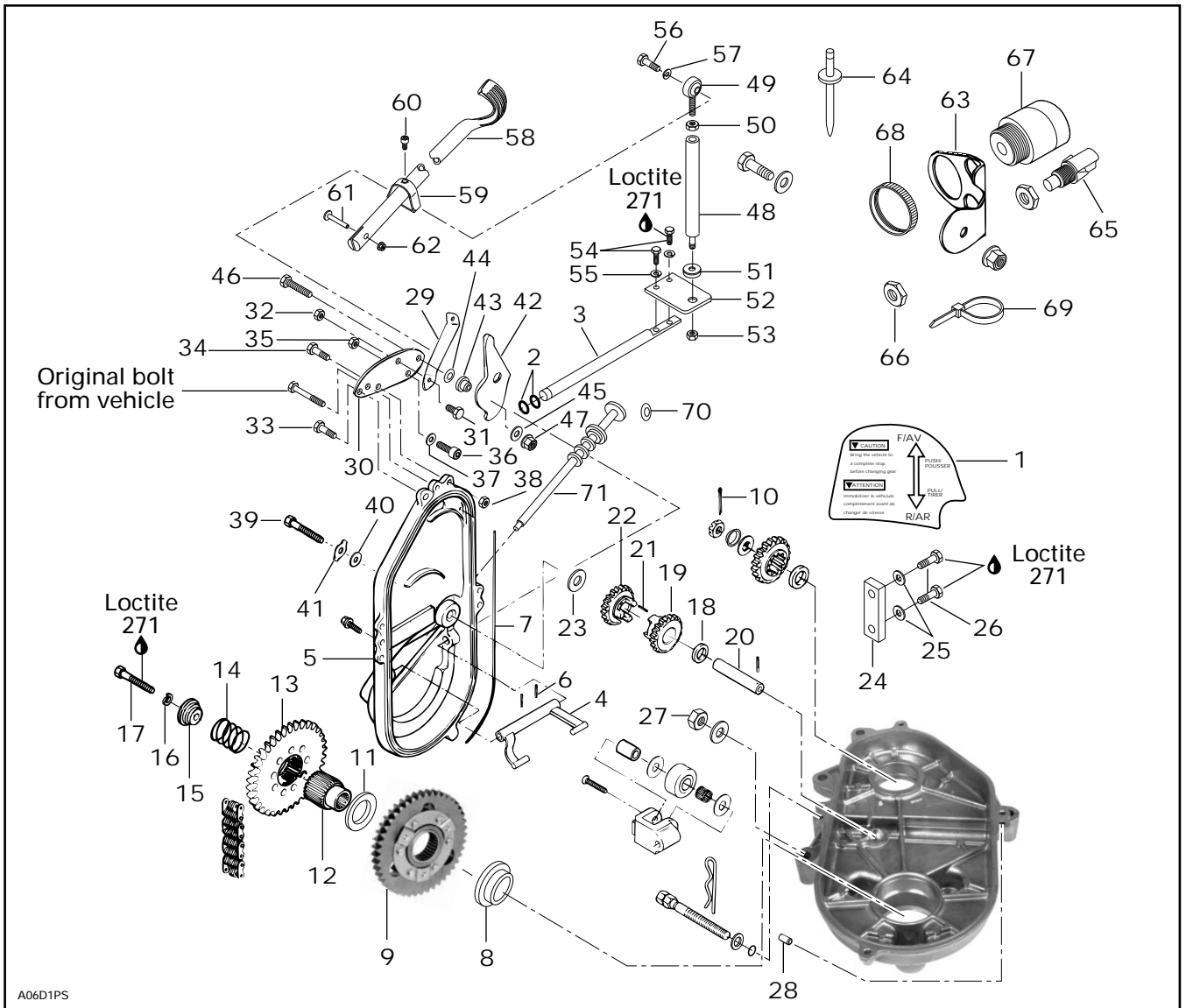




◆ **WARNING :** For safety reasons, this kit must be installed by an authorized Bombardier Ski-Doo snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser after modification. 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

