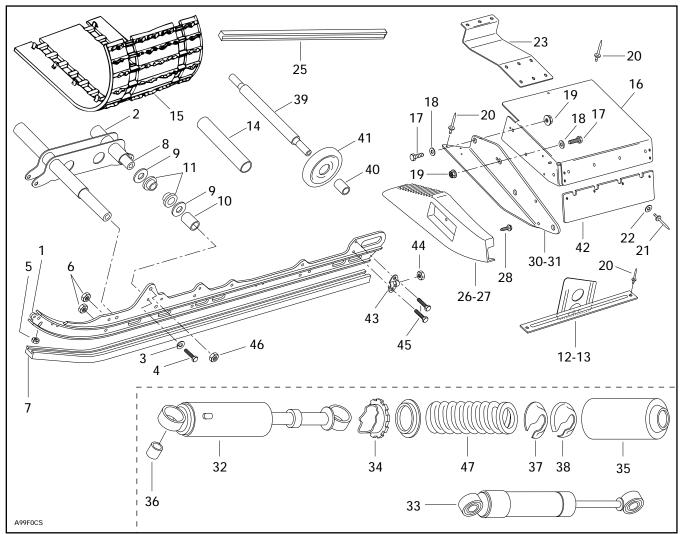
LONG TRACK KIT (HIGH PROFILE, 1.45") (SC-10, CC / HP) (P / N 861 7545 00)

WARNING: For safety reasons, this kit must 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 4.0 hours.

CAUTION: This kit is designed for deep snow application only. It is not recommended for vehicles other than those for which it was sold.

## PARTS TO BE INSTALLED



- 1. Runner (2)
- 2. Welded Shock Support
- 3. Lock Washer (4)
- 4. Bolt M10 (4)
- 5. Elastic Nut M6 (8)
- 6. Elastic Nut M8 (8)
- 7. Runner Shoe (2)
- 8. Lower Axle (2)
- 9. Washer (8)
- 10. Spacer (4)
- 11. Cushion (8)
- 12. Suspension Mounting Bracket (Left)
- 13. Suspension Mounting Bracket (Right)
- 14. Spacer
- 15. Track (15" x 136" x 1.45")
- 16. Tunnel Extension
- 17. Bolt M8 (4)
- 18. Flat Washer M8 (4)
- 19. Flanged Elastic Nut M8 (4)
- 20. Pop Rivet (Gloss Black) (61)
- 21. Pop Rivet (4)
- 22. Flat Washer (4)
- 23. Extension Protector
- 24. Extension Decal (Not Illustrated)

- 25. Radiator Protector (2)
- 26. Moulding (Right)
- 27. Moulding (Left)
- 28. Self-Tapping Screw (6)
- 29. Warning Label (Not Illustrated)
- 30. Reinforcement Plate (Left)
- 31. Reinforcement Plate (Right)
- 32. Shock Absorber (Front)
- 33. Shock Absorber (Rear)
- 34. Cam
- 35. Protector
- 36. Lower Bushing
- 37. Cap
- 38. Spring Stopper
- 39. Upper Axle
- 40. Spacer (2)
- 41. Idler Wheel (2)
- 42. Snow Guard Reinforcement
- 43. Tensioner (2)
- 44. Nut M10 (2)
- 45. Bolt M6 x 20 (4)
- 46. Nut M12
- 47. Spring

### VEHICLE PREPARATION

# Tunnel and Body

**NOTE**: If additional information is required, refer to Ski-Doo Shop Manual for proper removal / installation procedures. The following procedure gives instructions for one side of the vehicle. Assure to remove burrs after drilling. Proper torquing specs are given in the Ski-Doo Shop Manual.

CAUTION: Apply Loctite 242 (P / N 413) 7030 00) on fasteners when reassembling and tighten with proper torques.

Raise rear of vehicle and block safely.

Remove rear suspension, track, seat and rear mouldings.

Lower vehicle and support it safely. Remove rear bumper and snow guard.

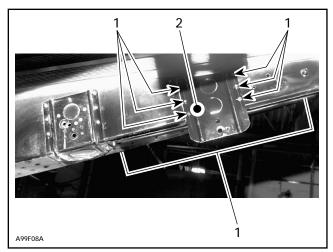
Discard track, rear mouldings and screws.

Remove reflectors and screws, DO NOT DIS-CARD, they will be reused.

