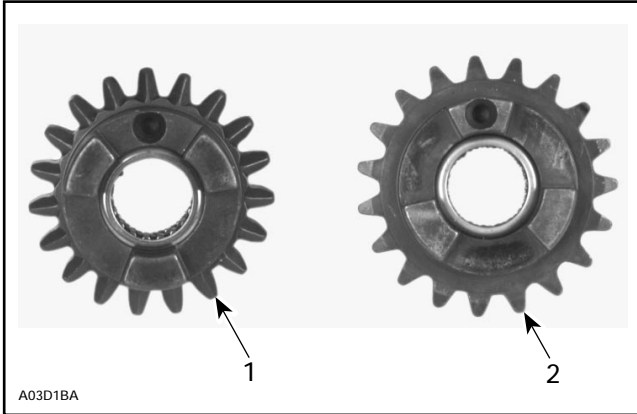
- Install spacer no. 8, see following photo.
- Install the lower sprocket assembly no. 9 over drive axle and properly mesh with chain.



1. *44 tooth gear*
2. *56 tooth gear*
3. *Spacer*

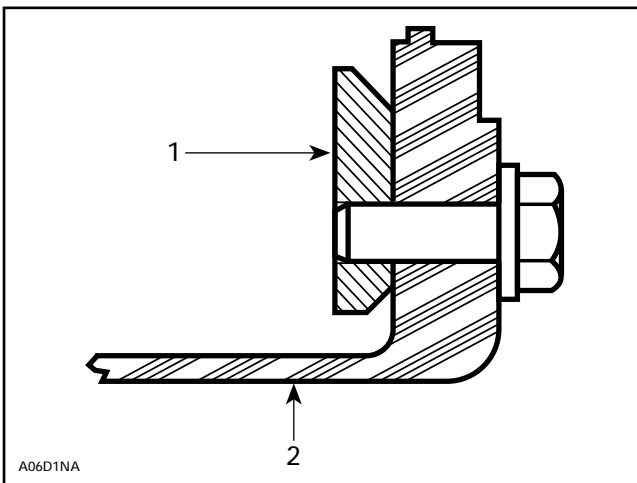
- Install upper sprocket, spacer and castellated nut. Torque nut to 68 N•m (50 lbf•ft). Secure the nut with a new cotter pin no. 10.

4. install washer no. 11, coupling shaft no. 12, sliding gear no. 13, release spring no. 14, cap no. 15, lock washer no. 16 and bolt no. 17. Apply Loctite 242 (blue) on bolt threads. Torque bolt to 48 N•m (35 lbf•ft).
5. On reverse shaft no. 20 install ring no. 18 with drive sprocket no. 19 making sure to properly position spring pin in housing slot. Install rubber alignment rod no. 21 and reverse gear no. 22. Drive sprocket hole and reverse gear hole must be aligned to insert rubber alignment pin. Install thrust washer no. 23.



1. Reverse sprocket (hole between dogs)
2. Drive sprocket (hole on dog)

6. Install chain slider no. 24 and position longitudinal chamfer against chaincase wall. Position copper washer no. 25 against bolt no. 26. Apply Loctite 271 (red) on bolt threads, use sparingly. Torque bolt to 10 N•m (90 lbf•in).



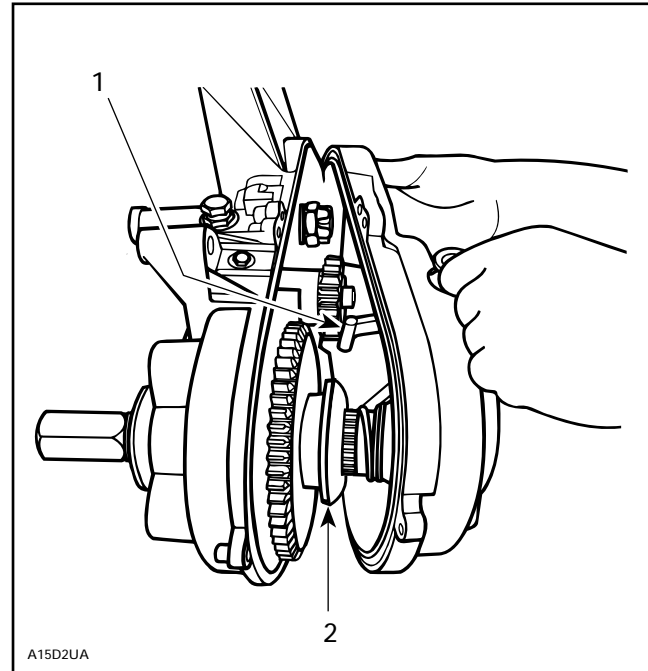
1. Chain slider
2. Chaincase side facing the chassis

