



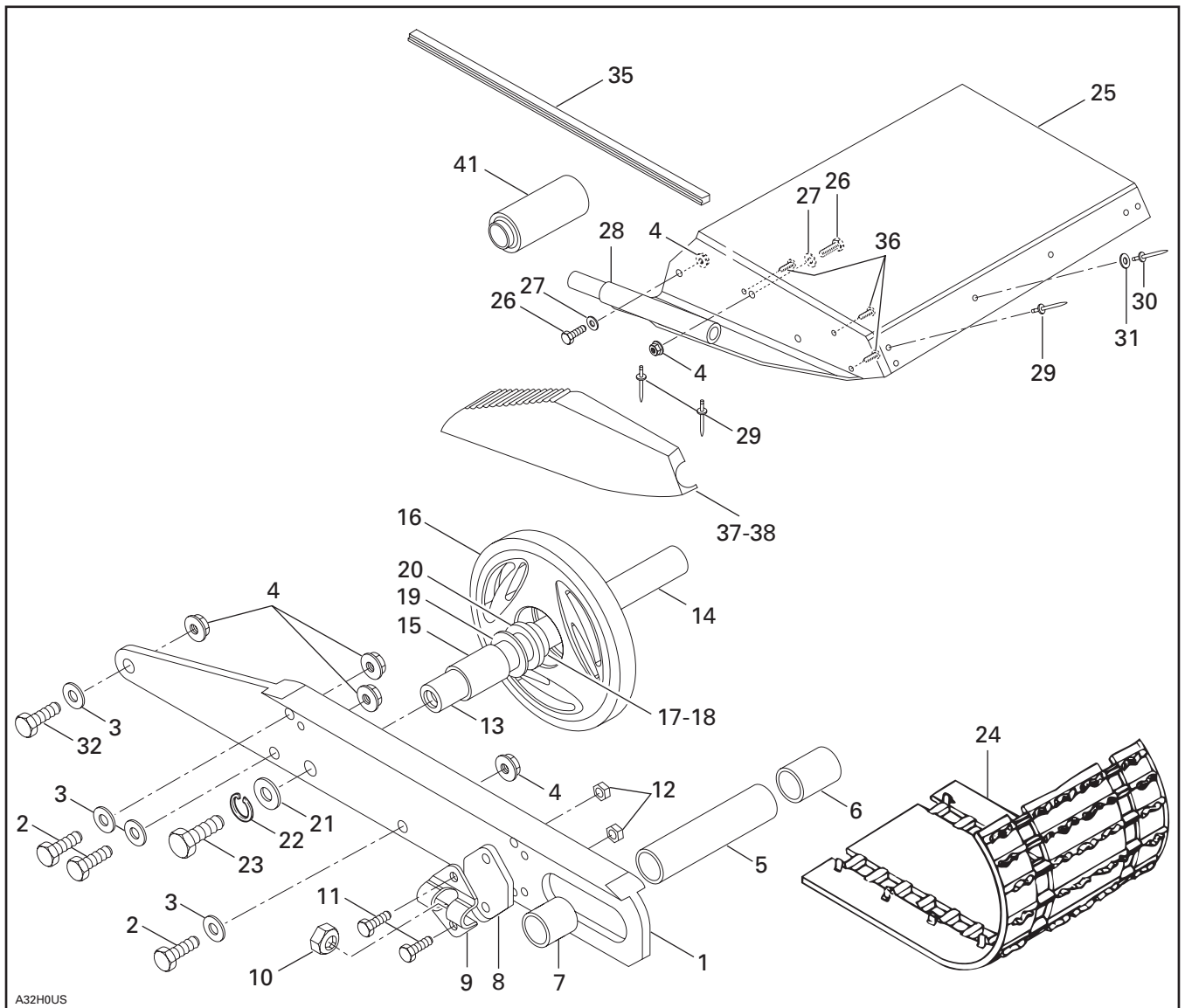
**SC-10 LONG TRACK EXTENSION KIT
(P/N 861 773 200)**

⚠ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold.

NOTE: Installation time is approximately 3.0 hours.

