

INSTALLATION MANUAL

REF NO. BA01014A

DATE August 08, 2003

(C)

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This Parts & Service News supersedes the previous issuance, BA01014, dated August 20,, 2001. BA01014 should be discarded.

SUBJECT: INSTALLING AUTOMATIC LUBRICATION SYSTEM COMPONENTRY ON BOOM AND BUCKET LINKAGE

PURPOSE: Provide instructions for local installation of automatic lubrication system to boom and bucket joints.

APPLICATION: Komatsu Wheel Loaders: WA800-2L A20001 thru A20019
WA800-2LC A20020 & UP
WA800-3LC A50001 thru A50014;
A50016 thru A50022
WA900-1L A20001 - A20007
WA900-1LC A20008 thru A20021
WA900-3LC A50001 thru A50015

FAILURE CODE: 7110Z9

DESCRIPTION: This bulletin provides recommendations for protecting lube system components and for calculating grease delivery to the boom linkage.

Automatic lubrication systems are installed on machines for the purpose of increasing machine availability time and reducing service costs. In the past wheel loaders have not been able to successfully utilize an automatic lubrication system on the boom because of exposure to materials such as falling rock that may damage lube system components. Other complications include failure to determine the correct injector size and failure to properly adjust the injectors for adequate lubrication.

A rework has been developed to allow safe installation of automatic grease lines to boom and bucket joints. The rework consists of the installation of welded and bolted covers, guards, and other various components to allow for protection of the lube system against external dangers. The information provided in this bulletin includes the following information, vital to successful installation of the automatic lubrication system on boom components:

- Injector size, settings, and location
- A parts chart applicable to WA800/WA900 machines with standard and high-lift booms
- Welding specifications for rework of boom and linkage components
- Installation drawings for layout of injectors, piping, and protective covers

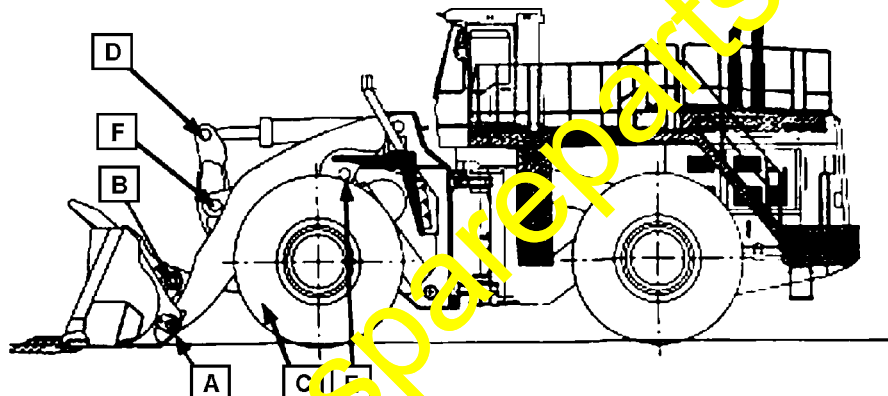
INJECTORS AND GREASE RECOMMENDATIONS

INJECTOR MODELS

- Lincoln model SL-1
Discharge: adjustable, 0.13 to 1.31 cc (0.008 to 0.080 in³) per cycle
- Lincoln model SL-11
Discharge: adjustable, 0.82 to 8.20 cc (0.05 to 0.50 in³) per cycle

LOCATION OF INJECTORS

- a bank of SL-1 injectors to be installed on the bellcrank
- a bank of SL-1 injectors to be installed on the right hand boom arm
- one SL-11 injector to be installed on the right hand boom arm
- one SL-11 injector to be installed on the left hand boom arm



| Inject | Location | Injector setting: full open | | | | |
|--------|----------------------|-----------------------------|----------|-------|--------|--------|
| | | Injector output | | 5 min | 10 min | 15 min |
| | | Cu.in/rev | cc.rev | cc/h | cc/h | cc/h |
| SL-1 | B Bucket link Front | .016~.16 | 262~2.62 | 31.44 | 15.72 | 10.48 |
| SL-1 | C Bucket link Rear | .016~.16 | 262~2.62 | 31.44 | 15.72 | 10.48 |
| SL-1 | F Bellcrank center | .008~.08 | 131~1.31 | 15.72 | 7.86 | 5.24 |
| SL-1 | F Bellcrank center | .008~.08 | 131~1.31 | 15.72 | 7.86 | 5.24 |
| SL-1 | D Bucket cyl. Rod | .008~.08 | 131~1.31 | 15.72 | 7.86 | 5.24 |
| SL-11 | A Bucket hinge (LH) | .05~.5 | .82~8.2 | 98.4 | 49.2 | 32.8 |
| SL-11 | A Bucket hinge (RH) | .05~.5 | .82~8.2 | 98.4 | 49.2 | 32.8 |
| SL-1 | E Boom cyl. Rod (LH) | .008~.08 | 131~1.31 | 15.72 | 7.86 | 5.24 |
| SL-1 | E Boom cyl. Rod (RH) | .008~.08 | 131~1.31 | 15.72 | 7.86 | 5.24 |

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FIGURE 1. INJECTOR LAYOUT

| PARTS LIST CHART | | | | | | | |
|---------------------------|--------------|-------------|-------------------------|----------|-------------|----------|-------------|
| | Part Number | Description | Quantity | 800 Std. | 800 Hi-Lift | 900 Std. | 900 Hi-Lift |
| WELD ON COMPONENTS (BOOM) | 01571-01218 | Seat | 2 | X | X | X | X |
| | 01573-24407 | Seat | 1 | X | X | X | X |
| | 195-54-23640 | Seat | 3 (Hi Lift) 4 (Std.) | X | X | X | X |
| | 416-878-1270 | Seat | 12 | X | X | X | X |
| | 418-907-1J10 | Boss | 2 | X | X | X | X |
| | 425-46-12L40 | Seat | 2 | X | X | X | X |
| | 427-S95-1340 | Plate | 2 | X | X | X | X |
| | 427-S95-1420 | Coupling | 1 | X | | X | X |
| | 427-S95-3230 | Plate | 1 | X | X | X | X |
| | 427-S95-3240 | Plate | 1 | | X | X | X |
| | 427-S95-3250 | Plate | 1 | X | X | X | X |
| | 427-S95-3280 | Plate | | X | X | X | X |
| | 427-S95-3350 | Plate | | X | X | X | X |
| | 561-89-43120 | Boss | 4 | X | X | X | X |
| WELD ON (BELL CRANK) | 01571-01016 | Seat | 2 | X | X | X | X |
| | 01573-22306 | Seat | 1 | X | X | X | X |
| | 01573-24409 | Seat | 1 | X | X | X | X |
| | 425-S95-1250 | Seat | 1 | X | X | X | X |
| | 427-S95-1640 | Bracket | 1 | X | X | X | X |
| | 427-S95-3510 | Bracket | 1 | X | X | X | X |
| | 427-S95-3322 | Seat | 1 | X | X | X | X |
| WELD ON (LINK) | 01571-01016 | Seat | 1 | X | X | X | X |
| | 427-S95-A310 | Plate | 1 | - | X | - | - |
| | 427-S95-A330 | Plate | 1 | - | X | - | - |
| | 427-S95-3540 | Plate | 1 | - | - | X | X |
| | 427-S95-3550 | Plate | 1 | X | X | X | X |
| | 427-S95-3560 | Plate | 1 | - | - | X | X |

| PARTS LIST CHART | | | | | | | |
|--------------------|---------------|----------------------------|----------|----------|-------------|----------|-------------|
| | Part Number | Description | Quantity | 800 Std. | 800 Hi-Lift | 900 Std. | 900 Hi-Lift |
| LINK | 427-S95-3580 | Plate | 1 | X | - | - | - |
| | 427-S95-3590 | Plate | 1 | X | - | - | - |
| BOLT ON COMPONENTS | 07086-20209 | Hose | 1 | X | X | X | X |
| | 07086-20210 | Hose | 1 | X | X | X | X |
| | 07086-20409 | Hose | 1 | X | X | X | X |
| | 07283-35158 | Clip | 4 | X | X | X | X |
| | 07283-55161 | Seat | 4 | X | X | X | X |
| | 427-S95-1110 | Cover, Lower grease lines | 4 | X | X | X | X |
| | 427-S95-1123 | Cover, LH at bucket | 1 | X | X | X | X |
| | 427-S95-1381 | Joint, Connecting | 1 | X | X | X | X |
| | 427-S95-1472 | Cover, RH at bucket | 1 | X | X | X | X |
| | 427-S95-1510 | Bracket, Piping | 1 | X | X | X | X |
| | 427-S95-1520 | Cover | 1 | X | X | X | X |
| | 427-S95-1530 | Joint, Connecting | 1 | X | X | X | X |
| | 427-S95-1541 | Bracket, Coupling | 1 | X | X | X | X |
| | 427-S95-2150 | Tube | 1 | X | X | X | X |
| | 427-S95-2610 | Guard, Hose | 1 | X | X | X | X |
| | 427-S95-2950 | Cover, Bellcrank injectors | 1 | X | X | X | X |
| | 427-S95-3150 | Injector Assembly, SL-1 | 1 | X | X | X | X |
| | 427-S95-3160 | Joint, Connecting | 1 | X | X | X | X |
| | 427-S95-3180 | Injector Assembly, SL-11 | 2 | X | X | X | X |
| | 427-S95-3190 | Cover | 1 | X | X | X | X |
| | 427-S95-3210 | Cover, Grease lines | 1 | X | X | X | X |
| 427-S95-3220 | Cover, RH | 1 | X | X | X | X | |
| 427-S95-3271 | Bracket, SL-1 | 2 | X | X | X | X | |
| 427-S95-3290 | Cover, LH | 1 | X | X | X | X | |

| PARTS LIST CHART | | | | | | |
|------------------|-------------------------|----------|----------|-------------|----------|-------------|
| Part Number | Description | Quantity | 800 Std. | 800 Hi-Lift | 900 Std. | 900 Hi-Lift |
| 427-S95-3331 | Tube | 1 | x | x | x | x |
| 427-S95-3611 | Cover, Link lines | 1 | x | x | x | x |
| 561-95-37450 | Injector Assembly, SL-1 | 1 | x | x | x | x |
| 581-96-19520 | Injector Assembly, SL-1 | 1 | x | x | x | x |
| 581-96-19620 | Cap | 10 | x | x | x | x |

BOLT ON COMPONENTS

▲ IMPORTANT ▲

Block (3), shown in each link rework illustration, Figures 7-9, is not available in the parts system and must be fabricated locally. This item is used on all models. If this block cannot be fabricated locally, the grease hoses may be connected directly to the link. If the hoses are to be connected directly, extreme care must be used to allow the hoses to flex with the movement of the link. The hoses must be tightly secured with clamps or other means to prevent rubbing and chafing. Specifications for the block are given in Figure 10.

⚠ IMPORTANT ⚠

The mounting brackets and guards in this rework have been designed for grouping the injectors as shown in Figure 1. The grease lines are assumed to be hoses fitted in the field and connected with appropriate fittings typically used in field applications. Care must be used when routing hoses beneath the boom center tube. The hoses should be routed along the underside of the tube for better protection. The supply hoses for the bellcrank and link are suspended and should be covered with plastic tube wrap to prevent chafing.

REWORK PROCEDURE

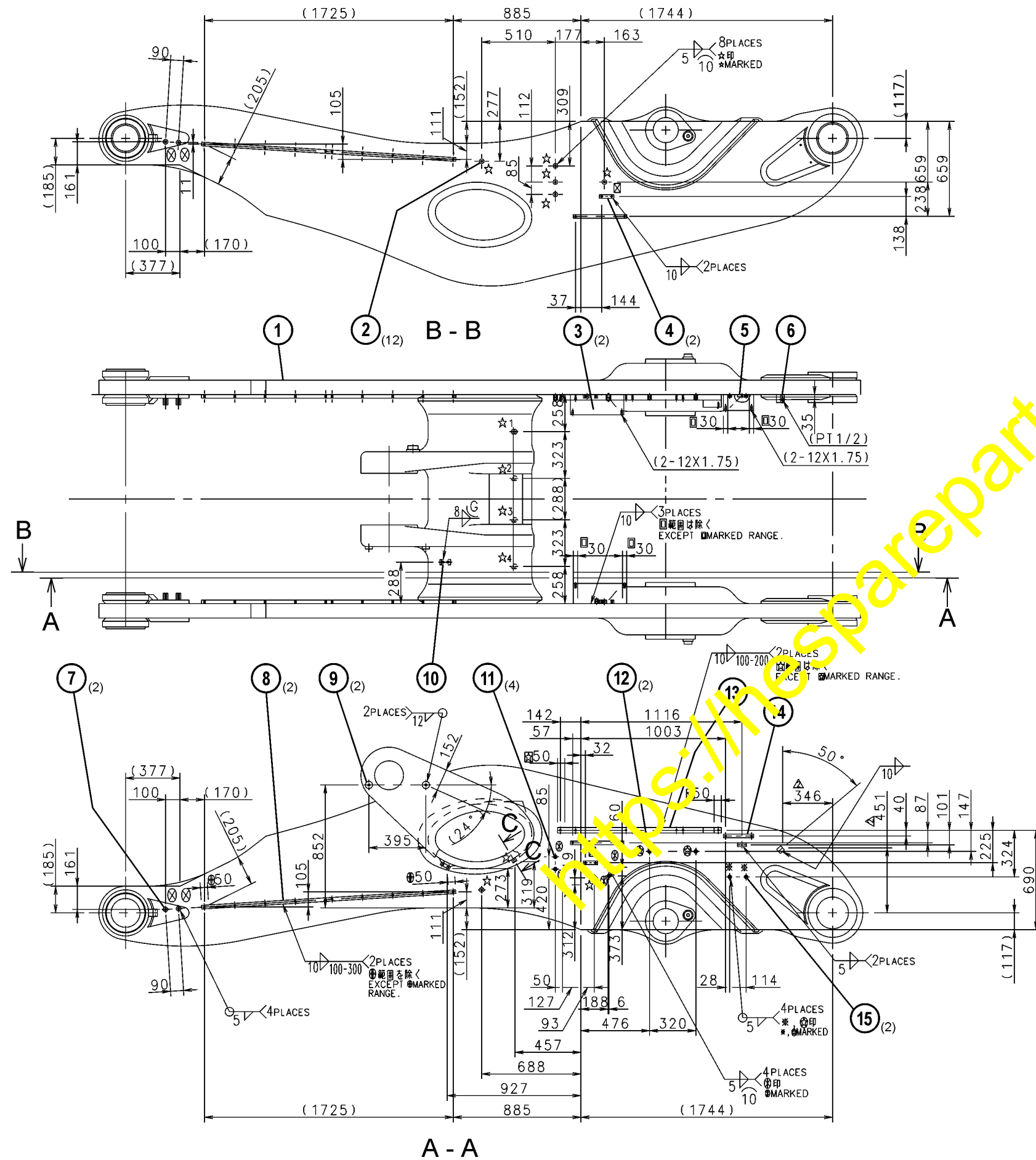
1. Park the machine on a hard, level surface. Engage the parking brake, and chock the wheels.
2. Remove and rework the boom, bellcrank, bucket link, and bucket/bellcrank pin. The rework procedures are shown on the various drawings included in this bulletin.

