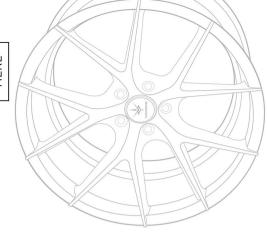
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# e Union International, II I State Street tclair, CA 91763 Sti ap Trade Unior 4651 State Montclair, O

#### WHEEL INDUSTRY COUNCIL - General Aftermarket Wheel Installation Guidelines

BALANCING WHEELS

meets the mounting surface of the vehicle. A good it is one where the ring is snug against the diameter of the hub and flush against the mounting surface of the vehicle. 2. Verify that the centering ring fits correctly onto the wheel.

A good fit is when the ring can be easily pushed by hand crifs the back of the uheel and the ring is amy against the walls of the center hale of the wheel. When fully pushed

in, the surface of the hub ring should be flush with or just

slightly halow the recenting surface of the wheel. The hull

signity below the mounting surface of the wheel. The hub ring must not protrude beyond the mounting surface of

3. To install the centering ring, place the ring into the center

then attach the assembly to the vehicle. (See below)

1. Clean and inspect all stud throads and mounting surfa-

WHEEL INSTALLATION

Clean and inspect all stud threads and mounting surfaces before installation. THREADS MUST NOT BE LUBRICATED, but must be free of corrosion, rust, burns,

inachines and demonard throads. Bonlane sharts if they are

reactives and contraged tension, religious trains in they are corroded, stripped, damaged, or if any fractures are found. Always use now fasteners (sig nuts or lag boils) when installing new wheels. 2. Be obtain the fasteners are correct for the application, it is

critical that the footener matches the threat diameter

critical that the issuerier misches the intests diameter, pitch and seat; otherwise the installation improper, and may result in domage and could cause a dangerous condition. The beain types of fasteners are:

conical seat 50" taper "acorn" and "bulge"), mag o

shank style, and spherical or ball seat. Shown below is a drawing of each type in its proper application. Throad diameter\* rofers to the diameter of the stud

"Thread nitrh" for non-matrix annivations rates to the

runter of throads per instrict metric applications reters to the

ONLY USE THE TYPE OF FASTENER COMPATIBLE WITH

THE TYPE OF SEAT. Nover use a conical seat fastener or

a mag or shank type seat. Spherical or ball seat fasteners

a mag or shark type soat, opnerical or ball seat tationers must be used with spherical or ball seats. Never use a mag or shark type fastener on a corrical seat. The

different types are not compatible and, if installed

incorrectly, the fastener may lose torque, possibly

When placing the wheel on the studs, there may be an

WARNING Check thread engagement. Every stud or bolt must be long enough to thread a length at least equal to the stud or bolt diameter. For example, a 172" thread diameter.

must thread into the lug nut at least 1/2". Check for this problem on every stud; some may be different length Less than one stud thread diameter engagement

unsafe and will cause loss of torque. IF YOU DO NOT HAVE PROPER THREAD ENGAGEMENT, DO NOT

measured at the outer edges of the threads.

DISCLAIMER: The information gathered for this poster is believed to be reliable. Every attempt has been made to assure the annuality of this information but installation contains can occur. You must test fit each wheel before mounting tires to ensure clearance with suspension and braking components. It is your responsibility to double-check all lead ratings, offsets and cleanance before installation. Neither the Wheel Indust-Council nor its affiliates are responsible for installation errors the information compiled for this poster.

## INSTALLATION INSTRUCTIONS

READ THE OWNER'S MANUAL AND THE FOLLOWING INSTALLATION GUIDELINES AND WARNINGS BEFORE INSTALLING WHEELS Enlarge to comply with those warnings could cause an upsafe condition and result in

#### MAXIMUM LOAD RATING & MAXIMUM TIRE DIAMETER

he load rating of a wheel as determined by the who manufacturer's literature, must never be exceeded. If such a load rating is not available. THE WHEEL SHOULD NOT BE USED ON THE VEHICLE. Wheel load rating requirement weight rating (GAWR) by 2. The axle weight rating to most verscas is shown on the sentincation suberiocated on the driver's side cloor jumb, gas tank clor, trunk lid or glove compartment. RECARCLESS OF THE TIME'S MAXIMUM LOAD RATING, DO NOT EXCEED THE MAXIMUM LOAD

EVOLEDING THE MAXIMUM LOAD DATING OR MAXIMUM TIRE DIAMETER OF THE WHEEL IS LINSAFE AND COLL D CAUSE WHEEL FAILURE

INCREASE OR DECREASE IN TIRE DIAMETER ABOVE OR BELOW THE ORIGINAL TIRE DIAMETER MAY AFFECT ROLLOVER AND HANDLING CHARACTERISTICS

MANUFACTURERS IDENTIFY A WHEEL'S MAXIMUM LOAD BATING AND TIRE DIAMETER. CHECK THE BACK OF THE WHEEL OR WITH THE WHEEL MANUFACTURER.