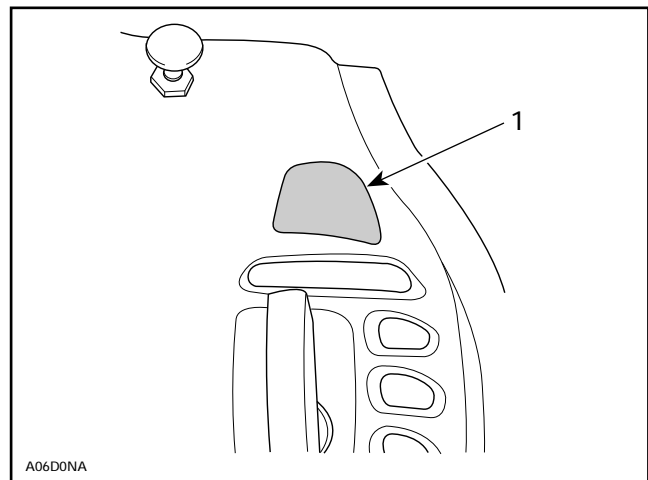
39. Pivot Plate
40. Bushing
41. O-Ring
42. Washer M8
43. Hex Bolt M8 X 35
44. Elastic Nut M8
45. Tie-Rod
46. Ball Joint
47. Tie-Rod Jam Nut M6
48. Rubber Washer
49. Tie-Rod Plate
50. Elastic Nut M5
51. Hex Bolt M5 X 14 (2)
52. Lock Washer M5 (2)
53. Hex Bolt M6 X 20
54. Lock Washer M6
55. Handle
56. 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*

3. 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.

◆ WARNING : Prior to using the propane torch, remove all flammable items that could ignite. Apply heat using extreme caution.

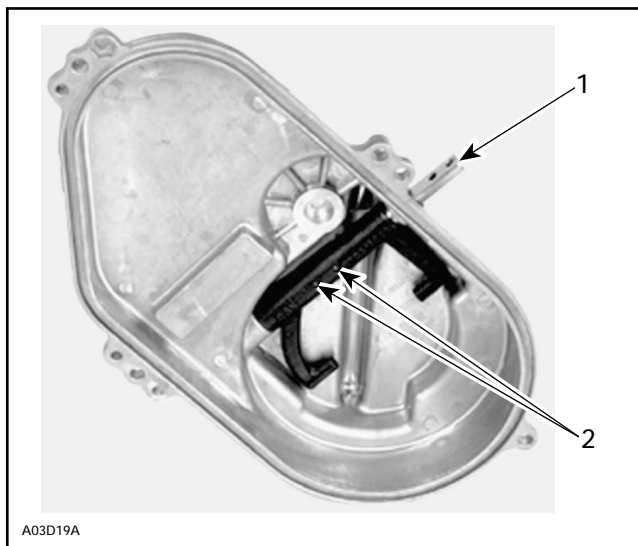
4. Apply decal no. 1 on plastic surface.

Chaincase Preparation

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

Chaincase Cover

1. Install O-rings **no. 2** on fork shaft **no. 3** and spread multi-purpose grease on it.
2. 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.
3. Install O-ring **no. 7** in cover.



1. Position notch toward the top
2. Align holes

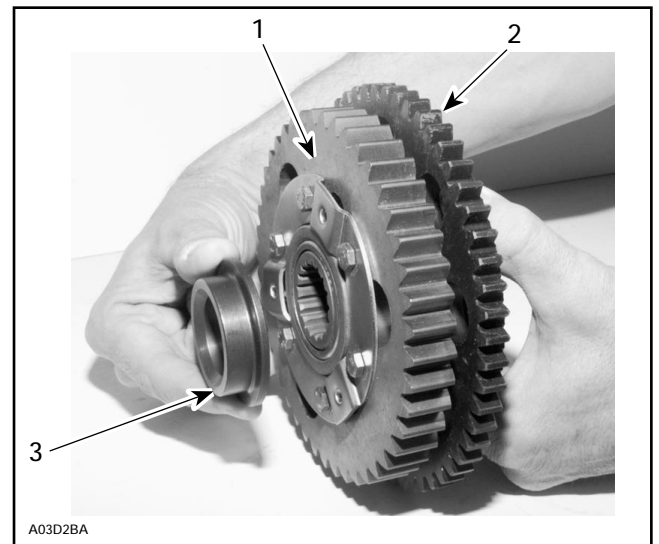
Chaincase

1. 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.

