

# ***PARTS LIST***

## ***Fx35***

HYDRAULIC BREAKER

APPLICABLE SERIAL NUMBER 1001 AND UP



## **SUPPLY PERIOD OF SPARE PARTS**

Thank you for purchasing a Furukawa Rock Drill product.

Please note that the supply of spare parts will be assured for 10 years after the termination of production in accordance with the guidelines for the supply of spare parts as specified by the Japan Construction Equipment Manufacturers Association.

Although the supply of spare parts is terminated in principle at the maturity of the subject supply period, we may be able to supply them upon request even after the expiration of the supply period on condition that the delivery date and price are subject to negotiation.

Even if it is within the supply period, however, the delivery date, price, etc. may be subject to negotiation when it is difficult to keep stocks should the purchased parts, such as electronic parts, etc., be not available because the manufacturer does not produce them any more.

If you have any questions about any particular model subject to the warranty as stated above and the time limit of spare parts supply, please contact your nearest FRD Europe B.V. distributor.

# USING THE PARTS LIST

1. This parts list describes the components of a hydraulic breaker.
2. When ordering a part, refer to the illustrations and lists in this parts list and then inform the FRD Europe B.V. distributor in your area of the following items.
  - (1) Model name
  - (2) Serial No.
  - (3) Part No.
  - (4) Part name
  - (5) Quantity
3. Use "Genuine Furukawa Rock Drill Parts" when replacing all parts.
4. The illustrations in this parts list show the positions and shapes of the parts so that a user can order a part without any problem.

Do not repair a hydraulic breaker by using this parts list.
5. The parts in this list are subject to change for improvement without notice on the part of the manufacturer.

## How to use the parts list

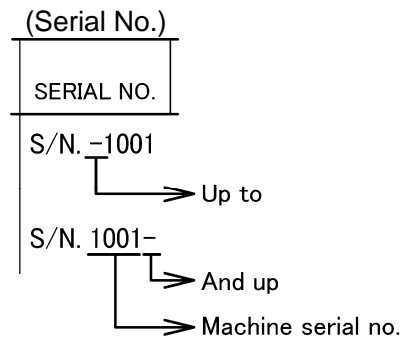
### (1) Illustration

- ① Group Name ..... This is the same as the Group Name on the CONTENTS.
- ② Fig. No. .... This shows the illustration number and corresponds to Fig. No. of the parts breakdown.
- ③ Item ..... This corresponds to Item in the parts breakdown.
- ④ Group Name ..... This shows the group name in which the parts breakdown is covered in a separate page in this parts list.
- ⑤ Page. .... The left side of “ - ” (hyphen) shows consecutive numbers in each unit. The right side shows consecutive numbers of drawings/lists in each unit.

### (2) Parts Breakdown

- ① Item ..... This is shown by three figures and corresponds to Item in the illustration. Item nos. are not always in sequence.  
When a part has been changed in design and then the part number or quantity has been changed, a sub-number is added to Item in order to show the order of change.
- ② Part No. .... (a) Part number is shown.  
(b) Indication of a no-service part  
With parts which cannot be serviced as a single part, only the illustrations and part names are given and the mark \* is shown in the part number column. These parts are serviced as an assembly, a kit or a set.
- ③ Part Name ..... This shows the description of a part. When following marks are put before the part name:  
No mark ..... Represents a single part or an assembly component.  
\* ..... Represents a part or an assembled part of the assembly component. It is listed out after the assembly name.  
\*\* ..... Represents a part of the assembled part of the assembly component.
- ④ Q' ty ..... As a rule, this column indicates the quantity of a part required for one breaker. In case of a part of an assembly component, however, it indicates the quantity of the part required for one assembly component. In this column, the following mark is also used besides the numerals to indicate the quantity of parts.  
( ) Parenthesis ..... This part does not include an assembly. · · · Option etc.  
AR ..... As required.

⑤ Serial No. .... Serial No. in which this part is used is as shown in the following example:



⑥ Remarks ..... The marks and part numbers in the Remarks column are described below.

A ..... Replaceable common part and following part no.

