



WARNING



Study, understand and follow all instructions provided with this product. Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible place.

INTENDED USE OF THE TOOL

The TKSH6 Spin Handle Torque Limiting Extensions are design to limit torque delivered to lug nuts when using an impact wrench. **These tools are not designed for reaching the final torque specification. Always follow use with torque wrench.** Do not use this tool outside of the designed intent. Never modify the tool for any other purpose or use.



WARNING



Caution: To help prevent personal injury

- Use of this product can expose you to chemicals including ethylene glycol, gasoline vapors and engine exhaust, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov. Always wear ANSI approved safety equipment, safety glasses and clothing when using this product. Study, understand, and follow all instructions provided with this product. Failure to read and follow all warnings and operating instructions may result in damages and serious injury or death.
- Always wear ANSI approved goggles when using this product. (Users and by standers).
- Never use this tool for any application other than for which it was designed.
- Only use accessories designed for this tool.
- Never alter or modify this tool in any way.
- Improper operation and/or maintenance of the tool, modification of the tool, or use of the tool with accessories not designed for it could result in serious injury or death.
- Always select the correct accessories of the correct size and design for the job that you are attempting to perform.
- Always work in a clean, safe, well-lit, organized and adequately equipped area.
- Do not begin repairs without assurance that vehicle is in secure position, and will not move during repair.

1 YEAR LIMITED WARRANTY

The manufacturer warrants this product to the original user against defective material or workmanship for a period of 1 year from the date of purchase.

The manufacturer reserves the right to determine whether the part or parts failed because of defective material, workmanship or other causes. Failures caused by accident, alteration, or misuse are not covered by this warranty.

The manufacturer, at its discretion, will repair or replace product covered under this warranty free of charge. Repairs or replacements of products covered under this warranty are warranted for the remainder of the original warranty period.

The manufacturer or its authorized service representatives must perform all warranty repairs. Any repair to the product by unauthorized service representatives voids this warranty. The rights under this warranty are limited to the original user and may not be transferred to subsequent owners.

The warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations may not apply to you.

BEFORE USE

When unpacking, check the parts diagram and part number listing on page 7 to make sure all parts are included. If any parts are missing or damaged, please call your distributor.

PRODUCT INFORMATION:

Innovative. Handles spin on roller bearings independently of extension for holding more naturally and performing quicker.

Wide application range. Six-piece set covers just over 95% of vehicles on the road.

Lightweight. Unlike most limiting extensions, the TKSH6 are made from durable CRO-MO allowing them to stay lightweight even with added features.

Because the purpose of these tools is to limit torque, some extensions can be used for other applications within 5 ft. lbs. *above* their rating.

- 70: Use on 70 ft. lbs
- 80: Use on 80 ft. lbs.
- 90: Use on 90 ft. lbs. & 95 ft. lbs.
- 100: Use on 100 ft. lbs. & 105 ft. lbs.
- 120: Use on 120 ft. lbs. & 125 ft. lbs.
- 140: Use on 140 ft. lbs.

Always calibrate (page 2) before use.

ALWAYS USE A TORQUE WRENCH AFTER USE TO REACH FINAL TORQUE SPEC.



