



American Maintenance Systems



FLANGE BOSS™ SPREADER INSTRUCTIONS





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Follow all plant safety procedures, including permits to open flanges.

Check and be certain no pressure exists and process material has been drained before opening flanges.

If line pressure exists or process material is present, follow plant safety procedure to remove before opening any flanges.





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Select correct Flange Boss for flange rating. In many situations 2 Flange Boss Spreaders should be used.

FBX-150-300 fits 150 lb - 300 lb ANSI flanges from 1/2" to 24"

FBX-400-600 fits 400 lb - 600 lb ANSI flanges from 1/2" to 24"

FBX-900-2500 fits 900 lb - 1500 lb ANSI flanges from 1/2" to 24"

2500 lb flanges from 1/2" to 12" including ring joint flanges





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Remove only the necessary bolts to complete the work.





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Make sure the nuts on the remaining bolts are loosened enough to make the spread.

Locate the bolt hole where the **Flange Boss**™ spreader will be installed.

Loosen all bolts





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Make sure the nuts on the remaining bolts are loosened enough to make the spread.

Locate the bolt hole where the **Flange Boss™** spreader will be installed.

Locate a bolt hole to install tool





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Connect the **Flange Boss™** with the flange pin.
Refer to flange pin tag for proper flange bolt sizes.

Push tool link against flange on both sides





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Lubricate cam-wedge and flange surfaces for easier use.

lubricate





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Rotate cam-wedge into flange gap. Make sure that the cam wedge is rotated in the correct direction (narrow end first).

Rotate into Gap





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The cam-wedge can be rotated with either a breaker-bar or impact tool or hydraulic tool.

Mechanical, pneumatic or hydraulic tool





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Rotate until safety stop indicator nears flange and flange is spread. Do not over rotate and damage safety stop indicator.

Rotate



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As a precaution a **Block Boss™** should be installed to prevent accident flanges closures

Block Boss™



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