



2018

SCNC

SKILLS CANADA
NATIONAL COMPETITION

OCMT

OLYMPIADES CANADIENNES
DES MÉTIERS ET
DES TECHNOLOGIES



SkillsCompétences
Canada
Edmonton2018

ASSEMBLY / ASSEMBLAGE

SHEET METAL WORK TÔLERIE

POST - SECONDARY /
NIVEAUX POSTSECONDAIRE



Chassis Assembly

1. The two halves of the chassis are to be formed and them solid welded at 2 corners.
2. The wheels are to be attached to the chassis with 4 ¼” rods then double nutted with acorn nuts on outside of axles.

Fender Assembly

1. Form bends & flanges for fender pieces. Fender 1 attached to fender 2 with a solid weld.

Chassis to Fender Assembly

1. The chassis is attached to the fender assembly with 6 evenly spaced tack welds per side (long side)

Boiler Tube Assembly

1. Form parts B1- B4, B4 attaches to B1 with a 1/4” double seam. B1, B2, B3 attach to each other through elbow edges

Cab section Assembly

1. Form all H sections
2. H1 attaches to the two H2 sections via double seams. H3 attaches 5 to the two H2 sections via double seams. H4 attaches to the rest of the cab assembly by 4 blind rivets through the ½” flange on the 2-H2 parts.
3. H5 attaches to the cab section by 10 blind rivets, 2 per side plus 4 on back platform through ½” flanges.

Final Assembly

1. Boiler tube section is attached to cab section via ½” dovetail seam.
2. Chassis/Fender section is attached to boiler tube section via evenly spaced blind Rivets (3 per side) and to the cab section by riveting through the ½” flange at the rear of the fender section into the cab section with 4 blind rivets (2 per side).