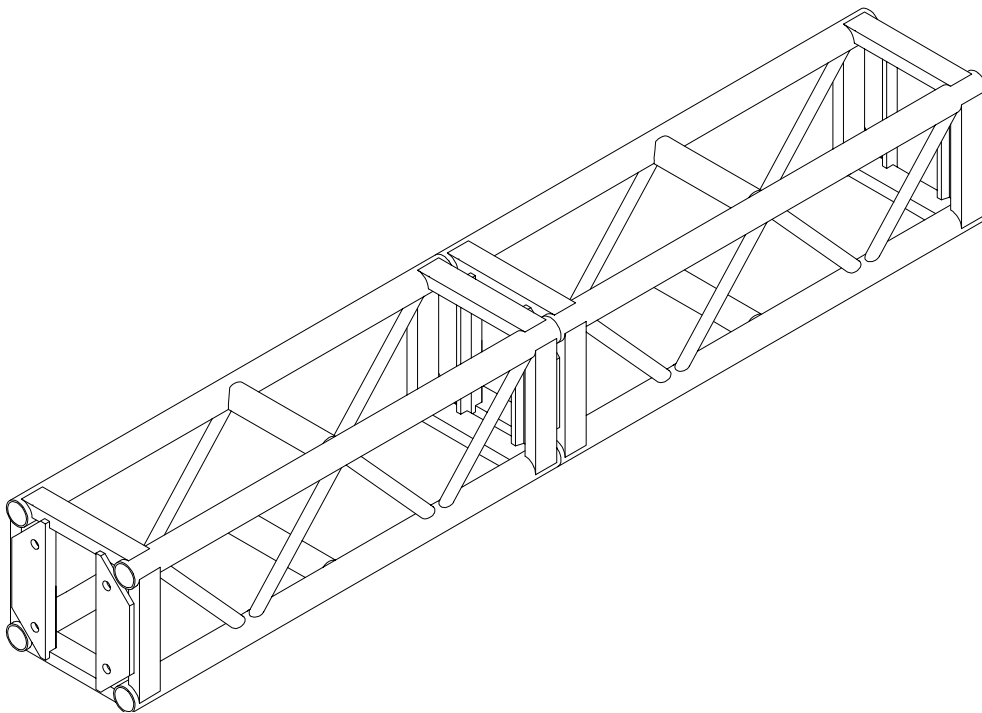




NOTES ON TRUSS INSPECTION



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NOTES ON TRUSS INSPECTION

All trusses need to be inspected by a competent Testing House or Persons qualified to inspect truss and associated parts.

A. Truss must be inspected every year in accordance with ANSI E1.2.

B. Recommended technique for inspection is detailed below and in ANSI E1.2.

C. Should the truss fail any of the requirements in items 1,2 or 3. Then it must be stamped "**UNSAFE DO NOT USE**" and taken out of service. If the truss fails on any of the requirements in 4,5 or 6, then the failing parts must be replaced before it is returned to service.