7. Install new elastic nut no. 27 and torque to 42 N•m (31 lbf•ft), if removed.
8. Fully tighten chain adjusting screw by hand, then back off only far enough for hair pin to engage in locking hole.

9. Install dowel pin no. 28 and join chaincase cover to chaincase by passing fork tabs behind sliding sprocket lip.

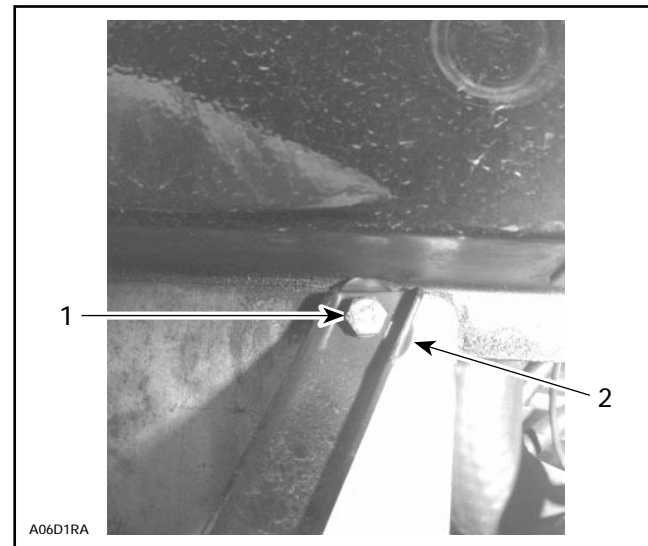
CAUTION

Chaincase cover must completely lay against chaincase.



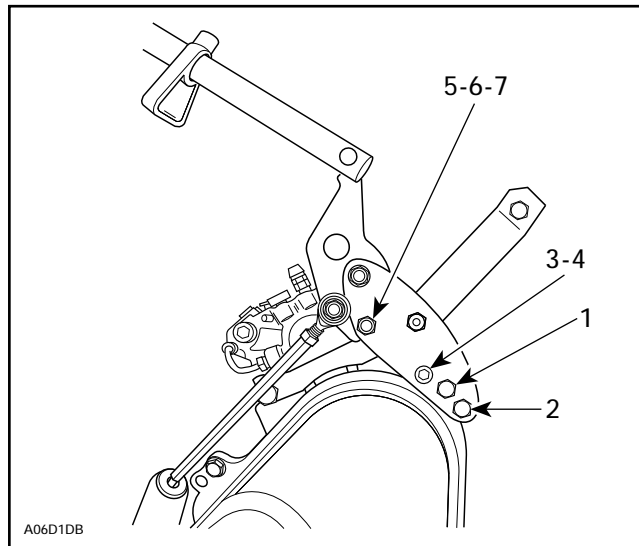
1. Fork tabs
2. Sliding sprocket lip

10. Remove existing bolt from beneath the coolant reservoir discard side support, see photo.



1. Remove bolt

11. Install side support no. 29 on pivot support no. 30 using bolt M6 X 16 no. 26 and elastic nut no. 33. Install socket screw no. 34 with washer no. 35 and elastic nut no. 33 on pivot support.
12. Bolt the side support to oil tank support with original bolt and lock washer.
13. Install pivot support no. 30 on chaincase with original bolt. Install self-tapping bolt M6 X 16 no. 31 and bolt M6 X 20 no. 32 with elastic nut no. 33.

