



## PWCキット-スピードタイ-RXT、GTX、Wake PRO (2018以降)

印刷可能バージョン

この記事の評価する

(平均評価: 評価なし)

言語 英語 ▼

プロパティを表示

製品:	Sea-Doo_watercraft
プロジェクト番号:	487803158
インストラクションシートP/N:	487803158
改訂番号:	
改訂日:	
対象アイテム:	スピードタイ-RXT、GTX、Wake PRO (2018以降)

このドキュメントでは、次の記号を使用できます。

### ⚠ 警告

回避しないと、死亡または重傷を負う可能性のある危険な状況を示します。

**⚠ 注意:** 回避しないと、軽傷または中程度の傷害を引き起こす可能性のある危険な状況を示します。

**通知** 従わないと、車両のコンポーネントやその他の資産に重大な損傷を与える可能性のある指示を示します。

### ⚠ 警告

- 安全上の理由から、このキットは認定BRPディーラーが設置する必要があります。
- このキットは、特定の該当するモデル専用設計されています（認定BRPディーラーがモデルを確認します）。販売されたユニット以外のユニットにはお勧めしません。
- キットのインストールにテンプレートが必要な場合は、テンプレートが縮尺どおりであることを確認してください。
- 分解/組み立ての際にロック装置（ロックタブ、セルフロックファスナーなど）の取り外しが必要な場合は、必ず新しいものと交換してください。
- トルクレンチの締め付け仕様を厳守する必要があります。
- 電動工具を使用するときは、常に目の保護具と適切な手袋を着用してください。
- 特に指定のない限り、車両で操作を行うときはエンジンをオフにする必要があります。
- ホイール、トランスミッション部品など、動く可能性のある部品に常に注意してください。

### ⚠ 警告

この取扱説明書には、エンドユーザー専用の重要な安全情報や操作説明書が含まれている場合があります。キットの部品番号と、このキットに含まれている取扱説明書を必ずお客様に提供してください。お客様がアクセサリを適切に使用するために必要なすべての情報にアクセスできることを確認します。

**注:** 特に指定がない場合は、次の表の締め付けトルクを使用してください。

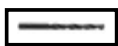

シレート

	5.8	8.8	10.9	12.9
M4	1.8±0.2N•m (16±2lbf•in)	2.8±0.2N•m (25±2lbf•in)	3.8±0.2N•m (34±2lbf•in)	4.5±0.5N•m (40±4lbf•in)
M5	3.3 ± 0.2 N•m (29 ± 2 lbf•in)	5 ± 0.5 N•m (44 ± 4 lbf•in)	7.8 ± 0.7 N•m (69 ± 6 lbf•in)	9 ± 1 N•m (80 ± 9 lbf•in)
M6	7.5 ± 1 N•m (66 ± 9 lbf•in)	10 ± 2 N•m (89 ± 18 lbf•in)	12.8 ± 2.2 N•m (113 ± 19 lbf•in)	16 ± 2 N•m (142 ± 18 lbf•in)
M8	15.3 ± 1.7 N•m (135 ± 15 lbf•in)	24.5 ± 3.5 N•m (18 ± 3 lbf•ft)	31.5 ± 3.5 N•m (23 ± 3 lbf•ft)	40 ± 5 N•m (30 ± 4 lbf•ft)
M10	29 ± 3 N•m (21 ± 2 lbf•ft)	48 ± 6 N•m (35 ± 4 lbf•ft)	61 ± 9 N•m (45 ± 7 lbf•ft)	73 ± 7 N•m (54 ± 5 lbf•ft)
M12	52 ± 6 N•m (38 ± 4 lbf•ft)	85 ± 10 N•m (63 ± 7 lbf•ft)	105 ± 15 N•m (77 ± 11 lbf•ft)	128 ± 17 N•m (94 ± 13 lbf•ft)
M14	85 ± 10 N•m (63 ± 7 lbf•ft)	135 ± 15 N•m (100 ± 11 lbf•ft)	170 ± 20 N•m (125 ± 15 lbf•ft)	200 ± 25 N•m (148 ± 18 lbf•ft)
M16	126 ± 14 N•m (93 ± 10 lbf•ft)	205 ± 25 N•m (151 ± 18 lbf•ft)	255 ± 30 N•m (188 ± 22 lbf•ft)	305 ± 35 N•m (225 ± 26 lbf•ft)
M18	170 ± 20 N•m (125 ± 15 lbf•ft)	273 ± 32 N•m (201 ± 24 lbf•ft)	330 ± 25 N•m (243 ± 18 lbf•ft)	413 ± 47 N•m (305 ± 35 lbf•ft)

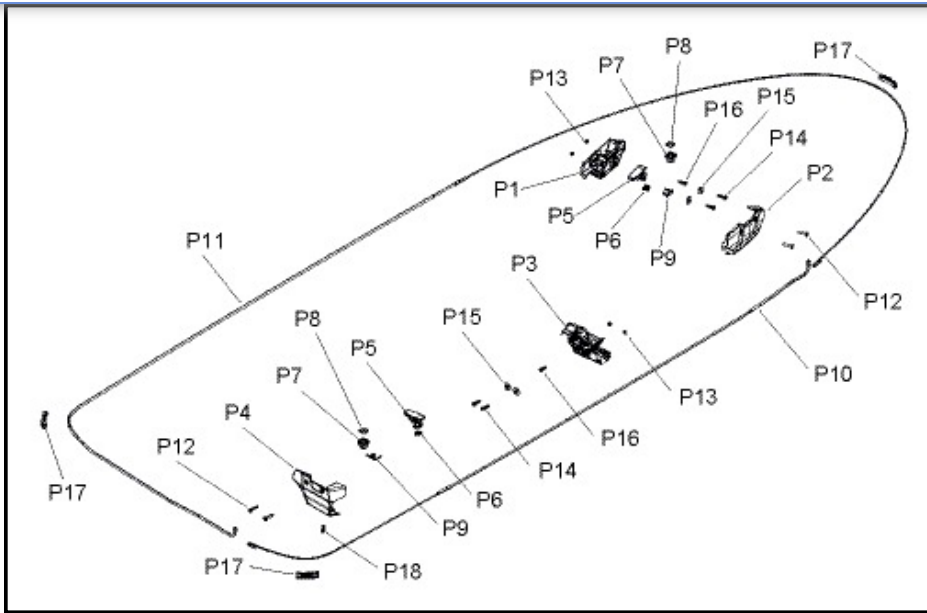
The illustrations in this document show typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

Installation time is approximately 1.5 hour.

## REQUIRED TOOLS

Required Tool			Use
T1	Drill bit 5.5 mm (7/32 in)		To drill 3 holes on the upper deck
T2	Drill bit 7 mm (9/32 in)		To drill holes on the latch supports

## PARTS TO BE INSTALLED



ITEM	DESCRIPTION	Part number	QTY
P1	Front Latch Support	Not available separately	1
P2	Front Support Reinforcement	269800938	1
P3	Rear Latch Support	Not available separately	1
P4	Rear Support Reinforcement	269800940	1
P5	Locking Cam	Service Kit 295101008	2
P6	Aluminum Insert		2
P7	Cable End Piece		2
P8	End Piece		2
P9	Clip		2
P10	Short Retractable Rope	269800941	1
P11	Long Retractable Rope	269800942	1
P12	M6 X 35 Torx Screw	250000541	4
P13	Elastic Stop Nut	232561200	4
P14	M6.81 X 30 Torx Screw	250001007	4
P15	8mm Stainless Flat Washer	234082600	4
P16	M6.3 X 25 Torx Screw	250000466	2
P17	Rope Guide	269801018	3
P18	M6.81 X 20 Torx Screw	250001171	1

