INSTRUCTION MANUAL /REPAIR PARTS LIST
MODEL FR-4.10  CAPACITY 4 TON  5" STROKE  PART CODE 48661

WARNING

1. READ, STUDY AND UNDERSTAND ALL WARNING LABELS AND OPERATING INSTRUCTIONS FUR-
NISHED WITH THIS EQUIPMENT PRIOR TO USE. IF ANY PORTION OF THIS MATERIAL IS UNCLEAR,
CONTACT YOUR REPRESENTATIVE FOR CLARIFICATION.
2. NEVER ALLOW UNSKILLED OR IMPROPERLY TRAINED PERSONNEL TO OPERATE THIS EQUI-
PMENT.
3. CENTER LOADS ON SADDLE. OFF CENTER LOADS MAY CAUSE DAMAGE TO THE RAM AND/OR LOSS
OF LOAD.
4. DO NOT OVERLOAD RAM. OVERLOADING IS OFTEN INDICATED BY BOWING EXTENSION TUBES OR SLIP-
PING ATTACHMENTS AND CAN RESULT IN PERSONAL INJURY OR DAMAGE TO THE EQUIPMENT.
5. WHEN OFFSET ATTACHMENTS ARE USED, THE RATED CAPACITY IS ALWAYS REDUCED BY 50%.
FOR EACH EXTENSION TUBE IN THE SETUP, THE OVERALL CAPACITY IS REDUCED AN ADDITIONAL
50%. REFER TO THE OPERATING INSTRUCTIONS PROVIDED FOR TYPICAL SETUPS AND CORRESPOND-
ING LOAD CAPACITIES.
6. PRIOR TO APPLYING A LOAD, INSURE THAT ALL ATTACHMENTS AND EXTENSION TUBES ARE FULLY
ENGAGED.
7. INSURE LOAD IS CENTRALLY APPLIED TO ATTACH-
MENTS AND RAM SADDLE TO MINIMIZE AN OFF CENTER LOAD CONDITION.
8. ALWAYS USE A PRESSURE GAUGE IN-LINE WITH PUMP AND RAM TO MONITOR THE WORKING PRES-
SURE WITHIN THE RAM.
9. DO NOT USE THE RAM TO SUPPORT A LOAD. THE LOAD MUST BE SUPPORTED IMMEDIATELY BY
OTHER APPROPRIATE MEANS.
10. USE ONLY ON HARD LEVEL SURFACE CAPABLE OF
SUSTAINING THE LOAD.
11. DO NOT CONTINUE TO PUMP WHEN RAM IS FULLY
EXTENDED.
12. NEVER USE A PUMP WITH AN OPERATING CAPACITY
GREATER THAN THE RATED CAPACITY OF THE
RAM.
13. USE ONLY HYDRAULIC HOSE OR PLUMBING WITH A
MINIMUM WORKING PRESSURE OF 10,000 PSI.
14. BE CERTAIN THAT ALL HYDRAULIC CONNECTORS
AND FITTINGS IN THE SYSTEM HAVE A MINIMUM
WORKING PRESSURE OF 10,000 PSI.
15. RELEASE ALL HYDRAULIC PRESSURE BEFORE DIS-
CONNECTING HOSES OR ACCESSORIES.
16. USE ONLY HYDRAULIC OIL RECOMMENDED BY THE
RAM MANUFACTURER. DO NOT USE BRAKE, TRANS-
MISSION, OR FIRE RESISTANT OILS OR AUTOMO-
TIVE FLUIDS.
17. IT IS YOUR RESPONSIBILITY TO KEEP ALL WARNING
LABELS AND INSTRUCTIONAL LITERATURE LEGI-
BLE AND INTACT. REPLACEMENT LABELS AND
LITERATURE LEGIBLE AND INTACT. REPLACEMENT
LABELS AND LITERATURE ARE AVAILABLE FROM
THE FACTORY.
18. FAILURE TO HEED THESE WARNINGS MAY RESULT
IN EQUIPMENT AND/OR PROPERTY DAMAGE AND/
OR PERSONAL OR FATAL INJURY.

OWNER'S RESPONSIBILITY

Operation. The owner and/or operator shall have an
understanding of these operating instructions and
warnings before operating the ram. Warning information
shall be emphasized and understood. If the user is not
fluent in English, the instructions and warnings shall be read
to and discussed with the operator in the operator’s native
language by the purchaser/owner, making sure that the
operator comprehends its contents.

Maintenance. The ram shall be maintained in accordance
with Instructions listed under "Maintenance."

Inspection
1. Visual Inspection shall be made before each use of the
ram, checking for leaking hydraulic fluid, and dam-
aged, loose or missing parts.
2. Each ram shall be inspected by an authorized service
center immediately, if subjected to an abnormal load or
shock.
3. Owners and/or users should be aware that repair of this
equipment may require specialized knowledge and
facilities. It is recommended that an annual inspection
of the ram be made by an authorized service center
and any defective parts, decals or warning labels
be replaced with genuine factory parts. A list of
authorized service centers is available from the factory.

Damaged Rams. Any ram which appears to be damaged
in any way, is found to be badly worn, or operates
abnormally SHALL BE REMOVED FROM SERVICE until
necessary repairs are made by an authorized service center.

Operation
1. Always tighten attachments and extension tubes the
full thread provided. Use ram for lifting only. Always
support load by appropriate means.
2. Center the load on the ram. Off center loads and
loads lifted while ram is not level may damage the
ram or cause personal injury.

MAINTENANCE

1. Use only hydraulic jack oil. Never use alcohol or
hydraulic brake fluid.
2. Always keep your ram clean.
3. Keep ram fully retracted when not in use.