

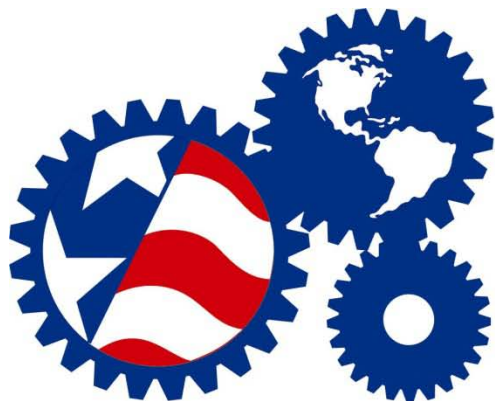
REL-60DA 60 Ton Hydraulic Press

The REL-60DA 60 is designed to compress sleeves & lugs on ACSR & ACAR transmission and distribution cables. These tools are portable for easy positioning, and operable from any 10,000 psi source. This double acting hydraulic press offers the convenience of control throughout the entire compression cycle.

Weight: 47 lbs.
Dimensions: 17" H X 5" W
Oil Capacity: 303 cc

Accepts 60 ton dies from:
RELIABLE, ALCOA, & BURNDY





RELIABLE EQUIPMENT

**CRAFTED WITH PRIDE IN THE U.S.A.
USED WITH CONFIDENCE AROUND THE WORLD**

301 Ivyland Road - Warminster, PA 18974

Phone: 215-357-3500 Toll Free: 800-966-3530

Fax: 215-357-9193

REL-60DA 60 Ton Hydraulic Press

Instructions for Typical Assembly & Repair

Always begin with a clean level working surface. Confirm that all parts are present and in good condition.

Any parts that appear worn or damaged should be replaced.

Use of a new seal kit is recommended, When ever a complete disassembly and assembly is required.

The Information Provided In This Document Is Intended As A Guide For Trained Professionals Only.

Shop MUST Be Equipped with Appropriate Power Supply, Test and Safety Equipment.

Contact Reliable Equipment With Any Questions BEFORE You Start.



CRADLE ASSEMBLY



SCREW



STRAIGHT KEY



CRADLE

RELEASE PIN



SPRING



LATCH



STRAIGHT KEY



SCREW



SPRING PIN



LUBRICATE THE
RELEASE PIN

INSERT THE RELEASE
PIN AND CENTER
ON CRADLE





INSTALL THE LATCH SPRING



LUBRICATE THE LATCH



INSTALL THE LATCH AS SHOWN



INSTALL LATCH OVER SPRING



PRESS THE LATCH AND SPRING INTO THE CRADLE.
ALIGN THE LATCH WITH THE HOLE IN THE CRADLE.



INSERT THE SPRING
PIN PARTIALLY INTO
THE CRADLE.



INSERT A PUNCH THROUGH
THE CRADLE AND LATCH
ASSEMBLY.

THE PUNCH WILL MAINTAIN
THE ALIGNMENT, AS THE
ROLL PIN IS DRIVEN INTO
THE ASSEMBLY.



DRIVE THE SPRING PIN UNTIL IT IS FLUSH WITH THE CRADLE.



USE A PUNCH TO DRIVE PIN INTO THE CRADLE. INSPECT ASSEMBLY.



INSTALL BOTH STRAIGHT KEYS.



TIGHTEN BOTH SCREWS FULLY.

COVER
ASSY.



SOCKET HEAD
CAP SCREWS



COVER

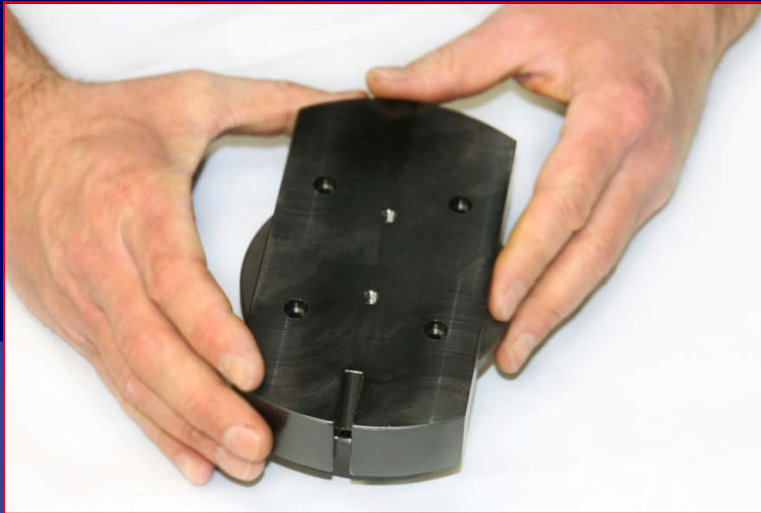


SOCKET HEAD
CAP SCREWS

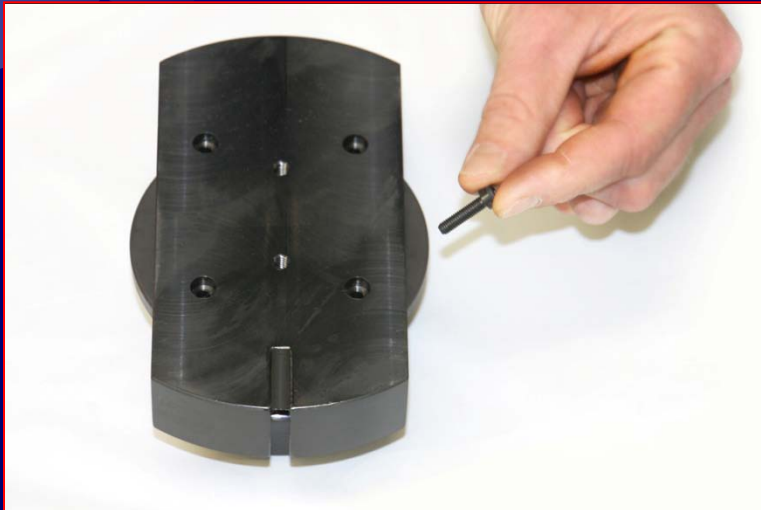




INSTALL THE COVER
ONTO THE CRADLE.