## SERVICE PARTS

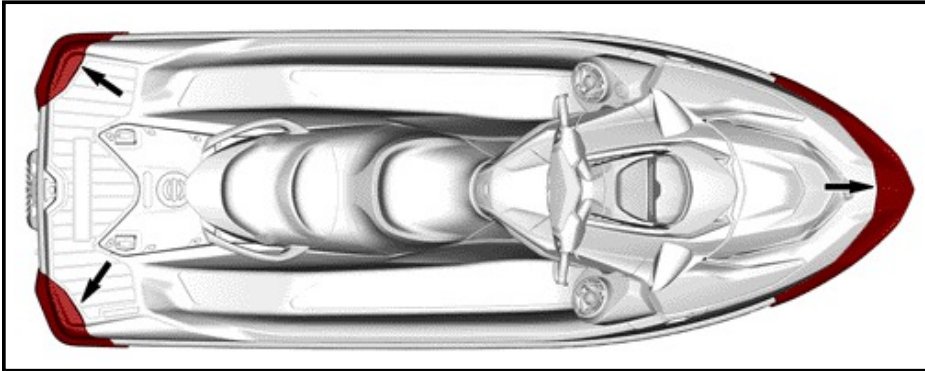
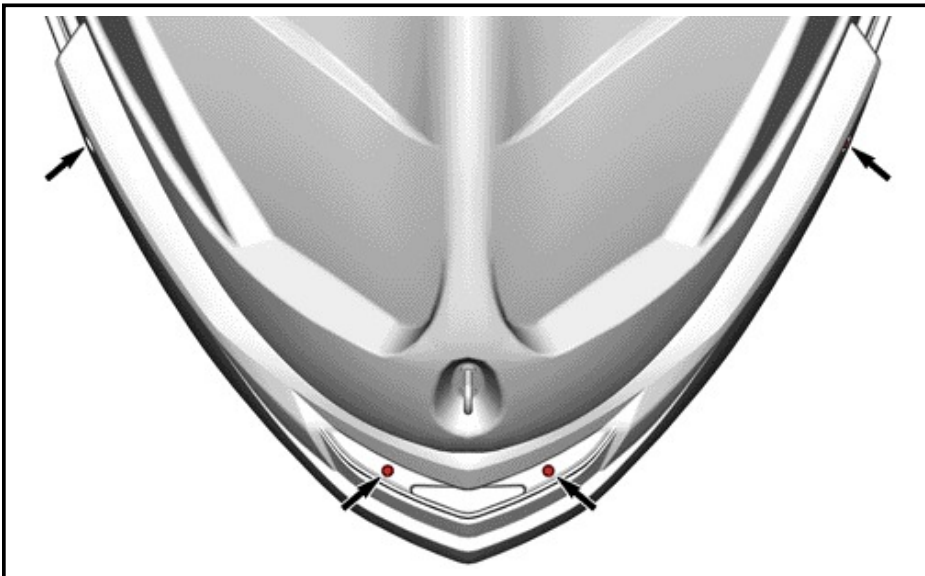
**295101008 Retractable Rope Replacement Kit**

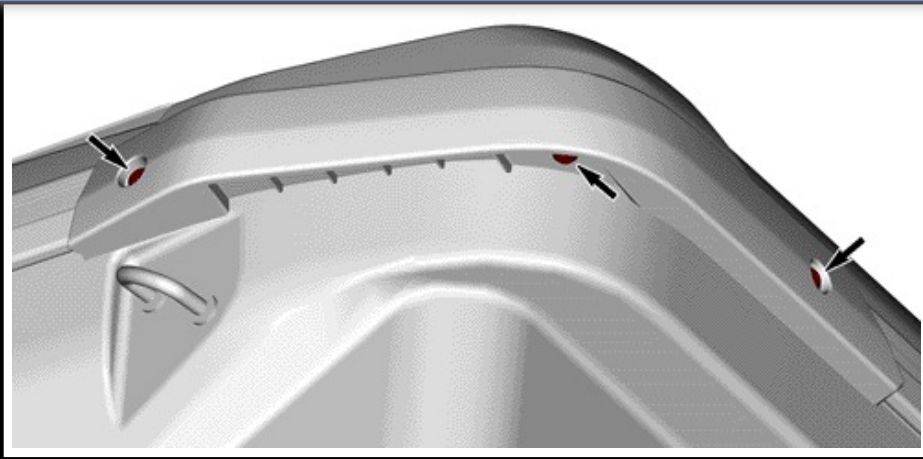
ITEM	DESCRIPTION	QTY
P5	Locking Cam	1
P6	Aluminum Insert	1
P7	Cable End Piece	1
P8	End Piece	1
P9	Clip	1

## INSTRUCTIONS

### Vehicle Preparation

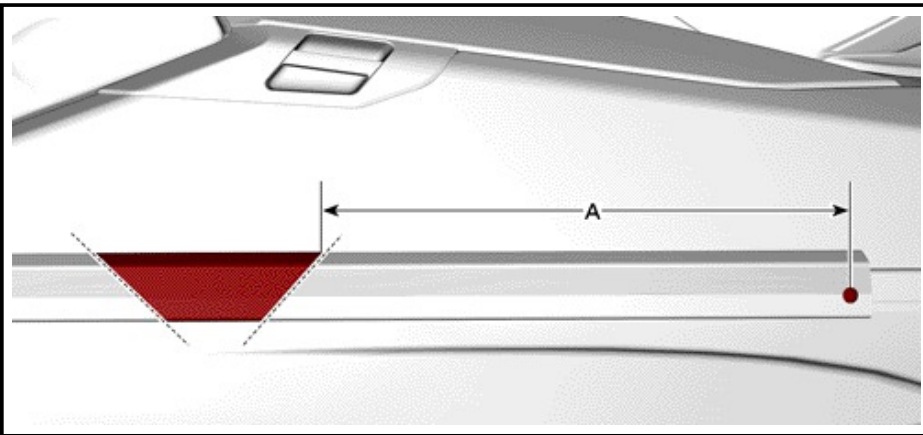
1. Remove the front and the corner bumpers.

*BUMPERS**FRONT BUMPER FASTENERS*



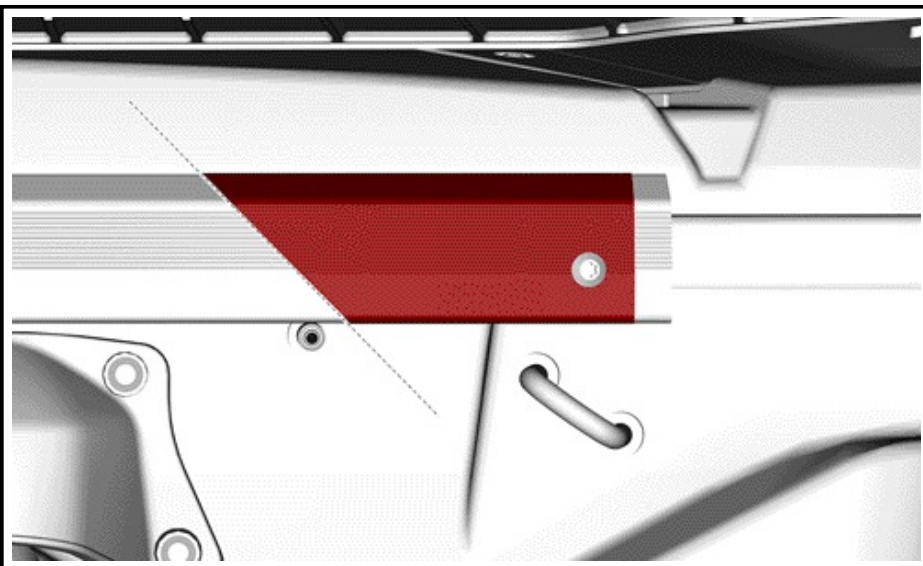
REAR RIGHT CORNER BUMPER FASTENERS

2. Place the template A on the lateral extrusion bumper as shown and mark both side. Do the same with the template B on the rear extrusion bumper but only mark the side shown.



TEMPLATE A

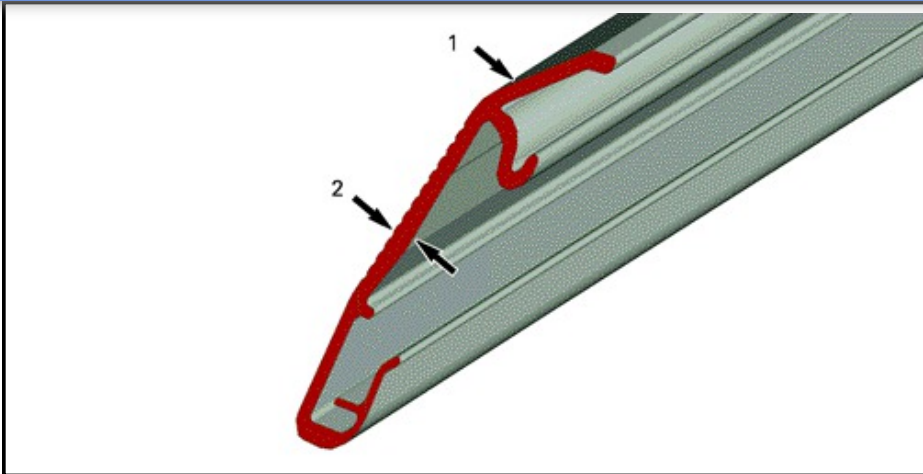
A. 470 mm (18-1/2 in)



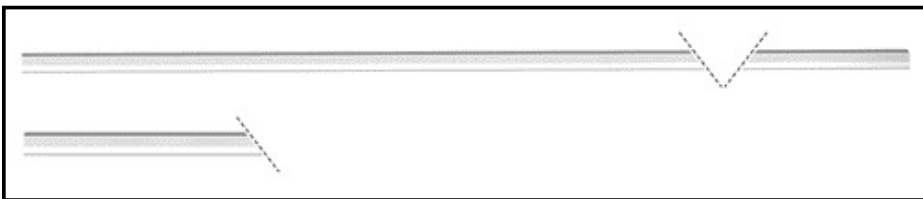
TEMPLATE B

3. Remove the extrusion bumpers and cut them following the marks. Remove all sharp edges and make a chamfer on both sides of each extrusion as shown.