Grind the rivets on the rear cap (side opposite of head). Using an appropriate punch, push out the ground rivets retaining rear cap then remove from tunnel. Use a 5 mm (3/16 in) cobalt drill bit for tight areas (P / N 414 9614 00).

Grind rivets that are retaining the suspension mounting brackets (left and right) then remove brackets from vehicle.

NOTE: Always place a backing plate surrounding the rivet head prior to punching out rivet. Omitting to do so may damage the aluminum area surrounding the rivet hole.



- Grind these rivets
- Suspension mounting bracket

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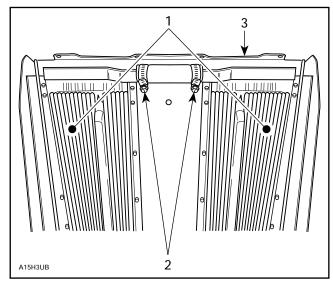
### **PROCEDURE**

CAUTION: Depressurize cooling system before loosening gear clamp screws.

From underneath tunnel, ensure that the gear clamp screw heads securing the hose between the radiators are pointing toward the front of vehicle. Reposition as necessary. To avoid disconnecting hose, unscrew collar completely, remove and rotate. Reinstall and tighten firmly.

Install radiator protectors no. 25.

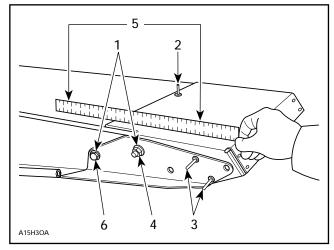
Close radiator ends using pliars.



- Radiators
- Screw heads must be facing toward front
- 3. Bend flap straight back

Position top part of tunnel extension no. 16 over tunnel and side parts inside tunnel. Position reinforcement plates no. 30 and no. 31 on outer side of tunnel. Secure with bolts no. 17, flat washers no. 18 and flanged elastic nuts no. 19. Pass bolts through extension, tunnel and plates. Ensure to place bolt head and nut as per illustration. Temporarily insert rivets no. 20 into rear holes for proper alignment. Tighten bolts.

Using the front center hole of the extension as a guide, drill a 5 mm (3/16 in) hole in the tunnel.



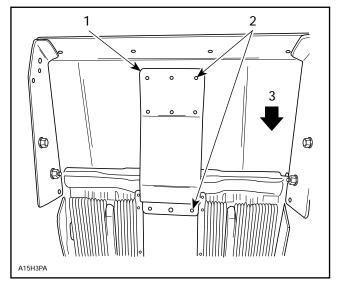
- M8 bolts, washers and nuts Insert a first rivet here
- Temporary rivets for alignment purposes only
- Nut on this side
- Parallel
- 6 Bolt head on this side.

NOTE: Using a 5 mm (3/16 in) drill bit, enlarge the front / center hole on the extension protector no. 23.

From underneath tunnel, install extension protector no. 23. From top of tunnel, insert a rivet no. 20 in FRONT CENTER hole of extension. Center protector from left to right, then retain rear of protector on tunnel extension with a C-clamp. Secure front rivet no. 20 and drill other holes with a 5 mm (3/16 in) drill bit.

Using a straight edge, ensure that extension is parallel with tunnel on each side. Reposition parts as necessary.

Using protector holes as a guide, drill rear holes in tunnel. Install rivets no. 20.



- Extension protector
- Use these holes as a drilling guide

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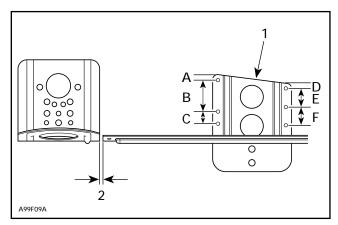
Do not drill holes in rear corners of extension yet. DO NOT drill side rear holes of tunnel.

Rivet rear part of protector and extension using rivets no. 20 to tunnel in the following sequence:

- Top front of extension.
- Drill rear corners of extension and rivet.

Remove C-clamp.

Install new suspension mounting brackets no. 12 and no. 13. Drill holes using a 5 mm (3/16 in) bit. Secure with rivets no. 20. Refer to following illustration for proper drilling and positioning.

