

C6-RSCT / 6-RSCT REMOTE SERVICE CRIMPING TOOL

**OVERALL DIMENSIONS:**

Size:

2.17 x 3.55 x 11.88 inches long
(5.51 x 9.01 x 30.17 cm long)

Head Width:

3.55 inches (9.01 cm)

TOOL WEIGHT:

6.4 lbs. with oil (2.9 kg with oil)

CRIMPING CAPACITY:Copper and aluminum lugs,
splices and H-taps through 4/0.**COUPLERS:**Female Coupler Assembly (Power Team
Part No. 25600-1)**INTRODUCTION**

The 6-RSCT Series Service Crimping Tool is a remote, single-acting, lightweight tool designed for service entrance compression fittings. The slim line C head hydraulic tool accepts the W and O type dies for faster and easier installation as compared to mechanical tools.

 **WARNING****THE 6-RSCT TOOL IS NOT TO BE USED FOR "HOT LINE" WORK.****CAUTION DO NOT OPERATE TOOL WITHOUT DIES****SPECIFICATIONS****TOOL SECTION:****DIE TYPE:**

Tool will accept W, O and D Dies

PISTON DIAMETER:

1.25 inches (3.17 cm)

STROKE:

.93 inches (2.36 cm)

CRIMPING CAPACITY:

6.8 U.S. tons at 10,000 psi (6.2 metric tons at 70,000 kPA/700 BAR)

HEAD ROTATION:

180 Degrees

OIL TYPE:

Amoco Rykon MV

IMPORTANT SAFETY INFORMATION



This is the safety alert symbol.

It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death



DANGER

Denotes an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Denotes a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Denotes a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

Caution used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT

Denotes an operating or service procedure or condition considered essential for expedient and efficient operation and service.



WARNING

It is the operators responsibility to read and understand the following safety statements,

- Only qualified operators should install, operate, adjust, maintain, clean, repair, or transport this machinery.
- Inspect tool before use. Replace any worn or damaged parts. Failure to observe these warnings can result in severe injury or death.



WARNING

Keep hands away from the crimping tool head when crimping.



WARNING To help prevent personal injury,



- Always wear eye protection whenever operating hydraulic equipment.



- Always wear hearing protection as required.

- Operation, repair, or maintenance of hydraulic equipment should be performed by a qualified person who understands the proper function of hydraulic equipment per local directives and standards.
- Hydraulic equipment must be assembled correctly and then checked for proper function before use. Use hydraulic components of the same hydraulic pressure ratings. An appropriate hydraulic pressure gauge is recommended to monitor pressure.



- Never place your hands or other body parts near a hydraulic fluid leak. Never use your hands or other body parts to check for a possible leak.

High pressure fluid can be injected under your skin causing serious injury and/or infection.



- Exercise caution to avoid the risk of fire. An incomplete crimp can cause a fire. Use proper die, connector and cable. Improper combinations can result in an incomplete crimp.



- This tool is not insulated. When using this unit near energized electrical lines, use proper personal protective equipment.



CAUTION

- This tool is intended for two-handed operation. Maintain a firm grip on both handles during operation. Using this tool in any other manner can result in injury or equipment damage.

IMPORTANT

- Properly dispose of all fluids, components, and assemblies at the end of their useful life.
- Hydraulic fluid should be compatible with all hydraulic components.

OPERATING INSTRUCTIONS

Select the proper dies for use on the accessory to be compressed. Push the die release button on the C-head and slide one of the identical die-halves into position. The die retainer pin locks the die in place.

The connection of the compressor and the hydraulic hose is quickly and easily made by the use of a quick coupler, the female half being part of the compressor and the male half located on one end of the hydraulic hose. With this connection properly made, the ball check valves in both female and male halves of the quick coupler are open to permit free oil flow.