**NOTE:** Use a plastic lever to detach extrusion. Make sure to not damage the deck with the tool.



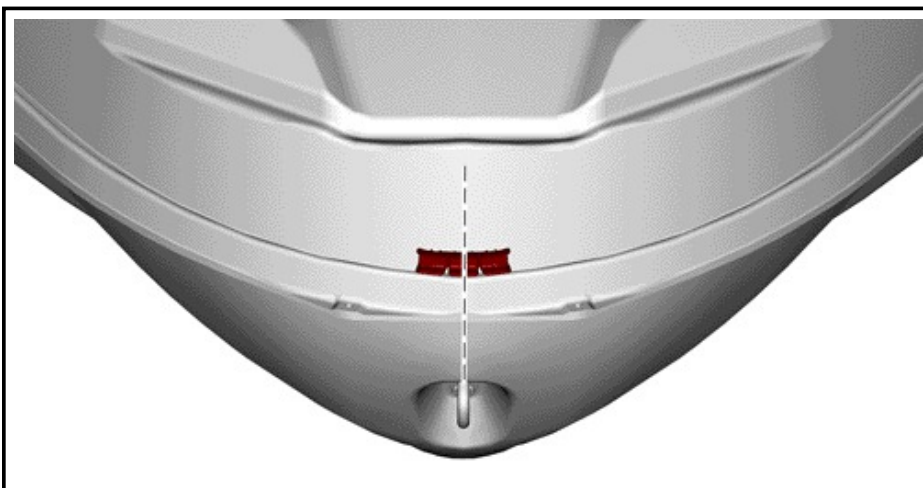
1. Chamfer
2. Remove sharp edges



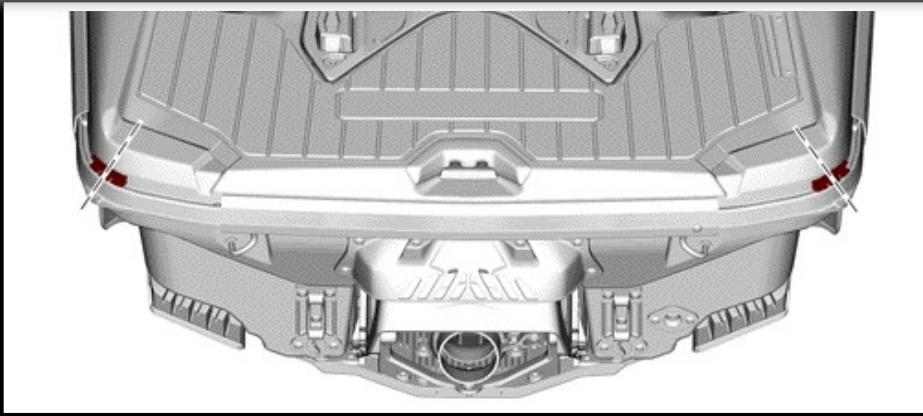
4. Clean the extrusions and make sure there is no dirt in the grooves.
5. Install the extrusion bumpers back on the vehicle by using the following holes to place them correctly.



6. Clean the surfaces shown using isopropyl alcohol. Install the 3 rope guides with double-sided tape. Apply even pressure on each rope guide for 30 seconds to let it stick in place.



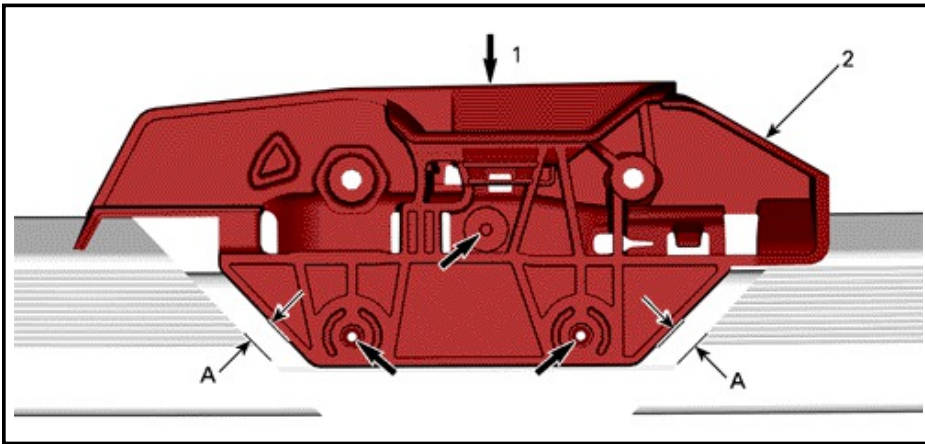
FRONT ROPE GUIDE



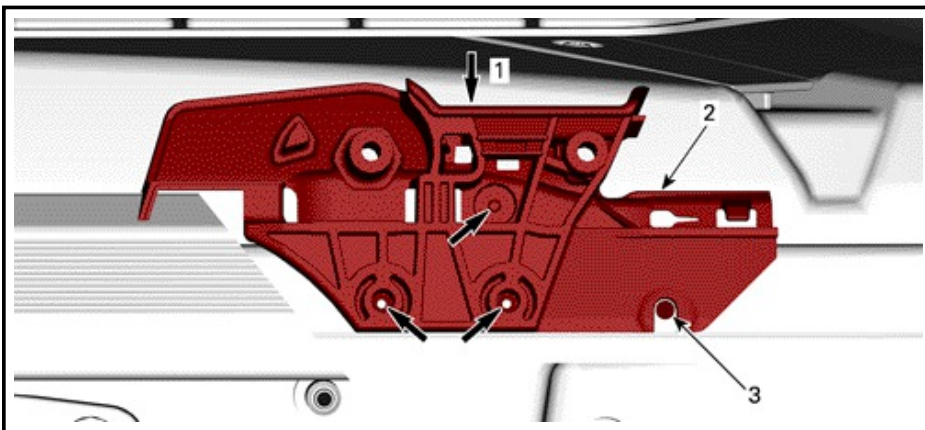
REAR ROPE GUIDES

**NOTE:** Ambient and surface temperatures must be of at least 15 degrees Celsius.

7. Use the front and rear latch supports [P1] and [P3] as templates to mark and drill three (3) holes using [T1] drill bit 5.5 mm (7/32 in).



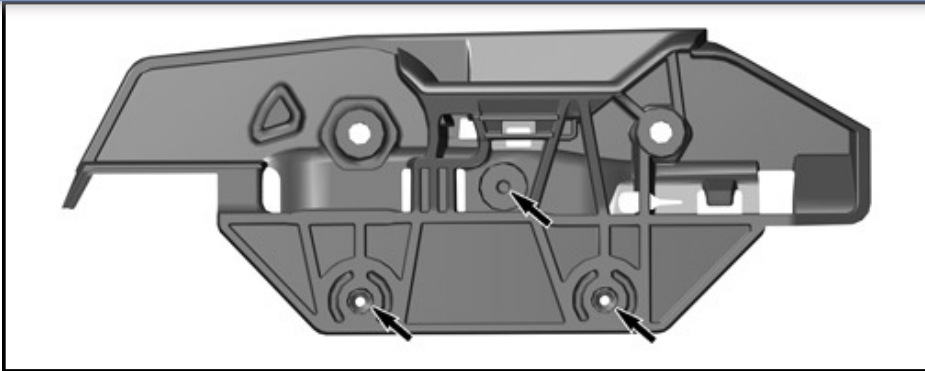
1. Apply a little pressure when drilling
2. Front latch support [P1]
- A. Keep the same gap on each side



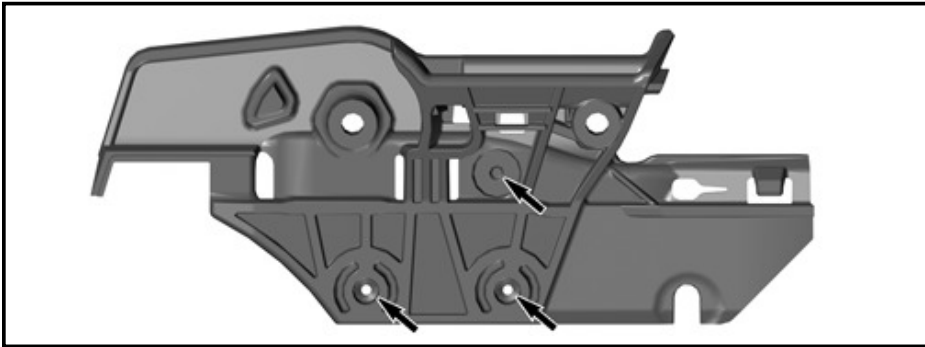
1. Apply a little pressure when drilling
2. Rear latch support [P3]
3. Use hole to position latch support

**NOTE:** Make sure there is no ribs behind the hull's lip before drilling.

8. Use [T2] drill bit 7 mm (9/32 in) to enlarge the existing holes of the latch supports only.



FRONT LATCH SUPPORT [P1]