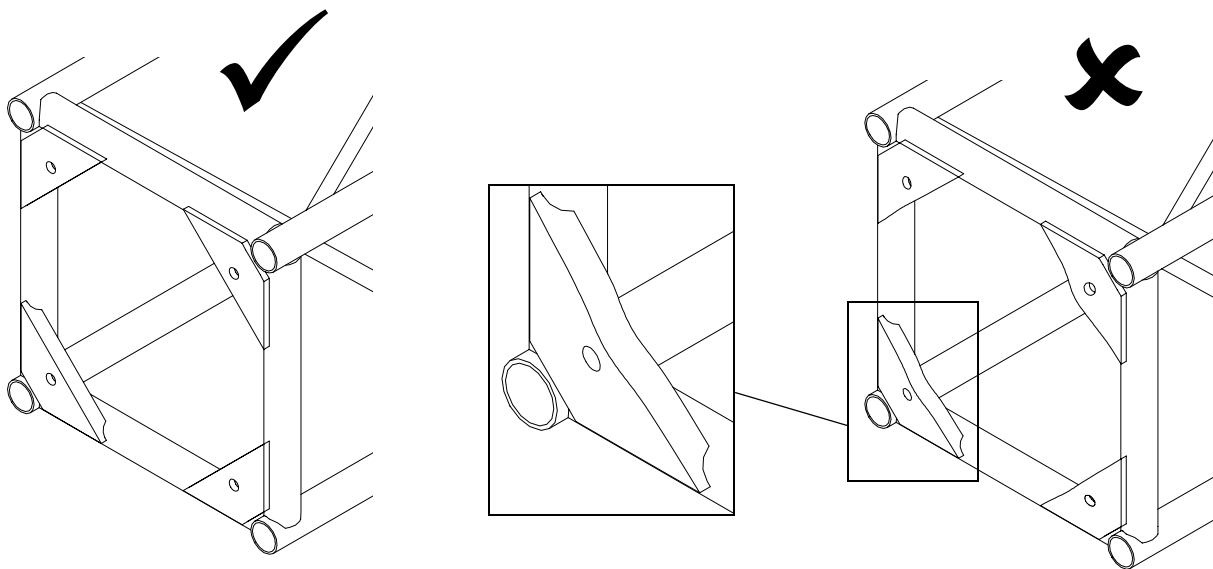
Truss that has failed can be returned to James Thomas Engineering Ltd. or James Thomas Engineering, Inc. for inspection and repair if possible.

D. Associated truss parts should also be checked for defects, in line with the criteria shown above. Attention should also be paid to parts not described above.

E. Structural reports are available from James Thomas Engineering Ltd. They are available for reference and should be in the users possession. This report shows the maximum loads for given spans and also indicate the maximum span of the truss being used.

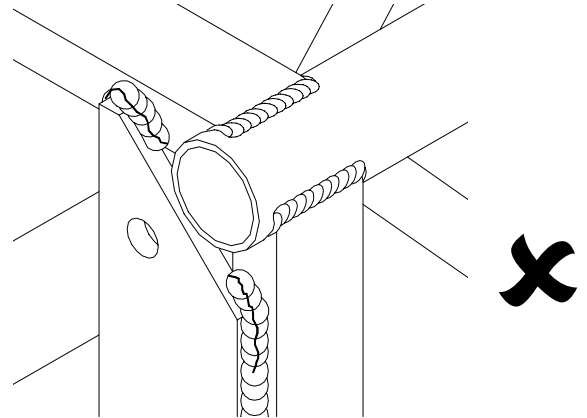
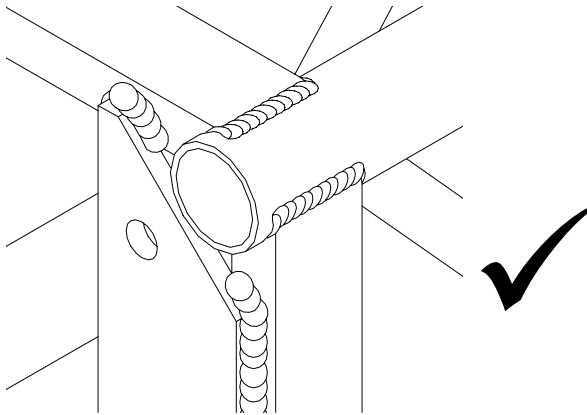
1. CAMLOC PLATES (end plates)

Check all plates for signs of outward bending. Check for Camloc/bolt holes that are distorted. This is caused by overloading the truss when in operation. The recommended method for checking plates, is to place the thin edge of a steel rule diagonally across the face of the plates. If any bends are detected in the plate, do not use the truss.