ALIGN & INSERT FOUR SCREWS.



TIGHTEN ALL 4 SCREWS FULLY.

SOCKET HEAD CAP SCREW (2)

PUSH PIN

SPRING

SPRING
PIN

COVER HANDLE

LANYARD

LOCKING
KEY

SPRING
PIN

COVER HANDLE
ASSEMBLY

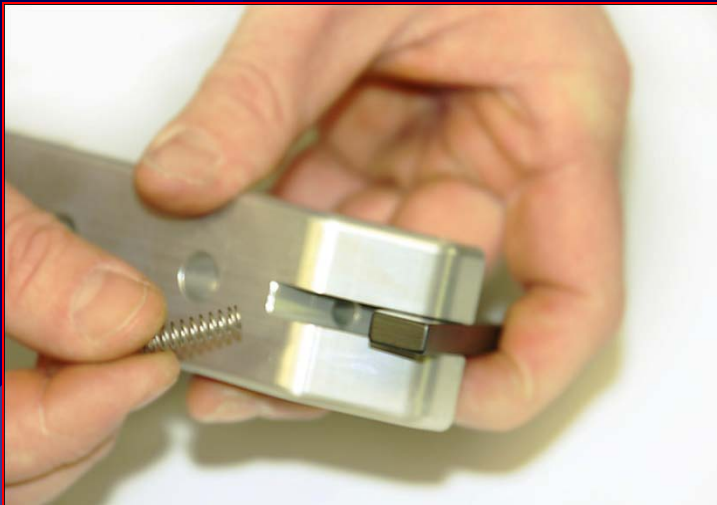




SECURE THE LANYARD IN THE SAME MANNER.



COUNTERSINK AND SET BOTH PINS FROM BOTH SIDES.



INSTALL THE SPRING AND PUSH PIN INTO THE COVER HANDLE.



ENSURE THE PUSH PIN IS PROPERLY SEATED. CHECK OPERATION.
DO NOT RELEASE UNTIL THE HANDLE INSTALLATION IS COMPLETE.

DO NOT RELEASE UNTIL THE HANDLE INSTALLATION IS COMPLETE.



INSERT BOTH OF THE SOCKET HEAD CAP SCREWS.



INSTALL HANDLE ONTO CRADLE ASSEMBLY. CHECK OPERATION.

RAM ASSEMBLY

SCREW



"L" KEY

SCREW



"L" KEY

RAM



RAM
BUTTON



DIE
SPRING



DIE
RETAINER



SPRING PIN





DOUBLE ACTING RAM



SINGLE
ACTING

NOTE: A DOUBLE ACTING RAM IS EASILY IDENTIFIED BY THE SMALL VENT IN THE CENTER OF THE DIE SEAT.

LUBRICATE THE RAM
BUTTON, AND SET
WITHIN REACH FOR USE
IN A FEW MOMENTS.



INSTALL DIE SPRING
ONTO DIE RETAINER,
INSTALL INTO RAM.

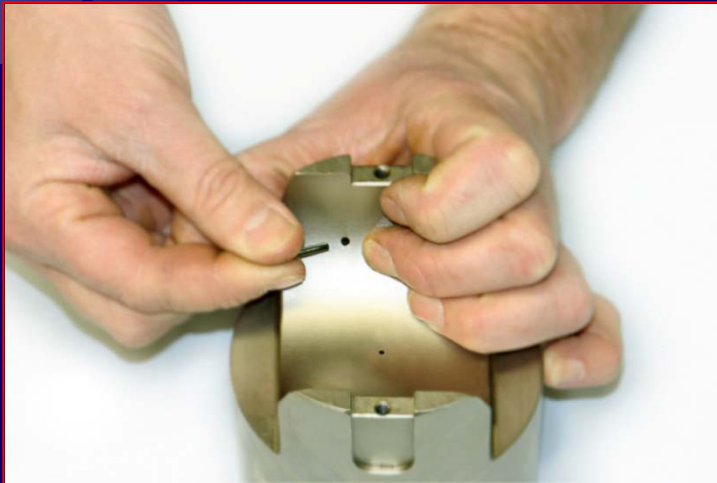


DO NOT RELEASE UNTIL THE RAM BUTTON HAS BEEN INSTALLED.

DO NOT RELEASE DIE RETAINER UNTIL THE SPRING PIN IS IN PLACE.