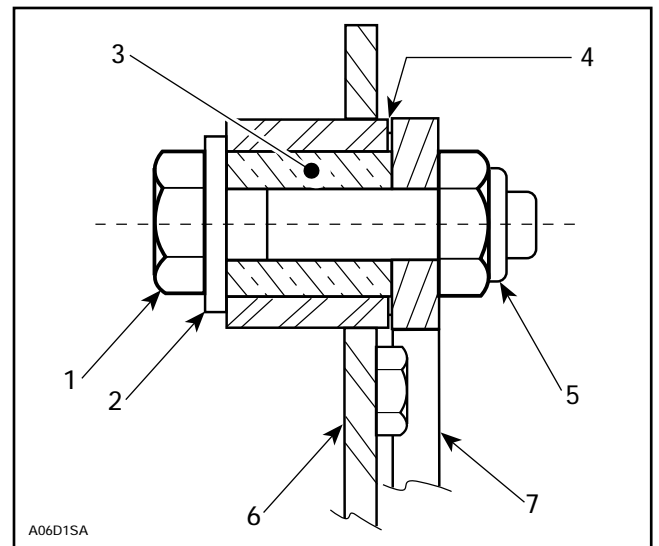


1. Existing bolt
2. Self-tapping bolt M6 x 16
3. Bolt M6 x 20
4. Elastic nut
5. Socket screw
6. Washer
7. Elastic nut

14. Tighten chaincase bolts in a criss-cross sequence beginning with top center. Install reverse shaft bolt no. 36 with copper washer no. 37 against chaincase cover and locking tab no. 38 against bolt head. Position angled end of tab to rear then torque bolt to 15 N•m (133 lbf•in). Bend locking tab against bolt head.

Shifting Linkage Assembly

1. Install pivot plate no. 39 on pivot support with flanged bushing no. 40, O-ring no. 41, washer no. 42, bolt M8 no. 43 and elastic nut M8 no. 44.



1. Hex bolt M8 x 35 no. 43
2. Washer M8 no. 42
3. Bushing no. 40
4. O-ring no. 41
5. Elastic nut M8 no. 44
6. Pivot plate no. 39
7. Pivot support no. 30

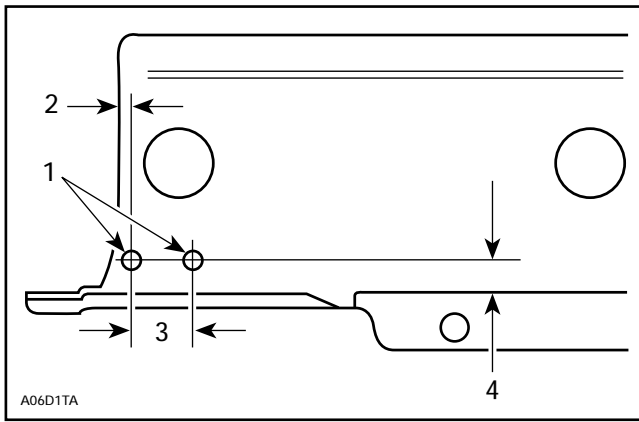
2. Install on one end of the tie-rod no. 45 the ball joint no. 46 with jam nut no. 47, then on the other, install rubber washer no. 48, tie-rod plate no. 49 with its offset towards the rear and secure with elastic nut no. 50. Tighten nut.
3. Secure the plate on shaft no. 3 with bolts no. 51 and lock washers no. 52. Apply Loctite 242 (blue), use sparingly.
4. Install ball joint on swivel plate with bolt no. 53 and lock washer no. 54.

Handle Installation

1. Insert handle no. 55 through hole in console. Slide switch stopper no. 56 over handle then secure with metal screw no. 57. Do not tighten screw yet. Connect handle extremity to pivot plate and secure with steel rivet no. 58 and push nut no. 59.