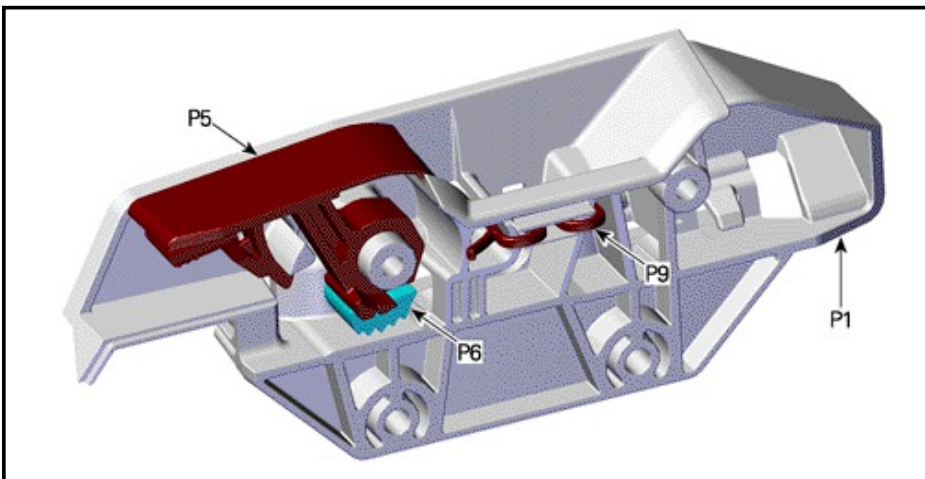


REAR LATCH SUPPORT [P3]

## Part Installation

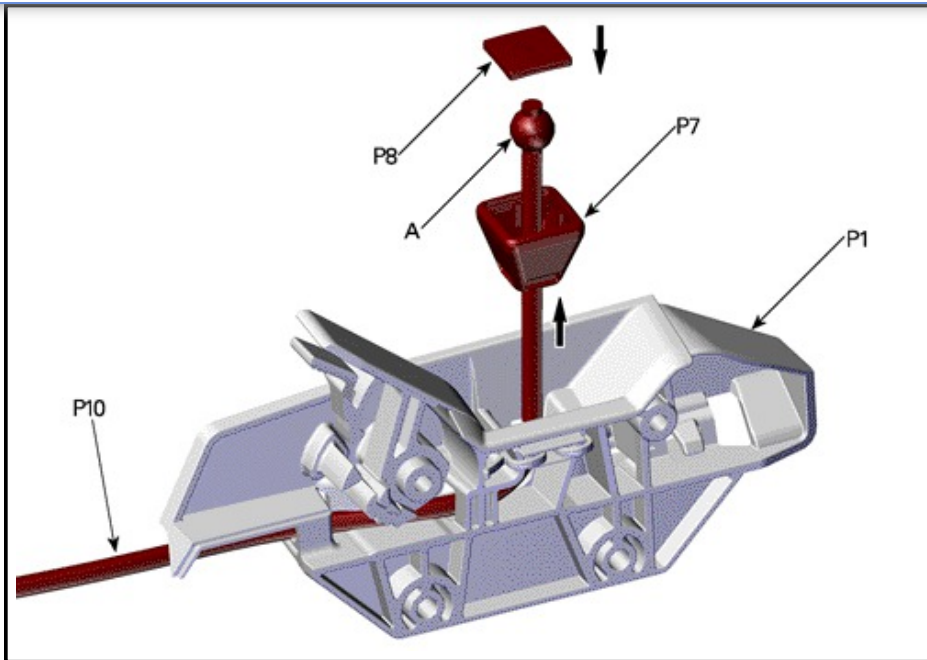
### *Mounting the Front and Rear Speed-Tie on the Vehicle*

1. Mount the aluminum insert [P6] on the locking cam [P5].
2. Install the last assembly and the clip [P9] on the front latch support [P1]. Repeat for the rear latch support [P3].



3. Route the ropes into the front and rear latch supports [P1] and [P3] and the cable end piece [P7]. Make a knot as shown below, mount the end piece [P8] and push on it to make sure that all the snaps are engaged.

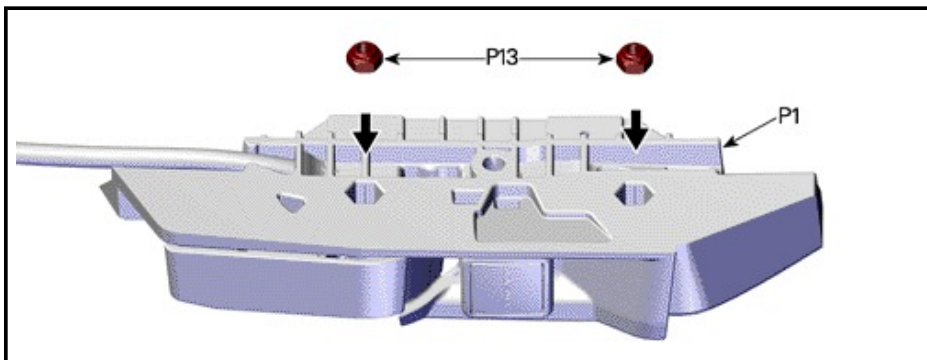




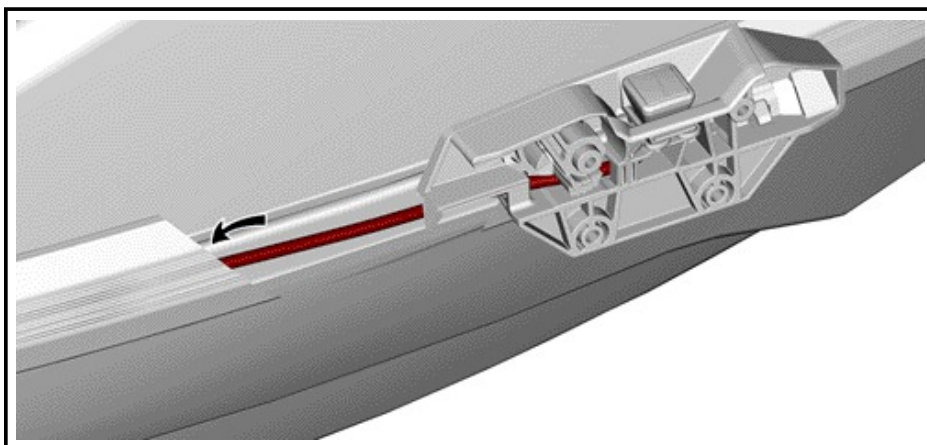
A. Knot

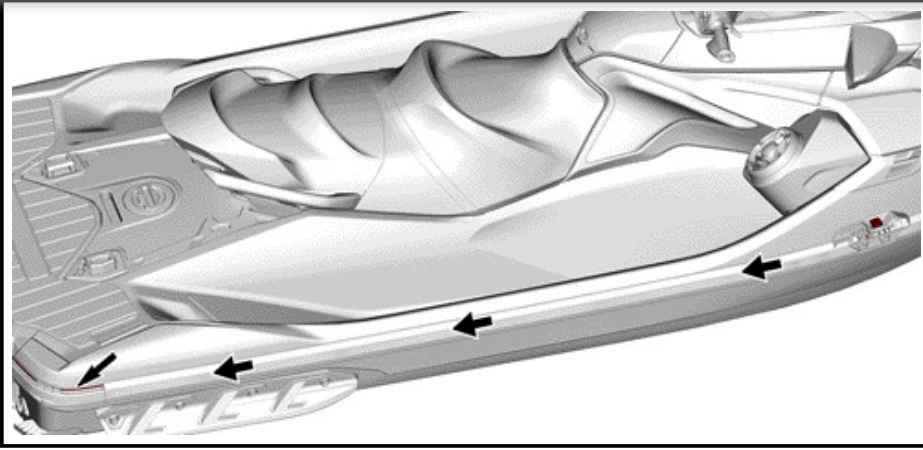
**NOTE:** Use the short retractable rope [P10] for the front latch support [P1] and the long retractable rope [P11] for the rear latch support [P3].

4. Install the elastic stop nut [P13] into the hexagonal holes in the front and rear latch supports [P1] and [P3].



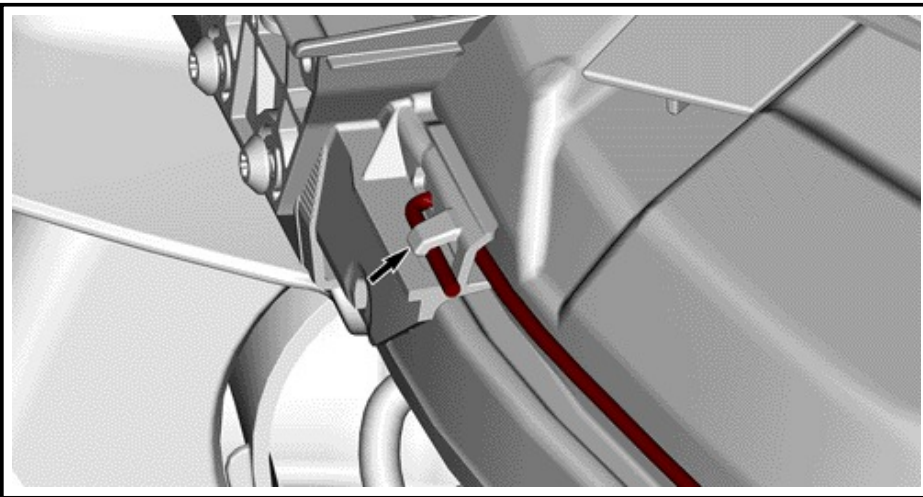
5. Use a fish tape to pass and pull the elastic side of the rope through the extrusions.