NOTE: *Ensure that the proper drawings are used when performing the reworks. Drawings included are for WA800, standard and high-lift booms, in addition to WA900, standard and high-lift booms.*

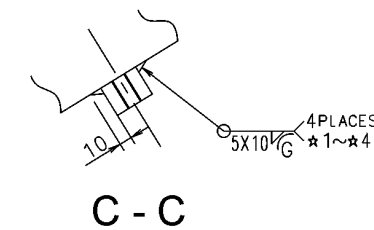
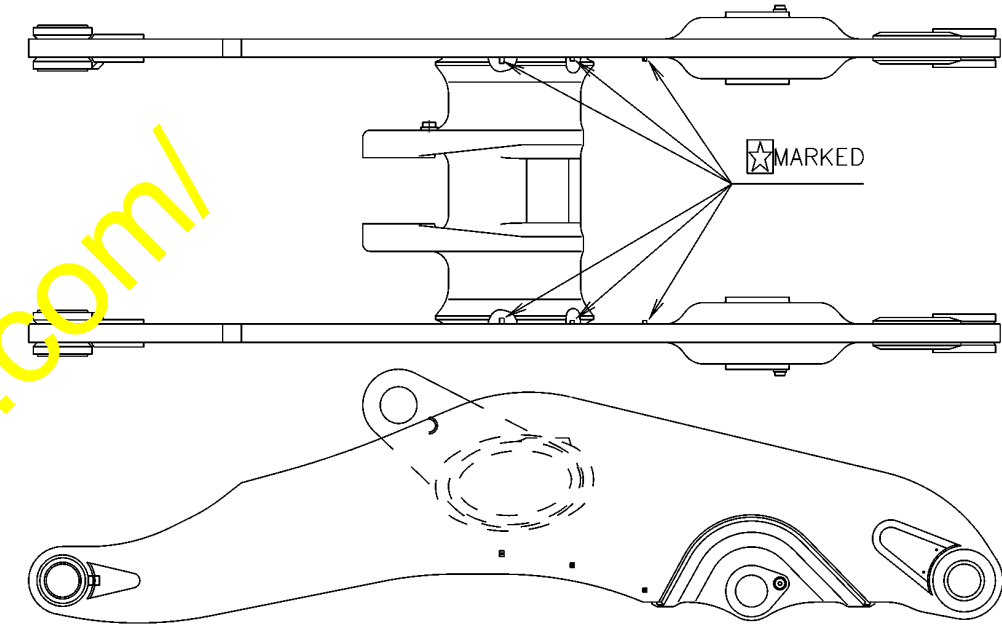
⚠ CAUTION ⚠

Use caution when welding. Ensure that all precautions and safety regulations are observed to avoid causing harm to others and/or to the machine.

3. After the rework of the machine components has been completed, re-install the components on the machine.
4. Install the injectors, piping, and covers. Refer to Figures 12 - 19 for the proper layout of lubrication system components.
5. After installation of the lubrication system, ensure that all hoses are properly routed and secured. Install additional clamps where necessary.
6. Ensure that kinking or chafing of the hoses does not occur.
7. Check the lubrication lines for leaks, and repair as necessary.
8. Ensure that all of the reworked joints are receiving the intended lubrication.
9. Cover any exposed hoses with plastic tube wrap for protection.



Remove seats marked before rework.

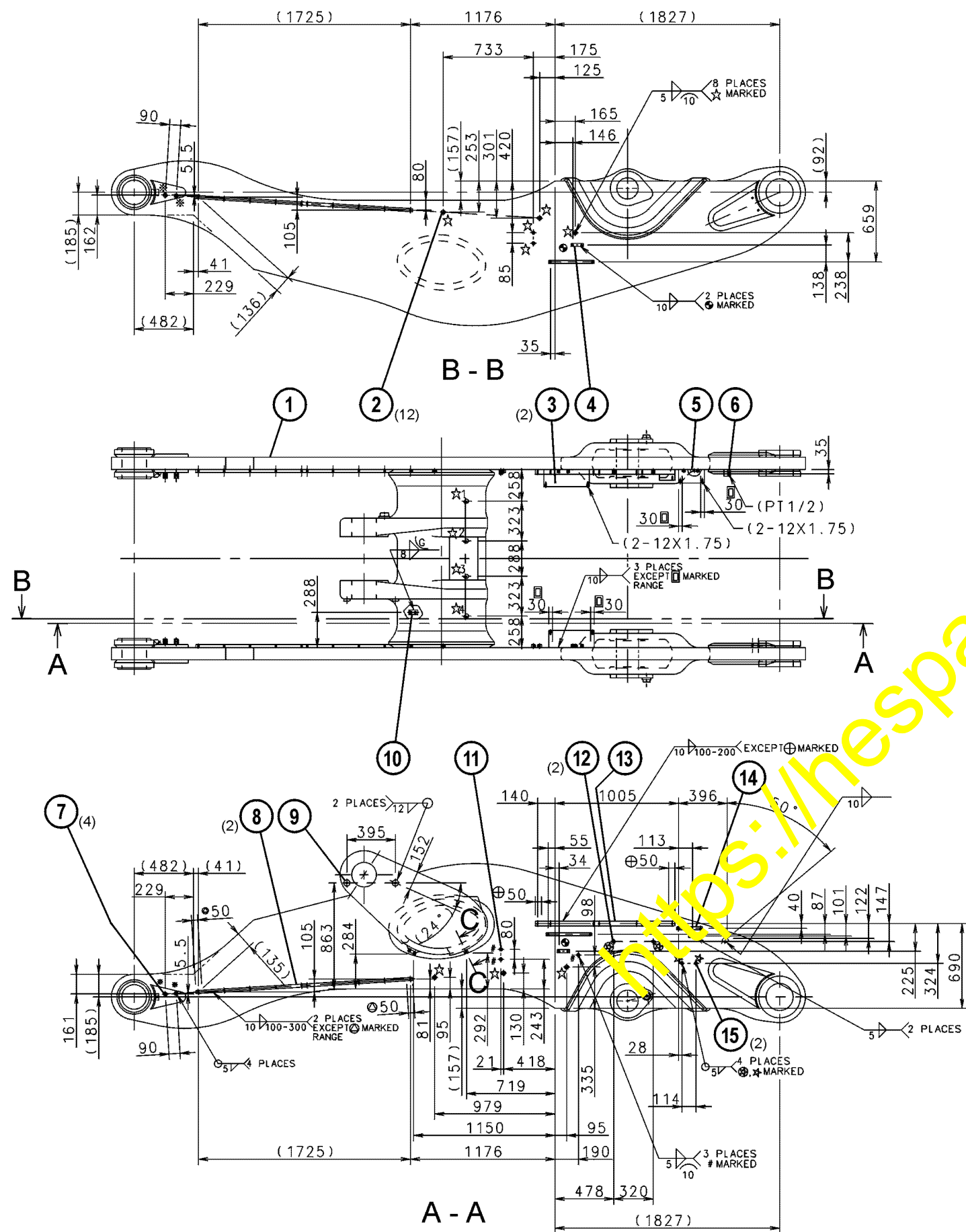


| CALLOUT | PART NUMBER | PART NAME | MATERIAL | QTY | REMARKS |
|---------|---------------|-----------|----------|-----|-------------|
| 10 | 01573-24407 | SEAT | STD | 1 | 0.41 . |
| 15 | 01571-01218 | SEAT | STD | 2 | 0.050 * |
| 7 | 561-89-43120 | BOSS | --- | 4 | 0.25 @ |
| 4 | 427-S95-3350 | PLATE | --- | 2 | 0.45 ☒ |
| 3 | 427-S95-3280 | PLATE | --- | 2 | 10.0 . |
| 13 | 427-S95-3250 | PLATE | --- | 1 | 14.6 . |
| 5 | 427-S95-3240 | PLATE | --- | 1 | 0.18 . |
| 14 | 427-S95-3230 | PLATE | --- | 1 | 4.45 . |
| 6 | 427-S95-1420 | COUPLING | --- | 1 | 0.54 . |
| 8 | 427-S95-1340 | PLATE | --- | 2 | 0.45 . |
| 12 | 425-46-12140 | SEAT | --- | 2 | 0.10 @ |
| 9 | 418-907-1J110 | BOSS | --- | 2 | 0.24 . |
| 2 | 416-878-1270 | SEAT | --- | 12 | 0.14 * |
| 11 | 195-54-23640 | SEAT | --- | 4 | 0.12 @ |
| 1 | 427-70-21104 | BOOM | --- | 1 | 8390 追加工前品番 |

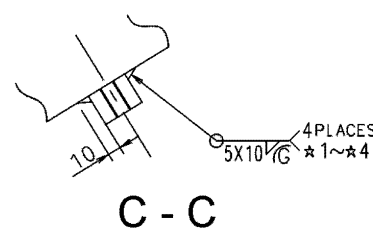
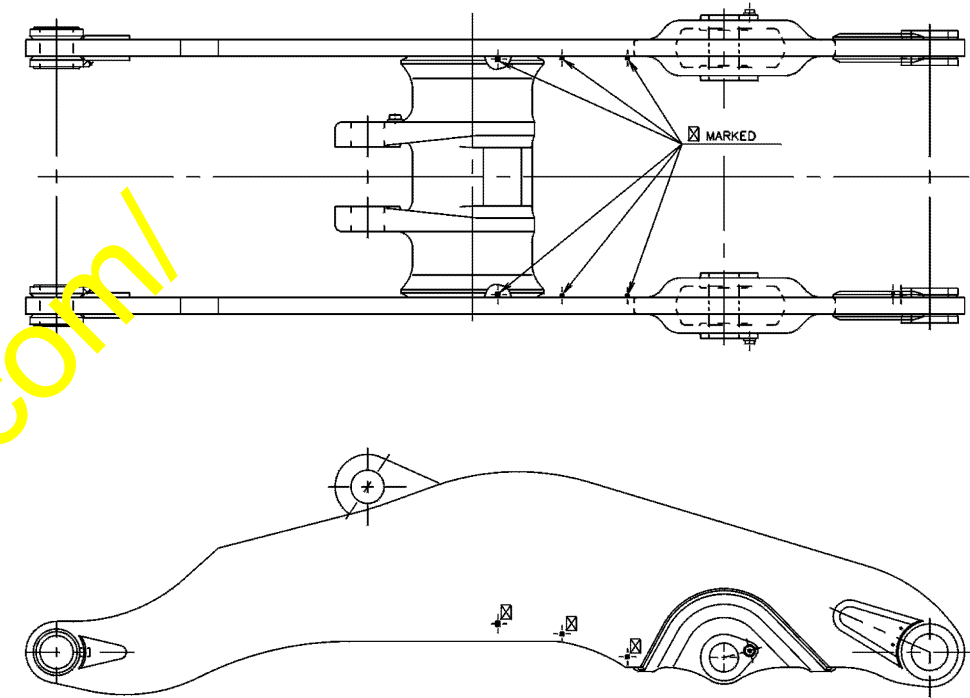
NOTE: 427-70-21104 Previously 427-70-21103