Connect compressor and hose to any suitable hydraulic pump that has a pressure output of 10,000 psi. The mating half of quick coupler supplied with crimper is Power Team Part No. 25600-1. Pump should be equipped with a 2 or 3-way valve. Put the valve in the retract position and retract compressor piston fully.

Place the compressor in position over the accessory to be compressed. If the accessory is larger in diameter than the throat opening of the C-head, put the compressor over the conductor and then slide it over the accessory in the correct position for the first compression.

Place valve in advance position and advance piston with pump. When the dies touch on the frame side, compression is complete.

Release the pressure at the pump and the lower die-half will retract. When compressing connectors, overlap each bite of the dies just enough to make a smooth continuous compressed section.



WARNING

Do not use the compressor for any purpose other than that for which it was designed. This tool has been manufactured to precision tolerances. It should be used with the same care and attention as any other fine piece of equipment.

SERVICE INSTRUCTIONS

REPLACING HYDRAULIC SEALS AND SPRINGS

Maintenance and repair of this tool should be provided with the same reasonable care given other fine equipment. Service should be performed by adequately trained personnel in repair shops under clean conditions. For those owners having adequately staffed repair facilities, a repair kit No. 4-1084 containing O-rings, gaskets, etc., needed for one complete replacement of hydraulic seals and springs in the compressor. Include compressor serial number when ordering all parts.

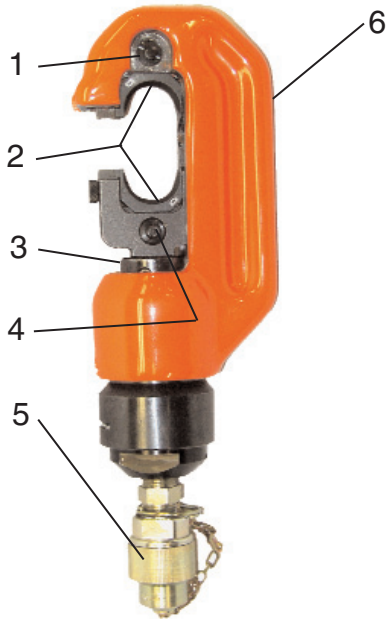
1. Connect hose from pump with 10,000 psi output to female coupler on tool. Advance piston (2) far enough to expose the 2 set screws (8). Remove screws. Remove die holder assembly (5) and die holder nut (3) and set aside.
2. Retract piston completely to release all pressure. Place tool in vise so coupler assembly faces straight up as shown. Remove coupler (7) and dust cap (10).
3. Remove set screw (12) and set aside. Rotate cylinder (1) counter-clockwise until loose and remove. Pull out piston (2), inner spring (14) and outer spring (13).
4. Replace back-up ring (11) and O-ring (9) as shown. Lubricate rings and insert into cylinder. Replace inner spring and outer spring onto piston shaft.
5. Position cylinder/ piston assembly into end of C-head so piston shaft lines up with hole as shown. Rotate cylinder clockwise until it just stops. Back off 1/2 to 1 full turn. Insert set screw (12) and screw in 1 or 2 threads below surface on C-head. Check to see if C-head will rotate 180 degrees. If not, loosen set screw and adjust C-head until there is a full 180 degrees of rotation.

SERVICING INSTRUCTIONS

REPLACING HYDRAULIC SEALS (continued)

6. Connect hose from pump to female coupler. Advance piston far enough to expose set screw (8) holes. Thread die holder nut (3) onto end of piston shaft. Insert die holder assembly (5) into end of piston shaft. Insert set screws (8) and tighten securely. Retract piston completely and tighten die holder nut.

7. Bleed tool by advancing and retracting piston 3 or 4 times to release any trapped air. Tool is ready for use.



Illustration

- | | |
|---------------------------|-----------------------------|
| 1. Top Die Release Button | 4. Lower Die Release Button |
| 2. Die half | 5. Coupler |
| 3. Piston | 6. C-Head |

REPLACING RELEASE BUTTON ASSEMBLIES

1. Use a spanner wrench to remove 1 set screw (3) from either side of release button assembly.
2. Pull out release button (1), spring (4) and retention collar (2).
3. Replace any parts and re-assemble by inserting spring, retention collar, release button and set screw back into chamber. Tighten set screw with spanner wrench.

