

TP11DX-24HTEXTKIT

TP11DX 'Two Foot' Height Extension Kit



Installation Manual

NOTE:

(Supplemental to TP11KC-DX Installation & Operation Manual)

Safety Information: (Also reference the TP11KC-DX Lift Manual for additional Safety Information)

Note, Caution and Warning

This document uses the following terms - **NOTE**, **CAUTION** and **WARNING** - to alert you to special instructions, tips, or hazards for a given procedure. Please familiarize yourself with the notations described below.



INDICATES IMPORTANT INFORMATION THAT REQUIRES SPECIAL ATTENTION, SUCH AS A PROCEDURE FOR A SPECIFIC VEHICLE, OR TIPS ON OPERATING THE EQUIPMENT.



INDICATES THE POTENTIAL FOR DAMAGE TO EQUIPMENT, ACCESSORIES, OR VEHICLE UNLESS THE INSTRUCTIONS OR PROCEDURE ARE FOLLOWED SPECIFICALLY.



INDICATES THE POTENTIAL FOR PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH DUE TO HAZARDS ASSOCIATED WITH THE EQUIPMENT, VEHICLE, OR ENVIRONMENT. DO NOT PERFORM ANY PROCEDURES UNTIL YOU HAVE READ AND UNDERSTOOD THE WARNING INSTRUCTIONS.

Important Information

1. Follow all **safety and other instructions** contained in this manual in all circumstances.
2. **Read instructions carefully before assembling and using the product.**
3. The **manufacturer is not responsible** for any injury or damage caused by improper assembly or usage of this product.
4. Always **keep** the instruction **manual nearby lift.**
5. This **lift has a minimum ceiling height requirement** as described in the in the manual.
6. **Failure by the owner** to provide the **proper ceiling height** could result in unsatisfactory lift performance, property damage, or personal injury.
7. The **operation of the lift** is permitted by **authorized personnel only.**
8. This **lift is designed for indoor use only** and should not be installed in a pit or depression.

Safety Instructions

1. **Do not** raise a vehicle on the lift until the installation is completed as described in this manual.
2. **Technicians should be trained** to use and care for the lift by familiarizing themselves with this instruction manual. **The lift should never be operated by an untrained person.**
3. **Do not overload the lift.** The capacity of the lift is shown on the lift's serial number tag.
4. **Inspect the lift daily.** The **lift should never be operated if it has damaged components or is malfunctioning.**
5. **Only qualified technicians should service the lift.** Replace damaged components only with manufacturer's parts, or equivalent.
6. **Keep area around the lift clear of obstacles.**

Technical Specs: (TP11KC-DX Lift with TP11DX-24HTEXTKIT)

Product Description

The TP11DX 'Two Foot' Height Extension Kit is designed for use with the TP11KC-DX lift. This two-foot height extension kit adds 24" to the top of the lift, increasing the overall height to 168" to better accommodate taller vehicles and expanded service height requirements.

The Kit includes 24" height extension uprights, an extended hydraulic hose, steel cables, a latch wire, a return line, a limit switch cable, and air fittings. Mounting hardware for the uprights is reused from the TP11KC-DX lift.