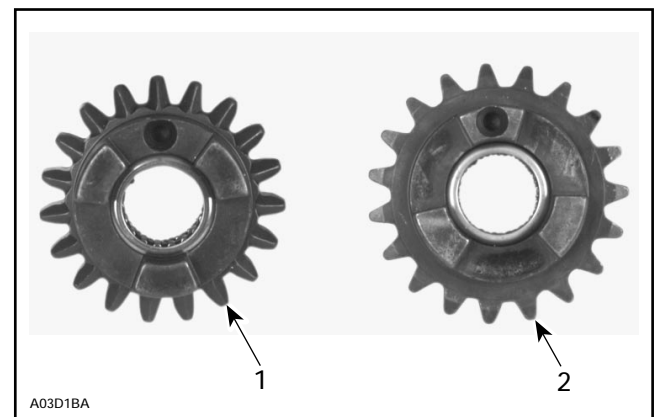
Finalizing Chaincase Assembly

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



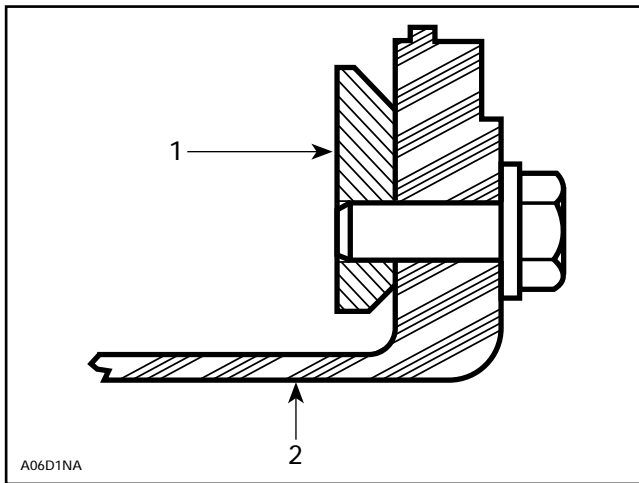
1. 44 tooth gear
2. 56 tooth gear
3. Spacer

3. 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)

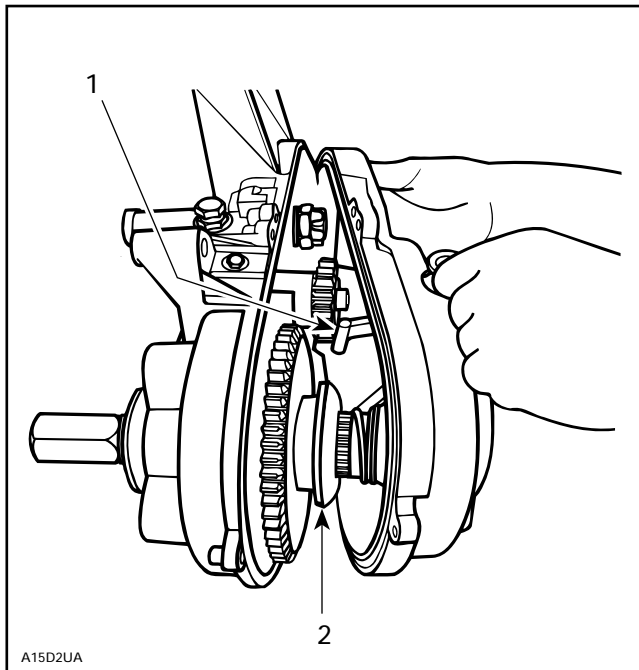
6. Install chain slider no. 24 and position longitudinal chamfer against chaincase wall. Position copper washer no. 25 against bolt no. 26. Apply Loctite 271 (red) on bolt threads, use sparingly. Torque bolt to 10 N•m (90 lbf•ft).