FIGURE 2. WA800 STANDARD BOOM

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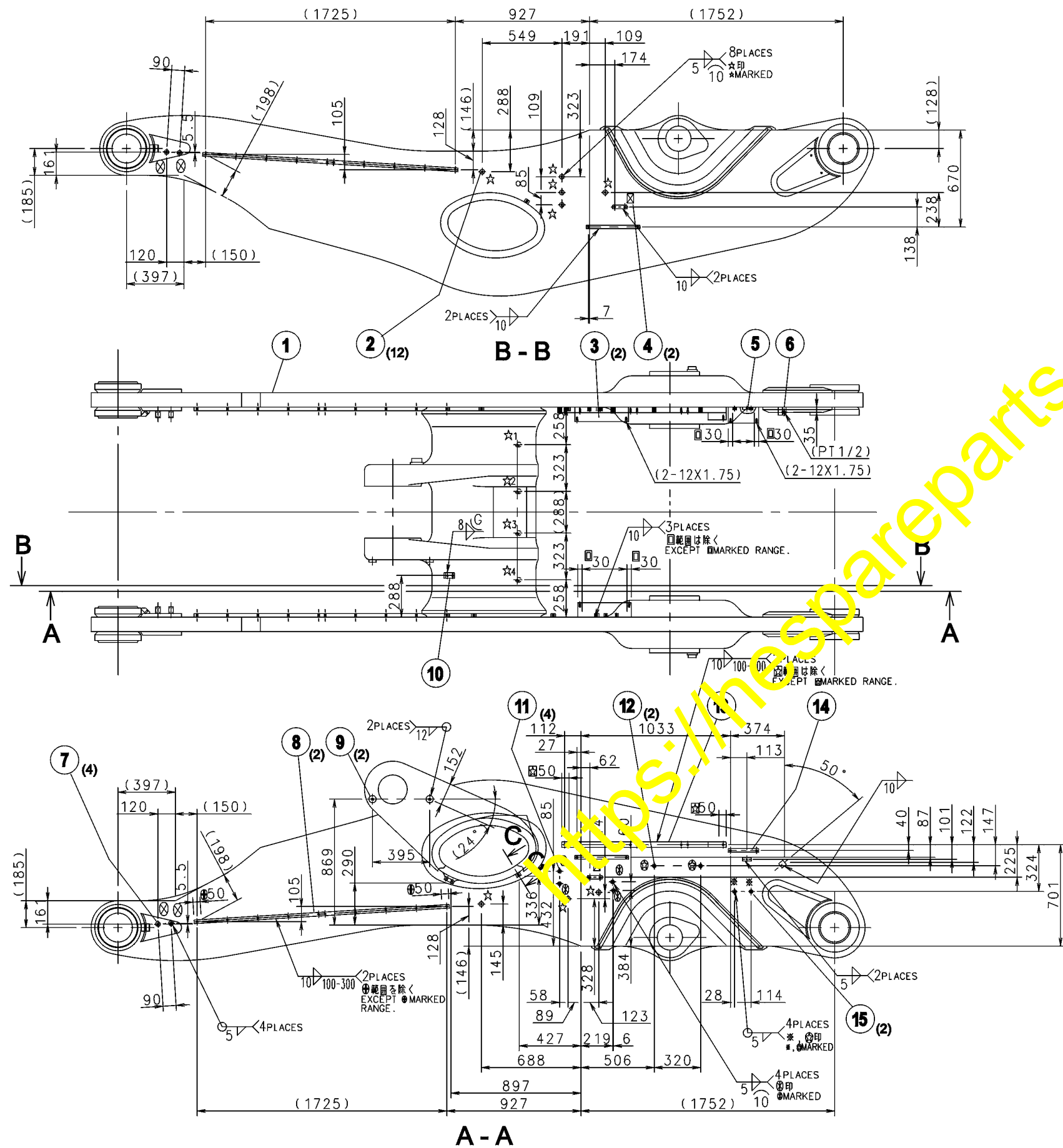


Remove seats marked  before rework.

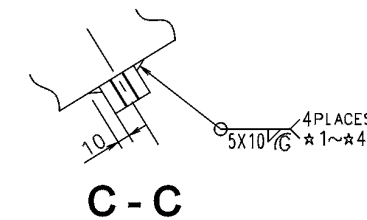
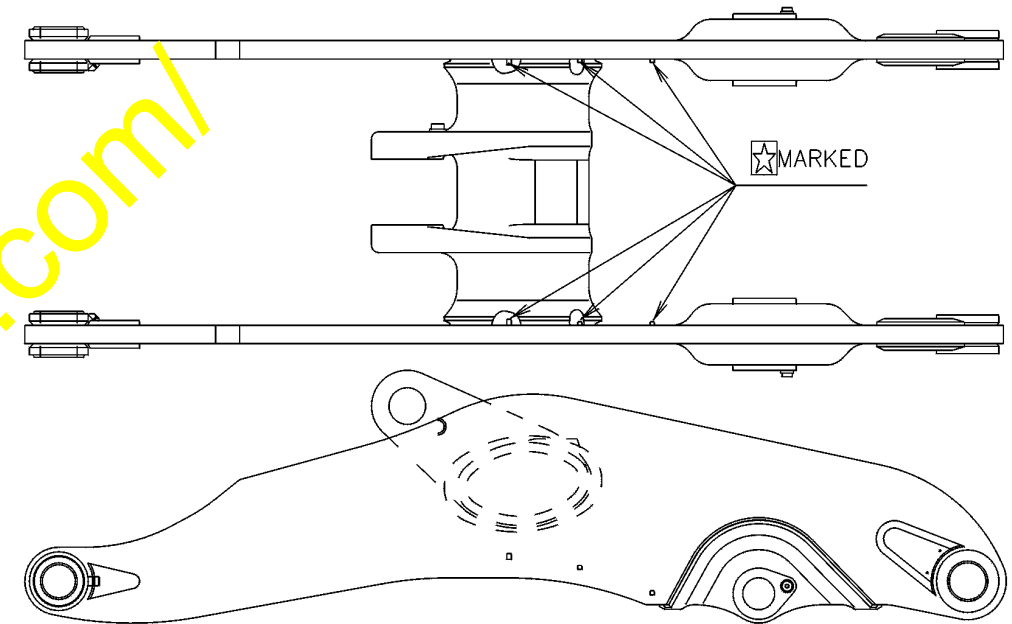


| Callout | Part Number | PART NAME | MATERIAL | ST/STD | QTY | WGT | REMARKS |
|---------|--------------|-----------|----------|--------|-------|-----|---------|
| 10 | 01573-24407 | SEAT | STD | 1 | 0.41 | . | |
| 15 | 01571-01218 | SEAT | STD | 2 | 0.658 | * | |
| 7 | 561-89-43120 | BOSS | ---- | 4 | 0.25 | * | |
| 4 | 427-S95-3350 | PLATE | ---- | 2 | 0.45 | ● | |
| 3 | 427-S95-3280 | PLATE | ---- | 2 | 10.0 | . | |
| 13 | 427-S95-3250 | PLATE | ---- | 1 | 14.6 | . | |
| 5 | 427-S95-3240 | PLATE | ---- | 1 | 0.18 | . | |
| 14 | 427-S95-3230 | PLATE | ---- | 1 | 4.45 | . | |
| 6 | 427-S95-1420 | COUPLING | ---- | 1 | 0.51 | . | |
| 8 | 427-S95-1340 | PLATE | ---- | 2 | 8.45 | . | |
| 12 | 425-46-12140 | SEAT | ---- | 2 | 0.10 | ⊕ | |
| 9 | 418-907-1110 | BOSS | ---- | 2 | 0.24 | . | |
| 2 | 416-878-1270 | SEAT | ---- | 12 | 0.14 | * | |
| 11 | 195-54-23640 | SEAT | ---- | 3 | 0.12 | # | |
| 1 | 427-850-2102 | BOOM | ---- | 1 | 8990 | . | |

FIGURE 3. WA800 HIGH LIFT BOOM



Remove seats marked before rework.

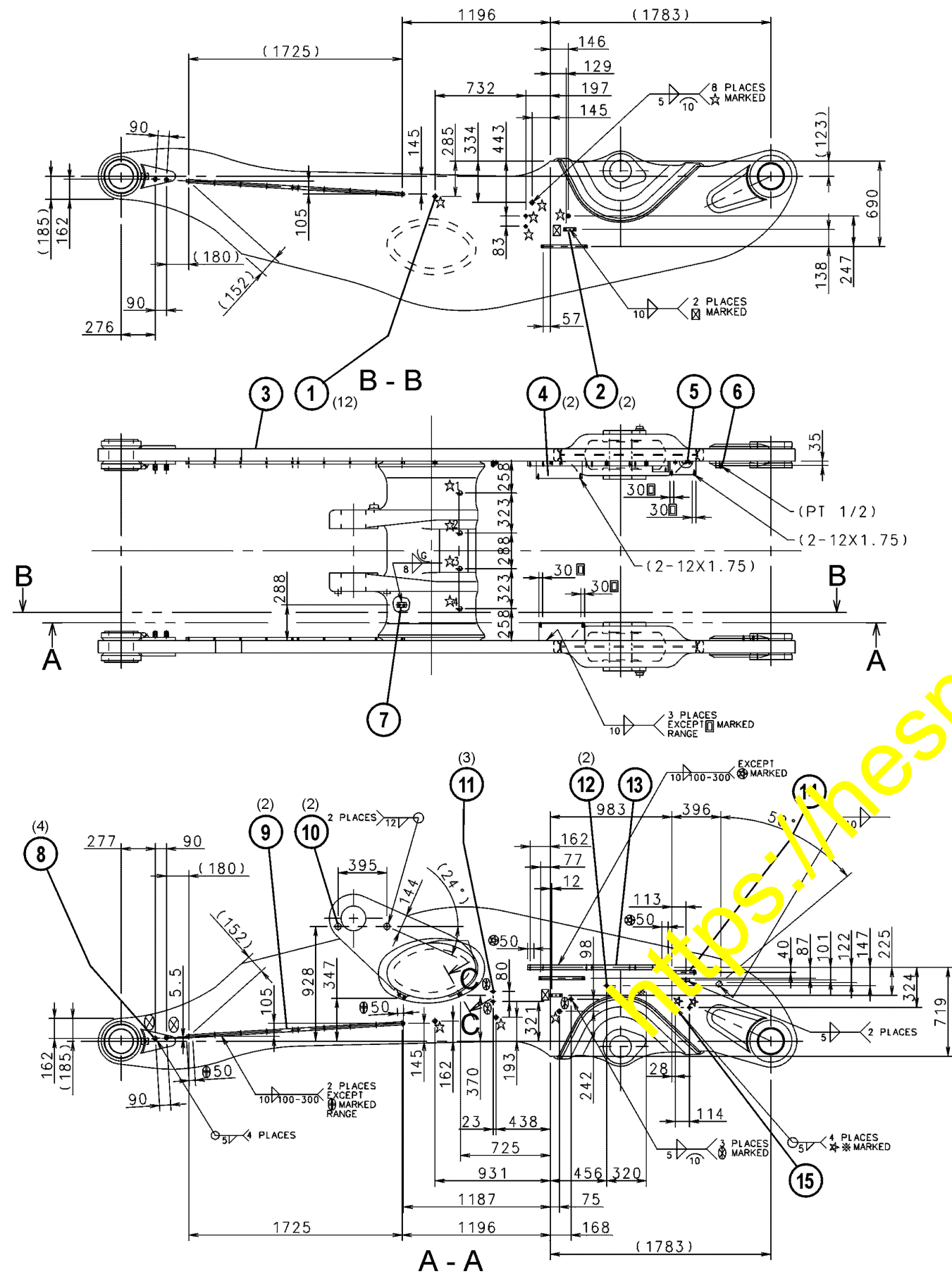


NOTE: 427-N42-1107 Previously 427-N42-1106

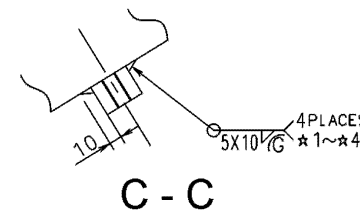
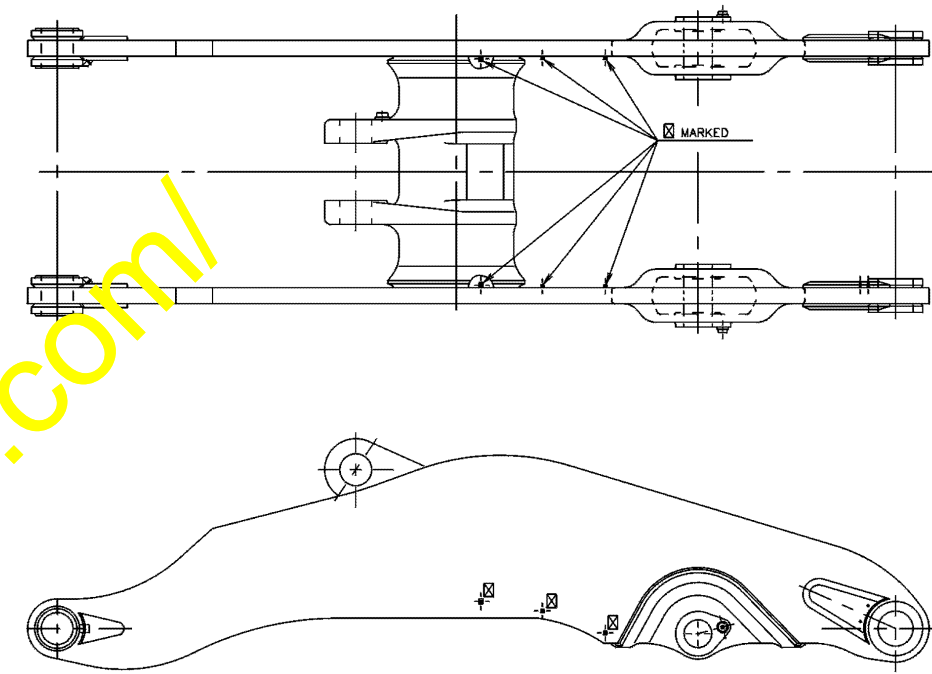
| Callout | Part Number | PART NAME | MATERIAL | QTY | WGT | REMARKS |
|---------|--------------|-----------|----------|-----|-------|---------|
| 10 | 01573-24407 | SEAT | STD | 1 | 0.41 | |
| 15 | 01571-01218 | SEAT | STD | 2 | 0.058 | * |
| 7 | 561-89-43120 | BOSS | ---- | 4 | 0.25 | ⊗ |
| 4 | 427-S95-3350 | PLATE | ---- | 2 | 0.45 | ⊗ |
| 3 | 427-S95-3280 | PLATE | ---- | 2 | 10.0 | |
| 13 | 427-S95-3250 | PLATE | ---- | 1 | 14.6 | |
| 5 | 427-S95-3240 | PLATE | ---- | 1 | 0.18 | |
| 14 | 427-S95-3230 | PLATE | ---- | 1 | 4.45 | |
| 6 | 427-S95-1420 | COUPLING | ---- | 1 | 0.54 | |
| 8 | 427-S95-1340 | PLATE | ---- | 2 | 8.45 | |
| 12 | 425-46-12140 | SEAT | ---- | 2 | 0.10 | ⊗ |
| 9 | 418-907-1410 | BOSS | ---- | 2 | 0.24 | |
| 2 | 416-878-1270 | SEAT | ---- | 12 | 0.14 | ☆ |
| 11 | 195-54-23640 | SEAT | ---- | 4 | 0.12 | ⊗ |
| 1 | 427-N42-1107 | BOOM | ---- | 1 | 8690 | 油加工部品 |

FIGURE 4. WA900 STANDARD BOOM

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Remove seats marked  before rework.