PARTS TO BE INSTALLED



A32H0US

1. Rail Extension (2)
2. Bolt M8 x 30 (6)
3. Flat Washer M8 (6)
4. Flanged Elastic Nut M8 (10)
5. Long Spacer
6. Short Spacer
7. Exterior Spacer (2)
8. Spacer Plate (2)
9. Tensioner (2)
10. Elastic Hexagonal Nut M10 (2)
11. Hexagonal Bolt M6 x 25 (4)
12. Elastic Hexagonal Nut M6 (4)
13. Axle
14. Spacer
15. Spacer (2)
16. Aluminum Bonded Wheel (2)
17. Ball Bearing (2)
18. Circlip (2)
19. Washer (4)
20. Cushion (4)
21. Flat Washer M10 (2)
22. Curved Lock Washer M10 (2)
23. Hexagonal Bolt M10 x 45 (2)
24. Track
25. Tunnel Extension
26. Hexagonal Bolt M8 x 20 (4)
27. Flat Washer (4)
28. Tube (2)
29. Pop Rivet (24)
30. Pop Rivet Black (4)
31. Flat Washer (4)
32. Hexagonal Bolt M10 x 35 (2)
33. Long Track Decal (not illustrated)
34. Warning Label (not illustrated)
35. Radiator Protector (2)
36. Tapping Screw 12 x 3/4 (6)
37. Moulding (right side)
38. Moulding (left side)
39. Reflector (right side) not illustrated
40. Reflector (left side) not illustrated
41. Bushing (2)

VEHICLE PREPARATION

Tunnel and Body

NOTE: Refer to your *Ski-Doo Shop Manual* for additional information.

CAUTION: Apply Loctite 271 (P/N 293 800 005) on fasteners when reassembling and tighten with proper torques.

Raise rear of vehicle and block safely.

Remove spring ends from adjusting cams as follows:

Slightly turn adjusting cam to expose spring end. Use spring installer tool (P/N 529 005 000), remove spring end from adjusting cam to remove spring tension.

Remove rear suspension and track.

Remove seat and rear mouldings.

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

Discard track, rear mouldings and screws.

Remove reflectors and screws, DO NOT DISCARD, they will be reused.

Models with Standard Rivets

Use a 5 mm (3/16 in) drill bit and drill out rivets retaining rear cap then remove it from tunnel.

Models with Self-Piercing Rivets

When drilling self-piercing rivets, use Supertanium™ drill bit (P/N 529 031 800), available in a 5 mm (3/16 in) size and shipped in packs of 2.

For proper drilling instructions and to prevent premature wear, follow the procedure below.

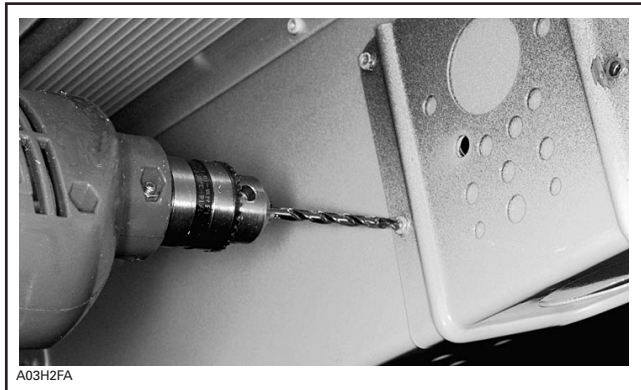
Always use a variable speed electric drill.

Maintain a slow to medium speed at all times when drilling. The proper speed is attained when a constant chip is ejected.

NOTE: To increase bit life, use Bombardier synthetic chaincase oil (P/N 413 803 300) as a cutting oil.

CAUTION: High speed drilling will cause excessive heat which may destroy the cutting edge of the bit, therefore avoid using pneumatic drills.

Partially drill rivet end — not the rivet head.



Remove rivet using a chisel.

Remove part riveted.

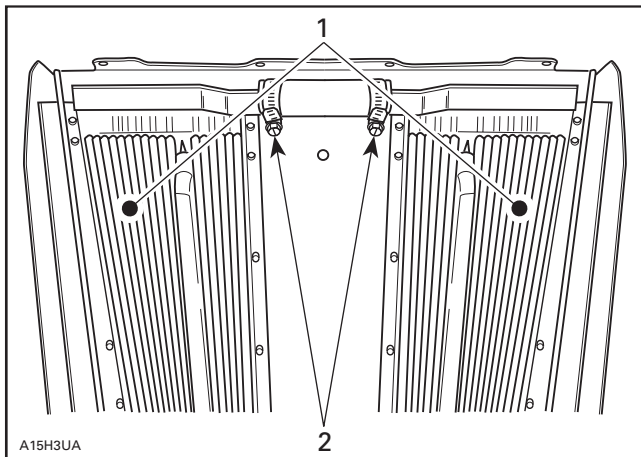
Drive out remaining of rivet using a punch.