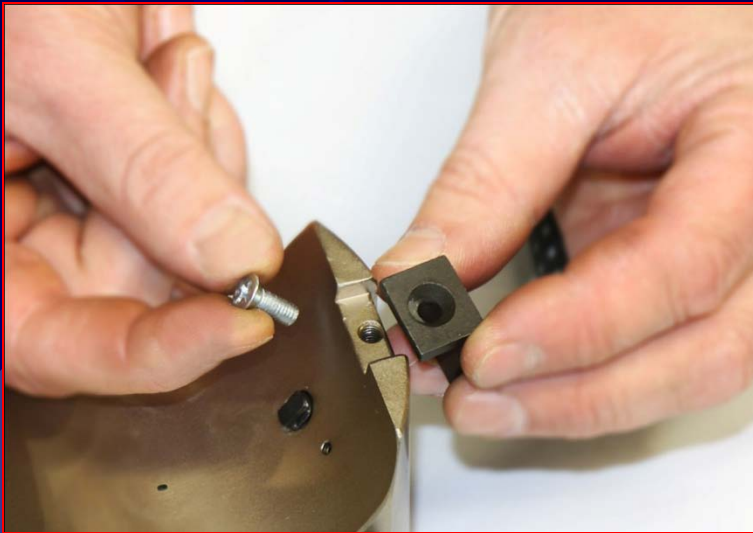
INSTALL THE RAM BUTTON UNTIL DIE RETAINER IS ENGAGED.



INSTALL THE SPRING PIN AND CAREFULLY DRIVE UNTIL FLUSH.



CHECK THE OPERATION OF THE RAM BUTTON & DIE RETAINER.



INSTALL BOTH OF THE "L" KEYS ONTO THE RAM ASSEMBLY.

INNER CYLINDER ASSEMBLY

SM INNER
BACK-UP RING (2)

SM INNER
O-RING



CYLINDER

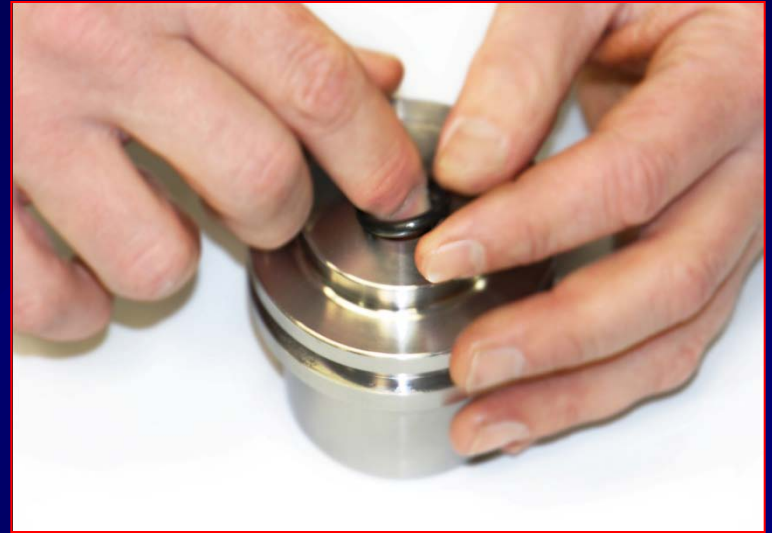


LG OUTER
O-RING

LG OUTER
BACK-UP RING



INSTALL FIRST SMALL
INTERNAL BACK-UP RING
AS SHOWN.



INSTALL THE SMALL INNER O-RING ABOVE THE BACK-UP RING.



INSTALL THE 2ND SMALL BACK-UP RING ABOVE THE O-RING.



INSPECT THAT THE BACK-UP RINGS AND O-RING ARE IN THE CORECT ORDER, AND PROPERLY SEATED.



INSTALL THE LARGE OUTER BACK-UP .



INSTALL THE LARGE O-RING ABOVE THE BACK-UP RING.



INSPECT THAT THE BACK-UP RING AND O-RING ARE IN THE CORECT ORDER, AND PROPERLY SEATED.

INNER PISTON

(SUB ASSEMBLY)



INNER PISTON



BACK-UP RING



O-RING

UPON ASSEMBLY OF THE PARTS SHOWN ABOVE THE INNER PISTON WILL BE ADDED TO THE INNER CYLINDER PRIOR TO INSTALLING THE REMAINING SEALS.



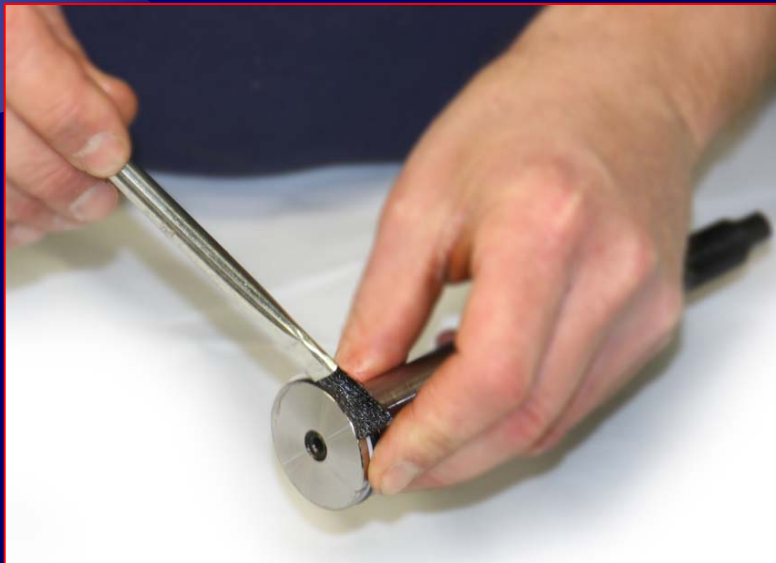
CAREFULLY INSTALL THE O-RING OVER THE PISTON.



INSTALL THE BACK-UP RING ABOVE THE O-RING AS SHOWN.



LUBRICATE THE INSIDE OF
THE INNER CYLINDER AND
THE SEALS THOUROUGHLY.



LUBRICATE THE HEAD AND
SHAFT OF THE INNER PISTON
TO PREVENT DAMAGING THE
EXISTING SEALS.





USE OF A SOFT Mallet MAY BE REQUIRED TO SEAT THE PISTON.