**NOTE:** Keep the rope in the latch support while you are passing the rope through the extrusions. Keep the lever on its lock position.

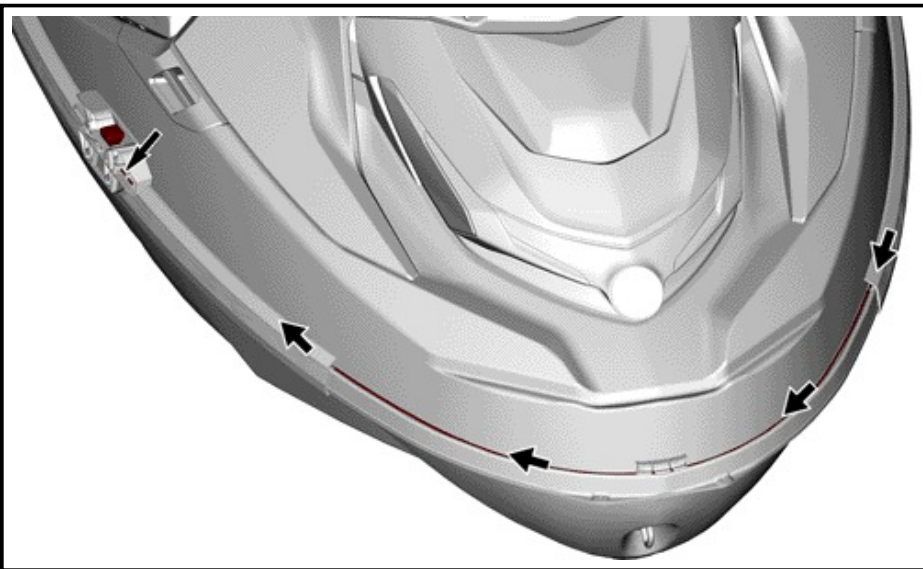
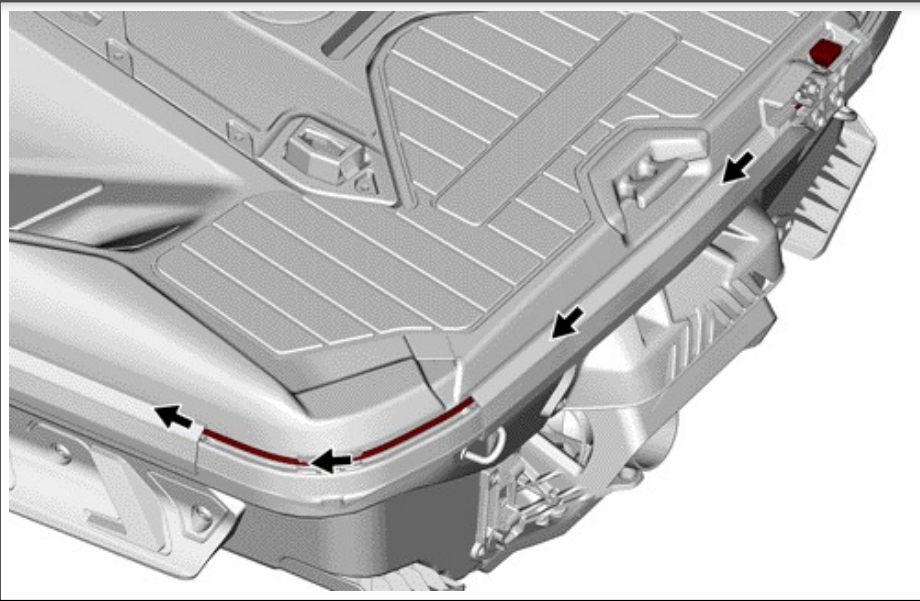
6. Lock the front elastic in the rear latch support [P3] and make a knot at the end. Final elastic adjustment will be done in a further step. Install it at the longest as shown for now.



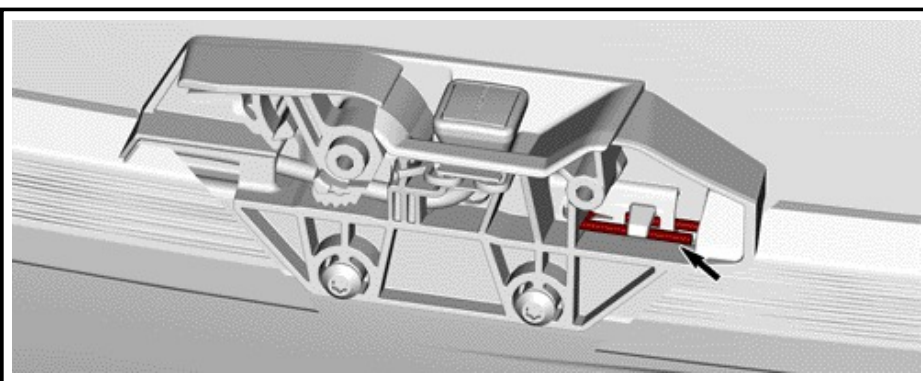
**NOTICE** Avoid putting too much preload on the elastic as it could result in premature wear of the elastic.

**NOTE:** Loosely secure each latch support with two (2) M6.81 X 30 Torx screws [P14]. Do not tighten the screws until both front and rear elastics are locked in their features. Access to the back side of the latch supports is required to route the elastic.

7. Use a fish tape to pass and pull the rear rope through the rear and lateral extrusion bumpers.



8. Lock the rear elastic in the front latch support [P1] and make a knot at the end. Final elastic adjustment will be done in a further step. Install it at the longest for now.

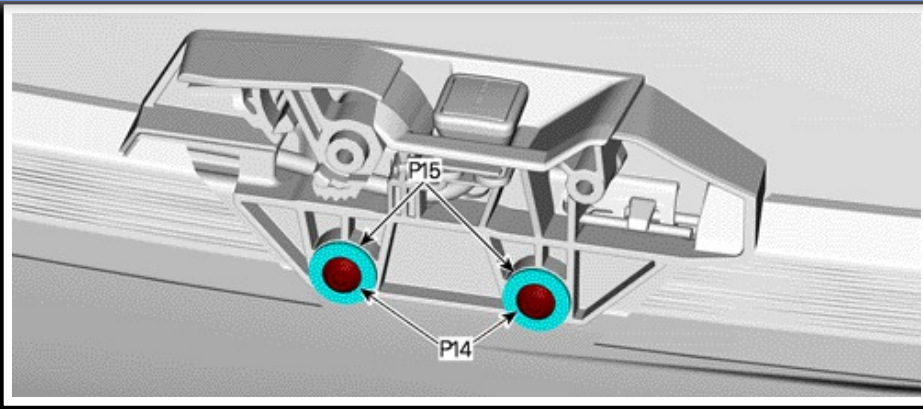


**NOTICE** Avoid putting too much preload on the elastic as it could result in premature wear of the elastic.

**NOTE:** Loosely secure each latch support with two (2) M6.81 X 30 Torx screws [P14]. Do not tighten the screws until both front and rear elastics are locked in their features. Access to the back side of the latch supports is required to route the elastic.

9. Once you fix the elastics, hand tighten two (2) M6.81 X 35 Torx screws [P14] with two (2) 8 mm stainless flat washers [P15] to secure each latch support on the vehicle. Ensure clamping is properly done on the

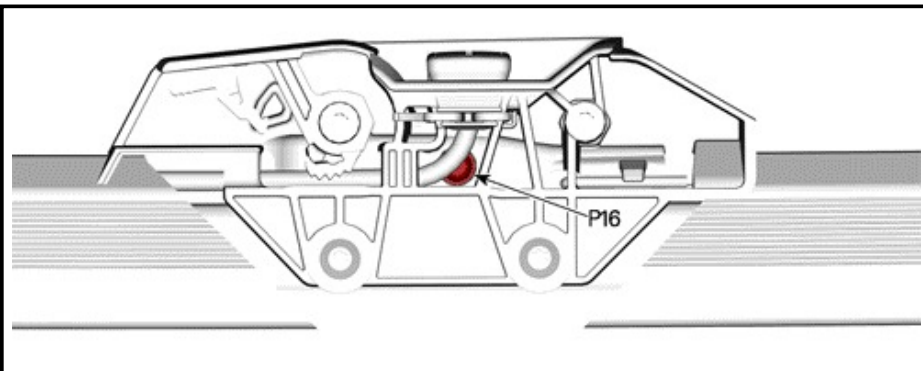
flat washers [P13] to secure each latch support on the vehicle. Ensure clamping is properly done on the latch support.



<b>Tightening Torque</b>	
M6.81 X 35 Torx screws [P14]	4 N•m (35 lbf•in)

**NOTE:** Do not exceed recommended torque to avoid stripping the threads. Apply a little force on top of the latch supports to keep it in the groove while tightening the screws.