Bend the rear edge of the tunnel upward in order to properly install rivets for tunnel extension. To do so, use an iron piece as anvil and hammer the rear edge flat.

PROCEDURE

For models with two heat exchangers, from underneath tunnel, ensure that the gear clamp screw heads securing the hose between the heat exchangers are pointing toward the front of vehicle. Reposition as necessary. To avoid disconnecting hose, unscrew collar completely, remove and rotate. Reinstall and tighten firmly. This is necessary to properly install the heat exchanger protectors.

Install heat exchanger protectors **no. 35**.

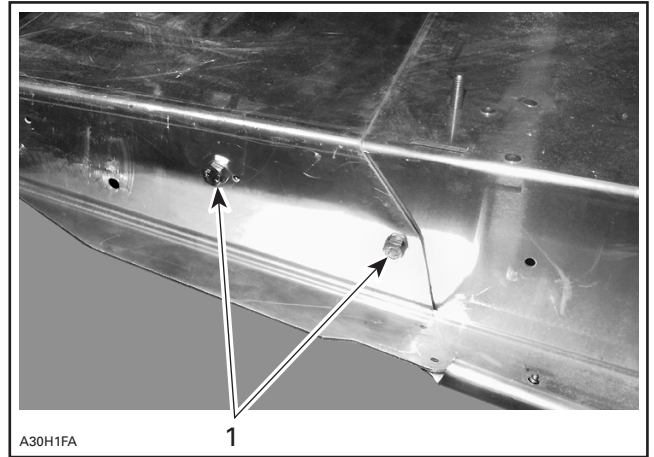


TYPICAL — MODELS WITH TWO HEAT EXCHANGERS

1. Heat exchangers
2. Screw heads must be facing this direction

Tunnel Extension Installation

Position tunnel extension **no. 25** over tunnel. Screw extension on sides of tunnel with bolts **no. 26**, flat washers **no. 27** and flanged elastic nuts **no. 4**. Pass bolts through extension and tunnel.



1. M8 bolts, washers and nuts

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

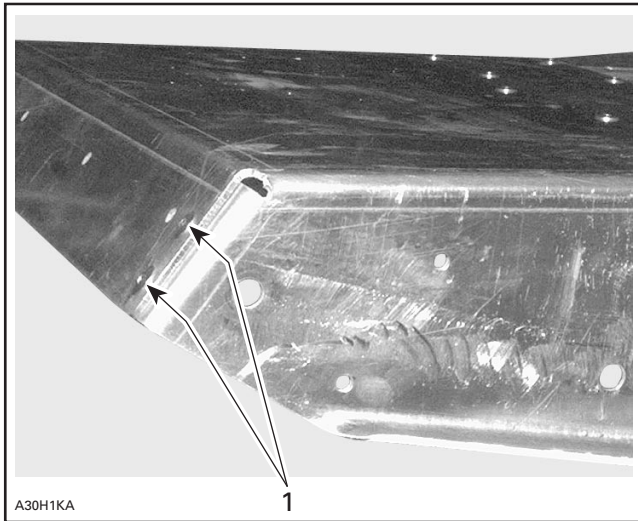


MAKE SURE TUNNEL EXTENSION IS PARALLEL TO TUNNEL

Tighten nuts on sides of tunnel extension.