Dimensions

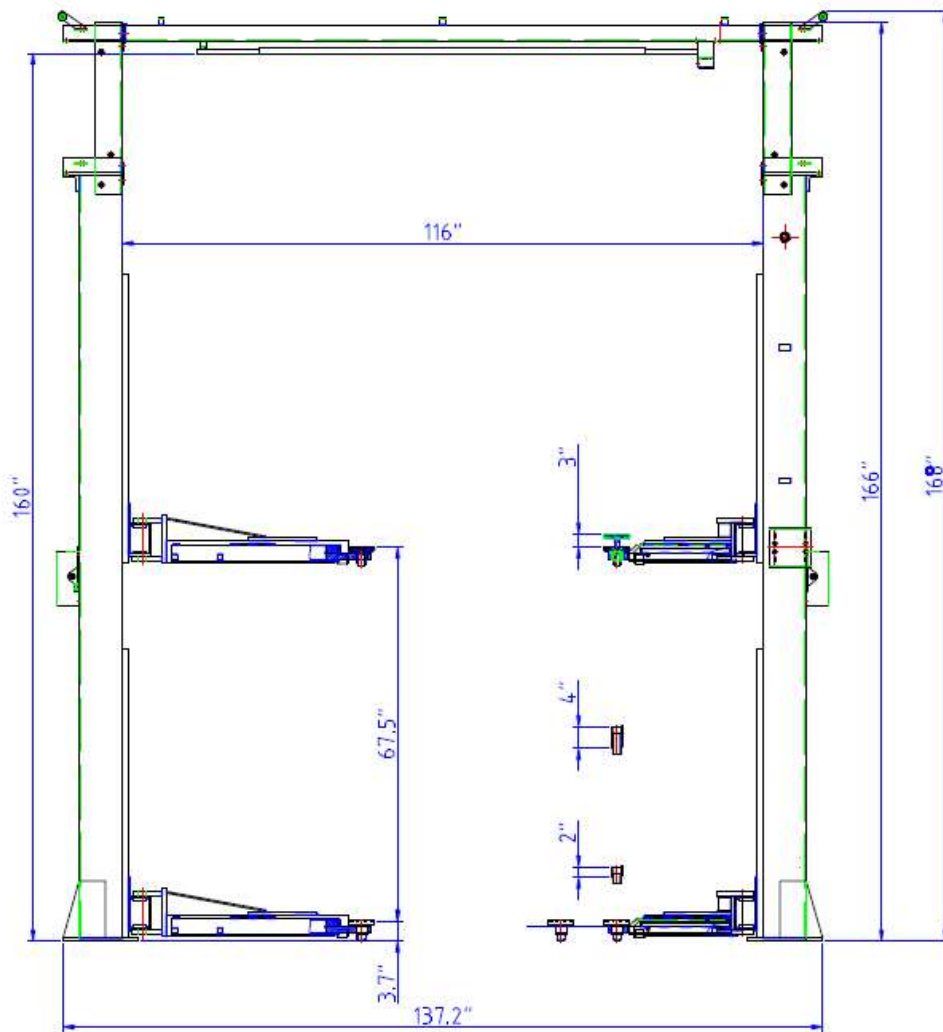


Fig. 1 (Front View)

Specifications

Min Ceiling Height	169"
Overall Lift Height	168"
Max Lift Clearance Height	160"
Max Lifting Height	71"
Max Lifting Height w/ Adaptors	76.5"
Width Between Columns	116"
Min Pad Height	4"

Kit Installation:

Required Tools

- Forklift or Hoist (Recommended)
- Two 14' Step Ladders
- Open-end Wrench
- Socket Wrenches
- Hexagonal Socket Wrench Set
- Safety Glasses
- Gloves



MINIMUM CEILING HEIGHT REQUIREMENT TO BE 169" WITH TP11DX-24HTEXTKIT APPLIED TO TP11KC-DX LIFT.

Installation Steps: (Retrofit to Installed TP11KC-DX Lift)

1. With no vehicle on the lift, fully lower to ground, then raise lift arms to the second or third lowest latch setting. Ensure both carriages are positioned at the same latch height.
2. Depressurize the 'hydraulic system' by pressing the Lowering Lever on the Power Unit for a few seconds.
3. Disconnect power to Power Unit.



CONFIRM THAT THE CARRIAGES ARE RESTING ON LATCHES AND THE POWER SUPPLY HAS BEEN DISCONNECTED!

4. Inside Offside Column, carefully disconnect the 'long' Hydraulic Hose from the Cylinder Fitting (**Fig. 2**). Also disconnect the other end of the hose from the Tee Fitting inside the Mainside Column. Carefully remove hose from Lift (**Fig. 3**).



Fig. 2



Fig. 3



USE A CAP OR RAG TO LIMIT ANY HYDRAULIC FLUID RESIDUE COMING FROM END OF HOSE.

5. Loosen and remove Cable Nuts to remove the steel Equalization Cables from each Carriage (**Fig 4**).



Fig. 4

6. At the top of each column, disconnect the plastic tubing from air fittings and remove tubing and air fittings from top of the cylinders (**Fig. 5**).