1. Chain slider
2. Chaincase side facing the chassis

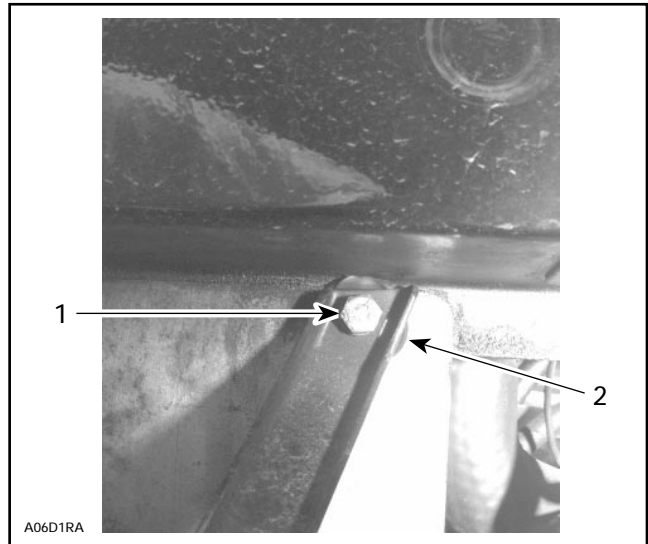
7. Install new elastic nut no. 27 and torque to 42 N•m (31 lbf•ft), if removed.
8. Fully tighten chain adjusting screw by hand, then back off only far enough for hair pin to engage in locking hole.
9. Install dowel pin no. 28 and join chaincase cover to chaincase by passing fork tabs behind sliding sprocket 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.

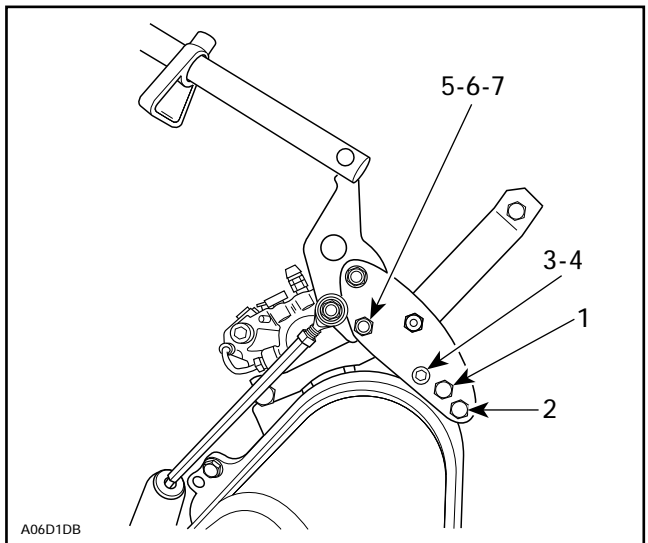


1. Remove bolt

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.