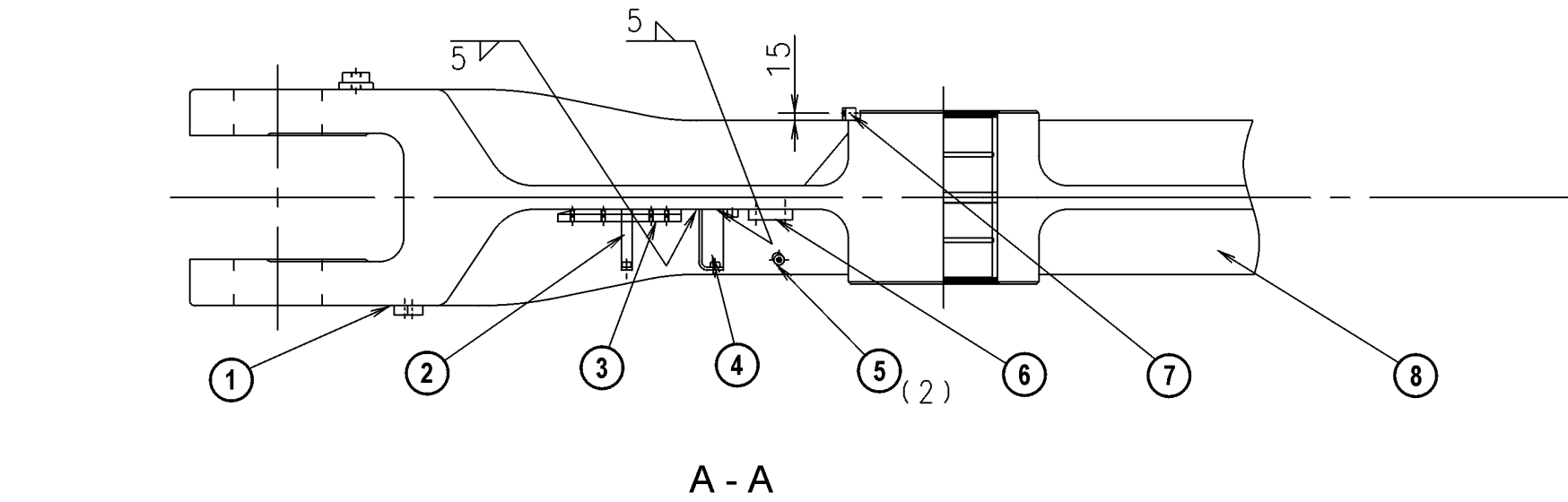
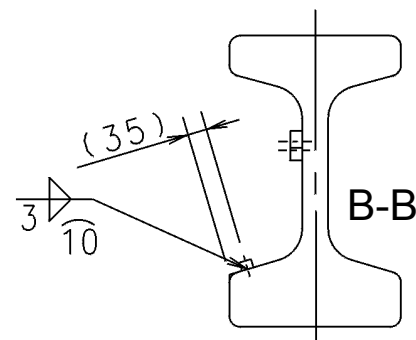
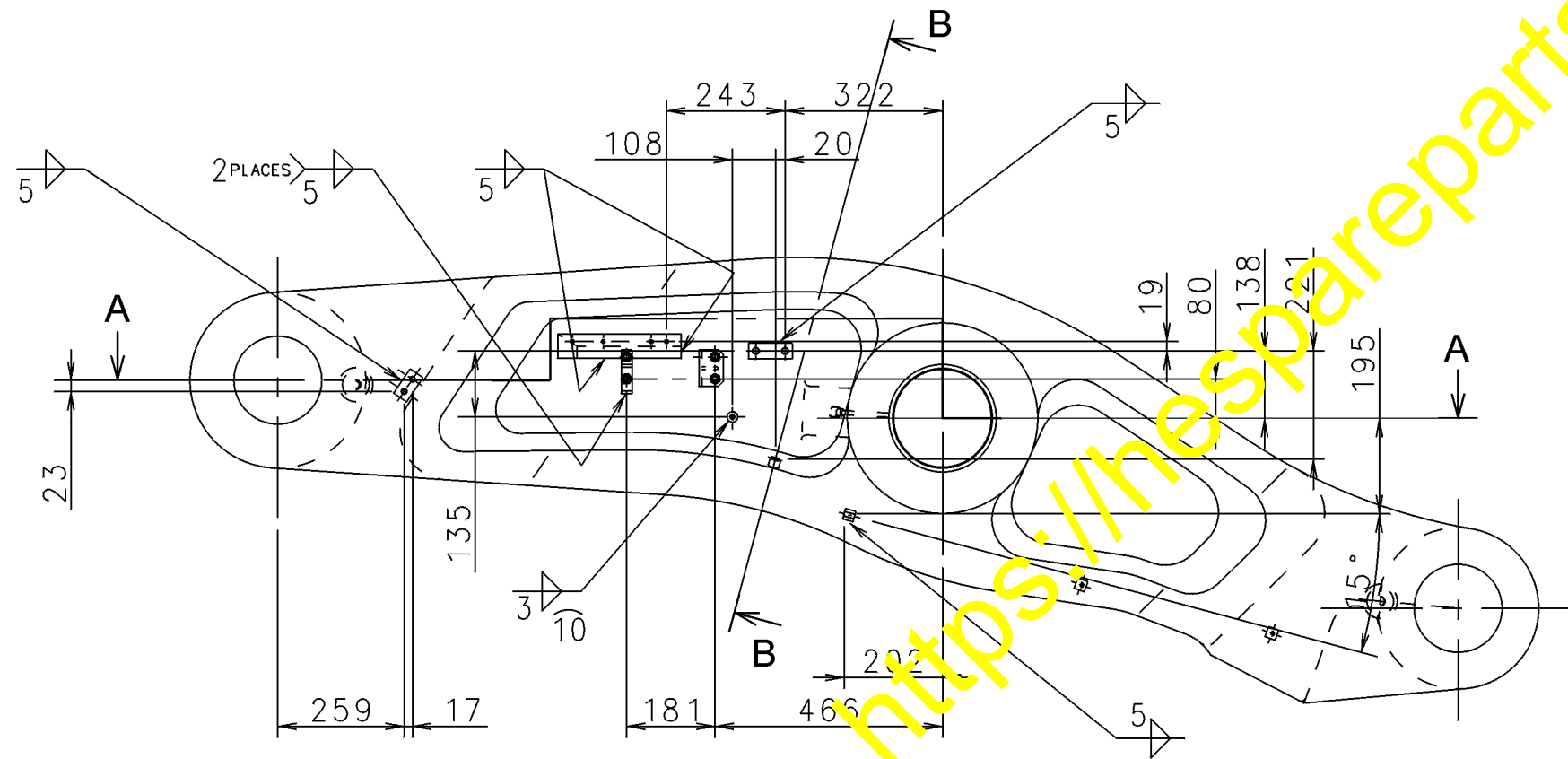
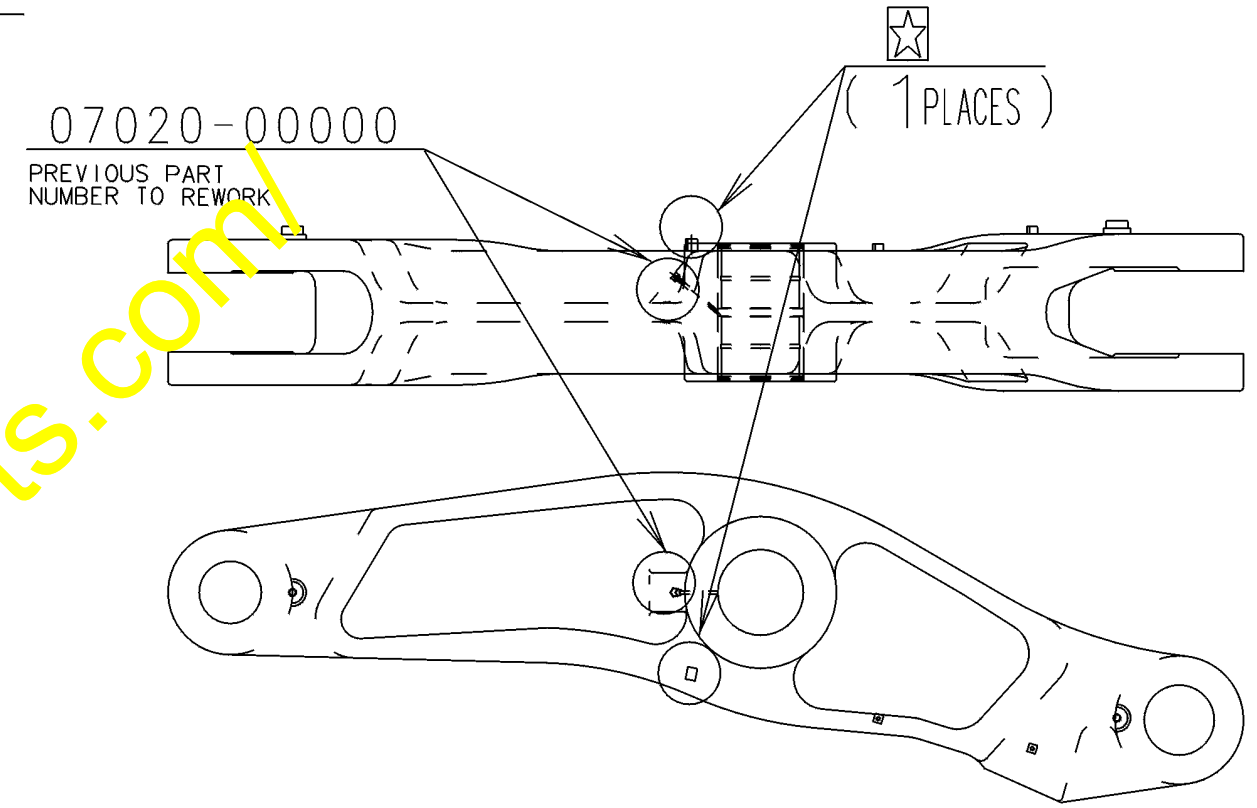
| Callout | Part Number | PART NAME | MATERIAL | QTY | REMARKS |
|---------|--------------|-----------|----------|-----|--|
| 7 | 01573-24407 | SEAT | STD | 1 | 0.41 . |
| 15 | 01571-01218 | SEAT | STD | 2 | 0.058 * |
| 8 | 561-89-43120 | BOSS | ---- | 4 | 0.25  |
| 2 | 427-S95-3350 | PLATE | ---- | 2 | 0.45  |
| 4 | 427-S95-3280 | PLATE | ---- | 2 | 10.0 . |
| 13 | 427-S95-3250 | PLATE | ---- | 1 | 14.6 . |
| 5 | 427-S95-3240 | PLATE | ---- | 1 | 0.18 . |
| 14 | 427-S95-3230 | PLATE | ---- | 1 | 4.45 . |
| 6 | 427-S95-1420 | COUPLING | ---- | 1 | 0.54 . |
| 9 | 427-S95-1340 | PLATE | ---- | 2 | 8.45 . |
| 12 | 425-46-12140 | SEAT | ---- | 2 | 0.10 # |
| 10 | 418-907-1J10 | BOSS | ---- | 2 | 0.24 . |
| 1 | 416-878-1270 | SEAT | ---- | 12 | 0.14 *  |
| 11 | 195-54-23640 | SEAT | ---- | 3 | 0.12  |
| 3 | 427-850-1305 | BOOM | ---- | 1 | 9.388 . |