INSPECT THE INNER CYLINDER AND PISTON FOR DAMAGE TO ANY BACK-UP OR O-RING.



LUBRICATE THE CYLINDER
AND SEALS AS SHOWN.



SEAT THE ASSEMBLY INTO
THE BOTTOM OF THE RAM.





**SLIGHT PERSUASION WITH A
SOFT MALLET MAY BE NEEDED
TO SEAT THE CYLINDER.**



**INSPECT THE INNER CYLINDER
AND PISTON FOR DAMAGE TO
ANY BACK-UP OR O-RING.**

INSTALL THE SNAP RING
SECURING THE CYLINDER
INTO THE RAM.



ENSURE THAT THE SNAP
RING IS FULLY SEATED
IN THE RECESS.





INSTALL THE O-RING INTO THE 3RD GROOVE OF THE PISTON.



INSTALL THE SECOND O-RING INTO THE SECOND GROOVE.



INSTALL THE BACK-UP
INTO THE 3RD GROOVE
OF THE PISTON ABOVE
THE O-RING.

DO NOT INSTALL ANY
OTHER BACK-UP RINGS
BEFORE ASSEMBLY HAS
BEEN INSTALLED INTO
THE PRESS HOUSING.



INSTALL THE LARGE O-RING INTO THE PRESS HOUSING.



INSTALL THE BACK-UP RING,
ABOVE THE O-RING, IN THE
RECESS AS SHOWN.





LUBRICATE THE INNER
HOUSING AND SEALS
THOROUGHLY.

ENSURE THAT THE
O-RING AND THE
BACK-UP ARE
SEATED FLUSH TO
THE HOUSING.





INSERT THE RAM INTO THE HOUSING. TURN SLIGHTLY, LOWER, AND ALIGN "L" KEY WITH RECESS IN HOUSING.



ROTATE THE RAM INTO THE RECESS AND ALIGN AS SHOWN.

PRESS THE DIE BUTTON
AND INSERT A TEST DIE
INTO THE RAM.



USE A SOFT MALLET
TO SEAT THE RAM INTO
THE PRESS HOUSING.





INSTALL THE REMAINING PISTON SEAL PARTS AS SHOWN.



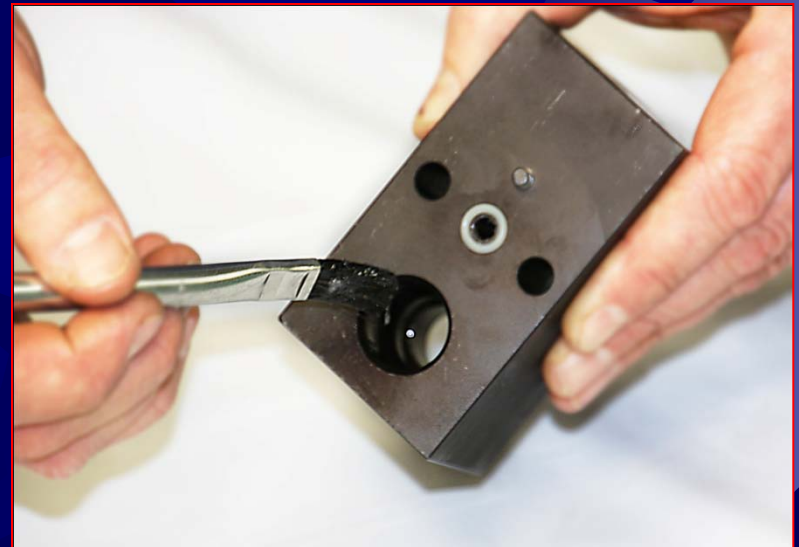
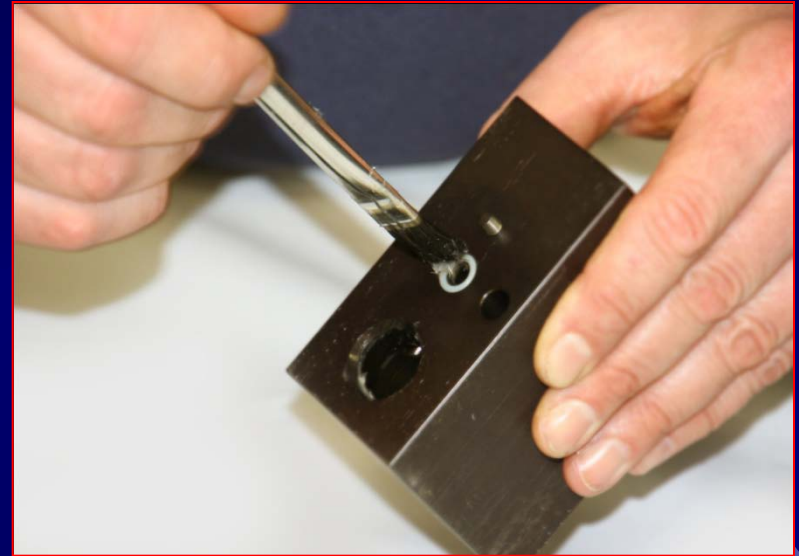
THOROUGHLY LUBRICATE THE PISTON SHAFT AND SEAL PRIOR TO INSTALLATION OF THE VALVE BODY.