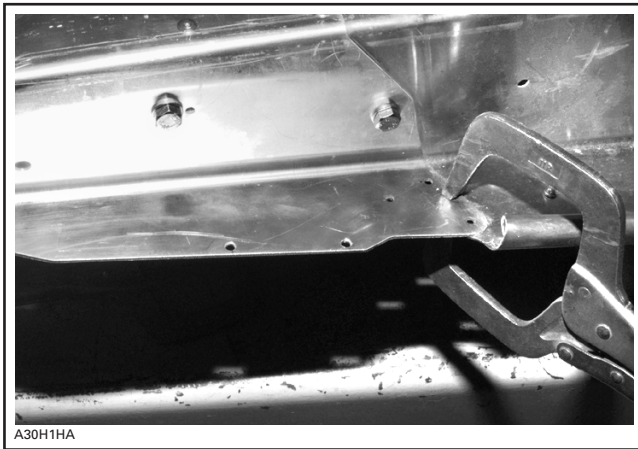
Using tunnel holes as a guide, drill holes in tunnel extension with a 5 mm (13/64 in) drill bit.

Remove burrs then rivet extension to tunnel using rivets **no. 29**. Drill 2 holes in each rear corner of extension and rivet them.

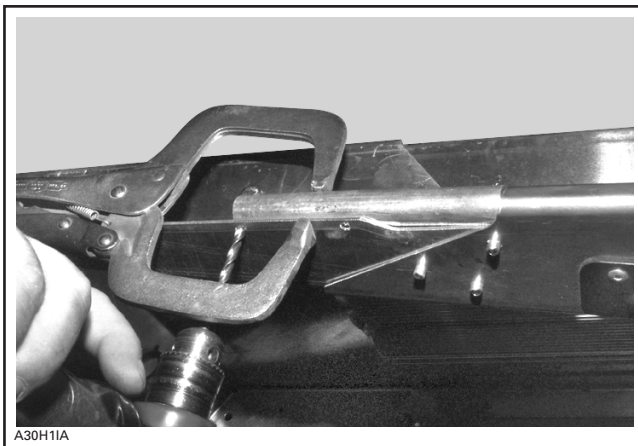


1. Drill two holes each side and install rivets

Using extension holes as a guide, drill holes in footboard and rivet tunnel extension to footboard.



Insert tubes **no. 28** into the footstep reinforcements and drill them facing the holes of tunnel extension edge. Secure with rivets.



Reinstall rear bumper using existing fasteners.

Install rear mouldings **no. 37** and **no. 38** using new self-tapping screws **no. 36** sticking in their respective reflector **no. 39** and **no. 40**.

Reinstall seat.

Install new track **no. 24** paying close attention to the direction of rotation.

Refill chaincase with Bombardier synthetic chaincase oil (P/N 413 803 300).

Rear Suspension

Remove rear axle and components.

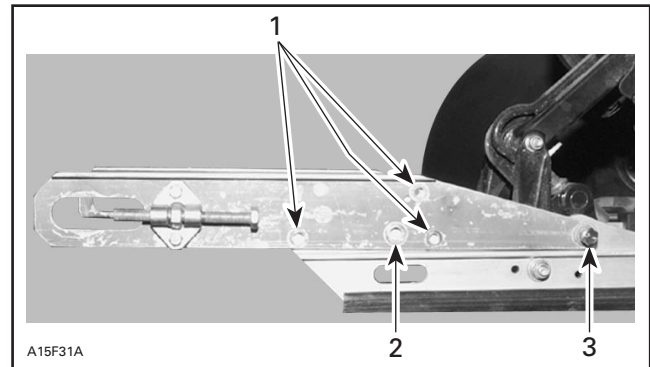
Discard the 4 bushings on rear axle.

Remove track adjuster and adjuster bolt. Bolt will be reinstalled on rail extension with new track adjuster.

Remove the two bolts holding rear arm lower shaft to side rails. Position rail extensions **no. 1** outside of suspension rail, one of each side. Align front hole of rail extension with lower shaft and secure with new bolts **no. 32**, using new washers **no. 3**.

Ensure that both rail extension are touching all along rail.

Using an 8 mm (5/16 in) and 10 mm (13/32 in) drill bits, drill holes in rail using extension rail as a guide. Drill the smallest holes first.