COMPATIBLE HYDRAULIC FLUIDS:

The use of Amoco Rykon MV oil is recommended. Compatible fluids include:

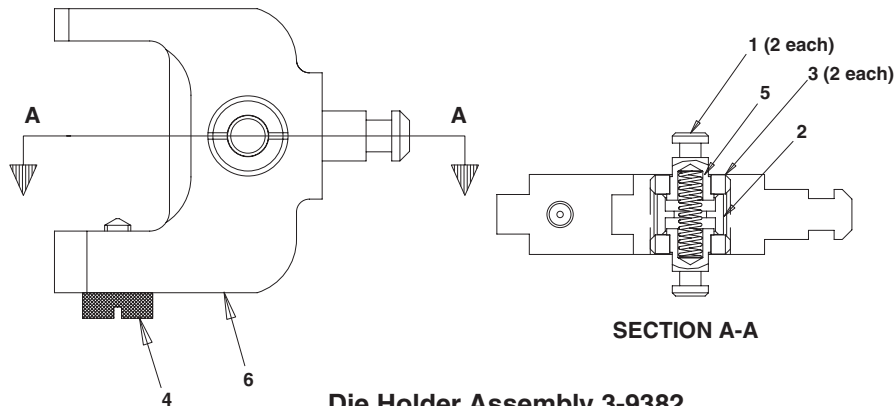
Mobil DTE 13 Mobil ATF 220 Shell Tellus 32 Arco Dexron III Citgo AW32 Citgo Dexron III

Other fluids also may be used if they meet or exceed the following specifications:

Viscosity: 181 SSU at 100 degree F.

Flash Point: 350 degree F

Pour Point: -50 degree F:



Die Holder Assembly 3-9382

| Item No. | Part No. | No. Req'd | Description | Item No. | Part No. | No. Req'd | Description |
|----------|----------|-----------|--------------------|----------|----------|-----------|-------------|
| 1 | 4-0137 | 2 | Button, Release | 4 | 4-0372 | 1 | Screw, Die |
| 2 | 3-9339 | 1 | Collar, Retention | 5 | 5-3739 | 1 | Spring |
| 3 | 3-9340 | 2 | Screw, Hollow Lock | 6 | 3-9322 | 1 | Die Holder |

CAUTION DO NOT USE BRAKE FLUID OF ANY KIND.

PREVENTIVE MAINTENANCE

The majority of service troubles are caused by dirt collecting about the tool or in the oil system. Keep the tool clean and prevent foreign matter from entering the compressor while filling the remote pump reservoir. Refer to the "Specifications" for the proper oil when replenishing or replacing the fluid.

Wipe clean both sections of the quick coupler before connection and replace dust caps after disconnection. Lubricate all moving parts and keep the piston guide screw tight.

TROUBLE SHOOTING

If the dies do not close, it will generally be found that the pump being used does not develop sufficient pressure or that there is a deficiency of oil.

If the ram will not retract completely, it will generally be found that there is too much oil in the hydraulic system. Drain enough to permit complete retraction. If the ram will not retract and the oil reservoir is not full, the trouble can usually be traced to one of the "quick" couplers that was not tightly connected prior to use. If male and female halves are not snugly tightened, the ball check valves are not forced completely open. The hydraulic pressure developed by the pump can force oil past these partly open valves, but the pressure developed by the piston retracting spring is not enough to force the oil back past them. If this is the case, it may be necessary to use pliers or a wrench to close the coupler. See "Replacing Hydraulic Seals" for corrective action.