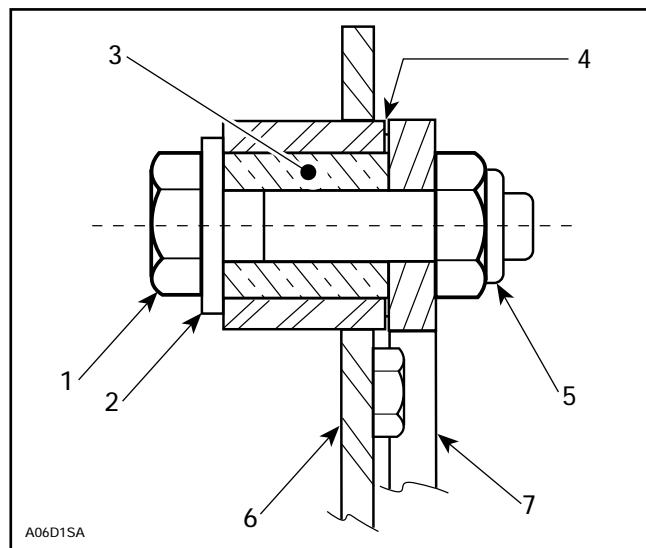


1. Existing bolt
2. Self-tapping bolt M6 x 16
3. Bolt M6 x 20
4. Elastic nut
5. Socket screw
6. Washer
7. Elastic nut

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**

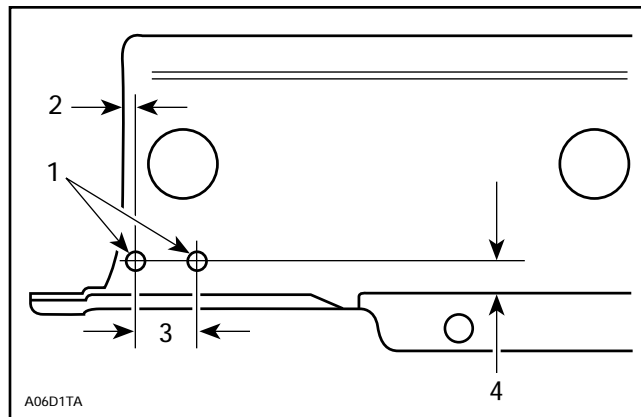
2. Install on one end of the tie-rod **no. 45** the ball joint **no. 46** with jam nut **no. 47**, then on the other, install rubber washer **no. 48**, tie-rod plate **no. 49** with its offset towards the rear and secure with elastic nut **no. 50**. Tighten nut.
3. Secure the plate on shaft **no. 3** 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**.

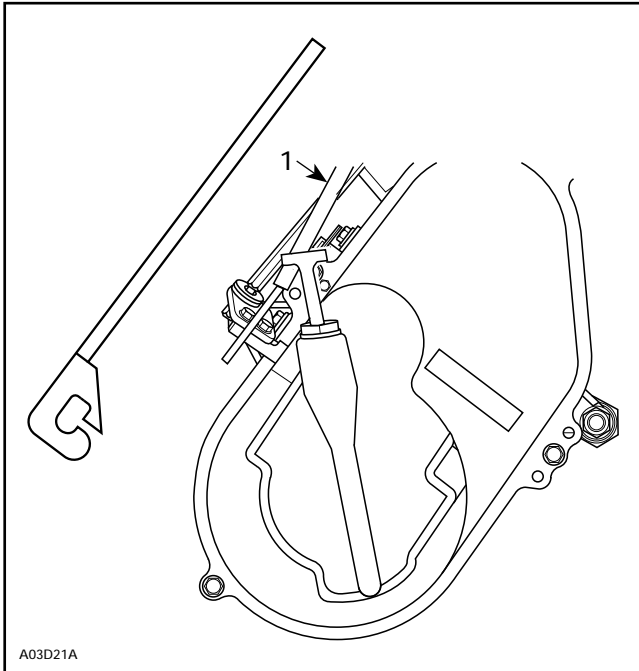
ADJUSTMENTS

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.

- 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.