FIGURE 5. WA900 HIGH LIFT BOOM

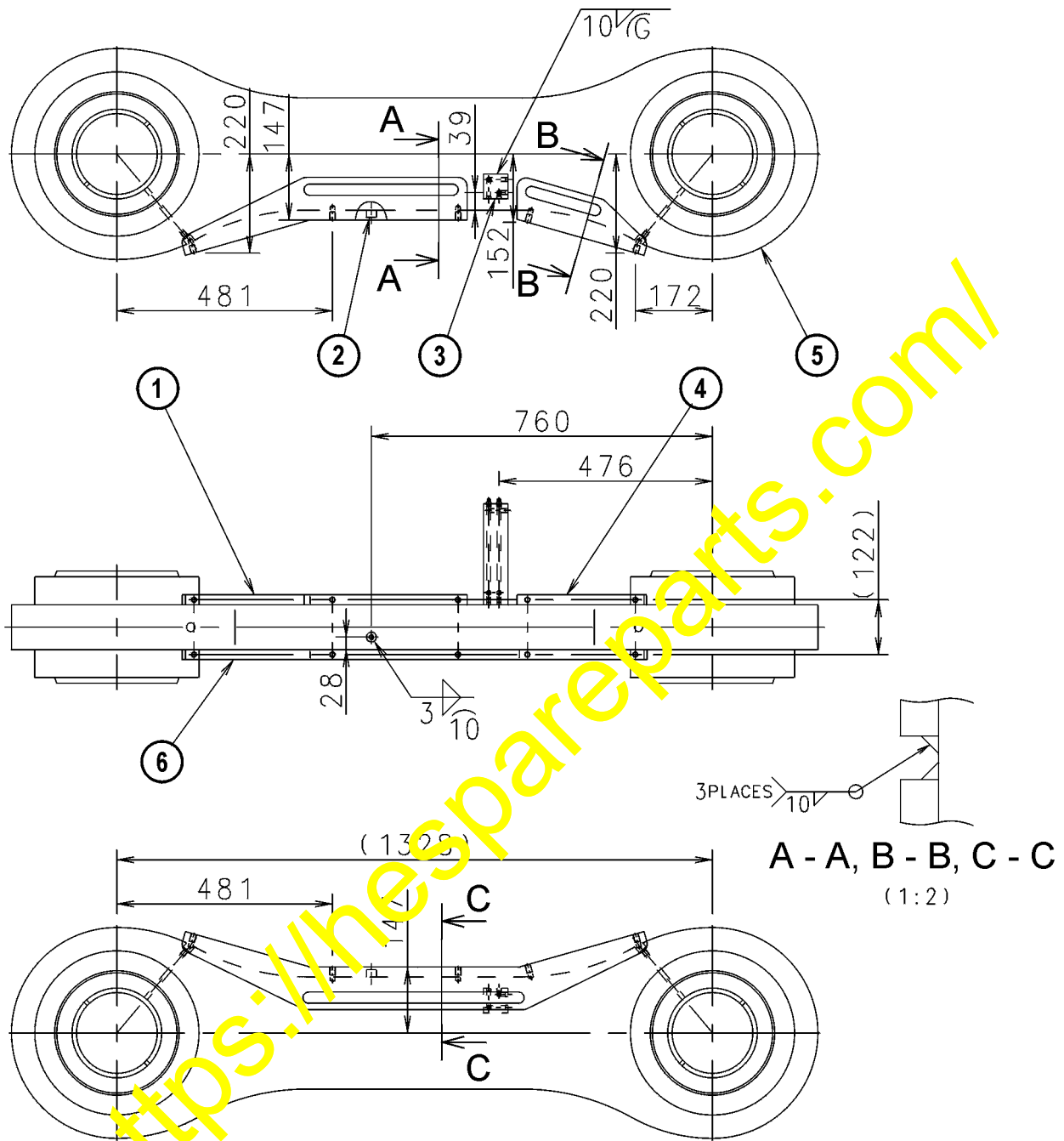


Remove nipple (07020 - 00000) and seat marked before rework.



| | | | | | | |
|---------|--------------|-----------------|----------|----------|-------|---------|
| 6 | 01573-24409 | SEAT | STD | 1 | 0.41 | . |
| 1 | 01573-22306 | SEAT | STD | 1 | 0.37 | . |
| 5 | 01571-01016 | SEAT | STD | 2 | 0.039 | . |
| 3 | 427-S95-3322 | SEAT | --- | 1 | 2.20 | . |
| 2 | 427-S95-3310 | BRACKET | --- | 1 | 0.38 | . |
| 4 | 427-S95-1640 | BRACKET | --- | 1 | 0.88 | . |
| 7 | 425-S95-1250 | SEAT | --- | 1 | 0.10 | . |
| 8 | 427-70-00071 | BELLCRANK ASS'Y | --- | 1 | 1850 | . |
| CALLOUT | PART NUMBER | PART NAME | MATERIAL | Q'TY/SET | MASS | REMARKS |

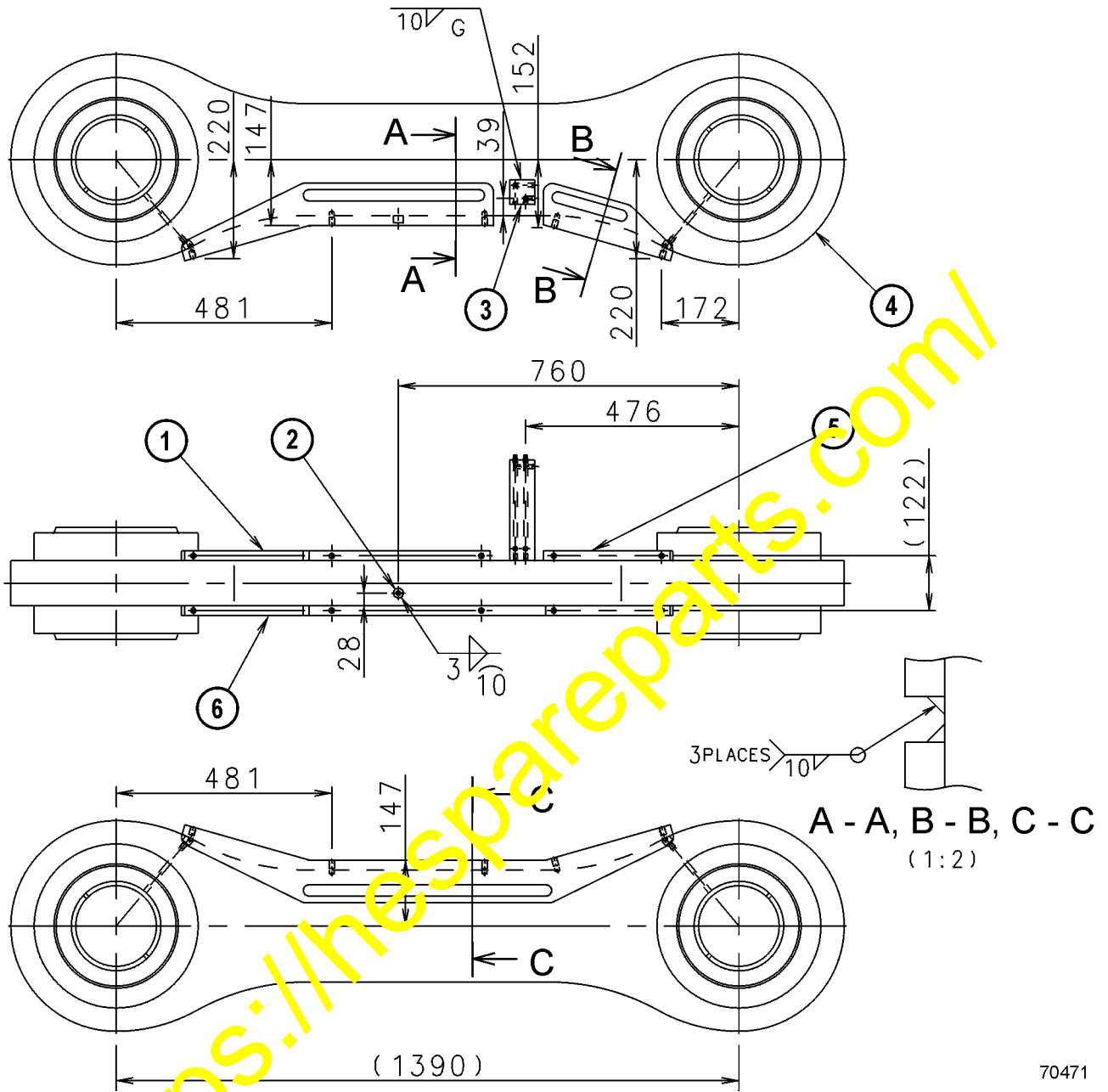
FIGURE 6. BELLCRANK REWORK - ALL MODELS



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- | | |
|--|--------------------------------|
| 1. Plate (427-S95-3580) | 4. Plate (427-S95-3550) |
| 2. Seat (01571-01016) | 5. Link (427-70-20023)* |
| 3. Block (Fabricate locally, Refer to Figure 10.) | * replaced link (427-70-20022) |
| | 6. Plate (427-S95-3590) |

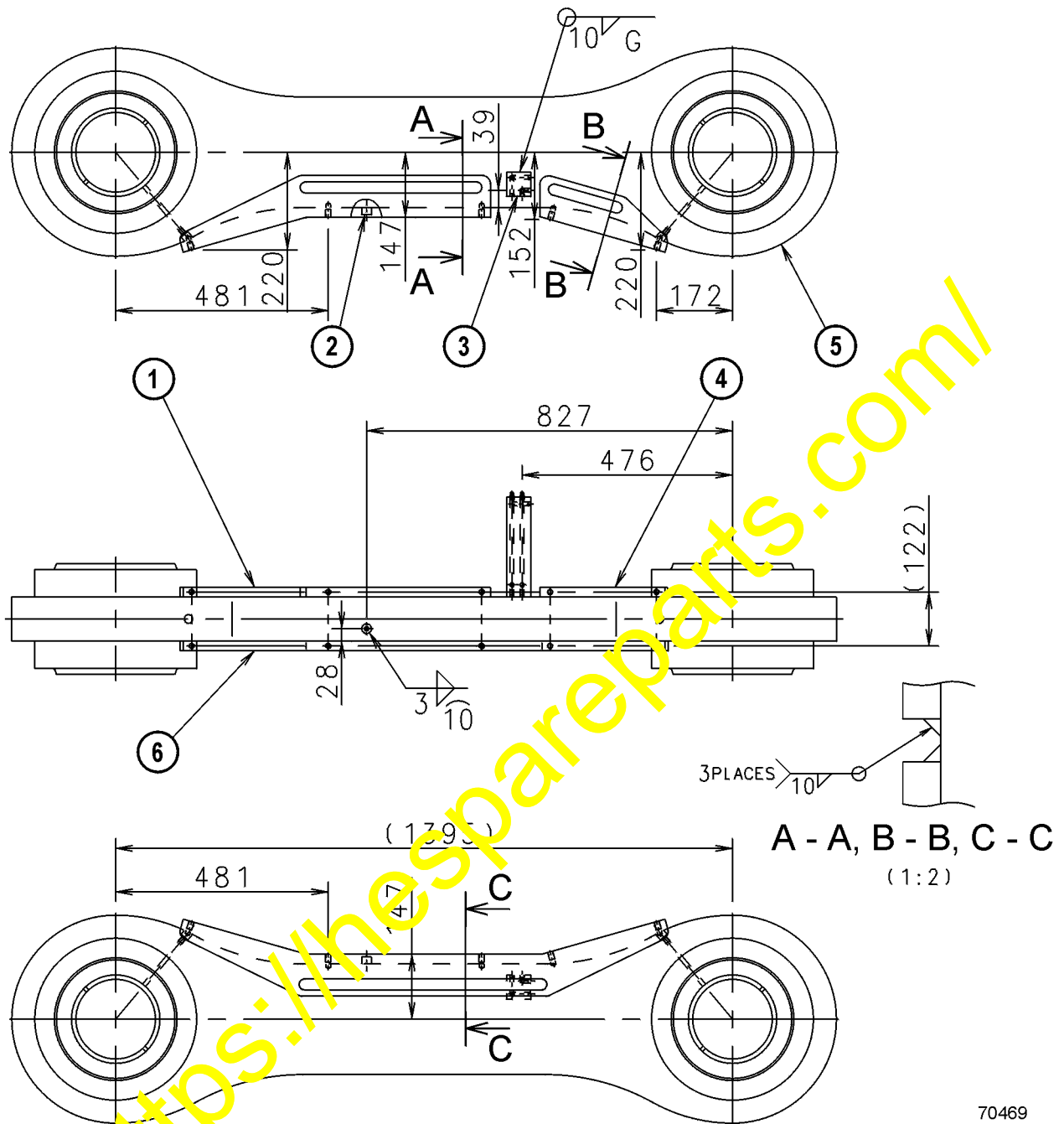
FIGURE 7. LINK REWORK - WA800 STANDARD BOOM



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- | | |
|--|-------------------------|
| 1. Block (427-S95-2810) | 4. Link (427-850-2202) |
| 2. Seat (01571-01016) | 5. Plate (427-S95-3550) |
| 3. Block (Fabricate locally, Refer to Figure 10.) | 6. Plate (427-S95-A330) |