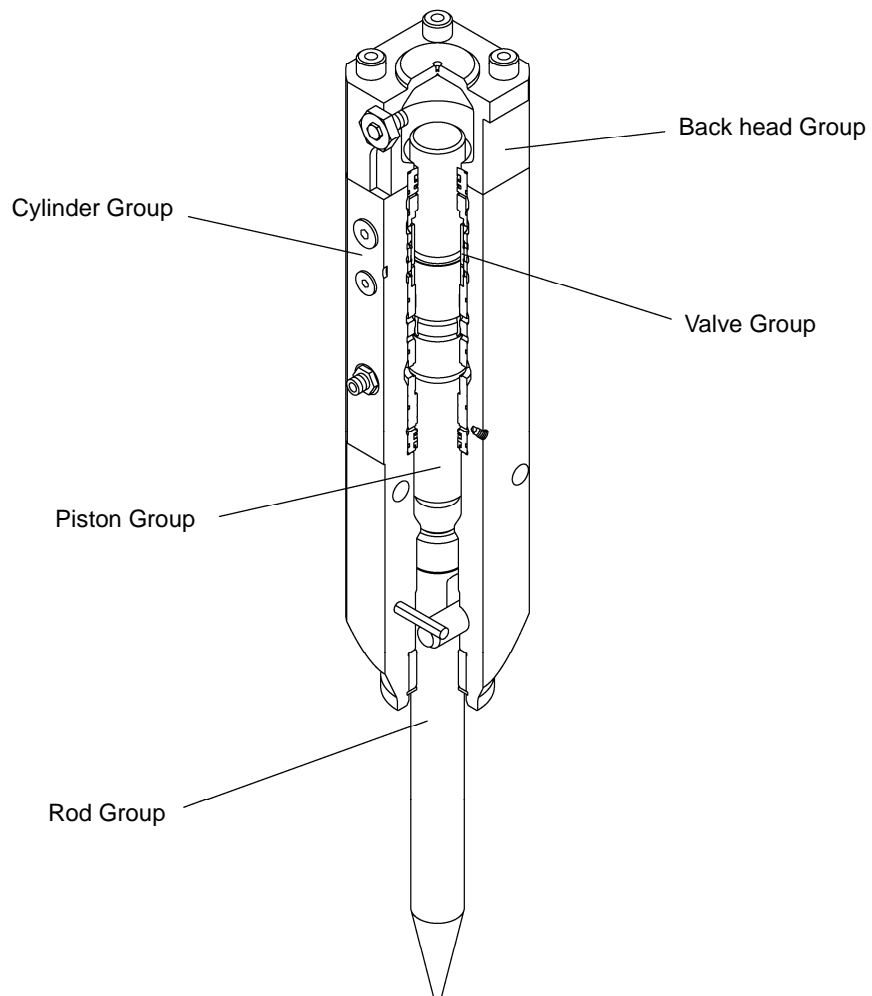
B ..... Represents that this part is not supplied as a single part, however, it is supplied as a set.  
Refer to Replaceable Parts List at the end of the parts list.

C ..... Represents that this part is not supplied as a single part.  
When an assembly including this part is supplied, the parts after this mark are supplied. When no parts are given after this mark, the components of this part are supplied.

D ..... This part is no longer manufactured due to an incorrect part number or a change and supplying this part is discontinued. When a substitute can be supplied, the part number after this mark is supplied.