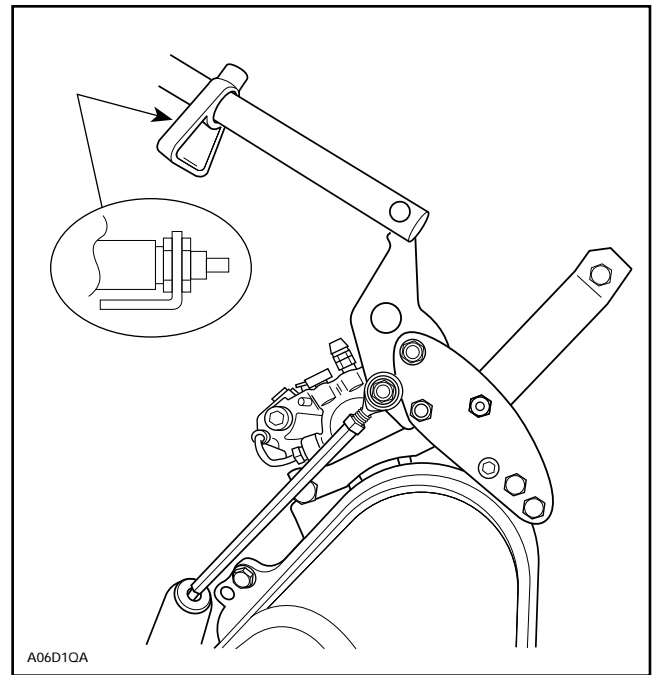


1. Tool



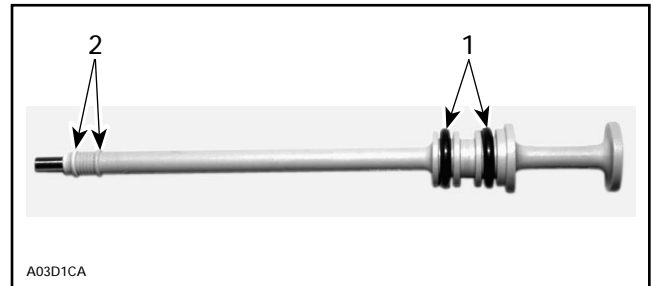
NOTE: It is normal to feel a light friction when shifting into gear.