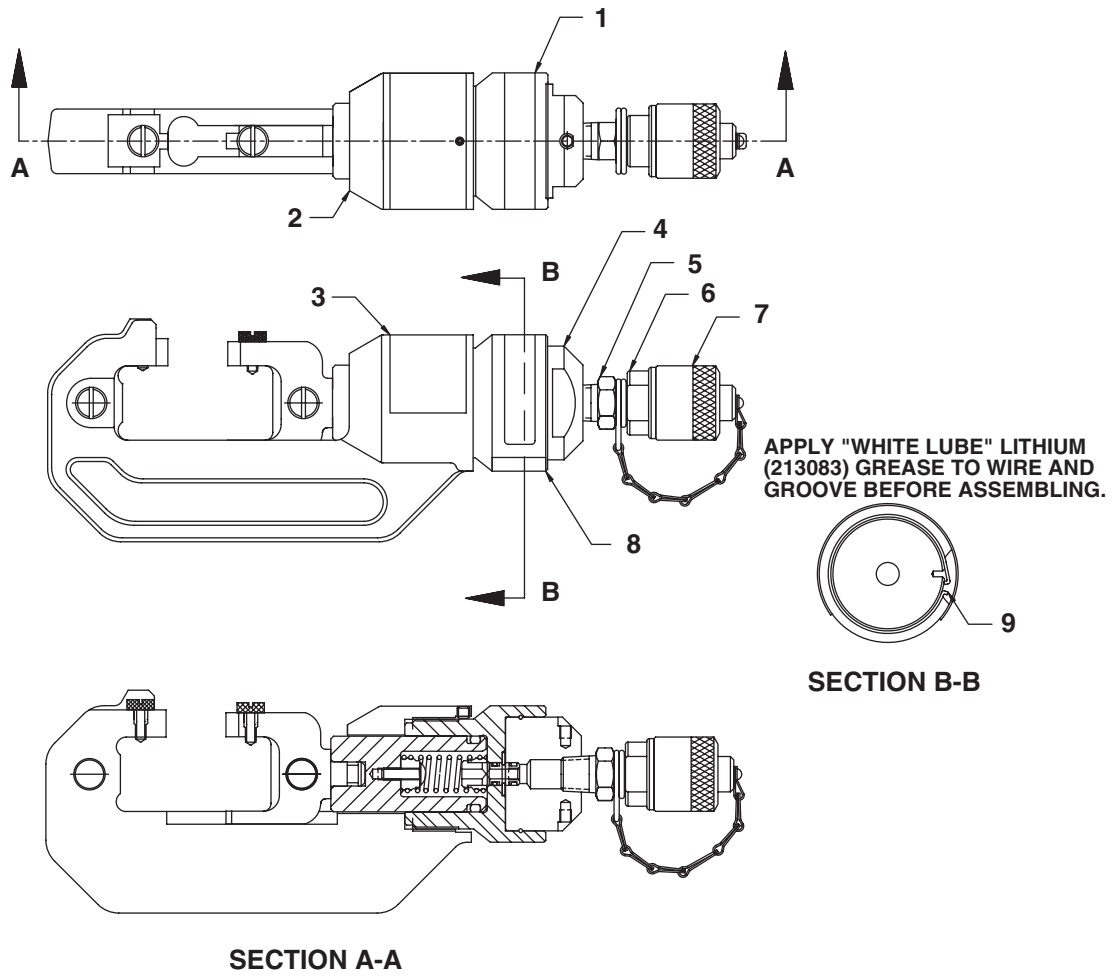
Excessive oil leakage around the piston is usually caused by worn piston seals. A small amount of leakage is acceptable for lubrication.

If the dies will not close, check the die number to make certain the proper size die is being used on the accessory. This trouble may also be caused by the pressure relief valve in the pump being set too low. If the dies will not close and pumping becomes easier, usually additional oil is needed in the hydraulic system.

If the dies do not lock in position, the action of the retaining pins is probably restricted by dirt. Clean and oil these parts.