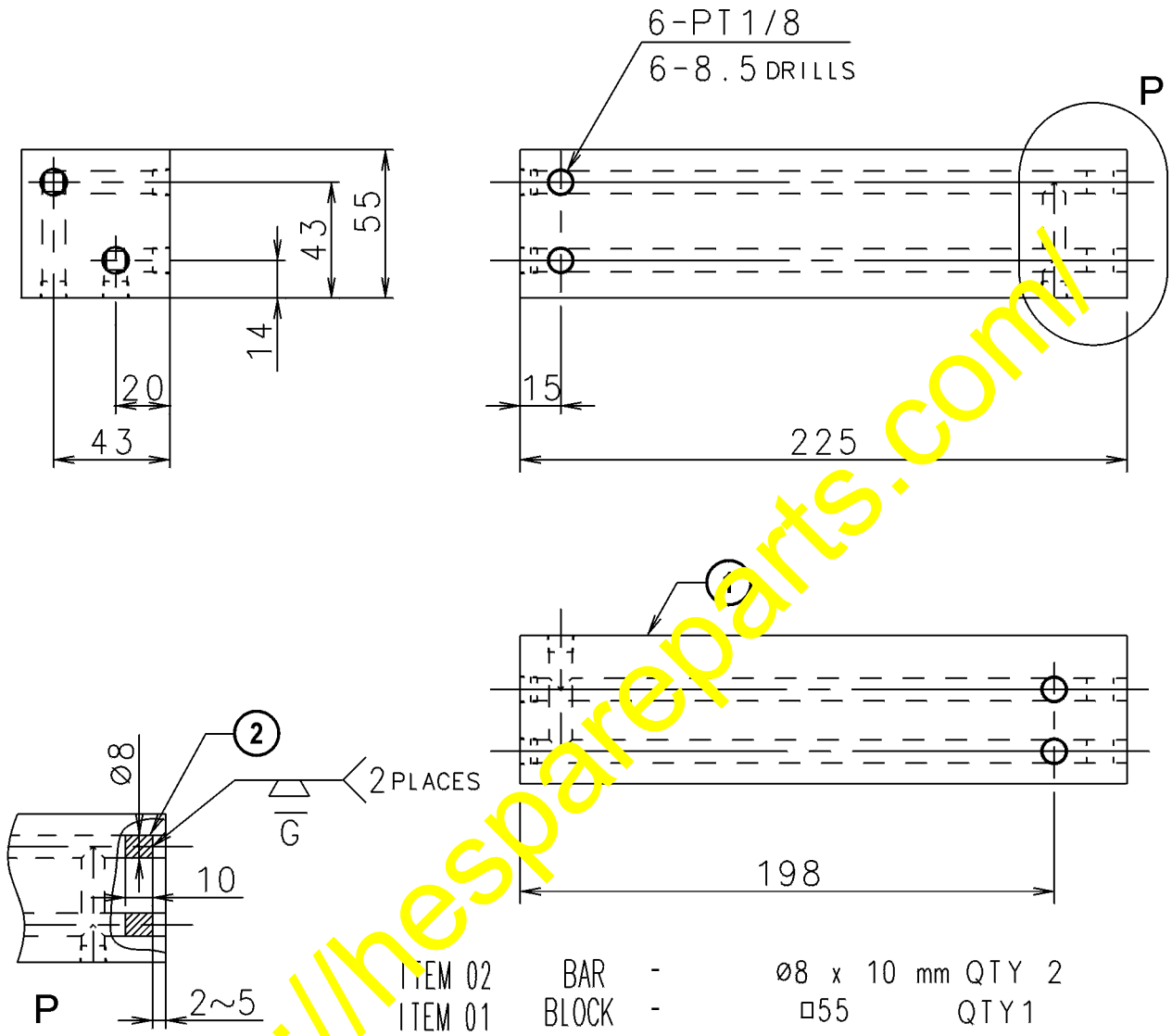
FIGURE 8. LINK REWORK - WA800 HIGH-LIFT BOOM



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- | | |
|--|-------------------------|
| 1. Plate (427-S95-3540) | 4. Plate (427-S95-3550) |
| 2. Seat (01571-01016) | 5. Link (427-70-00064) |
| 3. Block (Fabricate Locally, Refer to Figure 10.) | 6. Plate 427-S95-3560) |

FIGURE 9. LINK REWORK - WA900 STANDARD & HIGH-LIFT BOOM

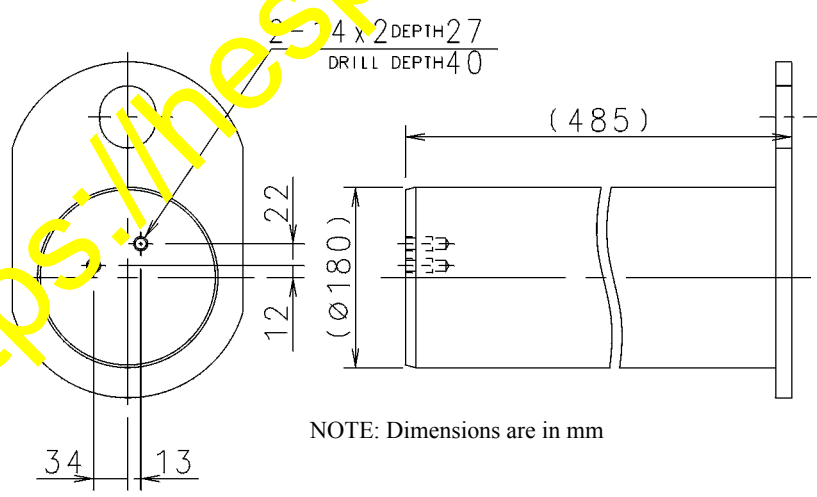
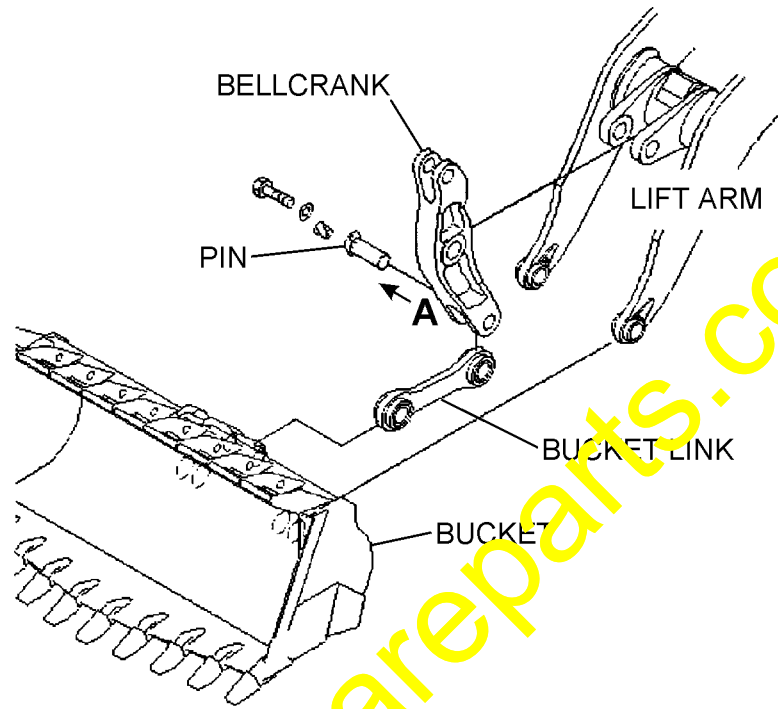


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| Chemical Composition | Thickness up to 3/4 in. (19 mm) | Thickness from 1.5 - 4 in. (35 - 102 mm) |
|----------------------|---------------------------------|--|
| Carbon, max. % | 0.26 | 0.28 |
| Manganese, % | No Requirement | 0.60 - 0.90 |
| Phosphorus, max. % | 0.04 | 0.04 |
| Sulfur, max. % | 0.05 | 0.05 |
| Silicon, % | 0.40 max. | 0.40 max. |

| | |
|--------------------------------------|-----------------------------|
| Tensile Strength | 58 - 80 ksi (400 - 550 MPa) |
| Yield Point | 36 ksi (250 MPa) |
| Elongation in 8 in. (200 mm), min. % | 20 |
| Elongation in 2 in. (50 mm), min. % | 23 |