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

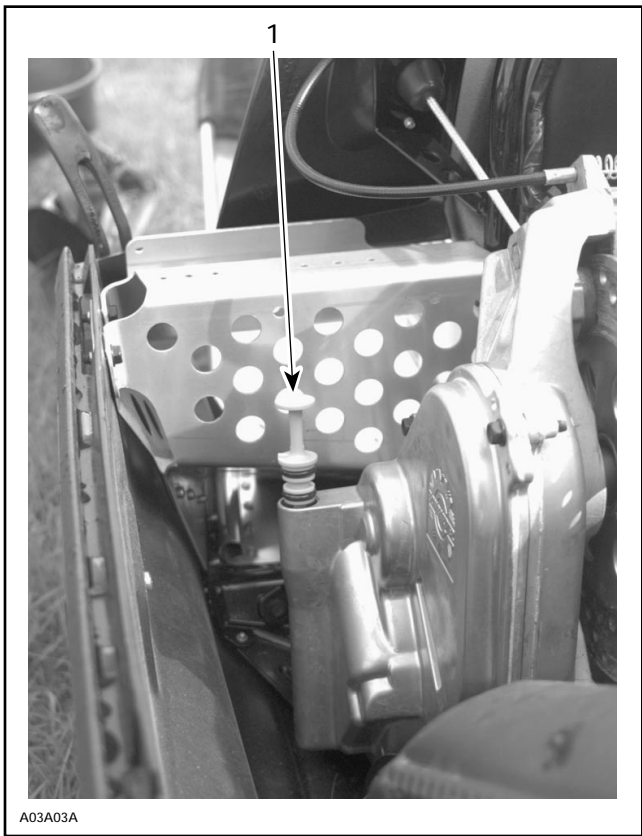


Filling with oil

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



- O-rings
- Oil level marks



1. Dipstick

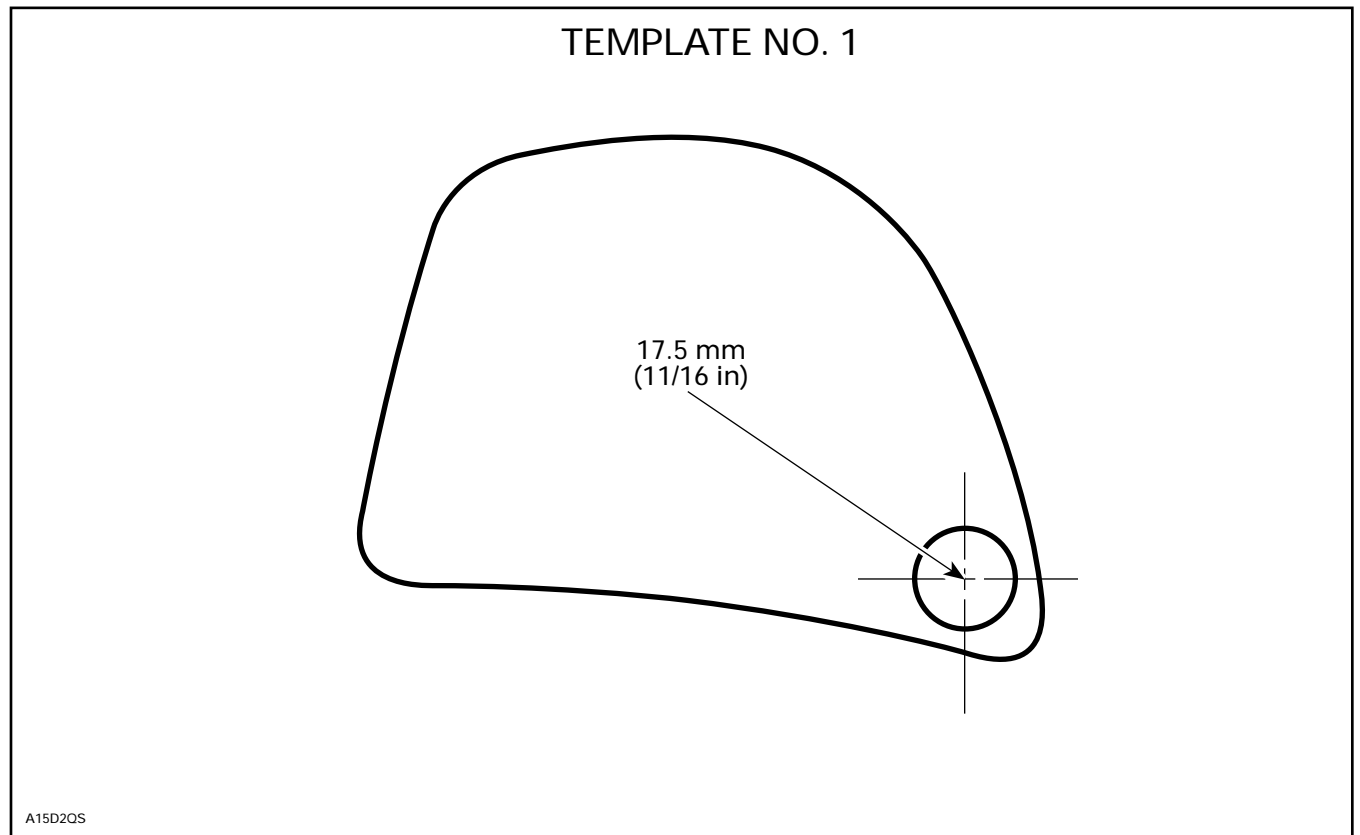
4. Reinstall tuned pipes and muffler.

5. Test drive transmission operation.

THIS PAGE IS PURPOSELY BLANK

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 4225 00

1.	581 0969 00	Drive Sprocket, 19 Tooth	Pignon d'entraînement (19 dents)
2.	580 5906 00	Reverse Shaft Assembly	Arbre de marche arrière (complet)
3.	570 0486 00	Rubber Alignment Rod	Tige d'alignement de caoutchouc
4.	581 1222 00	Reverse Gear, 19 Tooth	Pignon de marche arrière (19 dents)
5.	504 0773 00	Thrust Washer	Rondelle de butée
6.	504 0824 00	Chain Slider	Coulisseau de chaîne
7.	732 9000 40	Copper Washer (2)	Rondelle de cuivre (2)
8.	222 0616 65	Hex Bolt M6 X 16 (3)	Boulon hexagonal M6 X 16 (3)
9.	228 5010 45	Elastic Nut M10	Écrou d'arrêt élastique M10
10.	732 6200 01	Dowel Pin	Goupille d'assemblage
11.	504 0989 00	Side Support	Support latéral
12.	504 0986 00	Pivot Support	Support de pivot
13.	732 6000 02	Self-Tapping Hex Bolt M6 X 16	Boulon hexagonal autotaraudeur M6 X 16
14.	222 0620 65	Hex Bolt M6 X 20	Boulon hexagonal M6 X 20
15.	228 5610 45	Elastic Nut M6 (3)	Écrou d'arrêt élastique M6 (3)
16.	222 9616 65	Socket Screw M6	Vis à tête creuse M6
17.	224 0611 51	Washer M6	Rondelle M6
18.	222 0890 65	Hex Bolt M8 X 90	Boulon hexagonal M8 X 90
19.	504 0829 00	Copper Washer M8	Rondelle de cuivre M8
20.	504 0877 00	Locking Tab	Patte de verrouillage
21.	504 0990 00	Pivot Plate	Plaque de pivot
22.	414 9771 00	Bushing	Douille
23.	414 9776 00	O-Ring	Joint torique
24.	224 0812 01	Washer M8	Rondelle M8
25.	222 0835 65	Hex Bolt M8 X 35	Boulon hexagonal M8 X 35
26.	228 5810 45	Elastic Nut M8	Écrou d'arrêt élastique M8
27.	504 1430 00	Tie-Rod	Barre d'accouplement
28.	414 7734 00	Ball Joint	Joint à rotule
29.	228 0610 45	Tie-Rod Jam Nut M6	Contre-écrou M6 du joint à rotule
30.	570 0457 00	Rubber Washer	Rondelle de caoutchouc
31.	504 0946 02	Tie-Rod Plate	Plaque de barre d'accouplement
32.	228 5510 45	Elastic Nut M5	Écrou d'arrêt élastique M5
33.	222 0514 65	Hex Bolt M5 X 14 (2)	Boulon hexagonal M5 X 14 (2)
34.	224 7510 90	Lock Washer M5 (2)	Rondelle-frein M5 (2)
35.	222 0620 65	Hex Bolt M6 X 20	Boulon hexagonal M6 X 20
36.	224 7611 10	Lock Washer M6	Rondelle-frein M6