Backup Alarm Installation

1. Drill two 5.2 mm (7/32 in) holes in oil tank support as illustrated. Holes may already be drilled.



1. Drill here
2. 4 mm (5/32 in)
3. 21 mm (13/16 in)
4. 11 mm (7/16 in)

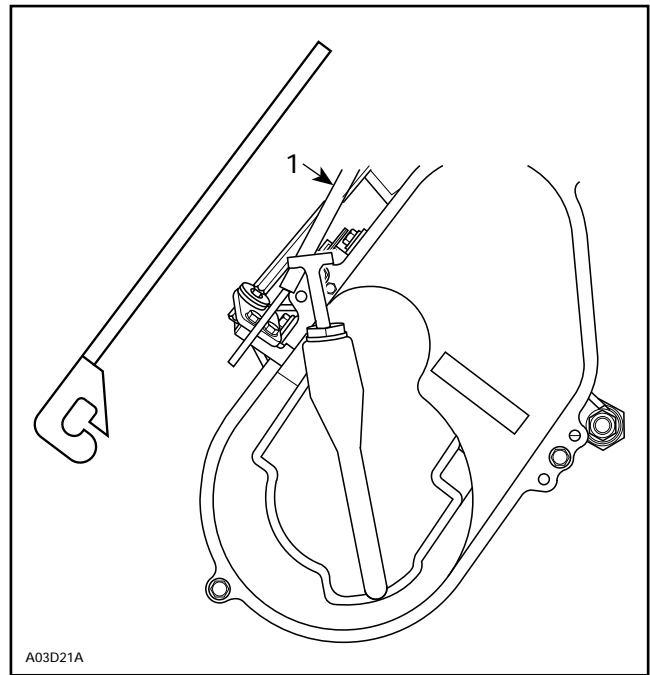
2. Install the backup alarm support no. 60 with the pop rivets no. 61.
3. Install backup alarm switch no. 63 on backup alarm support no. 60 and secure with jam nut no. 64. Install backup alarm no. 62 on same support no. 60 with its remaining device.
4. Connect terminals to alarm, make sure that the RED/BLUE wire is connected to the alarm's negative post. Connect tab connector housing to vehicle harness. Secure wiring harness to support using a locking tie no. 65.

ADJUSTMENTS

1. Check proper fit of handle in console.
2. Shift into reverse gear.

NOTE: If it is impossible to shift into reverse gear, shorten tie-rod and try again. Turn the brake disk to free the gears. If it is still impossible, check if the fork engages in the sliding gear or disassemble to inspect components.

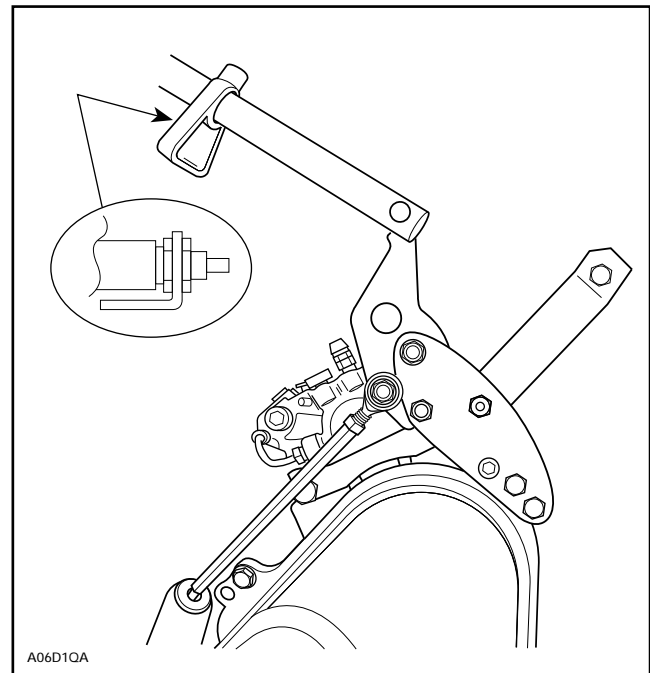
3. Completely slacken tie-rod jam nut no. 47 on the gear shift linkage.
4. Using tool (P/N 529 0303 00) to push and hold down the tie-rod plate to make sure transmission is in reverse gear. Pull shifter handle in reverse position making sure all slack is removed. Lengthen tie-rod until it contacts the rubber washer then add an additional turn.