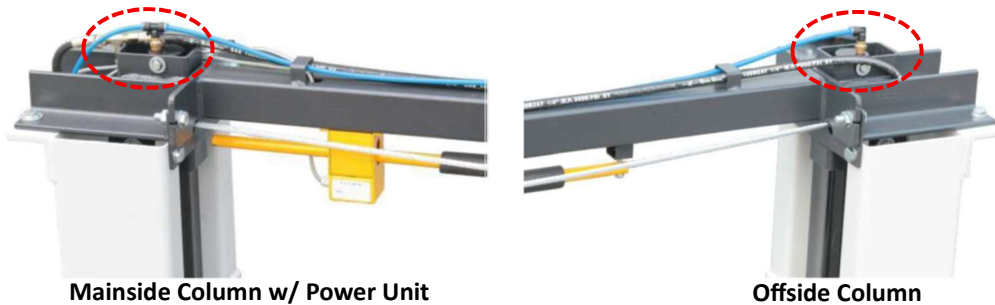


Fig. 5

7. Remove the upper mount bolts for Overhead Beam for each Column side and remove from top of Lift (**Fig. 6**). Also remove the Cylinder mount Bolts, as well as the mount bolts for the Uprights (**Fig 7**). Carefully remove and lower to the ground. Mounting hardware to be reused.



Fig. 6

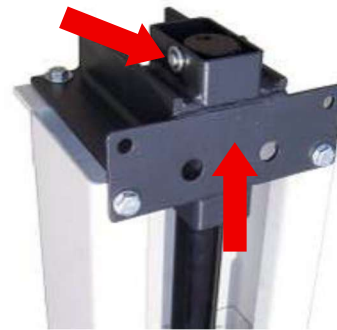
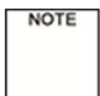


Fig. 7



MOUNTING HARDWARE TO BE REUSED TO INSTALL EXTENDED HEIGHT UPRIGHTS, CYLINDER AND OVERHEAD BEAM.



FOR NEWLY INSTALLED TP11KC-DX LIFT, THE ABOVE FOUR STEPS (4,5,6 & 7) FOR DISASSEMBLY PROCEDURE SHALL BE IGNORED.

8. Install the Cable Pulley assemblies for/from each of the 'Standard Height' Uprights to the 'Extended Height' Uprights (3) 'prior to mounting to the tops of each Column.' Ensure the Cable Pulleys are properly and securely pinned to the Uprights and rotate freely (**Fig. 8**).
9. Install the Latch Wire Support Pulley Bracket assemblies for/from each of the 'Standard Height' Uprights to the 'Extended Height' Uprights in the same configuration, using Lift assembly hardware (**Fig. 9**).

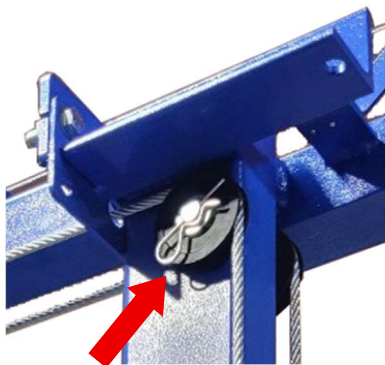


Fig. 8



Fig. 9

10. Prior to installing the Extended Height Uprights (3) to top of Columns, ensure to install the Straight Union Air Fittings (1) to the tops of each Cylinder, along with the 'blue' Air Tubing sections (2) & (5) (**Fig. 11**).
11. Install the Extended Height Uprights (3) to the top of each Column, positioning the Latch Wire Bracket to the outside, as shown in **Fig. 9**. Use hardware provided with lift to secure the Uprights to tops of Columns (**Fig. 10**).
12. Install the Overhead Beam Assembly to the Extended Height Uprights, ensuring the Limit Switch Box is configured to the Mainside Column / Power Unit side. Use hardware provided with lift to secure Overhead Beam to Uprights (**Fig. 10**).

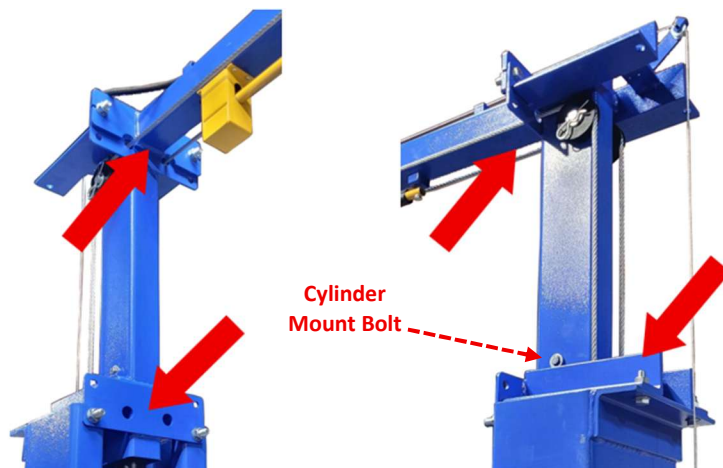


Fig. 10

13. Pull 'blue' Air Tubing already connected to tops of Cylinders through each Upright. Install the Tee Air Fitting (6) to end of Air Tubing sections (5) and (7) (**Fig. 11**).
14. Install Cylinder Mount Bolts to secure Cylinders to Uprights. Pull 'blue' Air Tubing already connected to tops of Cylinders through each Upright. Install the Tee Air Fitting (6)