Made in Taiwan to Matco specifications

DO NOT DISCARD – GIVE TO USER

TKSH6 TORQUE LEVELS WITH YOUR IMPACT

<p>Explanation</p>	<p>The TKSH6 Spin Handle Torque Limiting Extension Set is calibrated from the factory and therefore it is static. Because the torque level is determined when machined, it cannot change and the user must calibrate how they use, and what they use with the extensions below to obtain the desired torque level.</p>
<p>1. Torque</p>	<p>Use a torque wrench with the adapter to torque a lug nut to the level you wish to limit torque to. Mark with chalk or a paint pen on the lug nut and the face of the hub or wheel at the same location. Remove the lug nut with a breaker bar. Select the TKSH6 extension whose rating matches closest to the level you torqued the lug nut to. Install your impact socket and attach to your impact gun.</p>
<p>2. Test</p>	<p>Set your impact to the middle power level and install the lug nut on with the torque limiting extension until it appears to stop rotating (usually 1-2 seconds). Visually check if the marks on the lug nut and hub or wheel face align. If the mark is not rotated far enough, remove the lug nut, increase the power level and perform the test again until the power level of your impact reliability hits the mark you made. If the mark rotates too far do the opposite. Once determined, always use this air pressure and power setting.</p>
<p>3. Adjust</p>	<p>If in the less common instance that your impact gun at its lowest power setting is too high, or at the highest power setting too low, and you are still unable to align your test marks closely enough and adjusting air pressure supply is not an option consider these solutions:</p> <ul style="list-style-type: none"> A) Modify the mass of your extension. This can be done by choosing a different impact socket, for instance deep vs. shallow. More mass will increase the calibration torque level of the whole tool. B) Use a different impact gun if available. Power level has some effect, but IPM (impact per minute) is the primary determinant of how close the extension will perform to its stated value from the factory. An impact gun with a higher IPM will not allow a torque limiting extension to rotate back and fight against the impact gun. C) Ensure you are not over impacting the extension (i.e longer than around 2 seconds).
<p>4. Select</p>	<p>Depending on the impact gun and/or socket you need to use to get the job done on a daily basis, if the torque range you wish to hit is still not obtainable, you may need to use a different torque extension from the set. For instance, if through testing you determine your 90 ft. lb. stick is always 10 ft. lbs. low with your set-up it would not be uncommon to need to use the 100 ft. lb. extension from then on, as long as the results are consistent. Consistent repeatable results are the intention of the product in order to ensure it does not go over a certain value. Reaching specific torque values is meant to be done with a torque wrench.</p>
<p>5. Always Finish With A Torque Wrench</p>	<p>As mentioned above, this set is designed solely to LIMIT torque. It is not designed to hit a specific torque range of your choosing, this task should always be done with a torque wrench. For example, if you're wishing to torque a vehicle's lug nuts to 100 ft. lbs., the 80 or 90 ft. lbs. extension might be a good choice to quickly install the wheels on the car and ensure in doing so, you will not exceed the recommended torque level. Once the car is on the ground, torque the lug nuts to the final 100 ft. lbs. with a calibrated torque wrench.</p> <p>Using this tool as the only method to fasten bolts and nuts with a required torque value is not recommended and the user does so at their own risk.</p>

⚠️ ADVERTENCIA ⚠️

Estudie, entienda y siga todas las instrucciones que se proveen con este producto. Lea las instrucciones detenidamente antes de instalar, operar, dar servicio o reparar esta herramienta. Guarde estas instrucciones en un lugar seguro y accesible.

EL USO DE LA HERRAMIETA

The TKSH6 Spin Handle Torque Limiting Extensions are design to limit torque delivered to lug nuts when using an impact wrench. **These tools are not designed for reaching the final torque specification. Always follow use with torque wrench. (IN SPANISH)** No utilice esta herramienta para otra cosa fuera de la intención de su diseño. Nunca modifique la herramienta para cualquier otro propósito o uso.

⚠️ ADVERTENCIA ⚠️

Precaución: Para ayudar a evitar lesiones a las personas

- El uso de este producto puede exponerlo a productos químicos que incluyen etilenglicol, vapores de gasolina y gases de escape del motor, que en el estado de California son causantes de cáncer, defectos de nacimiento o daños reproductivos. Para obtener más información, visite www.P65Warnings.ca.gov. Siempre use equipo de seguridad aprobado por ANSI, gafas de seguridad y ropa cuando use este producto. Estudie, comprenda y siga todas las instrucciones proporcionadas con este producto. Si no lee y sigue todas las advertencias e instrucciones de funcionamiento puede ocasionar daños y lesiones graves o la muerte.
- Siempre use guantes del tipo aprobado por la ANSI para trabajar con esta herramienta. (tanto usuarios como espectadores).
- Nunca utilice esta herramienta para cualquier otra cosa que no sean las aplicaciones para lo que fue diseñada.
- Sólo utilice los accesorios diseñados para esta herramienta.
- No modifique o altere esta herramienta de ninguna manera.
- El funcionamiento y/o mantenimiento inadecuado de la herramienta, la modificación, o la utilización de la herramienta con accesorios inadecuados podrían causar lesiones graves o la muerte.
- Siempre usar los correctos accesorios para el trabajo que Ud. está realizando.
- Trabaje siempre en un área limpia, segura, bien iluminada, organizada y equipada adecuadamente.
- No iniciar reparaciones sin tener la absoluta certeza de que el vehículo está en posición segura, y de que no se moverá durante la reparación.