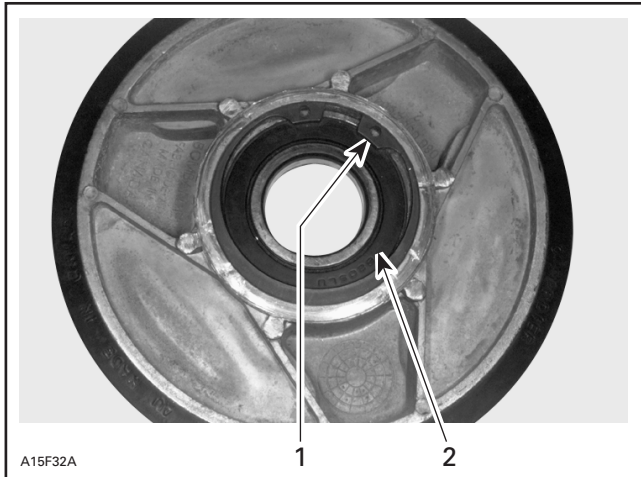
1. Drill 8 mm holes (5/16 in)
2. Drill 10 mm holes (13/32 in)
3. Use new M8 x 35 bolts

Secure extension to rail with bolts **no. 2**, washers **no. 3** and nuts **no. 4**, then tighten.

Install spacer plate **no. 8** and tensioner **no. 9** onto extension rails. Secure with screws **no. 11** and nuts **no. 12**.

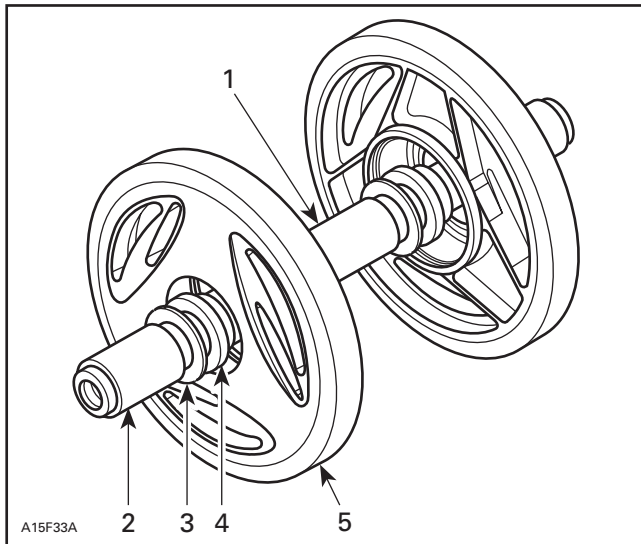
Install tension adjustment bolts and secure with nuts **no. 10**.

Install ball bearings **no. 17** into bonded wheels **no. 16**, retain bearings using circlips **no. 18**.



1. Circlips
2. Ball bearing

Install axle **no. 13**, spacer **no. 14**, washers **no. 19**, one cushion **no. 20** on both sides of each bonded wheel **no. 16** and spacers **no. 15** as per the following illustration.



1. Center spacer **no. 14**
2. Short spacers **no. 15**
3. Washers **no. 19**
4. Cushions **no. 20**
5. Bonded wheel, bearing and circlip

Install center axle ass'y in front of rear axle location. Secure with M10 bolts **no. 23**, lock washers **no. 22** and flat washers **no. 21**.

Reinstall rear axle with new spacers. Long spacer **no. 5**, short spacer **no. 6** and exterior spacer **no. 7**. Reuse other components. Apply Loctite 271 (red) to bolt threads).

Ensure to reinstall thin shims to each side of rails. Remove locking rings and top idler wheels.

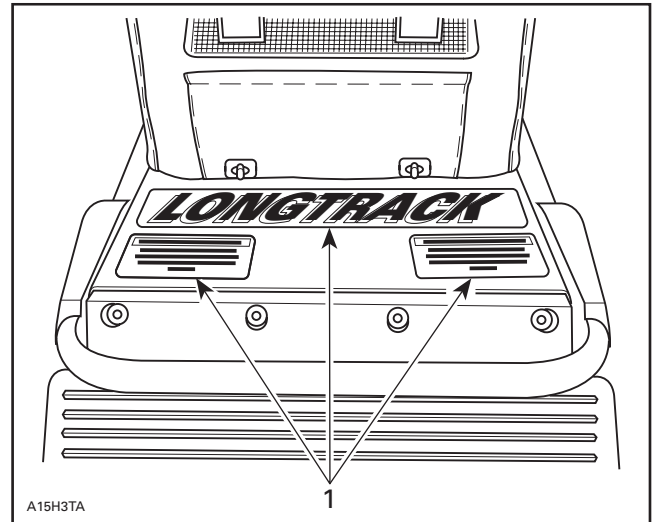
Remove existing plastic spring bushings (one on each side), and replace with new bushings **no. 41**.