#### WHEEL FIT CHECK

Before mounting tires perform a wheel fit check at each wheel mounting location using the following steps: 1 Demove front wheels from subjicle 2. Wire brush the wheel mounting surface and threaded wire brash the timeel mounting surse stude on vehicle.
 Remove spring clip retainers, if applicable.

4. Hold the new custom wheel on the hub and check for a flush recent of the wheel to the recentles surface of the which mount of the wheel to the incombing ourtace of the venctor.

The back side of the wheel must not rest or touch brake drum balancing weights, any brake calipse, suspension component, rivets or other obstructions. The mounting surface of the wheel must fit flush to the vehicle's hub mounting surface. Note that removing drum balancing weights to solve wheel fitment problem can result in vehicle vibration not remedied by an off-the-car wheel balancer.

#### DOCCIDI E ODCTDI ICTIONIC TO CHECK FOR:



WARNING SPRING CLIP RETAINERS ARE OFTEN OVERLOOKED AND MUST BE REMOVED. If clips or other obstructions are not removed, they will not let the wheel slit flush against the mounting surface. This will give you a false torque mading which could cause the fasteners to terque reading which could cause the firsteners to become loces and result in loss of a wheel. Some which manufacturers do not use spring clip retainers and use nuts that hold the brake assembly together. DO NOT REMOVE THESE NUTS.

 Install three fasteners finger tight and rotate the wheel to check caliper and suspension clearance and to find bent flanges or axios.

6. Perform the same check for the remaining three whoels on the vehicle, starting in the rear.



Do not modify the wheel or use spacers or adapters to resolve clearance or fitment problems. Modification of the wheel or the use of spacers o adoptom to meetly placency as fitment problems

procautions. So mekan tim went mad noise and albertion all four wheels should be balanced dynamically.
Wheels, are checked for lateral and radial named before BEEDDE MISTALLATION, ALWAYS MAKE SLIDE leaving the factory to minimize balancing problems. If you have problems in balancing, review the instructions for wheel fit check. Some balancing problems may be remedied by deflating the tire and retating it approximately. LOCKS AND CENTER CAPS DESIGNED DECRETALLY END THE WHEEL AND ADDITION OF

160° on the rim in-inflating the tim and inhalancing CENTER CAPS: The two basic types of center caps at CENTER CAPS: The two basic types of center caps are either inserted from the back of the wheel or attached from the front. For the type inserted from the back, always make sure the flange of the cap matches the wheel's charrier and is below the mounting surface of the wheel. If the flange of the cap protrudes beyond the mounting surface HUB CENTERING RINGS to rosowing:

. Wen'ly that the inside diameter of the ring is correct by first placing the ring on the volicie hub and pushing it on the sange of the cap protrices beyond the mounting surface of the wheel, it will not let the wheel seat properly. If this nennes. If will also you a false feeting mading and the hub until it touches the base of the hub at the point it



WHEELS AND TIRES ARE CLEARLY MARKED WITH THEIR SIZES. THE WHEEL AND TIPE MUST MATCH EFORE MOUNTING.

. Mount all tires according to the tire manufacturer's an the tire machine manufacturer's recommended procedures. There are several brands and types of tire pocoduce. There are several brands and types of tre-mounting equipment available for meaning fees on mounting equipment available. The mounting fees on and contemporal machines. To avoid scrabiling or test, under sere the fee machine is properly adjusted to the contemporal machines. To avoid scrabiling or test, under sere the fee machine is properly adjusted to the series of the machine is properly adjusted to the series of the series of the series of the should be used at all trees during the should be used at all trees of the should be all should be used to the should be all the

The tire may be labeled with a color dot (painted mark or label. How is not that indicates the birth snot of the time maximum runout or the expected force variation location. This should be aligned with the wheel's low-runout spot, which may be identified with a small notch or color dot. Since labeling approaches vary, check with the wheel manufacturer's instructions for law-spot Use approved the mounting lubricant on both tire beads

and apply to bead seat area of the wheel if required.

See sarchal that the bottom head breaker on center-post changing equipment does not hit the bottom of the whoel as it travels upwards.

#### WARNING

5. Do not exceed 40 pounds of pressure when seating the ties to the head of the rim. If the boad does not seat on wheel with 40 pounds of pressure, DEPLATE, TIPM 150 degrees, RELUBRICATE and check for tire/wheel size sematch before excipilation. To not infinte the mounts iso with the contempost hold down cone or rim clamps ightened on wheel. Loosen the hold-down cone, but do not completely remove, and release the rim clamps to let

#### WARNING

Once beeds are seated, install valve core, reconnect the air chuck and continue to inflate the fire until correct pressure is reached appording to manufacturer's idation, Check the bead edges and the valve for leaks, and then install the valve cap.