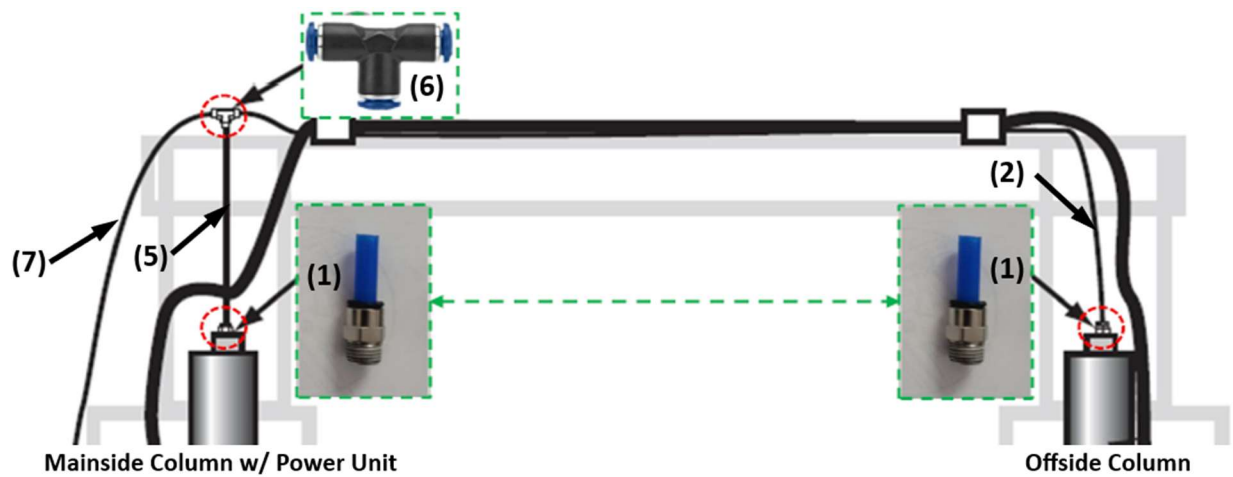


Fig. 11

15. Install the Ext. Ht. Long Hyd Hose (10) connecting one end to the Tee Fitting inside the Mainside Column Tee Fitting, then routing up and through the Upright, across the OH Beam through brackets, then down through the opposite Upright to connect to the Cylinder Fitting Port in the Offside Column (**Fig 12**).

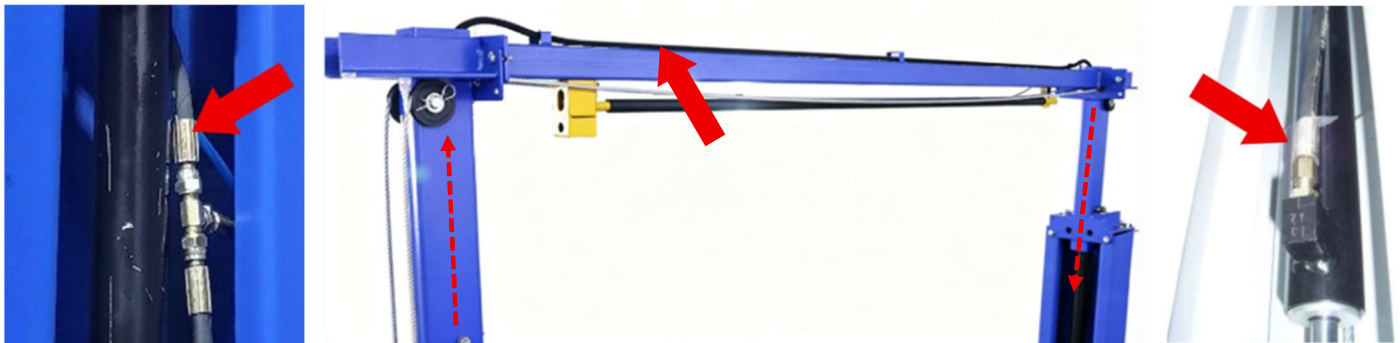


Fig. 12

16. Install Ext. Ht. Equalization Cables (9) as shown below in **Fig. 13**. (For additional details, see the *Equalization Cables Routing Instructions* noted in the *TP11KC-DX Installation Manual*.)