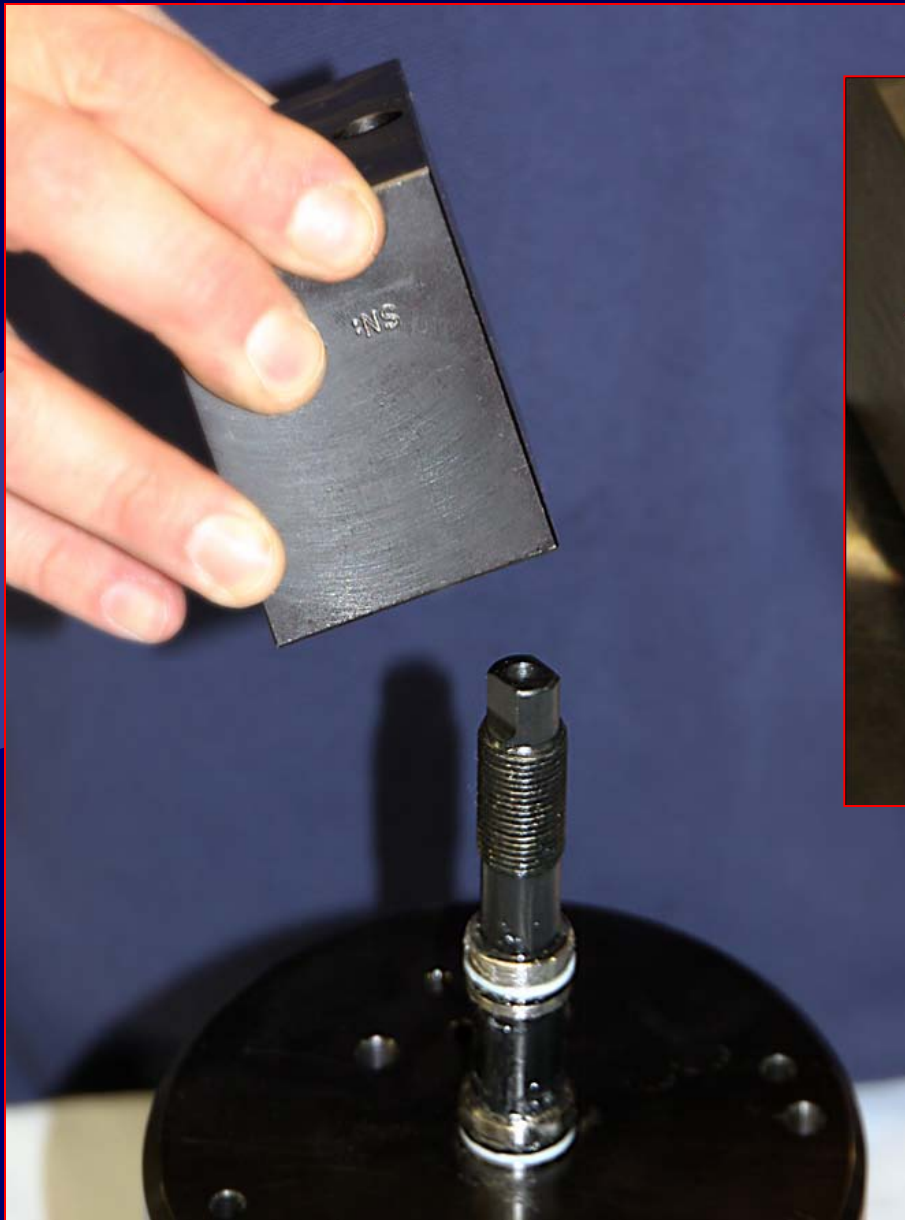


INSERT THE O-RING INTO
THE VALVE BODY.

NOTE THE GUIDE PIN JUST
BEHIND THE SEAL.

LUBRICATE THE SEAL AND
THE PISTON PORT. (RIGHT)





INSTALL THE VALVE
BODY OVER THE
PISTON SHAFT.

ALIGN THE GUIDE PIN
WITH HOLE IN THE
PRESS HOUSING.



INSTALL THE WASHER.



INSTALL THE LOCK WASHER.



INSTALL THE NUT.



TIGHTEN THE ASSEMBLY.



INSERT AND TIGHTEN BOTH SOCKET HEAD CAP SCREWS.



ADAPTER, MALE COUPLER, & CAP.



APPLY PIPE DOPE TO ADAPTER.



THREAD COUPLER ONTO ADAPTER.



TIGHTEN THE ASSEMBLY.



INSTALL PLUMBERS TAPE.



INSTALL THE LEASH RING.



THREAD INTO VALVE BODY.



TIGHTEN THE ASSEMBLY.



FEMALE COUPLER & CAP



INSTALL PLUMBERS TAPE.



INSTALL THE LEASH RING.



INSTALL ONTO VALVE BODY.



INSERT HOIST RING
INTO MOUNTING BLOCK



INSTALL ONTO HOUSING.



DRIVE THE PIN INTO HOUSING.



INSERT HOIST RING
INTO MOUNTING BLOCK &
INSTALL ONTO HOUSING



DRIVE THE PIN INTO HOUSING.



INSERT AND TIGHTEN BOTH SOCKET HEAD CAP SCREWS.



PLACE PRESS INTO STAND AND INSTALL CRADLE ASSEMBLY.



PLACE PRESS INTO STAND AND INSTALL CRADLE ASSEMBLY.

THE PRESS ASSEMBLY
IS COMPLETE.



INSTALL A 10,000 PSI
HIGH PRESSURE HOSE
ASSEMBLY ONTO THE
60 TON PRESS FOR
TESTING OPERATION.