NEVER STAND OVER TIRE WHEEL ASSEMBLY (THE TRAJECTORY ZONE DURING INFLATION, ALWAYS

# TIRE CLEARANCE

heel manufacturer warranties do not cover tire tiess. On some "plus" applications rubbing and scuffing may occur. The following procedures must be followed:

tree. On some "bale," expectations outloage and audition for the control of the c

#### WARNING Ralance tire/wheel assembly according to the balancing

Do not allow a langual to bettern out on the studyr a may shank or leg bolt to bottom out on the mounting surface.

This is extremely dangerous and unsafe because the clamping force of the fastener is not being applied to the wheel Check for those emblors on owns shall commay be different lengths. IF YOU FIND A PROBLEM; DO NOT INSTALL WHIFFL'S



 Never use fewer fasteners than the wheel and vehicle was designed for. If the wheel has 5 holes, then use 5 fasteners.
Fasteners must be tightened in a stay or orissorous patter



during the initial tightening; make certain wheel is centere and wheel supported prior to tightening fasteners.

#### WARNING A CAN INDIATED TORONE DEVICE ARREST RE LISED TO

specification. If it is not specified in the vehicle owner manual contact the vehicle manufacturer. If the Origina Equipment Manufacturer does not provide a specification check with the attenuarket wheel manufacturer for : specification in the event that neither the vehicle manufacturer por the affermarket wheel manufacturer ply you the specification, the following may serve as a publishe for passenger cars and light-trucks only:



c.Check new lasteners against the vehicle wanth moving sure they are same size. If the new fasteners have a different hox size than the original equipment wrench provided with the vehicle, be oure to advise the oustomer that a correct size wrench will be required to remove the new aftermarket fasteners being installed. 1.If the new fasteners have a different seat than the original equipment, make sure you leep enough of the original fasteners with the spare tix-fire changing equipment so if needed the spare tix-fire changing

## MULTI-PIECE WHEELS

Multi-piece wheels require eatra care when mounting tires. These wheels may have a special allicone seatest between the rims and the centers. This seel must not be touched with any tire mounting tools. If a tool contacts this area, the seal may be damaged and cause a leak.

When the tire value is close to the seal, use caution in

instaling and removing the valve to prevent damage to the seal.

3.DO NOT TIGHTEN WHEEL ASSEMBLY BOLTS. DO NOT TIGHTEN WHEEL ASSEMBLY BOLTS.
They should be torqued at the wheel factory to manufacturer's specifications. If any appear loose, contact the wheel manufacturer for instructions.

# AFTER INSTALLATION

1. Fasteners should be retorqued at approximately 25 miles. Retorquing must be done any time the fasteners are removed for any reason. Write the specified torque requirement on the owner wheel documents and review the complete instructions

Advise the oustomer to keep the wheel documents with the vehicle owner's manual and that when the vehicle is sold, the oustomer should give both to the new owner. If wheel looks were installed, make sure you give the

key to the customer. 5. Clean tires and wheels (see wheel maintenance information).

6. Have customer review, initial and size safety checklist

# REGISTRATION







Trade Union International, Inc. 4651 State Street, Montclair, CA 91763 Tel: (909) 628-7500 • Fax: (909) 628-7580 • E-mail: info@tradeunion.com Congratulations on your purchase of our brand new wheels! The wheels you have recently purchased are the result of technological advancements in the wheel manufacturing process, combined with years of experience in research and development. Please maintain the information contained on this registration card as a reference to the proper care and installation of your wheels.

#### IMPORTANT NOTICE

#### Attention Installer:

This manual contains important information about the wheel registration, and maintenance of the wheels. This information should be given to the owner/customer of the products.

#### INSPECT YOUR WHEELS

Inspect all parts, including wheel studs and mounting surfaces of the hub and wheels to ensure that they are in good working condition. Careless installation of wheels on a vehicle is a major cause of tire and wheel problems. Proper installation of wheels includes using a rim-clamp style tire changer, computerized wheel balancer, proper size wheel weights, and torquing the wheels to vehicle manufacturer's specifications. Consult a professional wheel and tire installer for the proper fitments of your vehicle.

#### TORQUING AND INSTALLATION

The correct installation of wheels requires the proper torquing of lug nuts. Improper torquing of wheels can cause distortion, fatigue cracks, or alignment problems. After completing the installation process, re-torque the wheels after driving for a distance of 25 miles to ensure tightness of lug nuts. Wheels should be re-torqued to vehicle manufacturer's specifications. Please refer to the lug nut lightening pattern chart, and the recommended torque chart below:









Pattern Pattern

Torque Char - in Foot Pounds

LUG SIZE	7/16"	1/2"	9/16"	10mm	12mm	14mm
TORQUE	70-80	75-85	135-145	45-55	70-80	85-90

#### WHEEL MAINTENANCE

CHROME WHEELS: To maintain the finish of your chrome wheels, only mild (non-abrasive) soap and water is required.