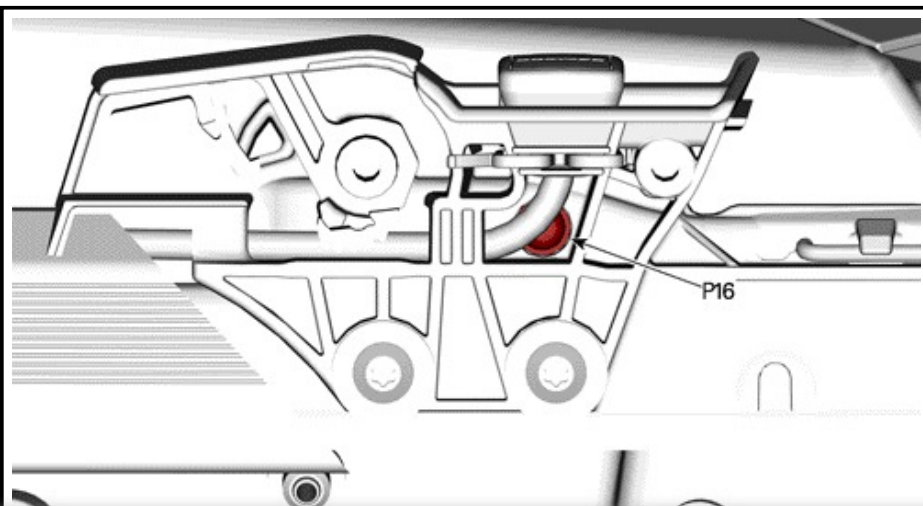
10. Hand tighten the M6.3 X 25 Torx screw [P16] as third fixing point. Pull out partially the rope to have a better access to this screw. Ensure clamping is properly done on the front latch support.



<b>Tightening Torque</b>	
M6.3 X 25 Torx screw [P16]	4 N•m (35 lbf•in)

**NOTE:** Do not exceed recommended torque to avoid stripping the threads.

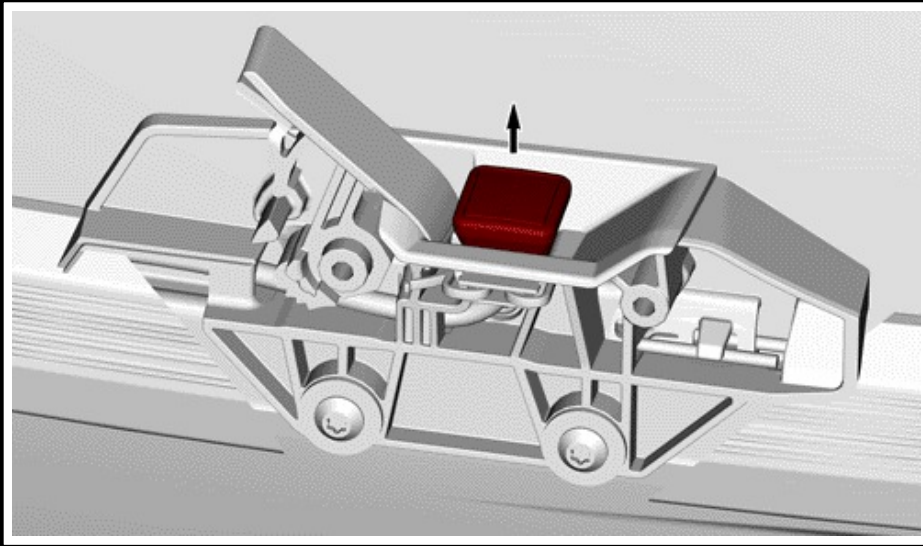
11. Hand tighten the M6.3 X 25 Torx screw [P16] as a third fixing point. Pull out partially the rope to have a better access to this screw. Ensure clamping is properly done on rear latch support.



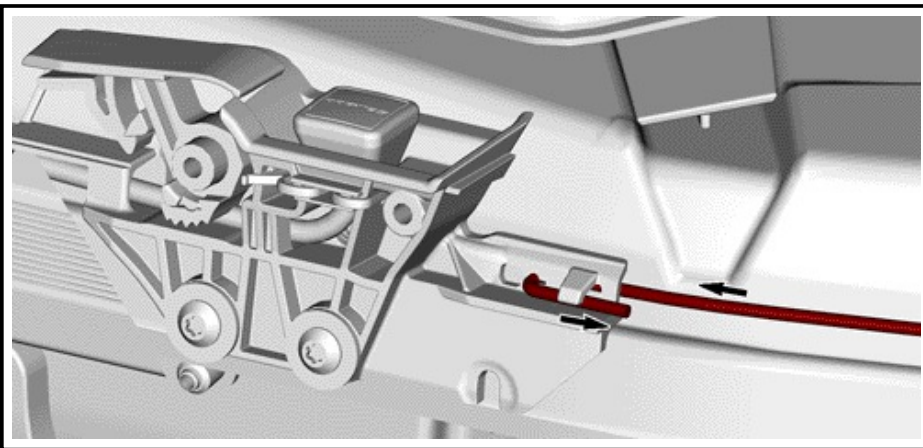
Tightening Torque	
M6.3 X 25 Torx screw [P16]	4 N•m (35 lbf•in)

**NOTE:** Do not exceed recommended torque to avoid stripping the threads.

12. Try to pull out a little the end cap to confirm that it gets back in position. Make sure that you have a little preload of the cord when the cap is in position.



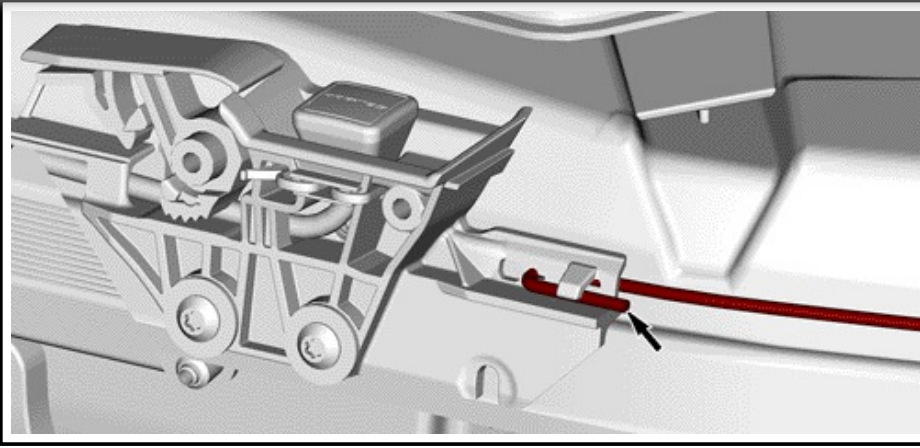
13. If the cap is loose and does not go back to its place, use the following feature to adjust the preload. Do not add more than 25 mm (1 in) of preload during the first installation.



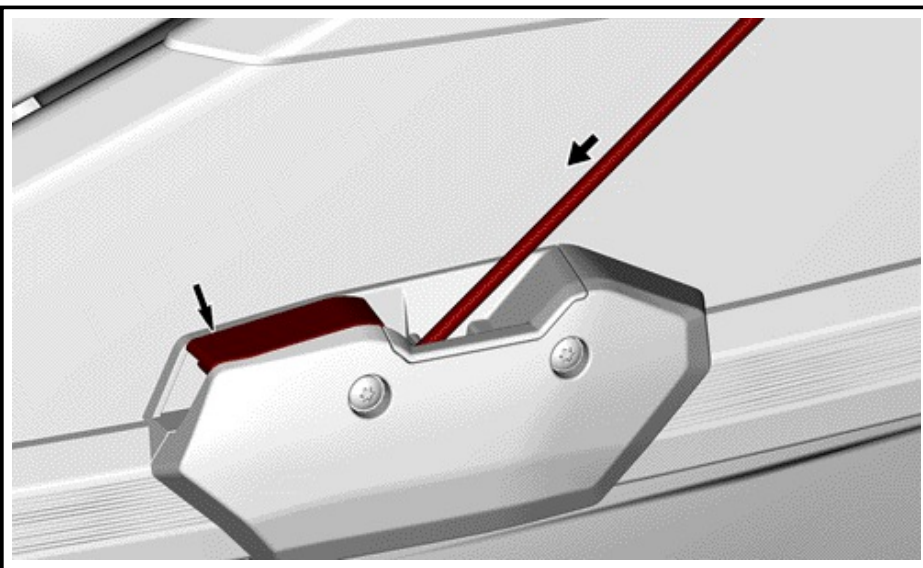
**NOTICE** Avoid putting too much preload on the elastic as it could result in premature wear.

**NOTE:** If the cap is loose, do not try to cut the rope. Adjust it as explained above.

14. After adjusting the preload, make another knot at the end of the elastic.



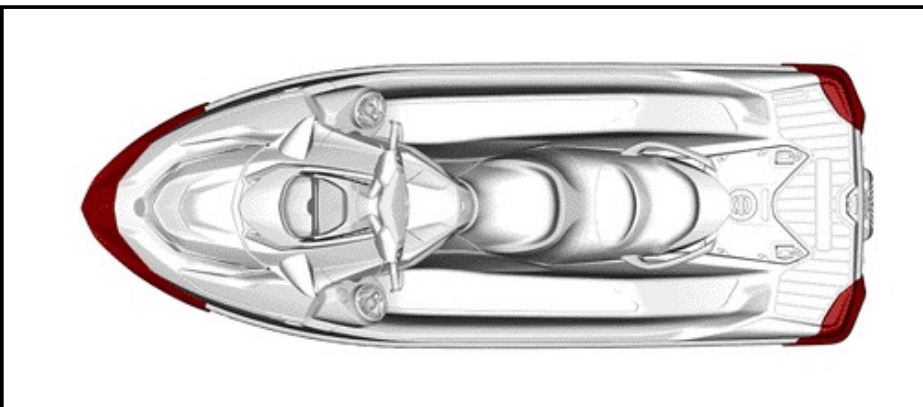
15. Pull the rope to the end and release it slightly to make sure it gets back in completely. Do it on both ropes.