If it is difficult to unlock the die-haves, the die release buttons should be lubricated. The die retaining pin set screw in the C-head above the die release button is staked in position. To further tighten this screw will make it difficult or impossible to release the die.

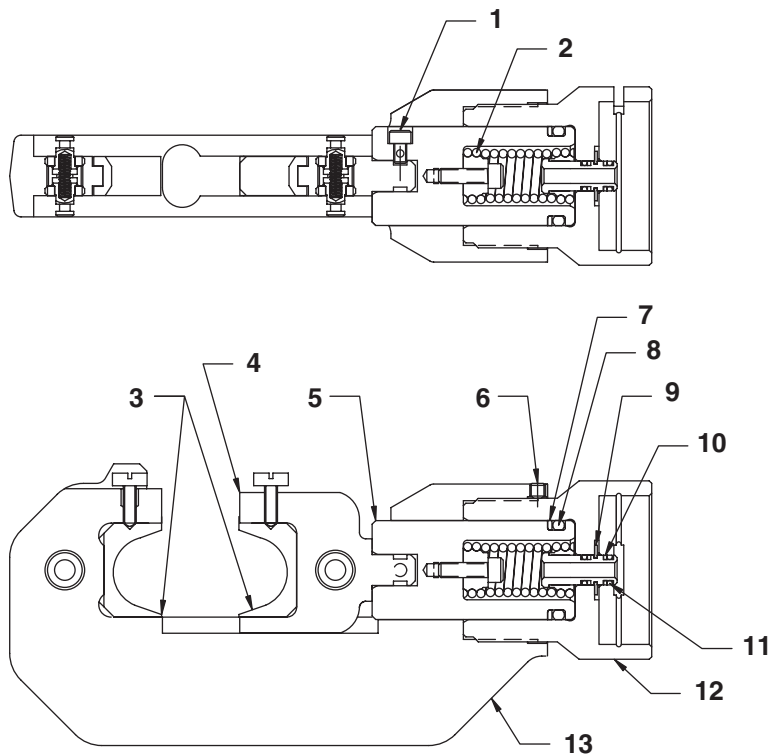
PARTS LIST



C6-RSCT & 6-RSCT

| Item No. | Part No. | No. Req'd | Description | Item No. | Part No. | No. Req'd | Description |
|----------|----------|-----------|-------------------------------------|----------------|----------|----------------|-------------------------------|
| 1 | 1000055 | 1 | Decal, (Wrap Around Warning) | 7 | 9799 | 1 | Cap, Dust |
| 2 | 3000097 | 1 | C-Head/Cylinder Assembly | 8 | 1000056 | 1 | Decal, (Tradename Power Team) |
| | 3000230 | 1 | C-Head/Cylinder Assembly (uncoated) | 9 | 3-9678 | 1 | Wire, Retaining |
| 3 | 420691 | 1 | Decal, Product Blank | Item Not Shown | | | |
| 4 | 3-9990 | 1 | Cap, End | 3-9440-OR9 | 1 | Case, Carrying | |
| 5 | 10673 | 1 | Fitting, Straight (3/8" NPTF) | | | | |
| 6 | 9798 | 1 | Coupler, Hose Half (3/8" NPTF) | | | | |