HECHO en Taiwan para Matco especificaciones

NO LO DESCARTE O DESECHE, ENTREGUELO AL USUARIO

GARANTÍA LIMITADA DE UN AÑO

El fabricante garantiza este producto al usuario original contra defectos de materiales o de mano de obra durante un periodo de un año a partir de la fecha de compra.

El fabricante se reserva el derecho a determinar si una pieza o piezas fallaron debido a material defectuoso, mano de obra, o por otras causas. Esta garantía no cubre fallas causadas por accidentes, alteraciones o uso indebido.

El fabricante, a su entera discreción, reparará o reemplazará los productos cubiertos por esta garantía sin costo alguno. Las reparaciones o reemplazos de productos cubiertos por esta garantía quedan garantizados durante el resto del periodo original de garantía.

El fabricante o sus representantes autorizados de servicio deben llevar a cabo todas las reparaciones de garantía. Toda reparación hecha al producto por representantes de servicio no autorizados invalida la presente garantía.

Los derechos que ampara esta garantía están limitados al usuario original y no se pueden transferir a dueños posteriores. Esta garantía reemplaza a todas las demás garantías expresas o implícitas, incluyendo garantías de comercialización e idoneidad para un propósito particular. Algunos estados no permiten la exclusión o limitaciones de daños incidentales o imprevistos, de manera que las limitaciones mencionadas anteriormente pueden no ser aplicables en su caso.

DESEMPACADO

Cuando desempaque el producto, revise el diagrama y la lista de piezas en página 7 para verificar que se hayan enviado todas las piezas. De perder piezas o tener piezas dañadas, favor llamar a su distribuidor inmediatamente.

INFORMACIÓN DEL PRODUCTO:

Innovative. Handles spin on roller bearings independently of extension for holding more naturally and performing quicker.

Wide application range. Six-piece set covers just over 95% of vehicles on the road.

Lightweight. Unlike most limiting extensions, the TKSH6 are made from durable CRO-MO allowing them to stay lightweight even with added features.

Because the purpose of these tools is to limit torque, some extensions can be used for other applications within 5 ft. lbs. above their rating.

70: Use on 70 ft. lbs

80: Use on 80 ft. lbs.

90: Use on 90 ft. lbs. & 95 ft. lbs.

100: Use on 100 ft. lbs. & 105 ft. lbs.

120: Use on 120 ft. lbs. & 125 ft. lbs.

140: Use on 140 ft. lbs.

Always calibrate (page 2) before use.

ALWAYS USE A TORQUE WRENCH AFTER USE TO REACH FINAL TORQUE SPEC.

(IN SPANISH)

TKSH6 TORQUE LEVELS WITH YOUR IMPACT

Explanation	The TKSH6 Spin Handle Torque Limiting Extension Set is calibrated from the factory and therefore it is static. Because the torque level is determined when machined, it cannot change and the user must calibrate how they use, and what they use with the extensions below to obtain the desired torque level.
1.Torque	Use a torque wrench with the adapter to torque a lug nut to the level you wish to limit torque to. Mark with chalk or a paint pen on the lug nut and the face of the hub or wheel at the same location. Remove the lug nut with a breaker bar. Select the TKSH6 extension whose rating matches closest to the level you torqued the lug nut to. Install your impact socket and attach to your impact gun.
2. Test	Set your impact to the middle power level and install the lug nut on with the torque limiting extension until it appears to stop rotating (usually 1-2 seconds). Visually check if the marks on the lug nut and hub or wheel face align. If the mark is not rotated far enough, remove the lug nut, increase the power level and perform the test again until the power level of your impact reliability hits the mark you made. If the mark rotates too far do the opposite. Once determined, always use this air pressure and power setting.
3. Adjust	<p>If in the less common instance that your impact gun at its lowest power setting is too high, or at the highest power setting too low, and you are still unable to align your test marks closely enough and adjusting air pressure supply is not an option consider these solutions:</p> <ul style="list-style-type: none"> A) Modify the mass of your extension. This can be done by choosing a different impact socket, for instance deep vs. shallow. More mass will increase the calibration torque level of the whole tool. B) Use a different impact gun if available. Power level has some effect, but IPM (impact per minute) is the primary determinant of how close the extension will perform to its stated value from the factory. An impact gun with a higher IPM will not allow a torque limiting extension to rotate back and fight against the impact gun. C) Ensure you are not over impacting the extension (i.e longer than around 2 seconds).
4. Select	Depending on the impact gun and/or socket you need to use to get the job done on a daily basis, if the torque range you wish to hit is still not obtainable, you may need to use a different torque extension from the set. For instance, if through testing you determine your 90 ft. lb. stick is always 10 ft. lbs. low with your set-up it would not be uncommon to need to use the 100 ft. lb. extension from then on, as long as the results are consistent. Consistent repeatable results are the intention of the product in order to ensure it does not go over a certain value. Reaching specific torque values is meant to be done with a torque wrench.
5. Always Finish With A Torque Wrench	As mentioned above, this set is designed solely to LIMIT torque. It is not designed to hit a specific torque range of your choosing, this task should always be done with a torque wrench. For example, if you're wishing to torque a vehicle's lug nuts to 100 ft. lbs., the 80 or 90 ft. lbs. extension might be a good choice to quickly install the wheels on the car and ensure in doing so, you will not exceed the recommended torque level. Once the car is on the ground, torque the lug nuts to the final 100 ft. lbs. with a calibrated torque wrench. Using this tool as the only method to fasten bolts and nuts with a required torque value is not recommended and the user does so at their own risk.