**NOTE:** Never lock the lever when the rope is fully extended. Release the rope a little and then lock the lever. Never fully release the rope as the end cap could hit and damage the upper deck.

16. Adjust the preload again if needed.

17. Re-install the corner and front bumpers. Hand tighten the fasteners.



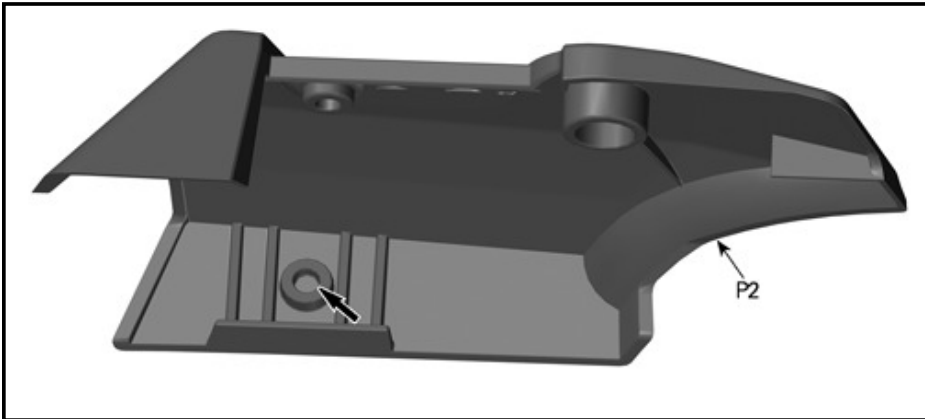
#### Tightening Torque

Corner and front bumpers fasteners

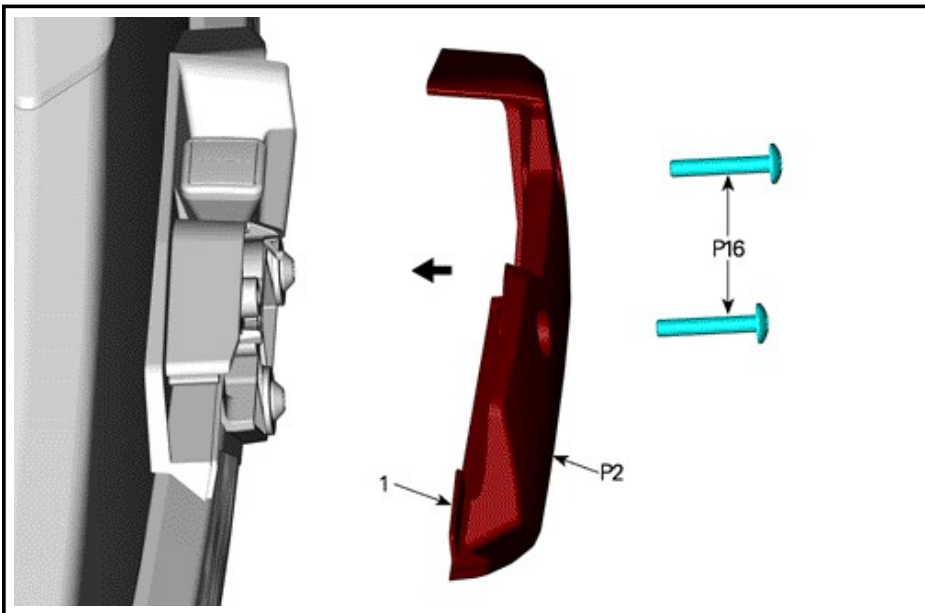
4 N•m (35 lbf•in)

**NOTE:** Do not exceed recommended torque to avoid stripping the threads.

18. If vehicle is used in a very harsh environment and/or wave jumping, drill out the rear support reinforcement [P4] with [T2] drill bit 7 mm (9/32 in) to install additional fasteners. If not, skip steps 18, 20 and 21.



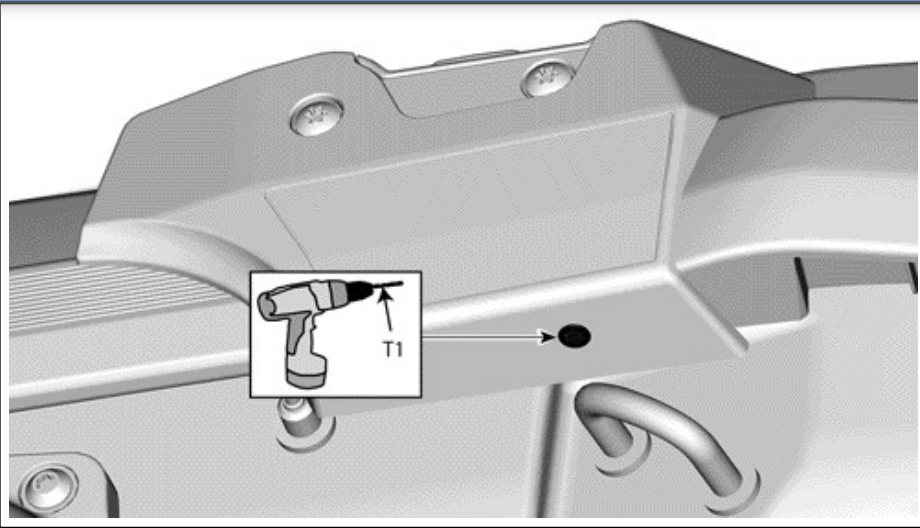
19. Install the front and rear support reinforcements [P2] and [P4] by placing the toe-in first. Secure with two (2) M6.3 X 25 Torx screw [P16] on each reinforcements.



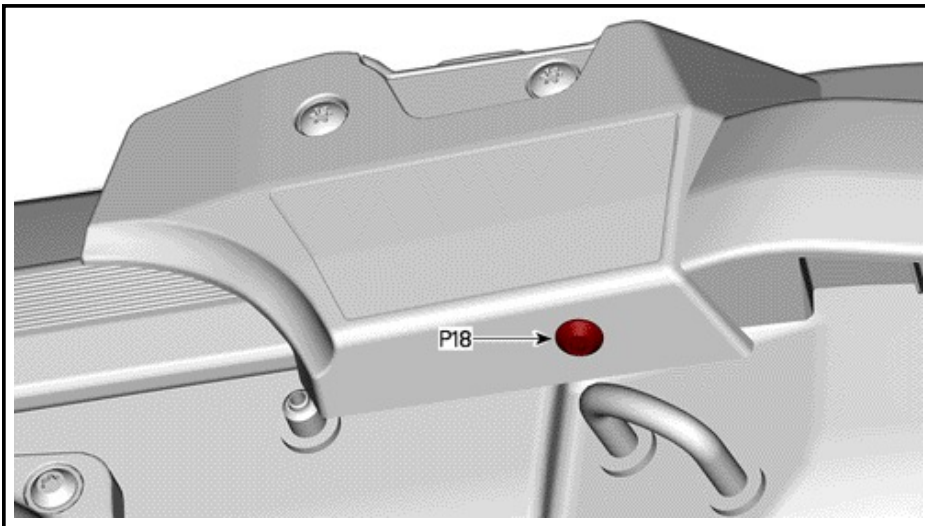
1. Toe-in

<b>Tightening Torque</b>	
M6.3 X 25 Torx screw [P16]	4.5 ± 0.5 N•m (40 ± 4 lbf•in)

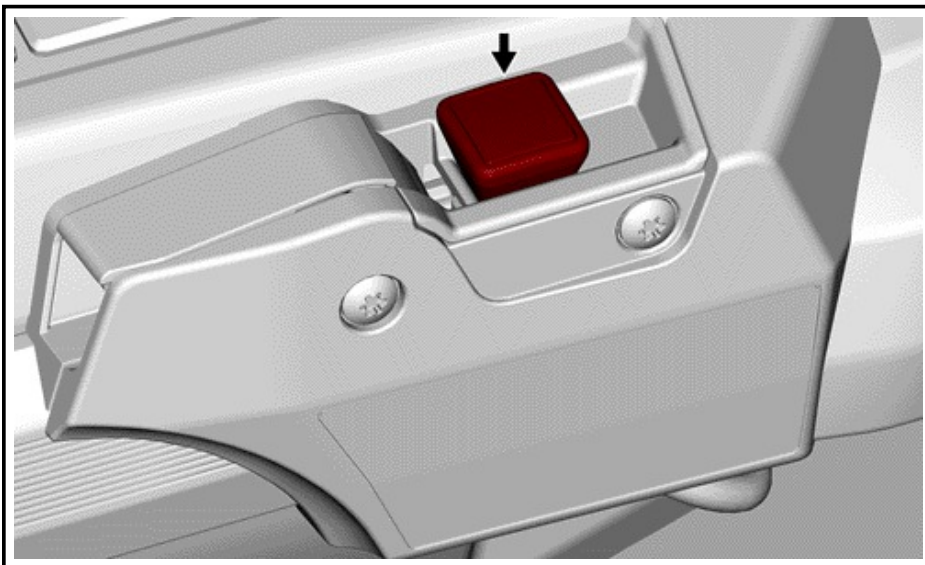
20. Use the rear support reinforcement as a template to drill a hole in the corner bumper using [T1] drill bit 5.5 mm (7/32 in).