860 4225 00

37.	570 0539 00	Handle	Poignée
38.	572 0711 00	Switch Stopper	Butée d'interrupteur
39.	364 9016 00	Metal Screw	Vis à tôle
40.	390 8043 00	Steel Rivet 3/16	Rivet d'acier 3/16
41.	389 8043 00	Push Nut 3/16	Écrou à pression 3/16
42.	504 0987 00	Backup Alarm Support	Support de l'avertisseur de marche arrière
43.	390 4036 00	Pop Rivet (2)	Rivet (2)
44.	414 7921 00	Backup Alarm	Avertisseur de marche arrière
45.	515 1626 00	Backup Alarm Switch	Interrupteur d'avertisseur de marche arrière
46.	732 6100 75	Switch Jam Nut	Contre-écrou de l'interrupteur
47.	414 1152 00	Locking Tie	Attache
48.	414 9694 00	O-Ring (2)	Joint torique (2)
49.	572 0755 00	Dipstick	Jauge de niveau d'huile
50.	581 0969 00	Drive Sprocket, 19 Tooth	Pignon d'entraînement (19 dents)
51.	580 5906 00	Reverse Shaft Assembly	Arbre de marche arrière (complet)
52.	570 0486 00	Rubber Alignment Rod	Tige d'alignement de caoutchouc
53.	581 1222 00	Reverse Gear, 19 Tooth	Pignon de marche arrière (19 dents)
54.	504 0773 00	Thrust Washer	Rondelle de butée
55.	504 0824 00	Chain Slider	Coulisseau de chaîne
56.	732 9000 40	Copper Washer (2)	Rondelle de cuivre (2)
57.	222 0616 65	Hex Bolt M6 X 16 (3)	Boulon hexagonal M6 X 16 (3)
58.	228 5010 45	Elastic Nut M10	Écrou d'arrêt élastique M10
59.	732 6200 01	Dowel Pin	Goupille d'assemblage
60.	504 0989 00	Side Support	Support latéral
61.	504 0986 00	Pivot Support	Support de pivot
62.	732 6000 02	Self-Tapping Hex Bolt M6 X 16	Boulon hexagonal autotaraudeur M6 X 16
63.	222 0620 65	Hex Bolt M6 X 20	Boulon hexagonal M6 X 20
64.	228 5610 45	Elastic Nut M6 (3)	Écrou d'arrêt élastique M6 (3)
65.	222 9616 65	Socket Screw M6	Vis à tête creuse M6
66.	224 0611 51	Washer M6	Rondelle M6
67.	222 0890 65	Hex Bolt M8 X 90	Boulon hexagonal M8 X 90