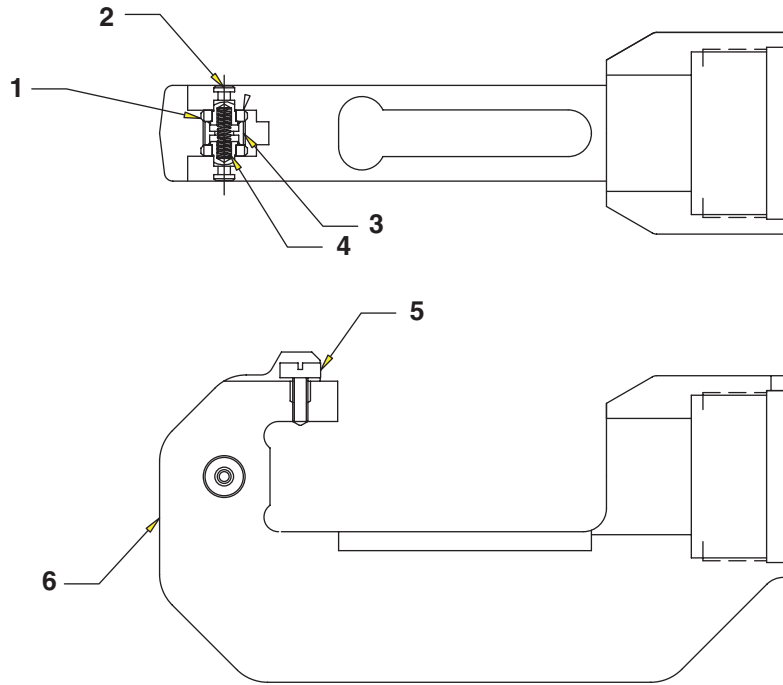
PARTS LIST



3000097 & 3000230

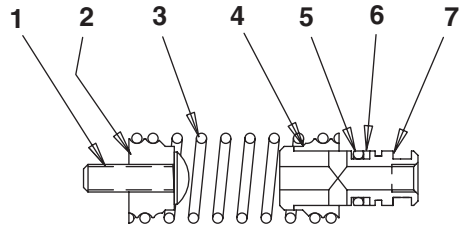
| Item No. | Part No. | No. Req'd | Description | Item No. | Part No. | No. Req'd | Description |
|----------|----------|-----------|------------------------------|----------|----------|-----------|--------------------------|
| 1 | 5-0214 | 1 | Screw, Set | 8 | 10279 | 1 | O-Ring |
| 2 | 4-0695 | 1 | Spring, Assembly, Retraction | 9 | 11032 | 1 | Ring, Retaining |
| 3 | 3-9799 | 2 | D-Die | 10 | 5-3245 | 1 | Ring |
| 4 | 3-9382 | 1 | Die Holder Assembly | 11 | 10266 | 1 | O-Ring |
| 5 | 4-0737 | 1 | Piston | 12 | 4-0738 | 1 | Cylinder |
| 6 | 5-0341 | 1 | Screw, Set - #10-32 x 3/16 | 13 | 3000096 | 1 | C-Head Assembly |
| 7 | 19140 | 1 | Ring, Back-Up | | 4-0772 | 1 | C-Head Assembly uncoated |

PARTS LIST



C-Head Assembly - 3000096 & 4-0772

| Item No. | Part No. | No. Req'd | Description | Item No. | Part No. | No. Req'd | Description |
|----------|----------|-----------|--------------------------|----------|----------|-----------|-----------------|
| 1 | 3-9340 | 2 | Screw, 1/2-20 x 1/8 lock | 6 | 2000151 | 1 | C-Head |
| 2 | 4-0137 | 2 | Button, Release | | 4-0773 | 1 | C-Head uncoated |
| 3 | 3-9339 | 1 | Collar, Retention | | | | |
| 4 | 5-3739 | 1 | Spring, Compression | | | | |
| 5 | 3-9341 | 1 | Screw, #8-32 x 1/2 | | | | |



Retraction Spring Assembly - 4-0695

| Item No. | Part No. | No. Req'd | Description | Item No. | Part No. | No. Req'd | Description |
|----------|----------|-----------|----------------------------|----------|----------|-----------|---------------|
| 1 | 5-3880 | 2 | Screw, #10-32 x 5/8 B.H.C. | 5 | 5-0011 | 1 | O-Ring |
| 2 | 4-0697 | 1 | Retainer, Fixed Spring | 6 | 5-3245 | 1 | Ring, Back-up |
| 3 | 4-1263 | 1 | Spring, Tension | 7 | 4-0699 | 1 | Tube Transfer |
| 4 | 4-0698 | 1 | Retainer, Swivel Spring | | | | |