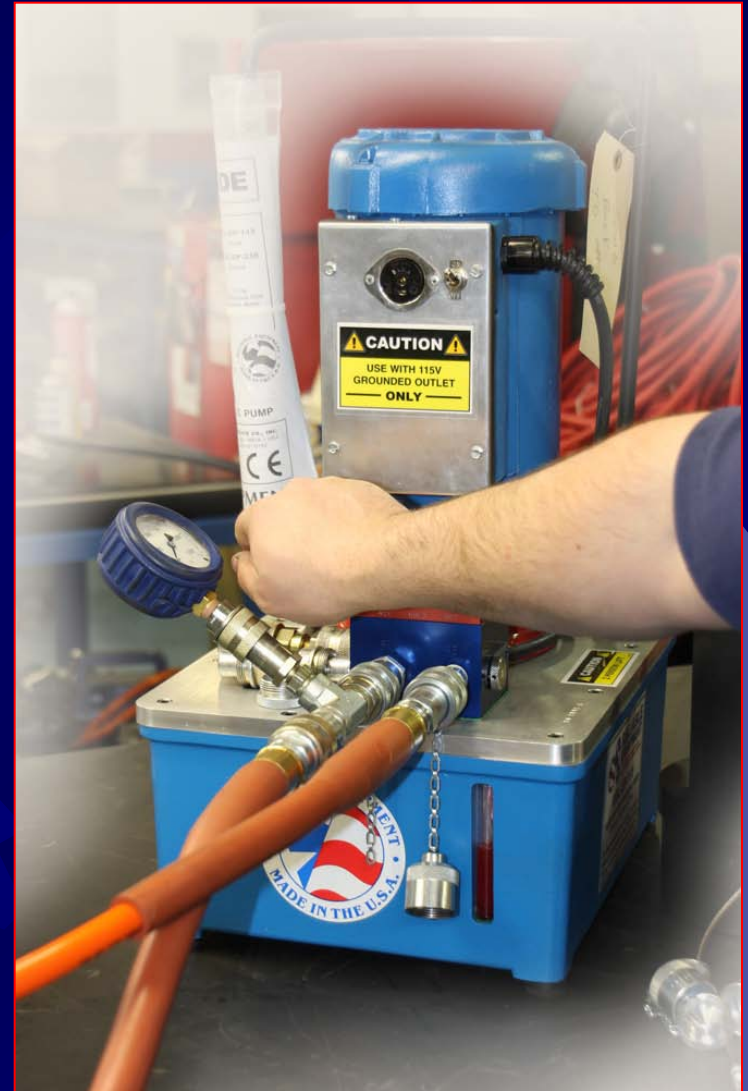
PRESS DIE RELEASE AND
SLIDE LOWER DIE INTO RAM.



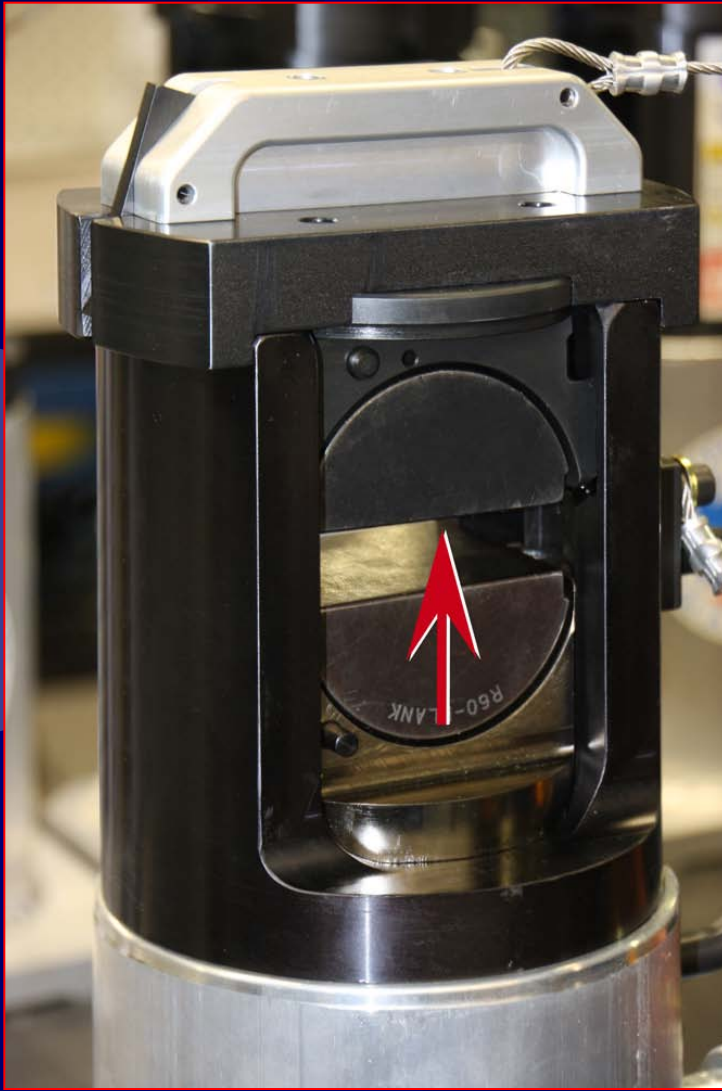
PRESS RELEASE AND SLIDE
UPPER DIE INTO CRADLE.



TURN ON THE PUMP.