21. Install M6.81 X 20 Torx screw [P18] through the rear support reinforcement cover and tighten it in the rear corner bumper until screw head bottoms up without any additional torque.



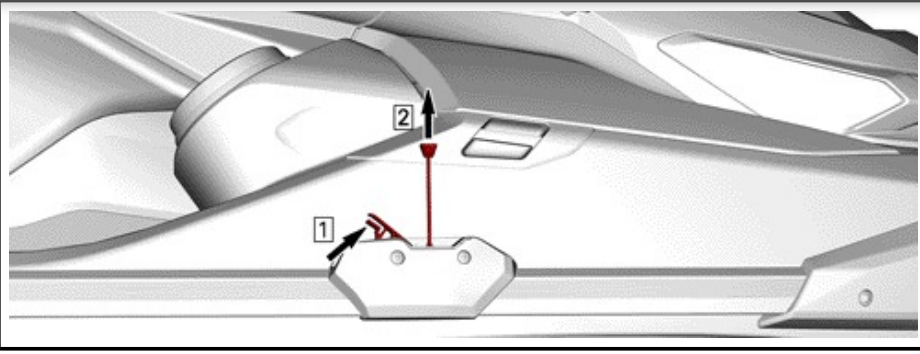
22. Push on the end cap to snap and secure it in its place.



## HOW TO USE THE SPEED-TIE

1. Use the front Speed-tie to attach the vehicle to the cleat.
2. Unlock the locking cam [P5] and pull out the front rope vertically as shown to reduce the friction.



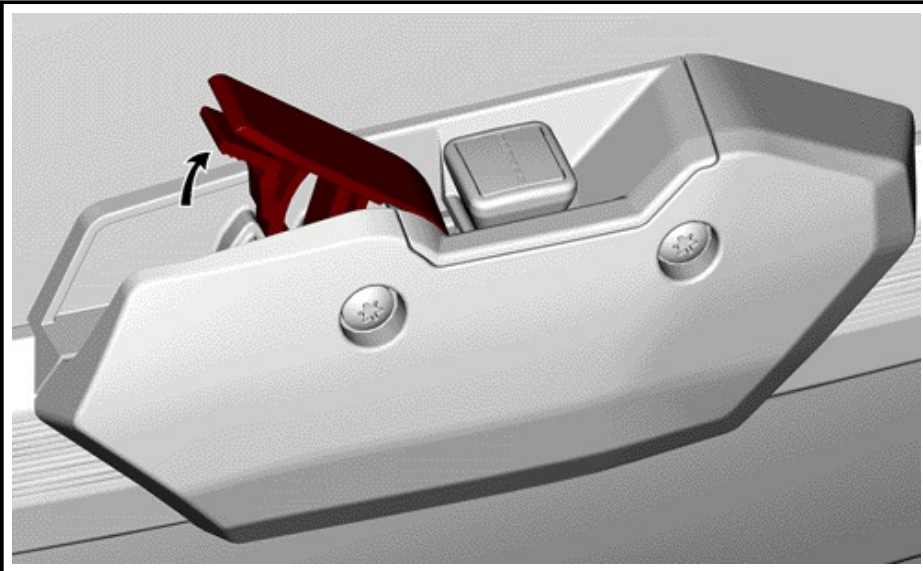


Step 1: Unlock the locking cam [P5]

Step 2: Pull on the cable end piece [P7]

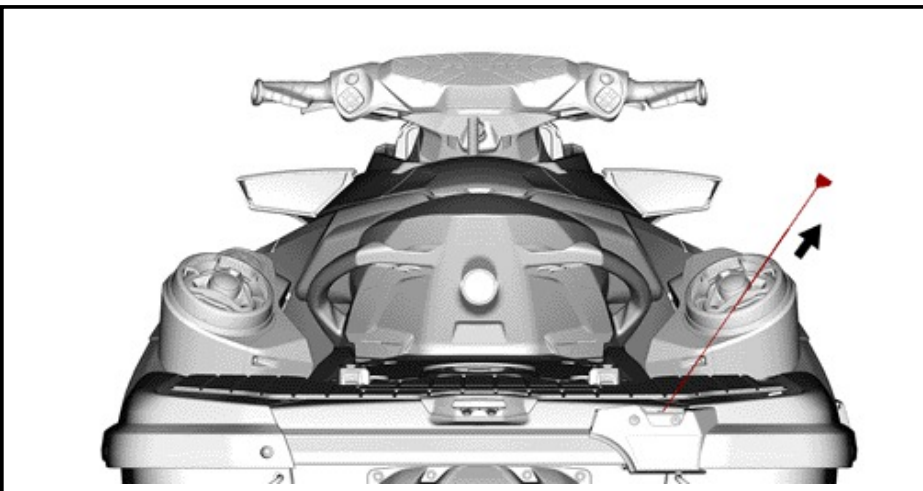
3. Once the end of the rope is reached, release it a little (50 mm (2 in)) and lock the lever.
4. Attach the rope to the dock's cleat with a cleat hitch.
5. Unlock the locking cam [P5] to approach the dock and, once close enough, lock it again.

**NOTE:** To unlock the locking cam [P5], always push on the edge shown below.

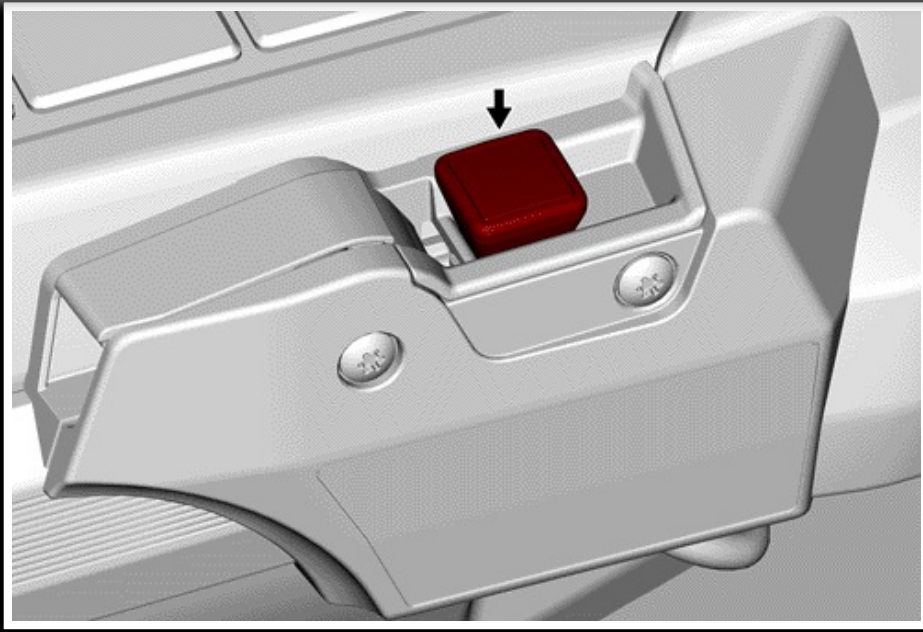


6. Repeat the previous steps to attach the rear Speed-tie.

**NOTE:** For the rear Speed-tie, it is better to pull the rope towards the dock as shown.



7. To detach the vehicle, untie the rope from the cleats, unlock the locking cam [P5] and guide the cable end piece [P8] into its place. Push on top of the cable end piece to secure it.

**⚠CAUTION:**

- Even with the use of both Speed-ties, do not leave any passenger on the vehicle or the vehicle unattended.
- If the weather conditions become harsh and possibly hazardous, do not board the vehicle while it is secured with Speed-tie alone. Ask for help before boarding the vehicle.
- It is not recommended to use the Speed-tie to secure the vehicle in bad weather conditions.

**NOTICE**

- スピードタイは常に短時間使用してください。長期間にわたって、トレーラーや適切なポートリフトなどで車両を安全に固定することをお勧めします。車両を水から保護することを常にお勧めします。
- スピードタイを使用して別のポートを曳航しないでください。
- スピードタイを使用して車両を持ち上げないでください。部分的であっても、持ち上げるための補助手段としても使用しないでください。
- ロックレバーが開いていてロープが完全に伸びているときにロープを解放しないでください。アッパーデッキやスピードタイを損傷したり、車両の周りの人を傷つけたりする可能性があります。
- エンジンを始動する前に、ロープが所定の位置に完全に収納され、キャップが所定の位置にカチッとハマっていることを確認してください。緩めたままにすると、ロープがインペラに引っかかり、車両に損傷を与える可能性があります。

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