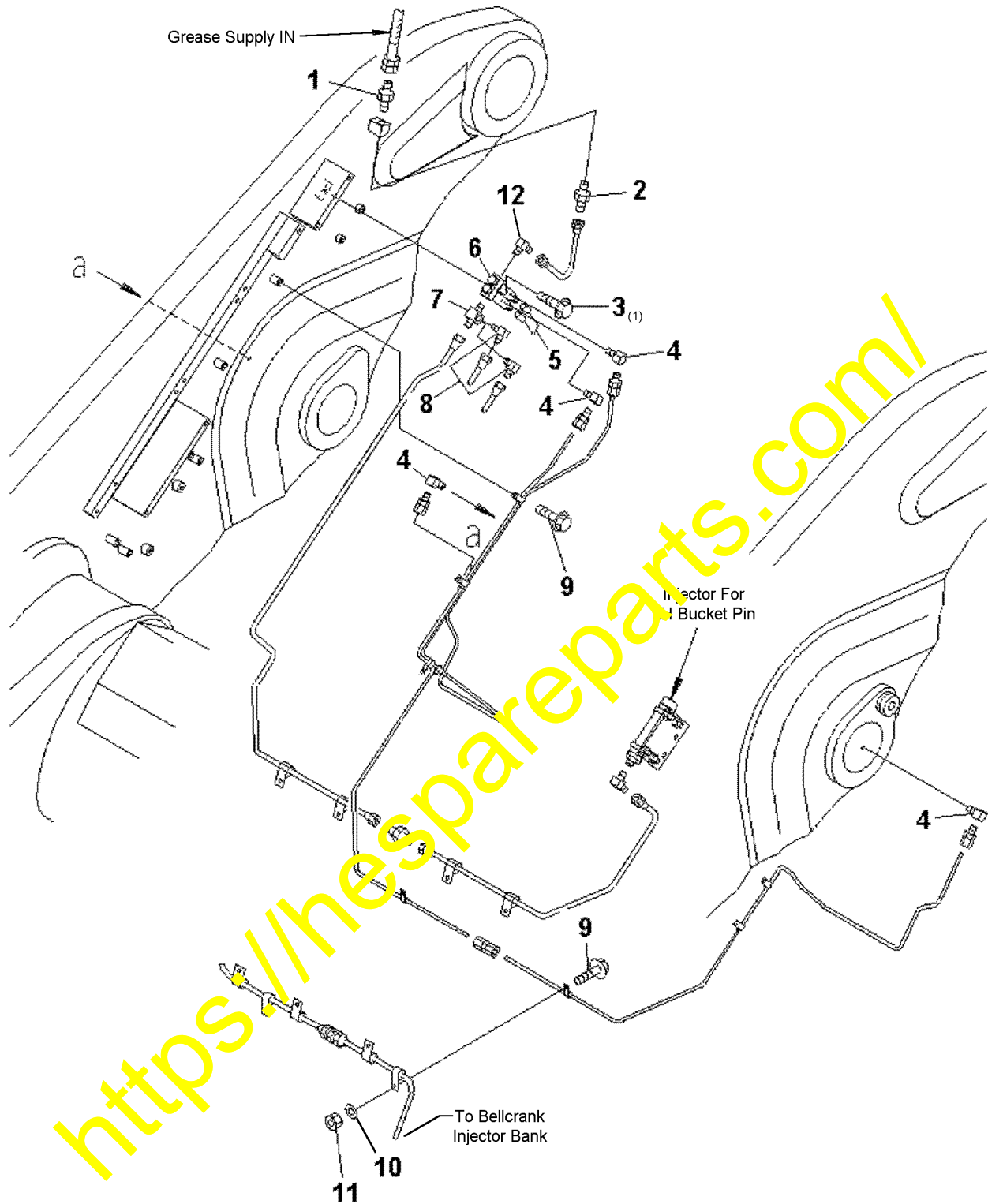
FIGURE 10. LUBRICATION BLOCK ON LINK



A

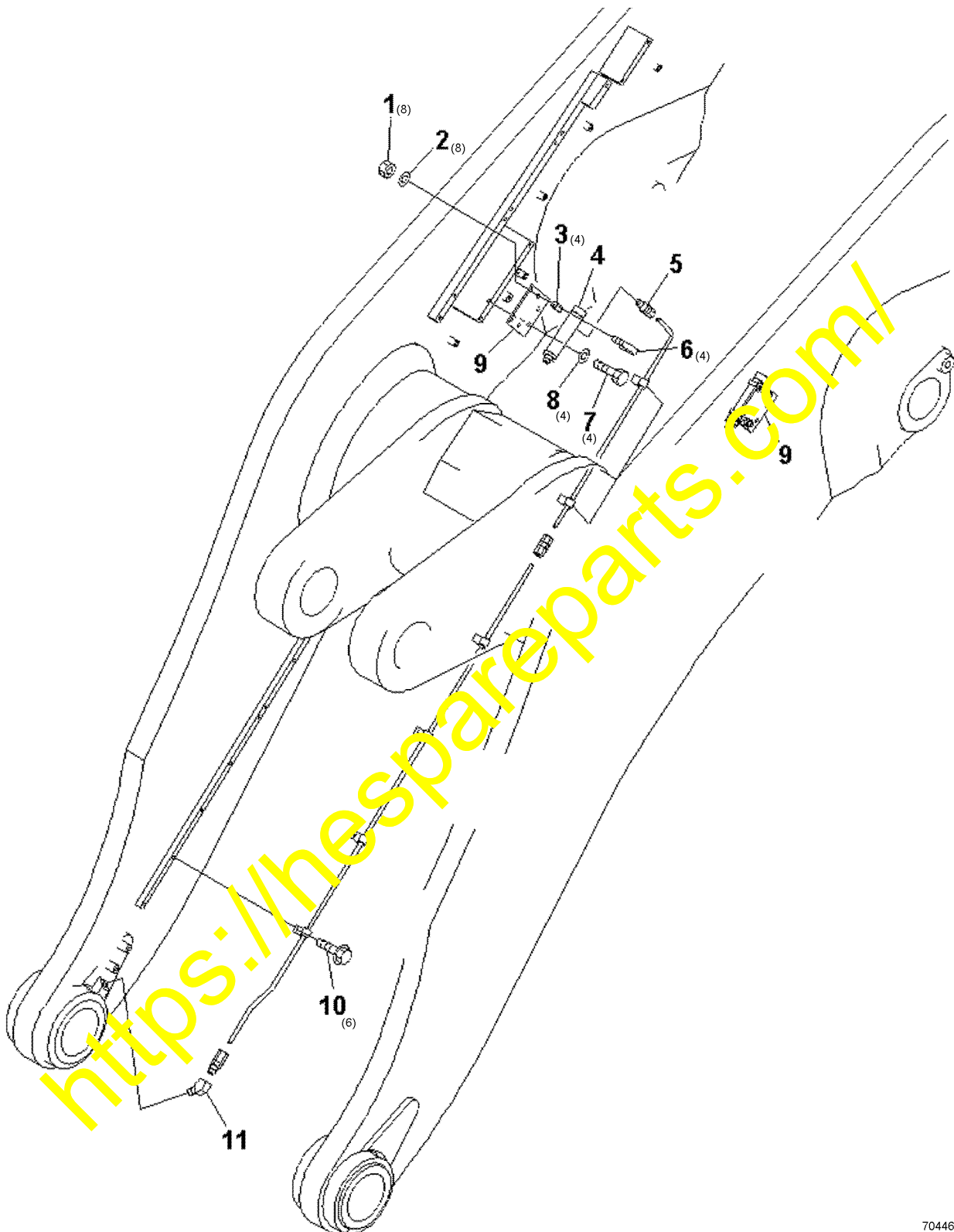
70466

FIGURE 11. BELLCRANK/LINK PIN REWORK



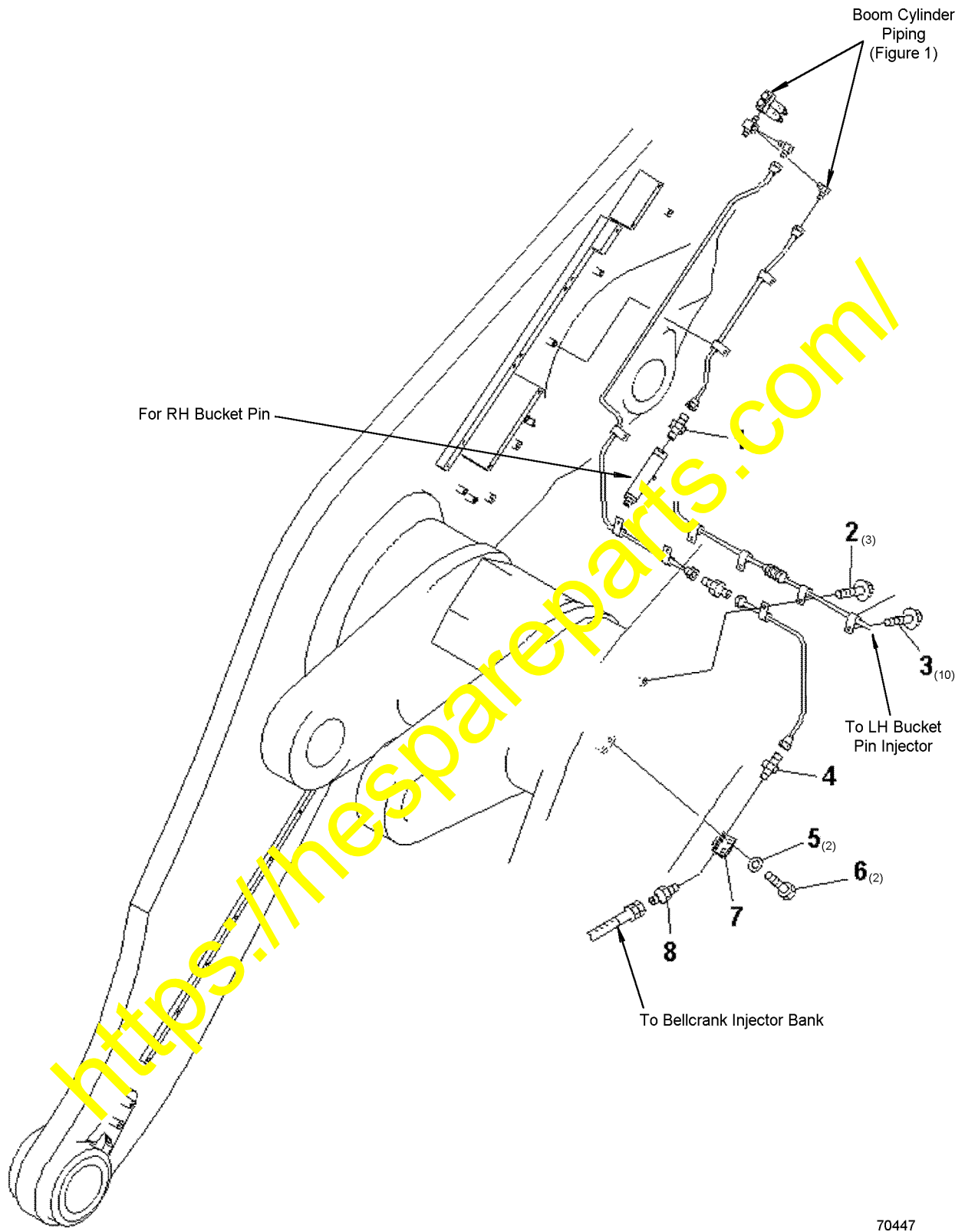
- | | | |
|-----------------------------|---|------------------------------|
| 1. Nipple (1/2 PT) | 6. SL-1 Twin Injector Assy. (427-S95-3150) | 9. Bolt (M12 x 1.25 x 20 mm) |
| 2. Connector (1/2 PT) | 7. Joint (427-S95-3160) | 10. Washer (M12) |
| 3. Bolt (M8 x 1.25 x 45 mm) | 8. Elbow (3/8 PT) | 11. Nut (M12 x 1.25 mm) |
| 4. Elbow (45°, 1/8 NPT) | | 12. Elbow (3/8 NPT) |
| 5. Cap (581-96-19620) | | |

FIGURE 12. MAIN SUPPLY, BOOM CYLINDER INJECTORS, AND PIPING



- | | | |
|---|------------------------------|-------------------------------|
| 1. Nut (M12 x 1.75 mm) | 5. Connector (1/8 NPT) | 9. Bracket (427-S95-3271) |
| 2. Washer (M12) | 6. Clip (07283-35158) | 10. Bolt (M12 x 1.75 x 20 mm) |
| 3. Seat (07283-55161) | 7. Bolt (M12 x 1.75 x 25 mm) | 11. Elbow (45°, 1/8 PT) |
| 4. SL-11 Injector Assy. (427-S95-3180) | 8. Washer (M12) | |

FIGURE 13. BUCKET PIN INJECTORS AND PIPING

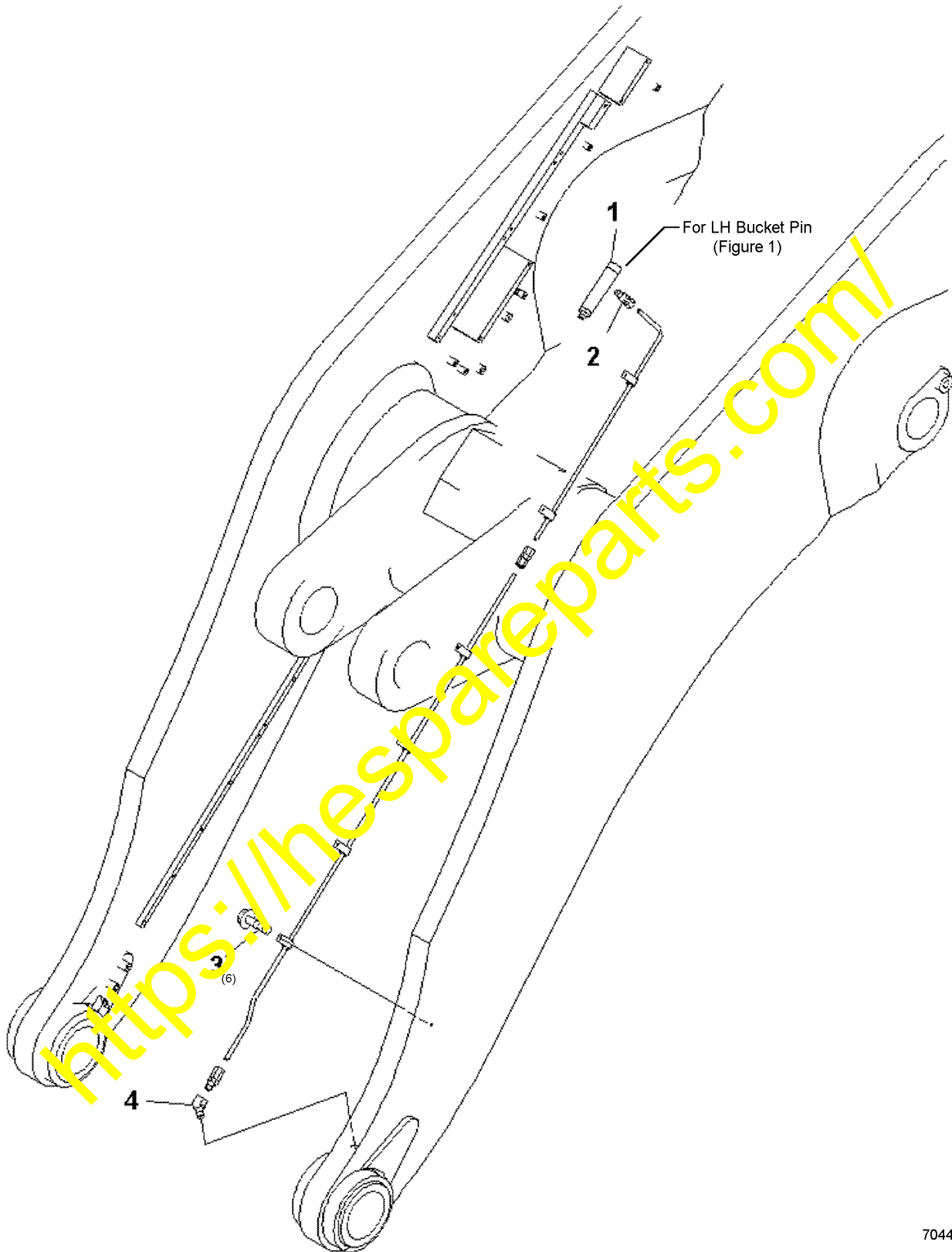


- 1. Connector (3/8 NPT)
- 2. Bolt (M12 x 1.25 x 20 mm)
- 3. Bolt (M12 x 1.75 x 20 mm)
- 4. Connector (3/8 PT)

- 5. Washer (M14)
- 6. Bolt (M14 x 2 x 35 mm)
- 7. Bracket (427-S95-1541)
- 8. Connector (3/8 PT)

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FIGURE 14. BOOM ARM PIPING

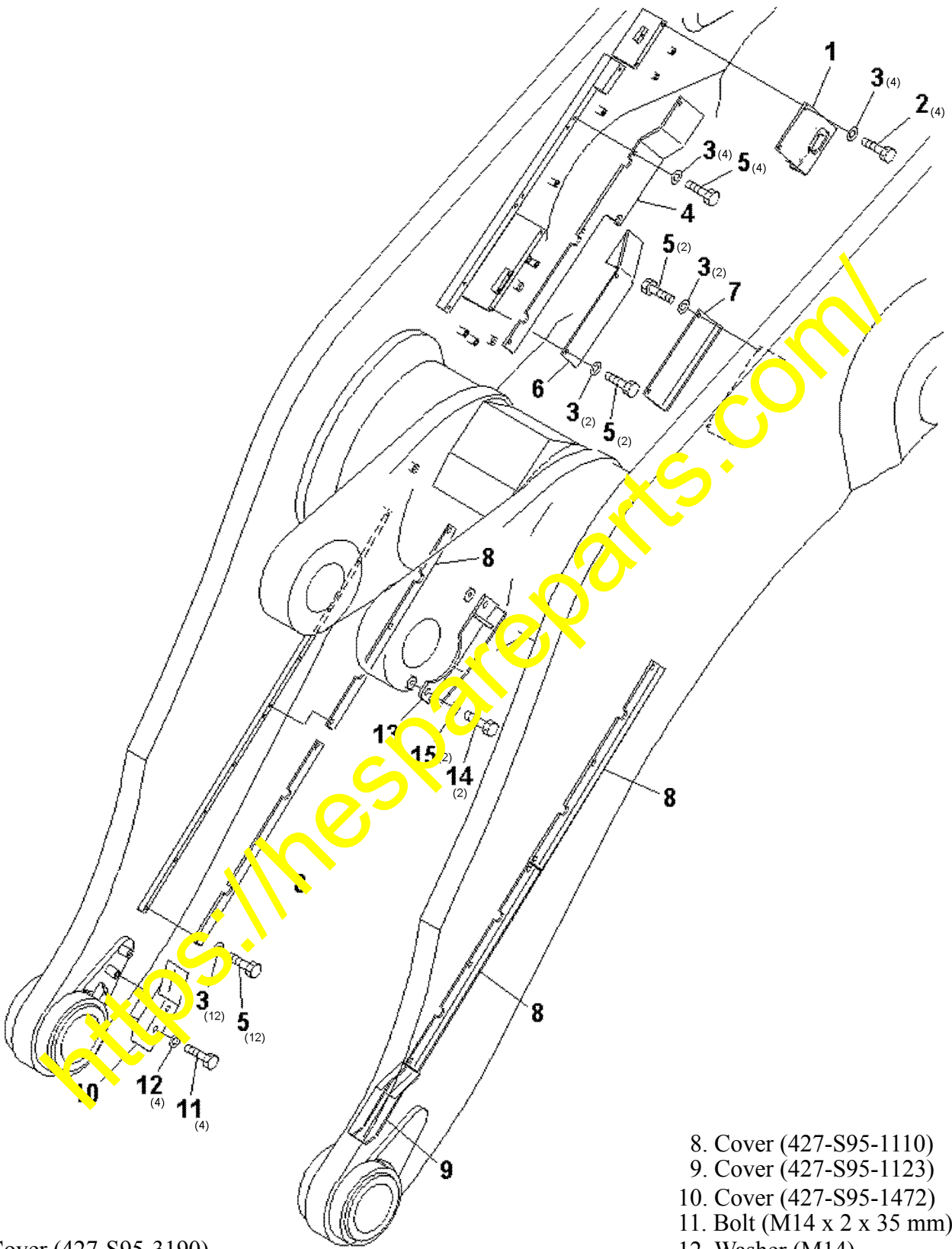


70448

- 1. SL-11 Injector Assy. (427-S95-3180)
- 2. Connector (1/4 NPT)