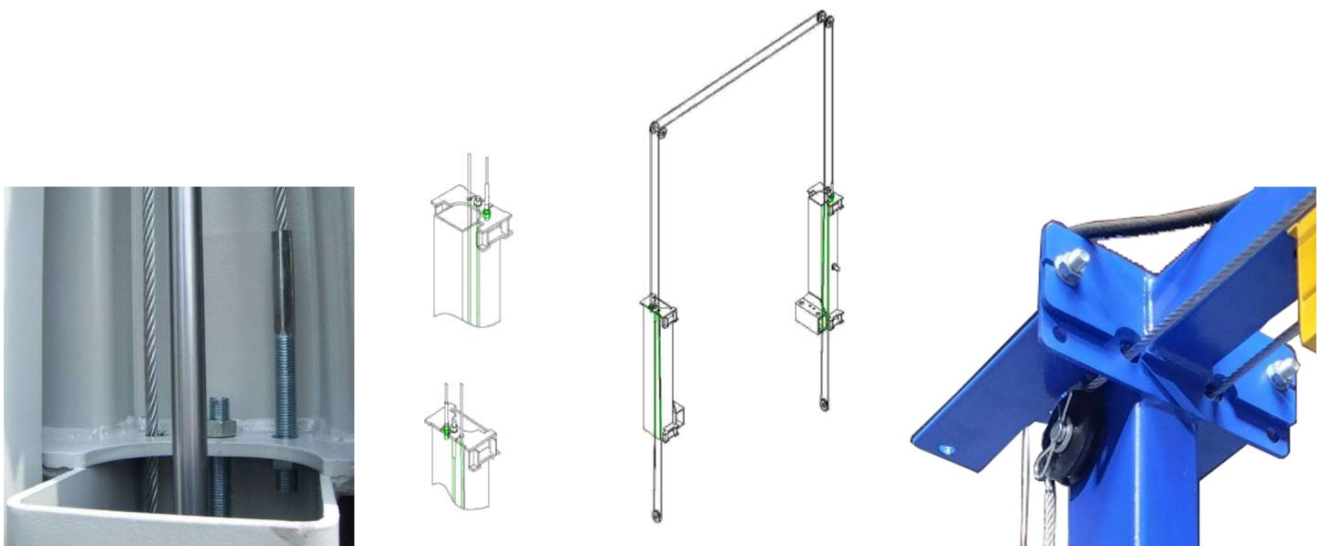


Fig. 13

- 17.** Install the Ext. Ht. Latch Release Wire **(8)** to the mechanical locks on each Column **(Fig. 14)**. *(For additional details, see the Latch Release Wire Routing Instructions noted in the TP11KC-DX Installation Manual.)*

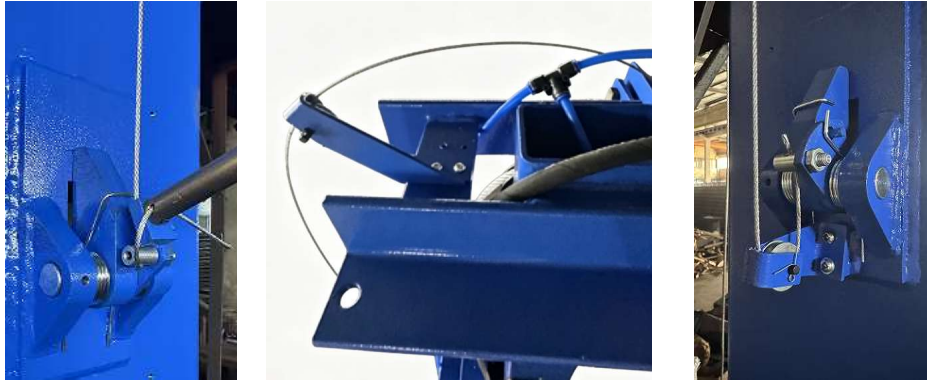
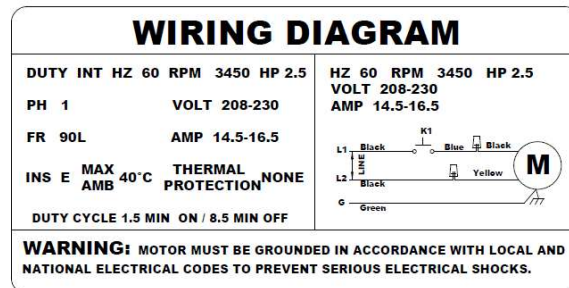
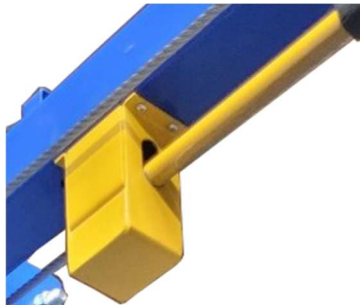