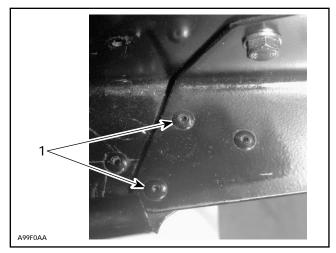


#### RIGHT SIDE VIEW (INSIDE TUNNEL)

- Suspension bracket
- Measure this distance 6 mm (1/4 in)

- 10 mm (25/64 in) 50 mm (2 in) 30 mm (1-3/16 in)
- D. 10 mm (25/64 in)
- 30 mm (1-3/16 in) 30 mm (1-3/16 in)

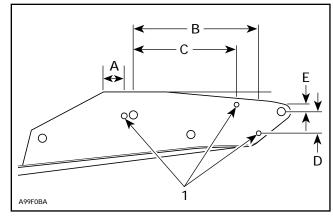
Using reinforcement plates as a guide, drill 2 holes in footboard. Secure using rivets no. 20.



TOP VIEW (LEFT SIDE)

1. Install rivets here (2 on each side)

Drill three 6 mm (15/64 in) holes close to the rear plate on the reinforcement plates. This is required for rear moulding attachment.



- Drill here
- 12 mm (31/64 in)
- A. 12 HIII (37/64 III) B. 160 mm (6-1/4in) C. 132 mm (5-3/16 in) D. 27 mm (1-5/64 in) E. 9 mm (23/64 in)

Reinstall rear bumper using existing fasteners.

Reuse reflectors and screws. Install new rear mouldings no. 26 and no. 27 using new selftapping screws no. 28.

Round front exterior corner of mouldings.

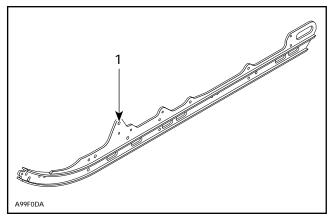
Install new track no. 15 paying close attention to the direction of rotation.

Refill chaincase with Bombardier synthetic chaincase oil (P / N 413 8028 00).

### Rear Suspension

NOTE: For easier installation, the following procedure is basically a parts swap from the old rear suspension to the new.

Enlarge existing front suspension arm hole on new runners to 12 mm (31/64 in). Refer to illustration.



1. Enlarge hole to 12 mm (31/64 in)

Install new runner shoes no. 7 onto new runners no. 1 using existing bolts and new M6 nuts no. 5.

Remove rubber stoppers and push nuts (remove bolts and nuts if equipped) from old runners (front and rear).

Install rubber stoppers onto new runners. Reuse bolts and nuts.

Remove bolts from front axle.

Remove runner protectors from front of old runners.

Install runner protectors onto new runners using same hardware.

Remove bolts from rear axle of old runners.

Remove wheels, spacers and washers.

Remove M10 adjustment bolts from tensioners on old runners.

Install new M10 elastic nut no. 44 onto bolt (1 on each side)

Install M10 bolt into new tensioners no. 43.

Install tensioners onto runners using new elastic nuts **no**. 5 and new M6 x 20 bolts **no**. 45.

Install wheels, spacers and washers onto new runners. Apply Loctite 271 (red) on bolt threads.

Remove 2 coloured wheels from front.

Complete the following assembly:

Install spacer no. 14 on axle no. 8. Install washers no. 9 (1 on each side of spacer).

Install cushions **no**. **11** into coloured wheels (2 for each wheel).

Install wheels onto axle, install washers no. 9 then spacers no. 10 (1 on each side).

Install wheel assembly on new runners.

Locate hole in front of rear stoppers. Align wheel assembly with hole (1 on each side).

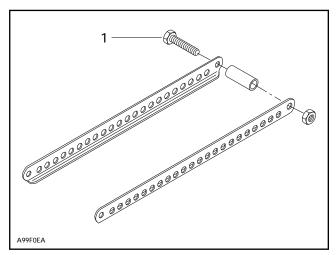
Secure using new bolts **no**. **4** and lock washers **no**. **3**. Apply Loctite 271 (red).

Remove front wheels and wheel supports from old runners and install wheel supports on new runners using new M8 nuts no. 6. Install lower bolt only and tighten. Do not install wheels yet.

Remove bolts that are retaining the spring supports. Install on new runners temporarily.

Remove M10 nut from threaded shaft on pivot block (lower part).

Remove bolt from retaining bars. Refer to illustration.



1. Remove bolt

Remove rear shock absorber. KEEP upper bushing.

Remove pivot block (2 Allen bolts).