- 3. Bolt (M12 x 1.75 x 20 mm)
- 4. Elbow (45°, 1/8 PT)

FIGURE 15. LEFT ARM PIPING, BUCKET PIN

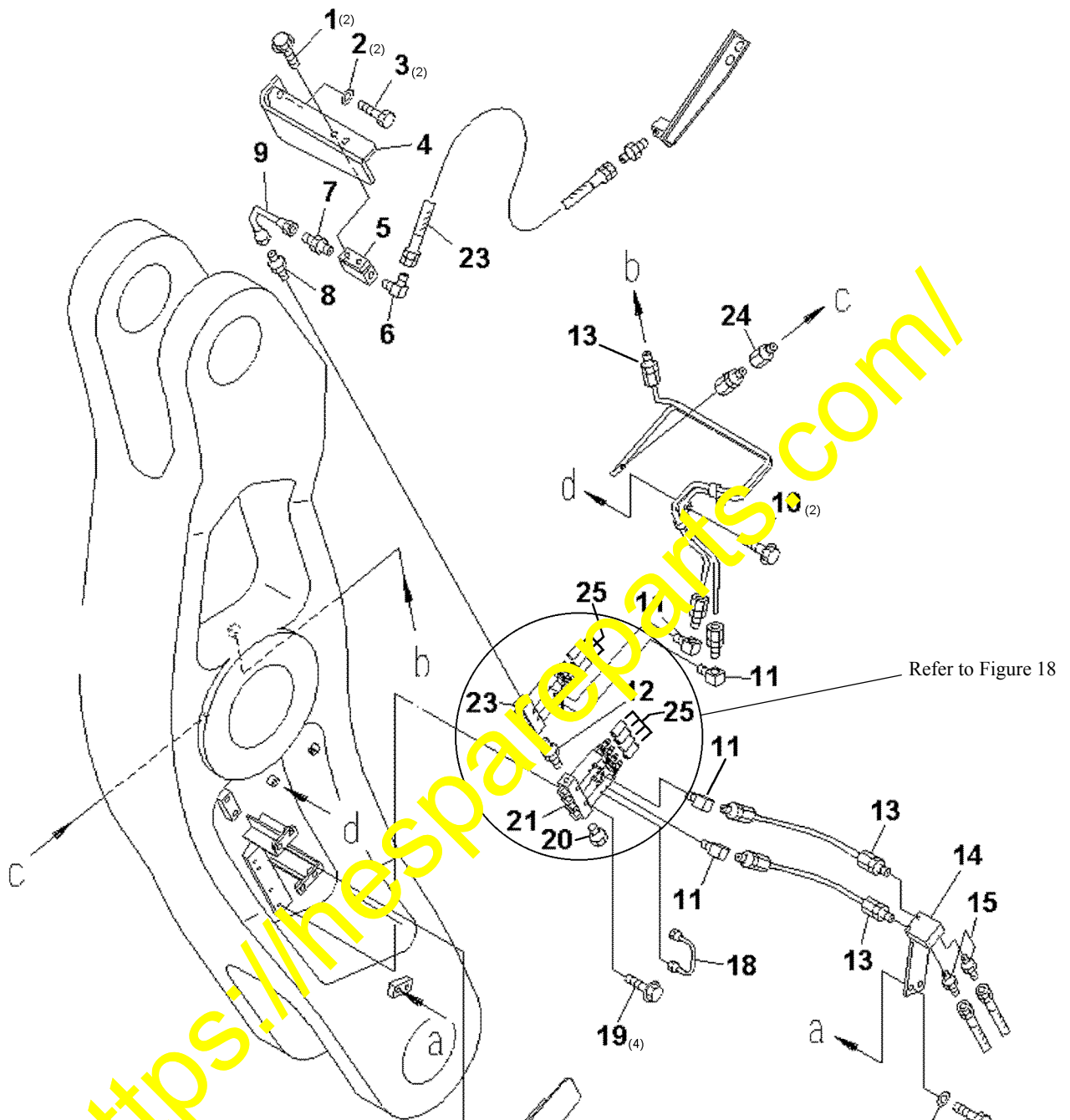


- 1. Cover (427-S95-3190)
- 2. Bolt (M12 x 1.75 x 25 mm)
- 3. Washer (M12)
- 4. Cover (427-S95-3210)

- 5. Bolt (M12 x 1.75 x 30 mm)
- 6. Cover (427-S95-3220)
- 7. Cover (427-S95-3290)

- 8. Cover (427-S95-1110)
- 9. Cover (427-S95-1123)
- 10. Cover (427-S95-1472)
- 11. Bolt (M14 x 2 x 35 mm)
- 12. Washer (M14)
- 13. Cover (427-S95-1520)
- 14. Bolt (M16 x 2 x 30 mm)
- 15. Washer (M16)

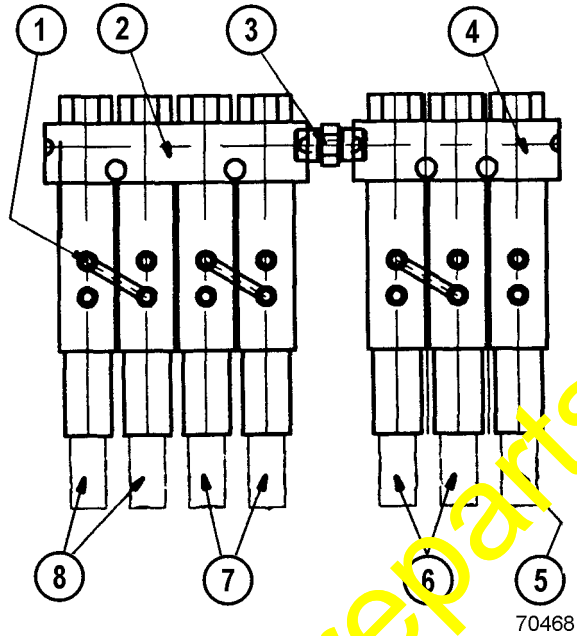
FIGURE 16. COVERS AND GUARDS



Refer to Figure 18

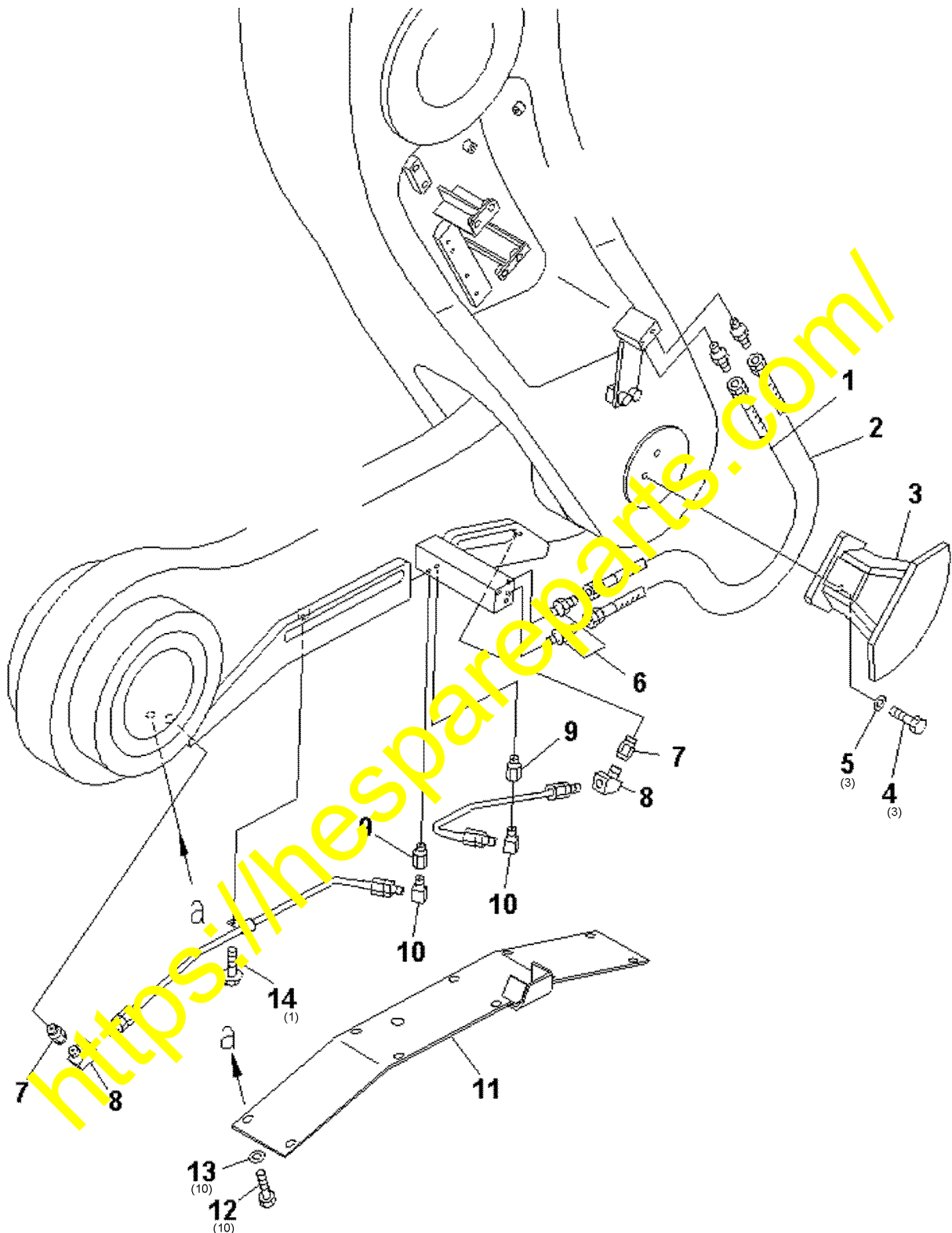
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1. Bolt (M12 x 1.75 x 30 mm) 2. Washer (M14) 3. Bolt (M14 x 2 x 35 mm) 4. Bracket (427-S95-1510) 5. Joint (427-S95-1530) 6. Elbow (3/8 PT, M22 x 1.5 mm) 7. Connector (3/8 PT, M22 x 1.5 mm) 8. Connector (3/8 NPT, M22 x 1.5 mm) 9. Tube (427-S95-3331) 10. Bolt (M10 x 1.5 x 16 mm) 11. Elbow (45°, 1/8 PT) 12. Nipple (3/8 NPT) | <ul style="list-style-type: none"> 13. Connector (1/8 PT) 14. Joint (427-S95-1381) 15. Nipple (1/8 PT, M14 x 1.5 mm) 16. Washer (M12) 17. Cover (427-S95-2950) 18. Tube (427-S95-2150) | <ul style="list-style-type: none"> 19. Bolt (M8 x 1.25 x 45 mm) 20. Plug (3/8 NPT) 21. SL-1 Injector Assy. (561-95-37450) 22. SL-1 Injector Assy. (581-96-19520) 23. Hose (07086-20409) 24. Nipple (1/8 PT) 25. Cap (581-96-19620) |
|---|--|---|

FIGURE 17. BELLCRANK ITEMS



- | | |
|-------------------------------------|-------------------------------------|
| 1. Tube (427-S95-2150) | 5. Bucket Cylinder Injector |
| 2. Injector Assy. (561-95-37450) | 6. Bellcrank Center Pivot Injectors |
| 3. Nipple (581-96-19580) | 7. Link (Rear) Injectors |
| 4. Injector Assembly (581-96-19520) | 8. Link (Front) Injectors |

FIGURE 18. TRIPLE INJECTOR / QUAD INJECTOR MANIFOLD MATING



- | | | |
|--------------------------------|-------------------------------------|-------------------------------|
| 1. Hose, 900 mm (07086-20209) | 6. Nipple (1/8 PT, M14 x 1.5 mm) | 10. Elbow (1/8 PT) |
| 2. Hose, 1000 mm (07086-20210) | 7. Nipple (1/8 PT) | 11. Cover (427-S95-3611) |
| 3. Guard (427-S95-2610) | 8. Elbow (45°) | 12. Bolt (M12 x 1.75 x 25 mm) |
| 4. Bolt (M14 x 2 x 40 mm) | 9. Nipple (1/8 PT) | 13. Washer (M12) |
| 5. Washer (M14) | | 14. Bolt (M10 x 1.5 x 16 mm) |

FIGURE 19. LINK ITEMS