Reinstall spring end in cam using tool and adjust cam.

Reinstall idler wheels and locking rings. Tighten set screws.

Reinstall rear suspension in tunnel. Pay attention to secure suspension attachments in same holes.

Apply (LONGTRACK) extension decal **no. 33** and warning label **no. 34** on top of tunnel extension.



1. Decals

Install snow guard reinforcement and snow guard, and secure with new rivets **no. 30** and flat washers **no. 31**.

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

Test snowmobile.

⚠ WARNING

Do not carry passengers or cargo in this area.

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1.	503 172 000	Rail Extension (2)	Rallonge de porte-glissière (2)
2.	207 183 044	Bolt M8 x 30 (6)	Boulon M8 x 30 (6)
3.	234 081 410	Flat Washer M8 (6)	Rondelle plate M8 (6)
4.	233 281 414	Flanged Elastic Nut M8 (10)	Écrou d'arrêt élastique à épaulement M8 (10)
5.	503 156 700	Long Spacer	Entretoise (longue)
6.	503 156 800	Short Spacer	Entretoise (courte)
7.	503 172 100	Exterior Spacer (2)	Entretoise (extérieure) (2)
8.	503 156 500	Spacer Plate (2)	Plaque d'écartement (2)
9.	503 155 300	Tensioner (2)	Tendeur (2)
10.	233 601 416	Elastic Hexagonal Nut M10 (2)	Écrou d'arrêt élastique hexagonal M10 (2)
11.	207 162 544	Hexagonal Bolt M6 x 25 (4)	Boulon hexagonal M6 x 25 (4)
12.	232 561 414	Elastic Hexagonal Nut M6 (4)	Écrou d'arrêt élastique hexagonal M6 (4)
13.	503 152 800	Axle	Essieu
14.	503 153 100	Spacer	Entretoise
15.	503 151 000	Spacer (2)	Entretoise (2)
16.	570 066 622	Aluminium Bonded Wheel (2)	Roue en aluminium (2)
17.	405 404 500	Ball Bearing (2)	Roulement à billes (2)
18.	371 901 700	Circlip (2)	Circlip (2)
19.	503 154 000	Washer (4)	Rondelle (4)
20.	415 112 700	Cushion (4)	Coussinet (4)
21.	234 001 410	Flat Washer M10 (2)	Rondelle plate M10 (2)
22.	234 100 602	Curved Lock Washer M10 (2)	Rondelle-frein cintrée M10 (2)
23.	222 004 565	Hexagonal Bolt M10 x 45 (2)	Boulon hexagonal M10 x 45 (2)
24.	570 211 100	Track	Chenille
25.	503 172 300	Tunnel Extension	Rallonge de tunnel
26.	207 182 044	Hexagonal Bolt M8 x 20 (4)	Boulon hexagonal M8 x 20 (4)
27.	234 081 410	Flat Washer (4)	Rondelle plate (4)
28.	503 172 600	Tube (2)	Tube (2)
29.	390 402 200	Pop Rivet (24)	Rivet (24)
30.	390 909 600	Pop Rivet Black (4)	Rivet noir (4)
31.	517 225 900	Flat Washer (4)	Rondelle plate (4)
32.	207 103 544	Hexagonal Bolt M10 x 35 (2)	Boulon hexagonal M10 x 35 (2)
33.	414 936 500	Long Track Decal (not illustrated)	Autocollant de chenille longue (non illustré)

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34.	414 936 600	Warning Label (not illustrated)	Étiquette d'avertissement (non illustré)
35.	415 012 300	Radiator Protector (2)	Protecteur de radiateur (2)
36.	365 901 100	Tapping Screw 12 x 3/4 (6)	Vis autotaraudeuse 12 x 3/4 (6)
37.	572 097 300	Moulding (right side)	Enjoliveur (côté droit)
38.	572 097 400	Moulding (left side)	Enjoliveur (côté gauche)
39.	415 056 000	Reflector (right side) not illustrated	Réflecteur (côté droit) non illustré
40.	415 056 001	Reflector (left side) not illustrated	Réflecteur (côté gauche) non illustré
41.	572 086 100	Bushing (2)	Coussinet (2)