CAUTION: Do not install Acceleration Control Module onto long track suspension.

Remove rear welded pivot arm assembly and install on new runner using new M8 nut **no**. **6** then tighten.

Install lower axle **no**. **8** into shock support **no**. **2**. Install washers **no**. **9** (1 on each side).

Remove interior uncoloured idler wheels.

Install cushions no. 11 into uncoloured idler wheels, washers no. 9 then spacers no. 10 (1 on each side).

Install welded shock support assembly **no. 2** using existing hardware on front then secure with new M10 bolts **no. 4** and lock washers **no. 3** on rear. Do NOT tighten yet.

NOTE: Apply Loctite 271 (red) on bolt threads when instructed to tighten bolts at end of instruction sheet.

Install new rear shock **no. 33** using existing bushing, bolt and new M8 elastic nut **no. 6** onto shock support (assure shock body is at bottom).

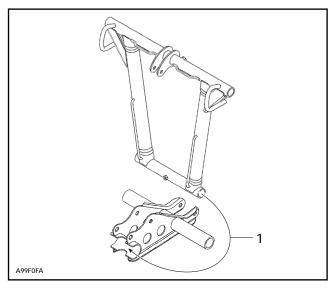
Remove spring supports (from new runners) that were installed temporarily. Install spring into spring support then lift spring support and secure with existing bolts and new M6 elastic nuts **no.** 5.

Secure top part of shock using existing bushing, bolt and new M8 elastic nut **no. 6**.

Remove front shock. Keep upper bushing.

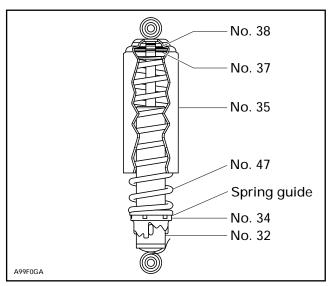
Remove front axle and welded front arm assembly. Seperate lower support from welded front arm assembly. Refer to following illustration.

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1. Seperate here

Transfer welded front arm onto new runners using existing bolt, washers and new M12 elastic nut no. 46. Apply Loctite 271 (red) to bolt threads. Assemble front shock absorber assembly as follows, refer to illustration:



Step 1 : Install cam no. 34 onto shock absorber no. 32, then existing spring guide.

Step 2 : Install spring no. 47 (refer to Ski-Doo Shop Manual for proper procedure for spring compression).

Step 3 : Using spring compressor, install cap no. 37 then spring stopper no. 38.

Step 4 : Install protector no. 35.

Install front shock assembly using same bolts, top bushing, new lower bushing no. 36 and new elastic nuts no. 6.

Tighten complete suspension system.

Install coloured front wheels that were previously removed.

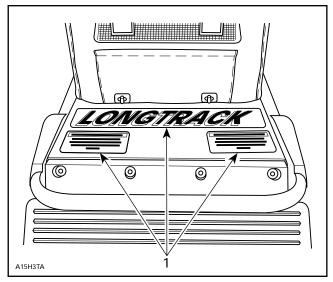
REMINDER: Apply Loctite 271 (red) on lower front shock support bolts.

Install rear suspension in tunnel. Pay attention to secure rear suspension attachment in LOWEST hole.

Install wheels no. 41 and spacers no. 40 onto axle no. 39.

Install into tunnel using existing hardware. Apply Loctite 271 (red) to bolt threads.

Apply (LONGTRACK) extension decal no. 24 and warning label no. 29 on top of tunnel extension.



1. Decals

Install snow guard reinforcement no. 42 and snow quard with new rivets no. 21 and flat washers no. 22.

Reinstall seat.

Perform chain tension adjustment as well as track tension and alignment.

Test snowmobile.