1. Tool

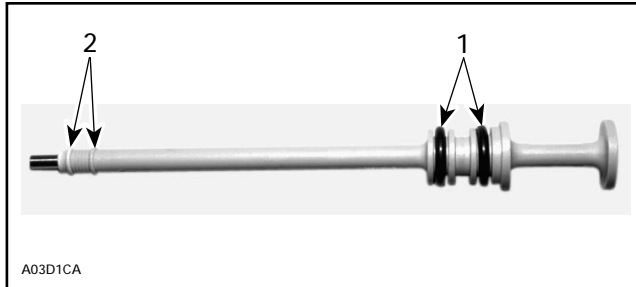
NOTE: It is normal to feel a light friction when shifting into gear.

5. Statically test transmission operation in forward and reverse positions.
6. Hold linkage and tighten tie-rod jam nut no. 47.
7. Adjust backup alarm so that it beeps when transmission is in reverse gear while engine is running.



Filling with oil

1. Fill chaincase with synthetic chaincase oil (P/N 413 8033 00). Oil capacity is approximately 250 mL (8 oz).
2. Apply oil to O-rings **no. 66** then install on the new dipstick **no. 67**.
3. Check oil level with dipstick, oil level must be between the marks.



1. O-rings
2. Oil level marks

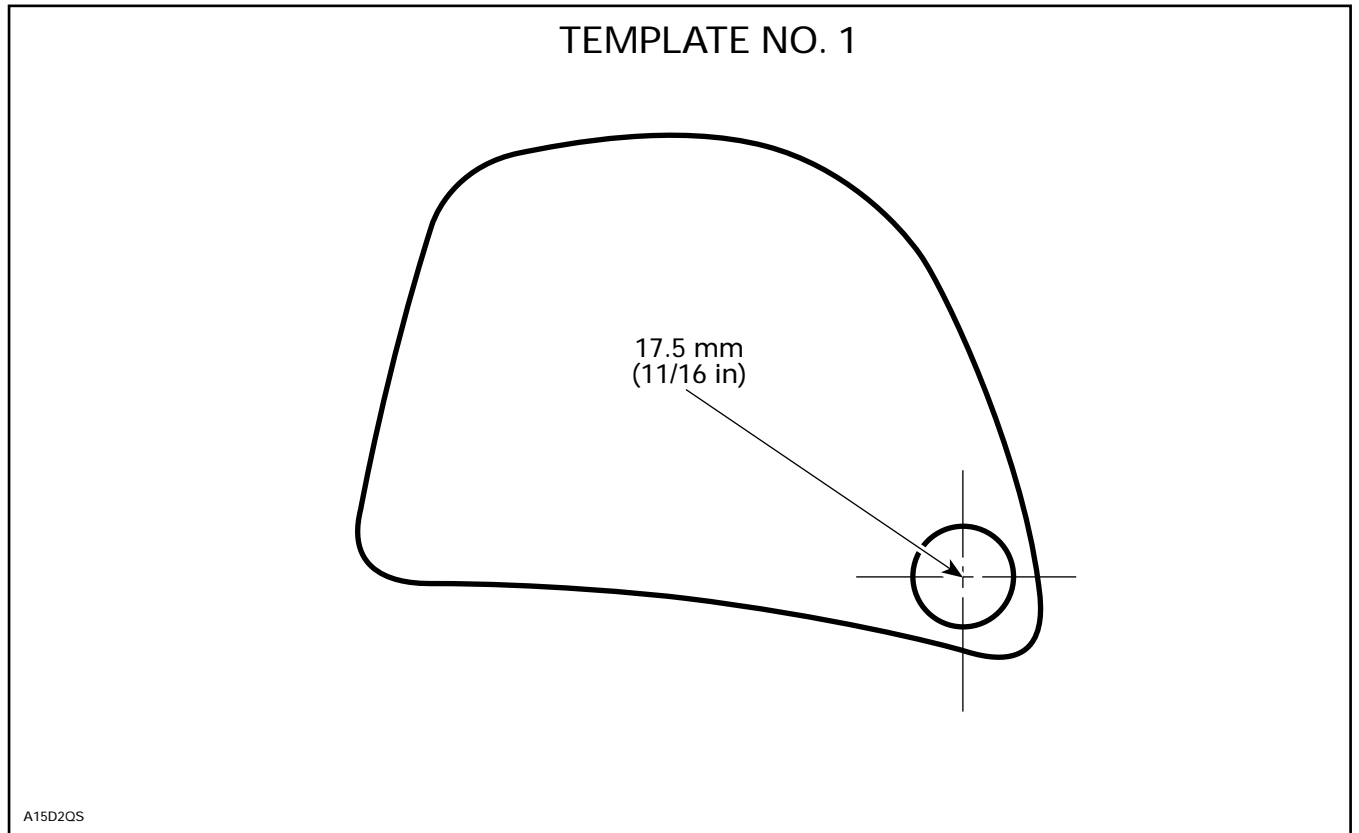


1. Dipstick
4. Reinstall tuned pipes and muffler.
5. Test drive transmission operation.

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TEMPLATE FOR DRILLING SHIFTER ARM HOLE IN CONSOLE

1. Cut template all around.
2. Position and stick template on RH side of console, centered over heated plastic surface. Drill a 17.5 mm (11/16 in) hole in console using template center lines as a guide.



860 4226 00

| | | | |
|-----|-------------|-----------------------------------|--|
| 1. | 414 9622 00 | Decal | Autocollant |
| 2. | 414 7732 00 | O-Ring, Viton (2) | Joint torique en viton (2) |
| 3. | 504 1429 00 | Shaft | Arbre |
| 4. | 504 0758 00 | Fork | Fourchette |
| 5. | 504 0985 00 | Chaincase Cover | Couvercle du carter de chaîne |
| 6. | 414 7725 00 | Spring Pin (2) | Goupille ressort (2) |
| 7. | 414 3623 00 | O-Ring | Joint torique |
| 8. | 504 0763 00 | Spacer | Entretoise |
| 9. | 581 0959 00 | Lower Sprocket Assembly, 44 Tooth | Pignon inférieur complet (44 dents) |