Always keep wheels free of brake dust and road salts.

PAINTED WHEELS: To maintain the finish of your painted wheels, use mild soap and water is required. Always keep wheels free of brake dust and road salts.

POLISHED WHEELS: To maintain the finish of polished wheels, use mild soap and water to clean polished wheels.

Periodically, aluminum metal polish many be required to bring back the original luster of a polished aluminum wheel.

#### LIMITED LIFETIME STRUCTURAL WARRANTY

Trade Union International, Inc. offers a limited lifetime warranty on the structure of our wheels. This warranty applies to the original retail purchaser that all our wheels will be free from defects in material and workmanship, under normal and intended use. This lifetime warranty is not transferable. This warranty does not include "Road Hazards" or "Misuse", such as accident, fire, hitting a pothole or debris, neglect, overload, severe impact or exposure to harsh chemicals.

#### CHROME WHEELS, PAINTED WHEELS & POLISHED WHEELS

Chrome and Painted Wheels are covered by a one year limited warranty on the finish of the wheels. Use of harsh cleaning agents, steam cleaning, salt or other hazardous conditions will void this warranty.

Polished wheels are covered by a 90 day limited warranty.

#### **RETURN POLICIES**

All wheels that are returned for repair or replacement require a Returned Goods Authorization (RGA) number. Please contact your original installer, dealer or distributor for inspection that the wheel has failed in normal use and service due to defects in materials or workmanship. Dealers and distributors will contact our customer service representative to obtain Returned Goods Authorization (RGA). Wheels need to be returned with freight prepaid. Trade Union International, Inc reserves the right to inspect, and at our sole discretion, to repair or replace wheels.

#### LIMITED WARRANTY

This is a Limited Warranty. This warranty does not include merchantability or fitments for particular alterations. All wheels should be check fitted by professional installers before and after installing the wheel and tire package, on both front and rear of the vehicle before mounting the tire. Any wheel that has had a tire mounted on it may not be returned for credits. Trade Union International, Inc. And its distributors will not be responsible for labor, transportation, or any other charges incurred in the replacement or repair of a defective part. This warranty expires upon transfer of title. Wheels are not designed to be mounted with any accessories or adapters, etc., Other than those supplied and or approved by our distributors. Any damage caused by such accessories or adapters is not covered by this warranty.

#### WARRANTY EXCLUSIONS

- 1. Any wheels that have been damaged due to abuse, neglect, misuse, or that have been repaired or altered.
- 2. Wheels that have been used for off-road or racing.
- 3. Wheels that have been damaged due to adverse weather conditions, or road chemicals.
- 4. Wheels that have been improperly installed or installed with other than recommended accessories
- Wheels that have been installed with tires that exceed the recommended size or installed on vehicles that they were not specifically intended.
- 6. Transfer of title of any of our wheels by the original purchaser voids the warranty. This warranty gives you specific rights and you may also have other rights under state laws. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. A copy of this warranty and installations are supplied in each wheel box for your convenience.

#### WHEEL REGISTRATION

Congratulation on your purchase of our brand new wheels! With advanced computer design technology, modern casting machineries, CNC equipments, and high tech protective finishes, we are proud to supply you with the top of the line quality wheels to add style and value to your vehicle for many years to come. Trade Union International, Inc. offers a limited lifetime warranty on the structure of its wheels. This warranty applies to the original retail purchaser that all our wheels will be free from defects in material and workmanship, under normal and intended

Registration of your brand new wheels is easy.

Simply complete following registration information and return it back to us:

By fax: 909-628-7580

By e-mail: info@tradeunion.com

Mr. Mrs. Miss		
Address:		
City, State, Zip Code:		
Tel.:		
Fax:		
Cell:		
E-mail:		
Wheel Brand:		
Wheel Style:		
Wheel Size:		
Your Vehicle Make:		
Your Vehicle Model:		
Your Vehicle Year:		
Date of installation:		
Invoice No.:		
Business name wheel Installer:		
Installer Address.:		
Your Age Group:		
Your Job Title:		
Your Job Industry:		
,		
0000 12 15	a. Dealer Promotion	b. Advertisement – Trade Magazine
What influenced you	c. Advertisement – Radio	d. Internet sales
to purchase Wheels:	e. Recommended by Friends	f. Car Enthusiast

Your prompt completion and return of this card will facilitate our registration of your wheels with us. Thank you very much.

Trade Union International, Inc. 4651 State Street, Montclair, CA 91763

 $www.verdecustomwheels.com \\ \ www.v-rockoffroadwheels.com \\ \ www.toplinereplicas.com \\$