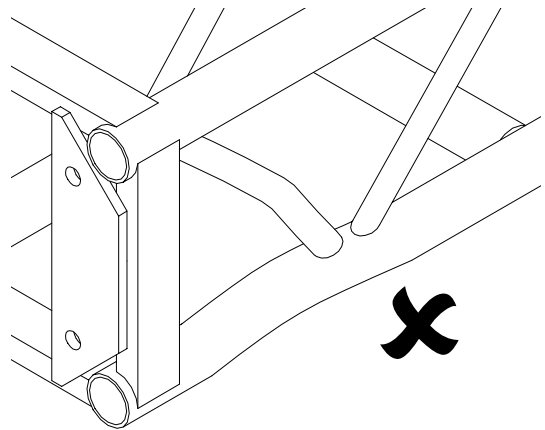
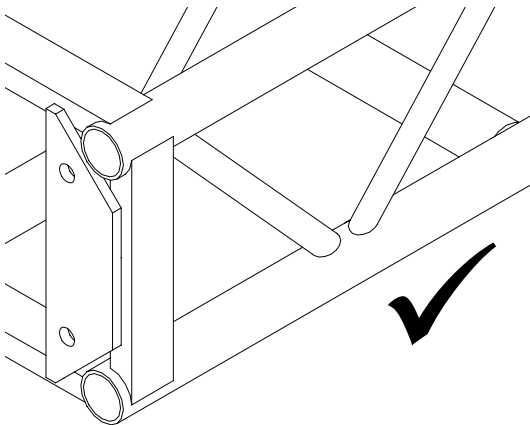
2. WELDING

All welds should be checked visually with the aid of a magnifying glass or with the use of a dye penetrant to help in the detection of cracks. If any cracks are found in the weld, do not use the truss.

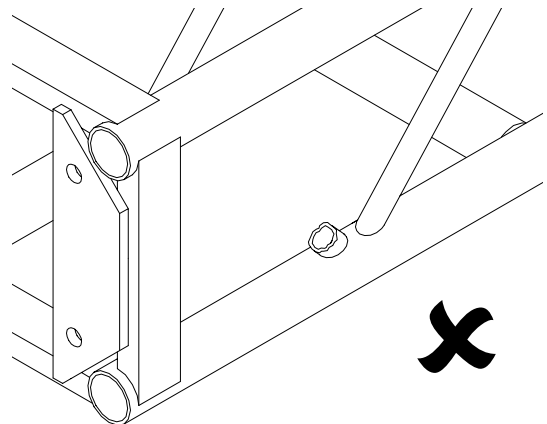
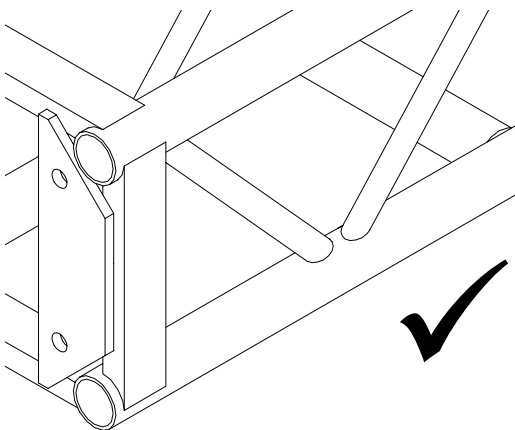