| 10. | 371 8013 00 | Cotter Pin | Goupille fendue |
| 11. | 504 0943 00 | Washer | Rondelle |
| 12. | 504 0977 00 | Coupling shaft | Arbre d'accouplement |
| 13. | 504 0968 00 | Sliding Gear | Pignon coulissant |
| 14. | 504 0992 00 | Release Spring | Ressort de rappel |
| 15. | 504 0991 00 | Cap | Capuchon |
| 16. | 224 7011 88 | Lock Washer M10 | Rondelle-frein M10 |
| 17. | 222 0050 65 | Hex Bolt M10 X 50 | Boulon hexagonal M10 x 50 |
| 18. | 504 0787 00 | Ring | Bague |
| 19. | 581 0982 00 | Drive Sprocket, 19 Tooth | Pignon d'entraînement (19 dents) |
| 20. | 580 5906 00 | Reverse Shaft Assembly | Arbre de marche arrière (complet) |
| 21. | 570 0486 00 | Rubber Alignment Rod | Tige d'alignement de caoutchouc |
| 22. | 581 1222 00 | Reverse Gear, 19 Tooth | Pignon de marche arrière (19 dents) |
| 23. | 504 0773 00 | Thrust Washer | Rondelle de butée |
| 24. | 504 0824 00 | Chain Slider | Coulisseau de chaîne |
| 25. | 732 9000 40 | Copper Washer (2) | Rondelle de cuivre (2) |
| 26. | 222 0616 65 | Hex Bolt M6 X 16 (3) | Boulon hexagonal M6 X 16 (3) |
| 27. | 228 5010 45 | Elastic Nut M10 | Écrou d'arrêt élastique M10 |
| 28. | 732 6200 01 | Dowel Pin | Goupille d'assemblage |
| 29. | 504 0989 00 | Side Support | Support latéral |
| 30. | 504 0986 00 | Pivot Support | Support de pivot |
| 31. | 732 6000 02 | Self-Tapping Hex Bolt M6 X 16 | Boulon hexagonal autotaraudeur M6 X 16 |
| 32. | 222 0620 65 | Hex Bolt M6 X 20 | Boulon hexagonal M6 X 20 |
| 33. | 228 5610 45 | Elastic Nut M6 (3) | Écrou d'arrêt élastique M6 (3) |
| 34. | 222 9616 65 | Socket Screw M6 | Vis à tête creuse M6 |
| 35. | 224 0611 51 | Washer M6 | Rondelle M6 |
| 36. | 222 0890 65 | Hex Bolt M8 X 90 | Boulon hexagonal M8 X 90 |