(IN SPANISH)

⚠ AVERTISSEMENT ⚠

Etudier, comprendre et suivre toutes les instructions fournies avec ce produit. Lire ces instructions attentivement avant d'installer, d'utiliser, d'entretenir et de réparer cet outil. Conserver ces instructions dans un endroit sécuritaire et accessible.

UTILISATION PRÉVUE DE L'OUTIL

The TKSH6 Spin Handle Torque Limiting Extensions are design to limit torque delivered to lug nuts when using an impact wrench. **These tools are not designed for reaching the final torque specification. Always follow use with torque wrench.** (IN FRENCH) Ne pas utiliser cet outil en dehors de l'intention conçue. Ne jamais modifier l'outil à d'autres fins ou d'utilisation.

⚠ AVERTISSEMENT ⚠

Mise en garde: Pour aider à prévenir les blessures

- L'utilisation de ce produit peut vous exposer à des produits chimiques, notamment l'éthylène glycol, les vapeurs d'essence et les gaz d'échappement des moteurs, qui sont reconnus par l'État de Californie pour causer le cancer, des anomalies congénitales ou des problèmes de reproduction. Pour plus d'informations, visitez www.P65Warnings.ca.gov. Toujours porter un équipement de sécurité, des lunettes de sécurité et des vêtements homologués ANSI lors de l'utilisation de ce produit. Étudier, comprendre et suivre toutes les instructions fournies avec ce produit. Ne pas lire et suivre tous les avertissements et instructions d'utilisation peut entraîner.
- Toujours porter des lunettes à coques approuvées par l'ANSI lorsque vous utilisez ce produit. (Utilisateurs et Spectateurs).
- Ne jamais utiliser cet outil pour aucune application qui n'est pas conçue.
- Seulement utiliser les accessoires conçus pour cet outil.
- Ne jamais modifier cet outil.
- Le fonctionnement et/ou l'entretien incorrect de cet outil, la modification de cet outil, ou l'utilisation de cet outil avec les accessoires non conçus pour lui devrait causer des blessures graves ou la mort.
- Toujours utiliser les accessoires adéquats pour le travail que vous effectuez.
- Toujours travailler dans un environnement propre, sécuritaire, bien éclairé, organisé et suffisamment équipé.
- Ne pas commencer les réparations sans assurance que le véhicule est en position de sécurité, et ne se déplace pas lors de la réparation.



Fabriqué à Taiwan
les spécifications de Matco

NE PAS JETER-DONNER À L'UTILISATEUR

1 ANNÉE DE GARANTIE LIMITÉE

Le fabricant garantit à l'acheteur initial que ce produit est exempt de tout vice de matériau et de fabrication pendant une période de une année suivant la date de l'achat.

Le fabricant se réserve le droit de déterminer si la pièce ou les pièces défectueuses sont imputables à un matériau défectueux, à un défaut de fabrication ou à d'autres causes. Les défaillances causées par un accident, une modification ou une utilisation incorrecte ne sont pas couvertes par la présente garantie.

Le fabricant, à sa seule discrétion, réparera ou remplacera sans frais les produits couverts par cette garantie. Les réparations ou les remplacements de produits couverts par cette garantie sont garantis pour le reste de la période de garantie initiale.