3. TUBES

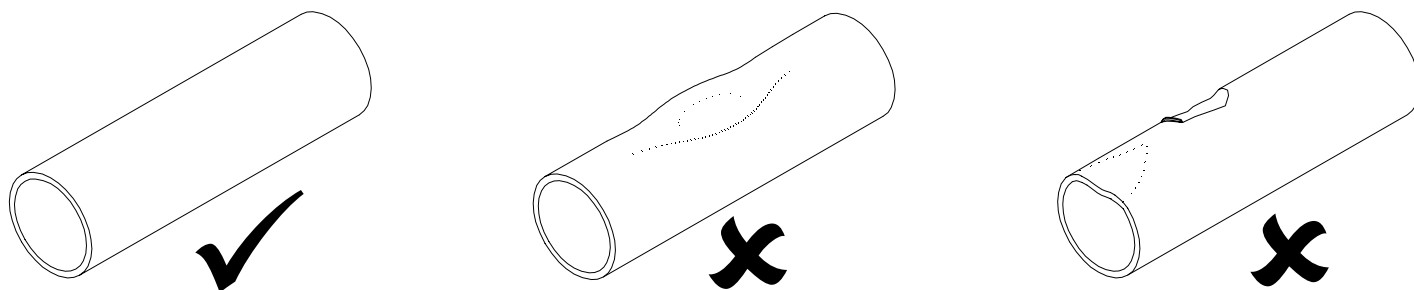
BENDS There are several points to be visually inspected on both the main and diagonal tubes. First check all tubes for any signs of bending (please note that during manufacture rippling in the main tubes will unavoidably occur). If the main or diagonal tubes show any visible evidence of being bent, do not use the truss.



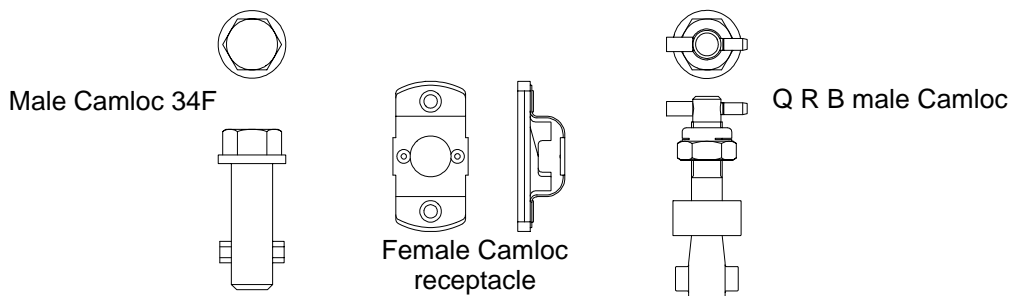
MISSING DIAGONALS If any Diagonals have been badly damaged or are missing, do not use the truss.



DENTS AND CHEWS Damage is often caused when the truss not stored correctly or other objects being dropped onto the truss or clamps are overtightened. Visually check all the tubes for dents, damaged ends, and chew marks. Use the figures below as a guide. If any defects are visible in the tubes, then the truss should not be used.



GENERAL CONDITION After any truss has been in circulation, it will start to wear. Make a thorough inspection of all the above and also general condition. The wall thickness and the ends of the tubes will need special attention. Check for excessive wear in the tube.



4. CAMLOC FASTENERS

MALE STUDS 34F SERIES Check for signs of wear, damage, twist, missing adjustment screws, or missing cross pins. Replace any missing parts, or replace the fastener if damage is present.

QUICK RELEASE BOLTS Check for signs of wear, damage, twist, or missing pins. Replace any missing parts, or replace the fastener if damage is present.

FEMALE RECEPTACLE 34F SERIES Check for loose or missing nuts and screws. Re-tighten the nuts and screws if they are loose or replace them if they are missing. Check for excessive wear at the point that the Camloc pin rests inside the Receptacle.

5. HIGH TENSILE NUT AND BOLTS

Check for signs of wear, damage, twist and missing nuts and bolts. Regularly check the condition of the bolt as it will lose an amount of thread every time it is used. Replace any missing parts, or replace the nut and bolt, if damage is present.

6. TRUSS IDENTIFICATION LABELS

All trusses must have an identification label present in order that you can relate the following: Date of manufacture, Serial No, Truss type, and specifications. The label must not be removed. This label will also allow for proper record keeping of annual inspections.

James Thomas Engineering Ltd. are members of:
James Thomas Engineering, Inc. are members of:

Professional Lighting and Sound Association (PLASA)
Entertainment Services and Technology Association (ESTA)
United States Institute of Theatre Technology (USITT)