



MODEL:
TLS788

Product Type:
**10 PIECE TORQUE LIMITING
EXTENSION BAR SET**



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

These Torque Limiting Extension Bars are designed to quickly attach wheels while limiting torque. **NOT TO PERFORM THE FINAL INSTALLATION OF WHEELS. A TORQUE WRENCH IS REQUIRED TO TORQUE WHEELS TO THEIR SPECIFICATION.**



WARNING



Caution: To help prevent personal injury

- Use of this product can expose you to chemicals such as phthalates which are known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product. 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 bystanders).
- 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.

10 PIECE TORQUE LIMITING EXTENSION BAR SET



MADE IN TAIWAN



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.

Unpacking

When unpacking, check the parts diagram and part number listing on page 3 to make sure all parts are included. If any parts are missing or damaged, please call your distributor.

PRODUCT INFORMATION:

- Quickly mount wheels to the vehicle while limiting torque
- Increase efficiency and eliminate damage caused by impact wrenches.
- No maintenance or calibration necessary.
- Color coded.
- Material: CR-MO with matt finish.
- Set Includes the following 1/2" Drive /8" Torque Limiting Extension Bars:

65ft/lbs (90Nm)	110ft/lbs (150Nm)
75ft/lbs (100Nm)	120ft/lbs (160Nm)
80ft/lbs (110Nm)	130ft/lbs (175Nm)
90ft/lbs (120Nm)	140ft/lbs (190Nm)
100ft/lbs (135Nm)	150ft/lbs (200Nm)

USE A TORQUE WRENCH TO TORQUE LUG NUTS TO FINAL SPECIFICATION,
DO NOT USE THIS TOOL BY ITSELF !

DO NOT DISCARD – GIVE TO USER



MODELO:
TLS788

Tipo de producto:
**JUEGO DE EXTENSIONES CON
LIMITE DE ENROSCADO DE 10 PIEZA**

⚠ 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

Estas barras de extensión limitadoras de torque están diseñadas para Fije rápidamente las ruedas mientras limita el torque. **NO A REALICE LA INSTALACIÓN FINAL DE RUEDAS. UNA LLAVE DE TORQUE ES REQUERIDA PARA PAR RUEDAS A SU ESPECIFICACIÓN.**

⚠ ADVERTENCIA ⚠

Precaución: Para ayudar a evitar lesiones a las personas

- El uso de este producto puede exponerlo a sustancias químicas dañinas como los folatos que son conocidos en el estado de California por causar cáncer y defectos de nacimiento u otros daños reproductivos. Para obtener más información, visite www.P65Warnings.ca.gov/product. 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.
- NUNCA empiece reparaciones sin estar seguro de que el vehículo esté en posición segura y que no se mueva durante la reparación.

**JUEGO DE
EXTENSIONES CON
LIMITE DE
ENROSCADO DE
10 PIEZA**



HECHO A TAIWAN



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 3 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:

- Monte rápidamente las ruedas en el vehículo mientras limita el torque
- Aumenta la eficiencia y elimina los daños que puedan ser causados por las llaves de impacto
- No necesitan mantenimiento ni calibración
- Código de colores
- Material: CR-MO con acabado mate.
- El juego incluye las siguientes extensiones con limite de enroscado de 1/2" de manejo a 8"

65ft/lbs (90Nm)	110ft/lbs (150Nm)
75ft/lbs (100Nm)	120ft/lbs (160Nm)
80ft/lbs (110Nm)	130ft/lbs (175Nm)
90ft/lbs (120Nm)	140ft/lbs (190Nm)
100ft/lbs (135Nm)	150ft/lbs (200Nm)

UTILICE UNA LLAVE DE TORSIÓN PARA TOMAR LAS TUERCAS DE TORQUE PARA FINALIZAR ESPECIFICACIÓN.

NO USE ESTA HERRAMIENTA POR SI MISMO !

NO LO DESCARTE O DESECHE, ENTREGUELO AL USUARIO



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TLS788 TORQUE LEVELS WITH YOUR IMPACT

Explanation	The TLS788 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. Therefore the user must calibrate how they use and what they use with the extensions as below to obtain the desired torque level.
Torque	Use a torque wrench to torque a lug nut to the level you wish to limit torque to with the adapter. 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 TLS788 extension whose rating matches closest to the level you torqued the lug nut to. Install your impact socket and attach to your impact gun.
Test	Set your impact to the middle power level and impact the lug nut on with the torque limiting extension until it appears to stop rotating (usually 1-3 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.
Adjust	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. 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 as successfully. C) Ensure you are not over impacting the extension (i.e longer than around 3 seconds)
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 100ft/lb stick is always 10ft/lbs low with your set-up it would not be uncommon to need to use the 110ft/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, not specific torque levels (which should be set with a torque wrench).
Always Finish W/ 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 100ft/lbs, the 80 or 90ft/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. Then once the car is on the ground, torque the lug nuts to the final 100ft/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.



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Parts List

<i>Index</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty</i>
1	TLS788-01	65Ft/lbs (90Nm) - Green	1
2	TLS788-02	75Ft/lbs (100Nm) - Black	1
3	TLS788-03	80Ft/lbs (110Nm) - Yellow	1
4	TLS788-04	90Ft/lbs (120Nm) - Red	1
5	TLS788-05	100Ft/lbs (135Nm) - Blue	1
6	TLS788-06	110Ft/lbs (150Nm) - Orange	1
7	TLS788-07	120Ft/lbs (160Nm) - Gray	1
8	TLS788-08	130Ft/lbs (175Nm) - Purple	1
9	TLS788-09	140Ft/lbs (190Nm) - White	1
10	TLS788-10	150Ft/lbs (200Nm) - Light Green	1