Le fabricant ou ses représentants de service autorisés doivent exécuter les réparations sous garantie. Toute réparation du produit effectuée par un représentant de service non- autorisé annulera cette garantie. Les droits couverts par cette garantie sont limités à l'acheteur initial et ne peuvent être transférés aux propriétaires subséquents.

Cette garantie remplace toutes autres garanties, expresses ou implicites, incluant les garanties de valeur marchande ou d'adaptation à un usage particulier. Certains États ou provinces ne permettent pas d'exclure ou de limiter les dommages consécutifs ou indirects, donc les limitations ci-dessus pourraient ne pas s'appliquer.

DÉBALLAGE

Lors du déballage, vérifier que les pièces contenues dans le schéma et la liste des numéros de pièces de la page 7 sont toutes incluses. Si une pièce est manquante ou abîmée, veuillez appeler immédiatement votre distributeur.

INFORMATIONS PRODUIT:

Innovative. Handles spin on roller bearings independently of extension for holding more naturally and performing quicker.

Wide application range. Six-piece set covers just over 95% of vehicles on the road.

Lightweight. Unlike most limiting extensions, the TKSH6 are made from durable CRO-MO allowing them to stay lightweight even with added features.

Because the purpose of these tools is to limit torque, some extensions can be used for other applications within 5 ft. lbs. above their rating.

70: Use on 70 ft. lbs

80: Use on 80 ft. lbs.

90: Use on 90 ft. lbs. & 95 ft. lbs.

100: Use on 100 ft. lbs. & 105 ft. lbs.

120: Use on 120 ft. lbs. & 125 ft. lbs.

140: Use on 140 ft. lbs.

Always calibrate (page 2) before use.

ALWAYS USE A TORQUE WRENCH AFTER USE TO REACH FINAL TORQUE SPEC.

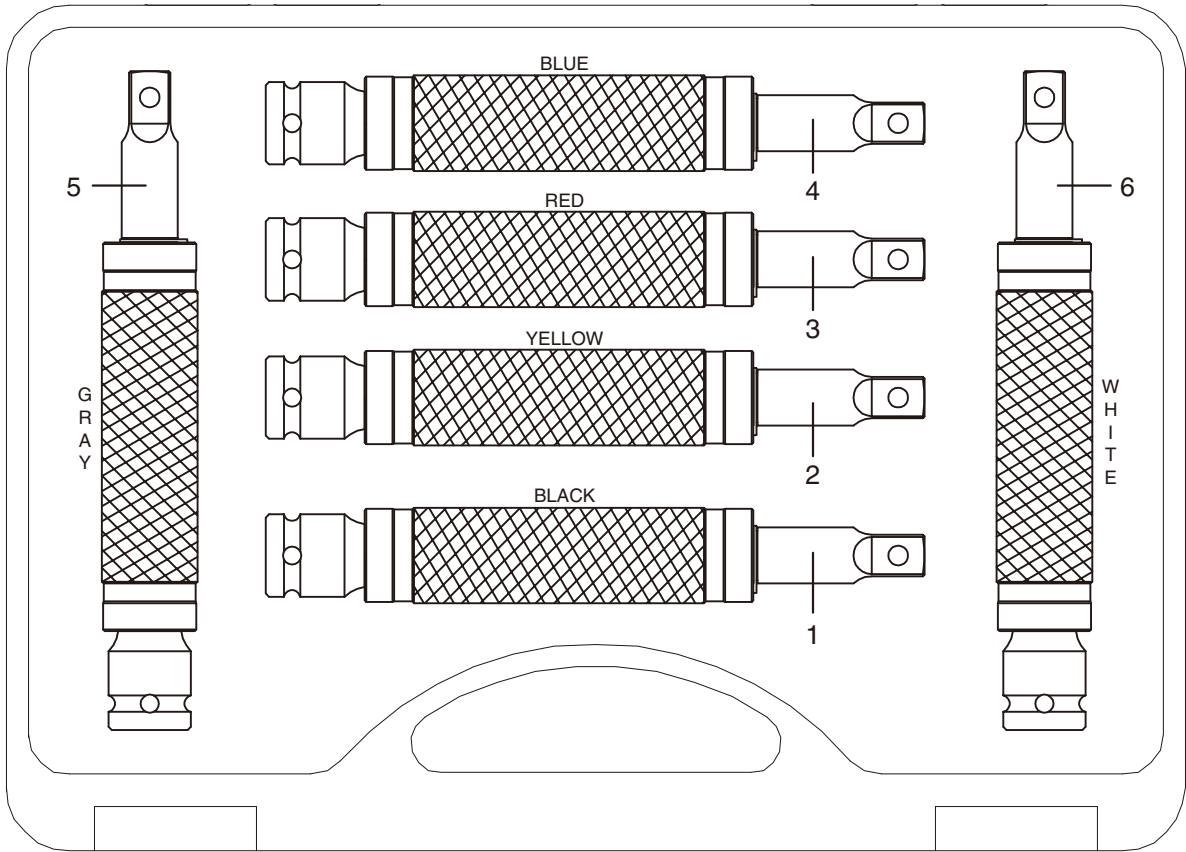
(IN FRENCH)