ACTIVATE PUMP. **(ADVANCE)**



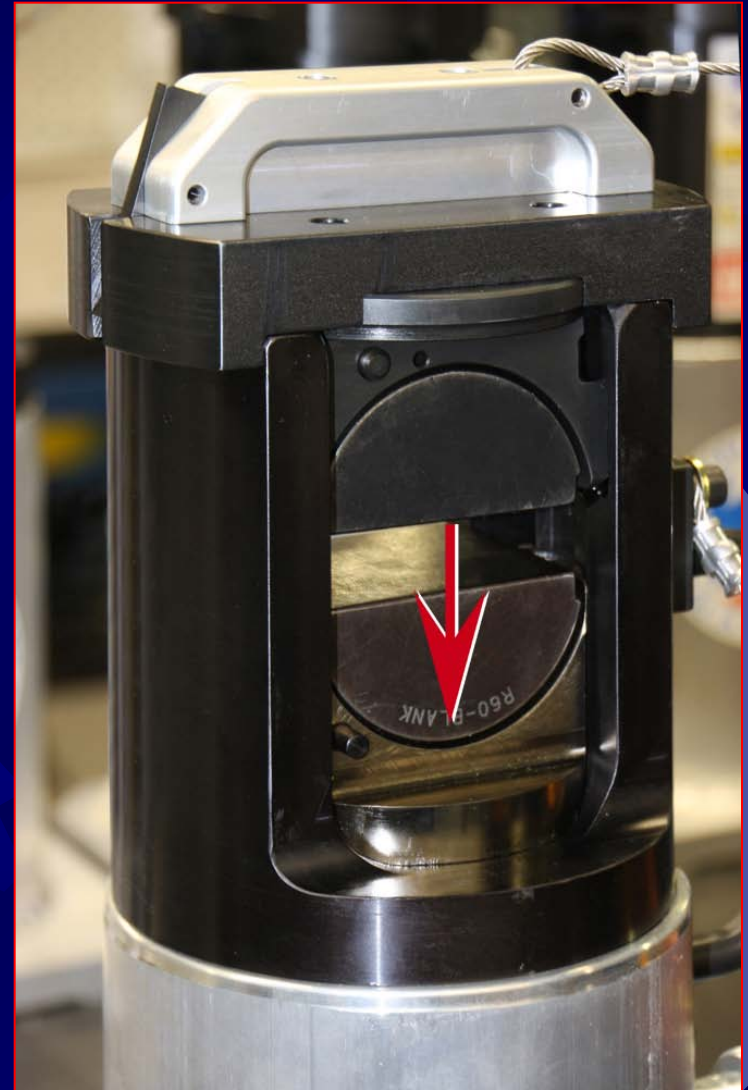
OBSERVE RAM ACTION.



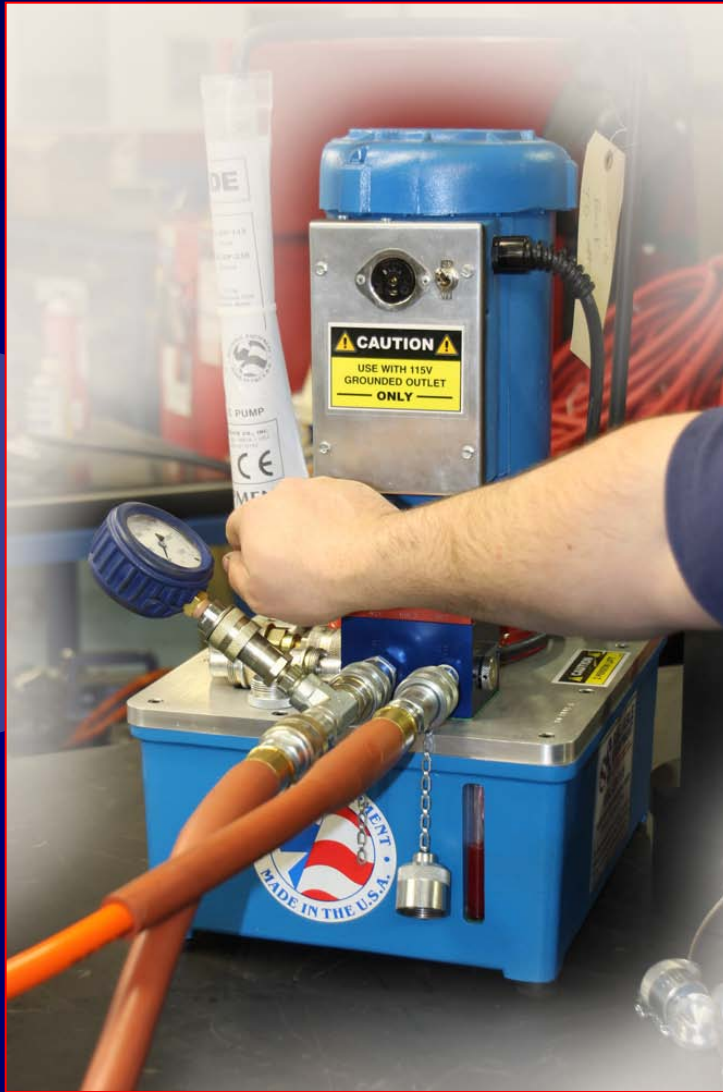
DIES CLOSE COMPLETELY.



ACTIVATE PUMP. **(RETURN)**



RAM SHOULD RETRACT.