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# 861 7545 00

| 1.  | 503 1667 00 | Runner (2)                          | Porte-glissière (2)                            |
|-----|-------------|-------------------------------------|--|
| 2.  | 503 1521 00 | Welded Shock Support                | Support d'amortisseur soudé                    |
| 3.  | 224 7011 88 | Lock Washer (4)                     | Rondelle-frein (4)                             |
| 4.  | 222 0035 65 | Bolt M10 (4)                        | Boulon M10 (4)                                 |
| 5.  | 228 5610 45 | Elastic Nut M6 (8)                  | Écrou d'arrêt élastique M6 (8)                 |
| 6.  | 228 5810 45 | Elastic Nut M8 (8)                  | Écrou d'arrêt élastique M8 (8)                 |
| 7.  | 560 1023 00 | Runner Shoe (2)                     | Glissière (2)                                  |
| 8.  | 503 1528 00 | Lower Axle (2)                      | Essieu inférieur (2)                           |
| 9.  | 503 1540 00 | Washer (8)                          | Rondelle (8)                                   |
| 10. | 503 1510 00 | Spacer (4)                          | Entretoise (4)                                 |
| 11. | 414 8884 00 | Cushion (8)                         | Coussin (8)                                    |
| 12. | 518 3152 05 | Suspension Mounting Bracket (Left)  | Support de fixation de la suspension (gauche)  |
| 13. | 518 3152 06 | Suspension Mounting Bracket (Right) | Support de fixation de la suspension (droit)   |
| 14. | 503 1531 00 | Spacer                              | Entretoise                                     |
| 15. | 570 2086 00 | Track (15" X 136" X 1.45")          | Chenille (15" x 136" x 1.45")                  |
| 16. | 503 1571 00 | Tunnel Extension                    | Rallonge de tunnel                             |
| 17. | 222 0820 65 | Bolt M8 (4)                         | Boulon M8 (4)                                  |
| 18. | 224 0811 71 | Flat Washer M8 (4)                  | Rondelle plate M8 (4)                          |
| 19. | 228 7810 45 | Flanged Elastic Nut M8 (4)          | Écrou d'arrêt élastique à épaulement<br>M8 (4) |
| 20. | 390 4036 00 | Pop Rivet (Gloss Black) (61)        | Rivet (noir lustré) (61)                       |
| 21. | 390 9096 00 | Pop Rivet (4)                       | Rivet (4)                                      |
| 22. | 517 2259 00 | Flat Washer (4)                     | Rondelle plate (4)                             |
| 23. | 503 1570 00 | Extension Protector                 | Protecteur de rallonge                         |
| 24. | 414 9365 00 | Extension Decal (Not Illustrated)   | Autocollant de rallonge (non illustré)         |
| 25. | 415 0123 00 | Radiator Protector (2)              | Protecteur de radiateur (2)                    |
| 26. | 572 0495 00 | Moulding (Right)                    | Enjoliveur droit                               |
| 27. | 572 0494 00 | Moulding (Left)                     | Enjoliveur gauche                              |
| 28. | 365 0110 00 | Self-Tapping Screw (6)              | Vis à tôle autotaraudeuse (6)                  |
| 29. | 414 9366 00 | Warning Label<br>(Not Illustrated)  | Étiquette d'avertissement (non illustrée)      |
| 30. | 518 3119 00 | Reinforcement Plate (Left)          | Plaque de renfort gauche                       |
| 31. | 518 3120 00 | Reinforcement Plate (Right)         | Plaque de renfort droite                       |
| 32. | 414 9757 00 | Shock Absorber (Front)              | Amortisseur avant                              |
| 33. | 414 9759 00 | Shock Absorber (Rear)               | Amortisseur arrière                            |
| 34. | 503 1690 00 | Cam                                 | Came   |
| 35. | 517 2809 00 | Protector                           | Protecteur                                     |
| 36. | 414 8026 00 | Lower Bushing                       | Coussinet inférieur                            |
| 37. | 503 1416 00 | Cap                                 | Capuchon                                       |
| 38. | 503 1406 00 | Spring Stopper                      | Butée de ressort                               |
| 39. | 503 1536 00 | Upper Axle                          | Essieu supérieur                               |
| 40. | 572 0483 00 | Spacer (2)                          | Entretoise (2)                                 |
| 41. | 572 0435 00 | Idler Wheel (2)                     | Roue de support (2)                            |
| 42. | 517 2852 00 | Snow Guard Reinforcement            | Renfort de garde-neige                         |
| 43. | 503 1553 00 | Tensioner (2)                       | Tendeur (2)                                    |
| 44. | 228 5010 45 | Nut M10 (2)                         | Écrou M10 (2)                                  |

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| 45. | 222 0620 65 | Bolt M6 X 20 (4) | Boulon M6 x 20 (4) |
|-----|-------------|------------------|--------------------|
| 46. | 228 5210 45 | Nut M12          | Écrou M12          |
| 47. | 414 9760 00 | Spring           | Ressort            |