TKSH6 TORQUE LEVELS WITH YOUR IMPACT

Explanation	The TKSH6 Spin Handle Torque Limiting Extension Set is calibrated from the factory and therefore it is static. Because the torque level is determined when machined, it cannot change and the user must calibrate how they use, and what they use with the extensions below to obtain the desired torque level.
1.Torque	Use a torque wrench with the adapter to torque a lug nut to the level you wish to limit torque to. Mark with chalk or a paint pen on the lug nut and the face of the hub or wheel at the same location. Remove the lug nut with a breaker bar. Select the TKSH6 extension whose rating matches closest to the level you torqued the lug nut to. Install your impact socket and attach to your impact gun.
2. Test	Set your impact to the middle power level and install the lug nut on with the torque limiting extension until it appears to stop rotating (usually 1-2 seconds). Visually check if the marks on the lug nut and hub or wheel face align. If the mark is not rotated far enough, remove the lug nut, increase the power level and perform the test again until the power level of your impact reliability hits the mark you made. If the mark rotates too far do the opposite. Once determined, always use this air pressure and power setting.
3. Adjust	<p>If in the less common instance that your impact gun at its lowest power setting is too high, or at the highest power setting too low, and you are still unable to align your test marks closely enough and adjusting air pressure supply is not an option consider these solutions:</p> <ul style="list-style-type: none"> A) Modify the mass of your extension. This can be done by choosing a different impact socket, for instance deep vs. shallow. More mass will increase the calibration torque level of the whole tool. B) Use a different impact gun if available. Power level has some effect, but IPM (impact per minute) is the primary determinant of how close the extension will perform to its stated value from the factory. An impact gun with a higher IPM will not allow a torque limiting extension to rotate back and fight against the impact gun. C) Ensure you are not over impacting the extension (i.e longer than around 2 seconds).
4. Select	Depending on the impact gun and/or socket you need to use to get the job done on a daily basis, if the torque range you wish to hit is still not obtainable, you may need to use a different torque extension from the set. For instance, if through testing you determine your 90 ft. lb. stick is always 10 ft. lbs. low with your set-up it would not be uncommon to need to use the 100 ft. lb. extension from then on, as long as the results are consistent. Consistent repeatable results are the intention of the product in order to ensure it does not go over a certain value. Reaching specific torque values is meant to be done with a torque wrench.
5. Always Finish With A Torque Wrench	As mentioned above, this set is designed solely to LIMIT torque. It is not designed to hit a specific torque range of your choosing, this task should always be done with a torque wrench. For example, if you're wishing to torque a vehicle's lug nuts to 100 ft. lbs., the 80 or 90 ft. lbs. extension might be a good choice to quickly install the wheels on the car and ensure in doing so, you will not exceed the recommended torque level. Once the car is on the ground, torque the lug nuts to the final 100 ft. lbs. with a calibrated torque wrench. Using this tool as the only method to fasten bolts and nuts with a required torque value is not recommended and the user does so at their own risk.

(IN FRENCH)

PARTS BREAKDOWN



Parts List

<i>Index No.</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty</i>
1	TKSH6-01	75 ft. lbs. Spin Torque Extension	1
2	TKSH6-02	80 ft. lbs. Spin Torque Extension	1
3	TKSH6-03	90 ft. lbs. Spin Torque Extension	1
4	TKSH6-04	100 ft. lbs. Spin Torque Extension	1
5	TKSH6-05	120 ft. lbs. Spin Torque Extension	1
6	TKSH6-06	140 ft. lbs. Spin Torque Extension	1