860 4226 00

| | | | |
|-----|-------------|----------------------|--|
| 37. | 504 0829 00 | Copper Washer M8 | Rondelle de cuivre M8 |
| 38. | 504 0877 00 | Locking Tab | Patte de verrouillage |
| 39. | 504 0990 00 | Pivot Plate | Plaque de pivot |
| 40. | 414 9771 00 | Bushing | Douille |
| 41. | 414 9776 00 | O-Ring | Joint torique |
| 42. | 224 0812 01 | Washer M8 | Rondelle M8 |
| 43. | 222 0835 65 | Hex Bolt M8 X 35 | Boulon hexagonal M8 X 35 |
| 44. | 228 5810 45 | Elastic Nut M8 | Écrou d'arrêt élastique M8 |
| 45. | 504 1430 00 | Tie-Rod | Barre d'accouplement |
| 46. | 414 7734 00 | Ball Joint | Joint à rotule |
| 47. | 228 0610 45 | Tie-Rod Jam Nut M6 | Contre-écrou M6 du joint à rotule |
| 48. | 570 0457 00 | Rubber Washer | Rondelle de caoutchouc |
| 49. | 504 0946 02 | Tie-Rod Plate | Plaque de barre d'accouplement |
| 50. | 228 5510 45 | Elastic Nut M5 | Écrou d'arrêt élastique M5 |
| 51. | 222 0514 65 | Hex Bolt M5 X 14 (2) | Boulon hexagonal M5 X 14 (2) |
| 52. | 224 7510 90 | Lock Washer M5 (2) | Rondelle-frein M5 (2) |
| 53. | 222 0620 65 | Hex Bolt M6 X 20 | Boulon hexagonal M6 X 20 |
| 54. | 224 7611 10 | Lock Washer M6 | Rondelle-frein M6 |
| 55. | 570 0539 00 | Handle | Poignée |
| 56. | 572 0711 00 | Switch Stopper | Butée d'interrupteur |
| 57. | 364 9016 00 | Metal Screw | Vis à tôle |
| 58. | 390 8043 00 | Steel Rivet 3/16 | Rivet d'acier 3/16 |
| 59. | 389 8043 00 | Push Nut 3/16 | Écrou à pression 3/16 |
| 60. | 504 0987 00 | Backup Alarm Support | Support de l'avertisseur de marche arrière |
| 61. | 390 4036 00 | Pop Rivet (2) | Rivet (2) |
| 62. | 414 7921 00 | Backup Alarm | Avertisseur de marche arrière |
| 63. | 515 1626 00 | Backup Alarm Switch | Interrupteur d'avertisseur de marche arrière |
| 64. | 732 6100 75 | Switch Jam Nut | Contre-écrou de l'interrupteur |
| 65. | 414 1152 00 | Locking Tie | Attache |
| 66. | 414 9694 00 | O-Ring (2) | Joint torique (2) |
| 67. | 572 0755 00 | Dipstick | Jauge de niveau d'huile |