Fig. 14



NEITHER THE LATCH RELEASE WIRE NOR THE EQUALIZATION CABLES CAN PASS THROUGH THE BRACKETS ON TOP OF THE OVERHEAD BEAM.

- 18.** Install the Ext. Electrical Cable **(4)** to the Limit Switch Box and Power Unit, routing through & across the Overhead Beam, then down through the Upright and Hose Guard to Switch Box . *(For additional details, see the Electrical Cable Equalization Cables Routing Instructions noted in the TP11KC-DX Installation Manual.)*



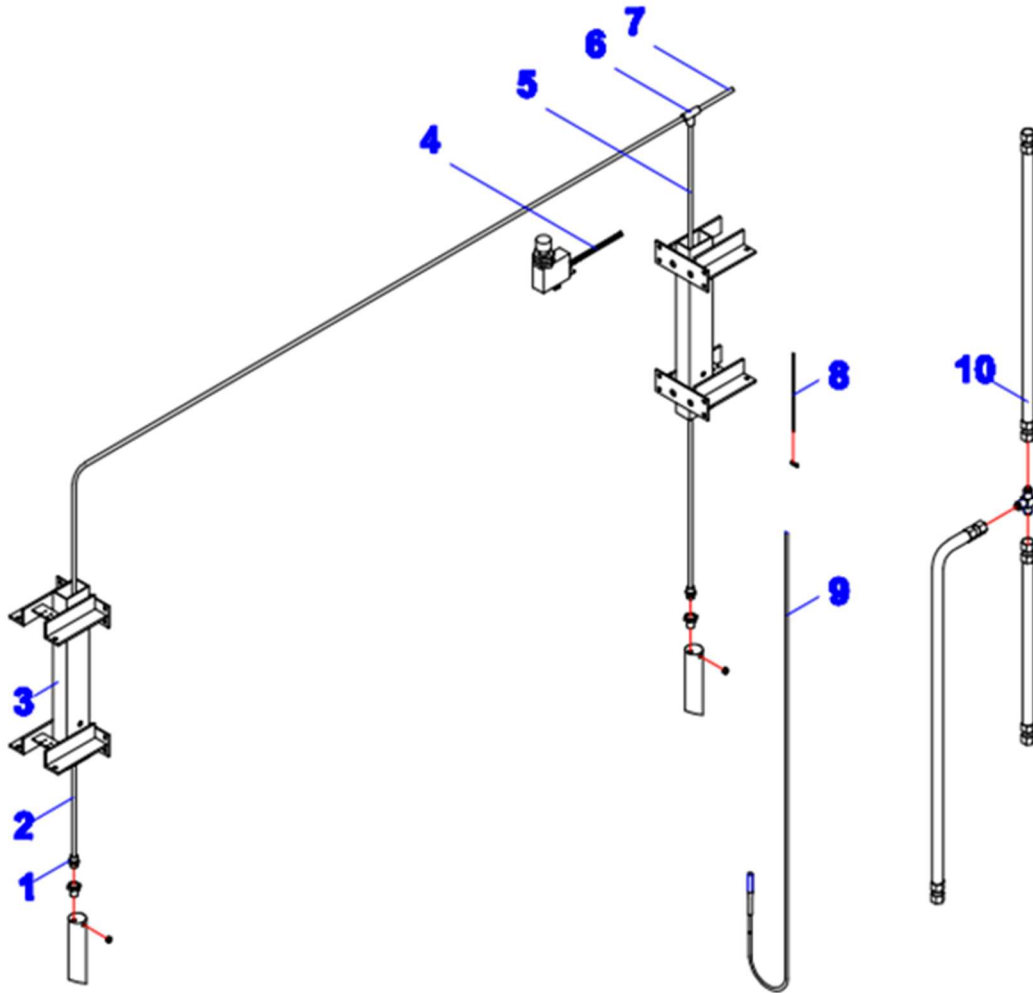
- 19.** Once completed with Installation, ensure all Mounting Hardware is tightened, Limit Switch Electrical Connections are connected, and Equalization Cables are properly adjusted.