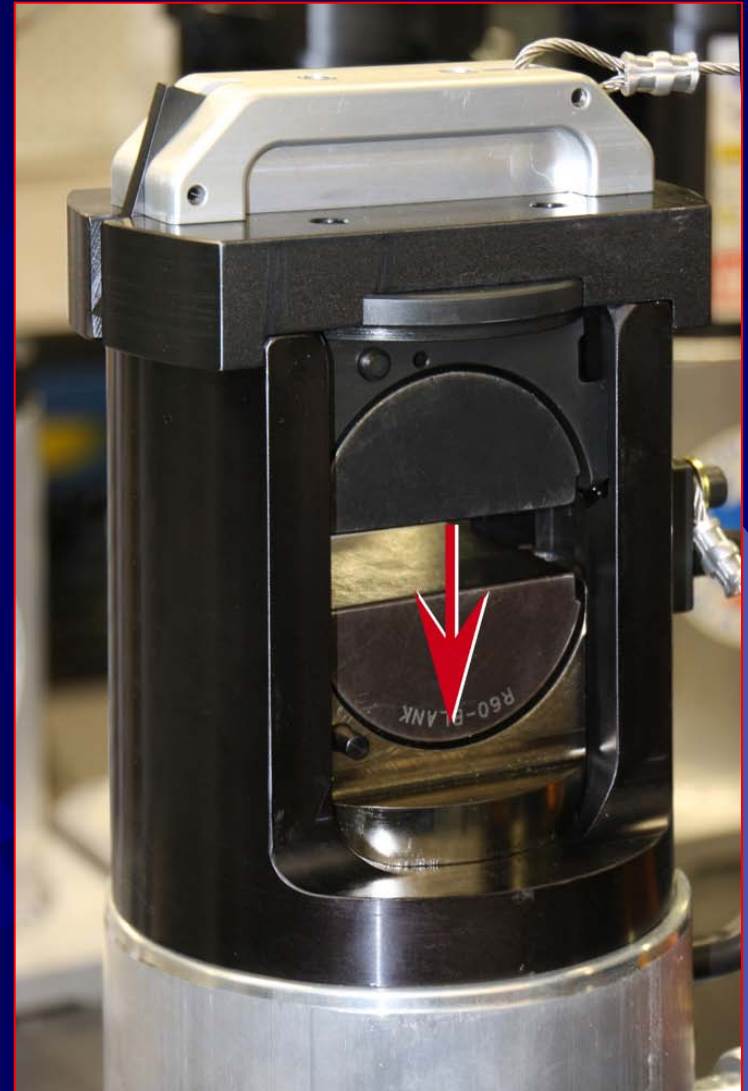
REPEAT: ACTIVATE PUMP. (ADV)
OBSERVE PRESSURE AT GAUGE.



PRESSURE RELIEF SHOULD
ACTIVATE AT 10,000 + PSI.



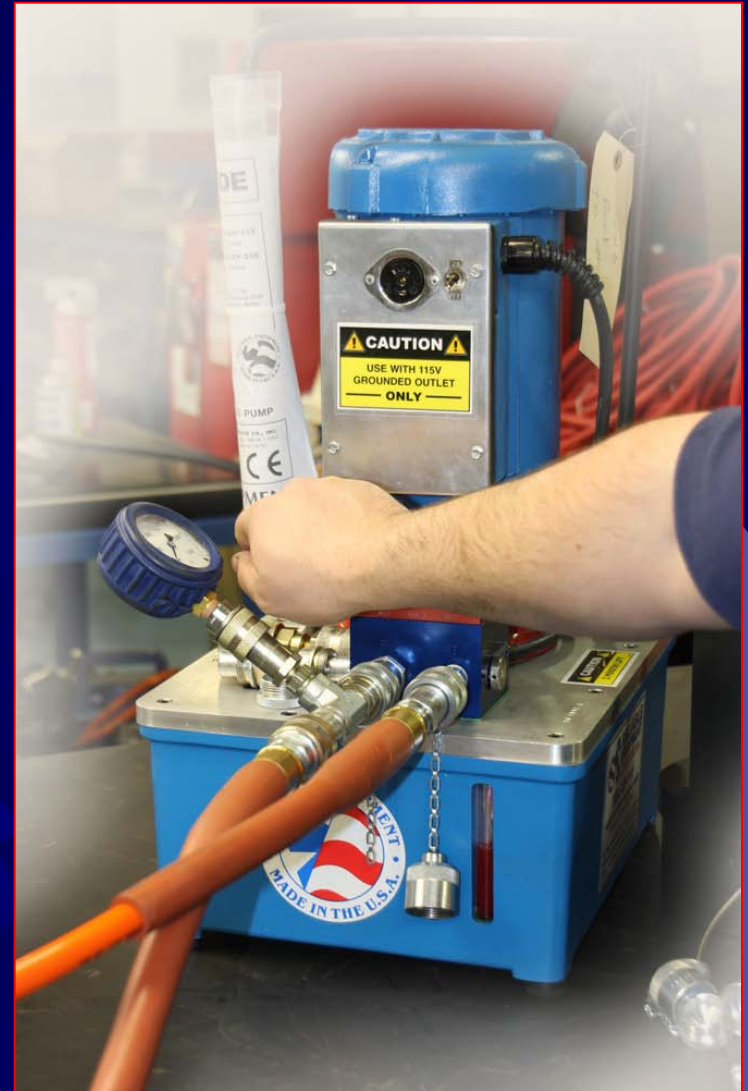
ACTIVATE PUMP. **(RETURN)**



RAM SHOULD RETRACT.
REPEAT AS REQUIRED.



TURN OFF THE PUMP.



MOVE VALVE TO RELEASE
ANY RESIDUAL PRESSURE.



PRESS DIE RELEASE AND
REMOVE DIE FROM RAM.



PRESS RELEASE & REMOVE
UPPER DIE FROM CRADLE.



TESTING IS COMPLETE.

DISCONNECT HOSES
AND WIPE DOWN THE
PRESS PRIOR TO
INSTALLING LABEL SET.





RELIABLE EQUIPMENT

**CRAFTED WITH PRIDE IN THE U.S.A.
USED WITH CONFIDENCE AROUND THE WORLD**

301 Ivyland Road - Warminster, PA 18974
Phone: 215-357-3500 Toll Free: 800-966-3530
Fax: 215-357-9193