ENSURE TO TEST THE LIMIT SWITCH FOR PROPER OPERATION PRIOR TO USING LIFT!

- 20.** Test Lift for with no vehicle load to confirm the lifting system operates normally. *(See the TP11KC-DX Manual for Testing details.)*

Exploded View



Parts List

ITEM	TUX P/N	M-REF P/N	DESCRIPTION	QTY
1	TP11DX-24HTEXTKIT-001	SJ01-00008-FJ6	Straight Union, Air Fitting, 8mm	2
2	TP11DX-24HTEXTKIT-002	SJ01-00015-FJ6	8mm Air Tube, 147"	1
3	TP11DX-24HTEXTKIT-003	SJ12-04000-FJ6	24" Height Extension Upright	2
4	TP11DX-24HTEXTKIT-004	SJ12-00024-FJ6	Limit Switch, Ext. Elec. Cable, 144"	1
5	TP11DX-24HTEXTKIT-005	SJ12-00023-FJ6	8mm Air Tube, 24.4"	1
6	TP11DX-24HTEXTKIT-006	SJ01-00014-FJ6	Tee Air Fitting, 8mm	1
7	TP11DX-24HTEXTKIT-007	SJ01-00013-FJ6	8mm Air Tube, 143"	1
8	TP11DX-24HTEXTKIT-008	SJ12-00013-FJ6	Ext. Ht. Latch Release Wire, 354"	1
9	TP11DX-24HTEXTKIT-009	SJ01-00002-FJ6	Ext Ht. Steel Cable, 37'-8"	2
10	TP11DX-24HTEXTKIT-010	SJ01-00006-FJ6	Ext. Ht. Long Hyd Hose, 255"	1

LIMITED WARRANTY

Structural Warranty:

The following parts and structural components carry a five-year warranty:

Columns	Arms	Uprights	Swivel Pins
Legs	Carriages	Overhead Beam	Platforms
Tracks	Cross Rails	Top Rail Beam	

Limited One-Year Warranty:

Tuxedo Distributors, LLC (iDEAL) offers a limited one-year warranty to the original purchaser of Lifts and Wheel Service equipment in the United States and Canada. Tuxedo will replace, without charge, any part found defective in materials or workmanship under normal use, for a period of one year after purchase. The purchaser is responsible for all shipping charges. This warranty does not apply to equipment that has been improperly installed or altered or that has not been operated or maintained according to specifications.

Other Limitations:

This warranty does not cover:

1. Parts needed for normal maintenance
2. Wear parts, including but not limited to cables, slider blocks, chains, rubber pads and pulleys
3. Replacement of lift and tire changer cylinders after the first 30 days. A seal kit and installation instructions will be sent for repairs thereafter.
4. On-site labor

Upon receipt, the customer must visually inspect the equipment for any potential freight damage before signing clear on the shipping receipt. Freight damage is not considered a warranty issue and therefore must be noted for any potential recovery with the shipping company.

The customer is required to notify Tuxedo of any missing parts within 72 hours. Timely notification must be received to be covered under warranty.

Tuxedo will replace any defective part under warranty at no charge as soon as such parts become available from the manufacturer. No guarantee is given as to the immediate availability of replacement parts.

Tuxedo reserves the right to make improvements and/or design changes to its lifts without any obligation to previously sold, assembled, or fabricated equipment.

There is no other express warranty on the Tuxedo lifts and this warranty is exclusive of and in lieu of all other warranties, expressed or implied, including all warranties of merchantability and fitness for a particular purpose.

To the fullest extent allowed by law, Tuxedo shall not be liable for loss of use, cost of cover, lost profits, inconvenience, lost time, commercial loss or other incidental or consequential damages.

This Limited Warranty is granted to the original purchaser only and is not transferable or assignable.

Some states do not allow exclusion or limitation of consequential damages or how long an implied warranty lasts, so the above limitations and exclusions may not apply. This warranty gives you specific legal rights and you may have other rights, which may vary from state to state.

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