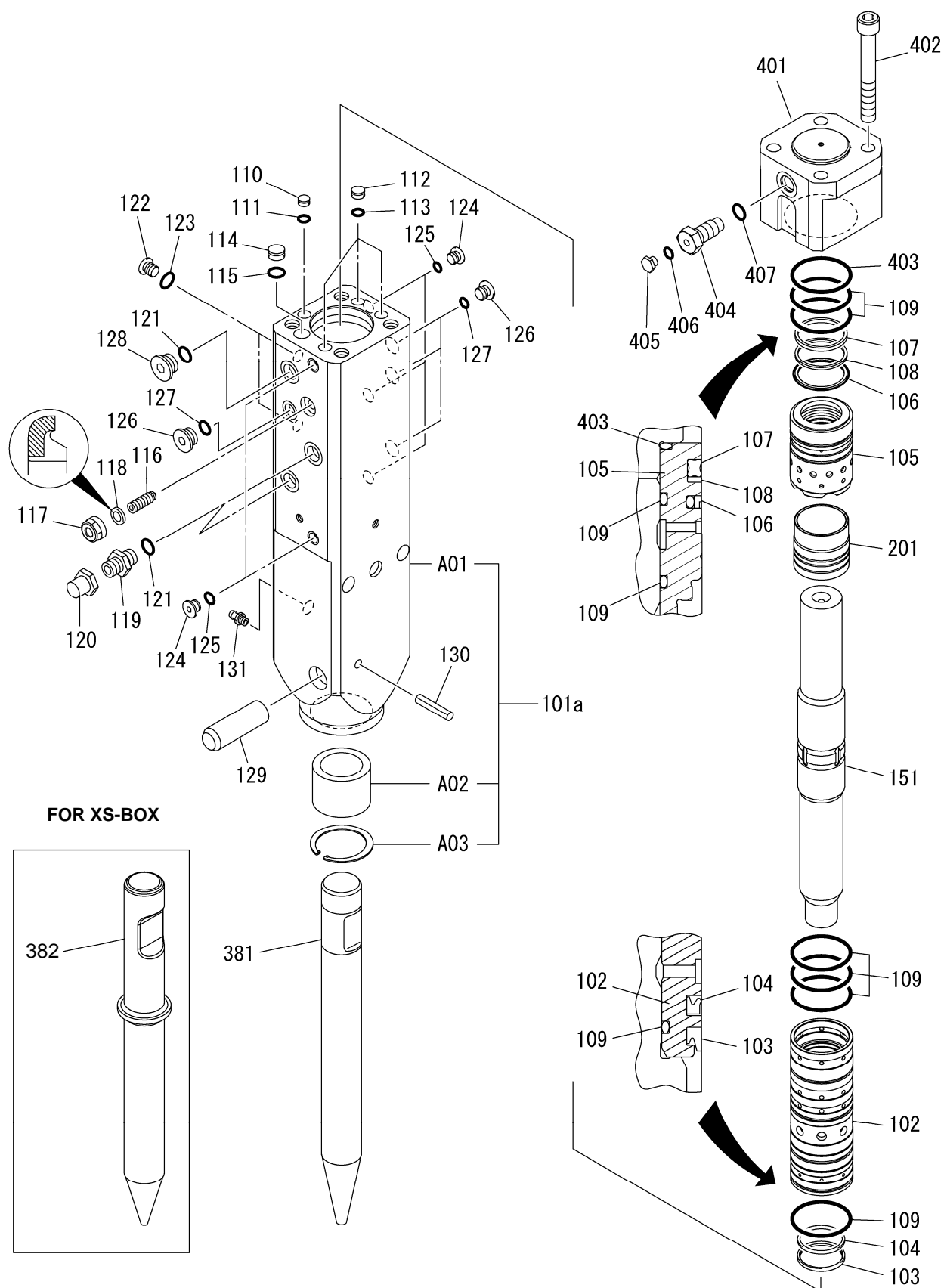
⑦ Page ..... The left side of “ - ” (hyphen) shows consecutive numbers in each unit.  
The right side shows consecutive numbers of drawings/lists in each unit.

## Name of Components or Component Group



## CONTENTS

FIG.NO.	GROUP NAME	PAGE
902307-000010 .....	BREAKER BODY UNIT .....	01-01
902307-920010 .....	SEAL KIT.....	02-01
902307-800010 .....	BRACKET .....	03-01
902307-822010 .....	FLAT TOP BRACKET .....	04-01
902307-880010 .....	S-BOX .....	05-01
902307-880100 .....	XS-BOX.....	06-01
.....	TOP BRACKET .....	07-01
.....	HYDRAULIC HOSE ASSEMBLY .....	08-01
.....	STICKERS .....	09-01
902307-900010 .....	STANDARD TOOLS .....	10-01
.....	BACK HEAD PRESSURE CHARGING KIT .....	11-01

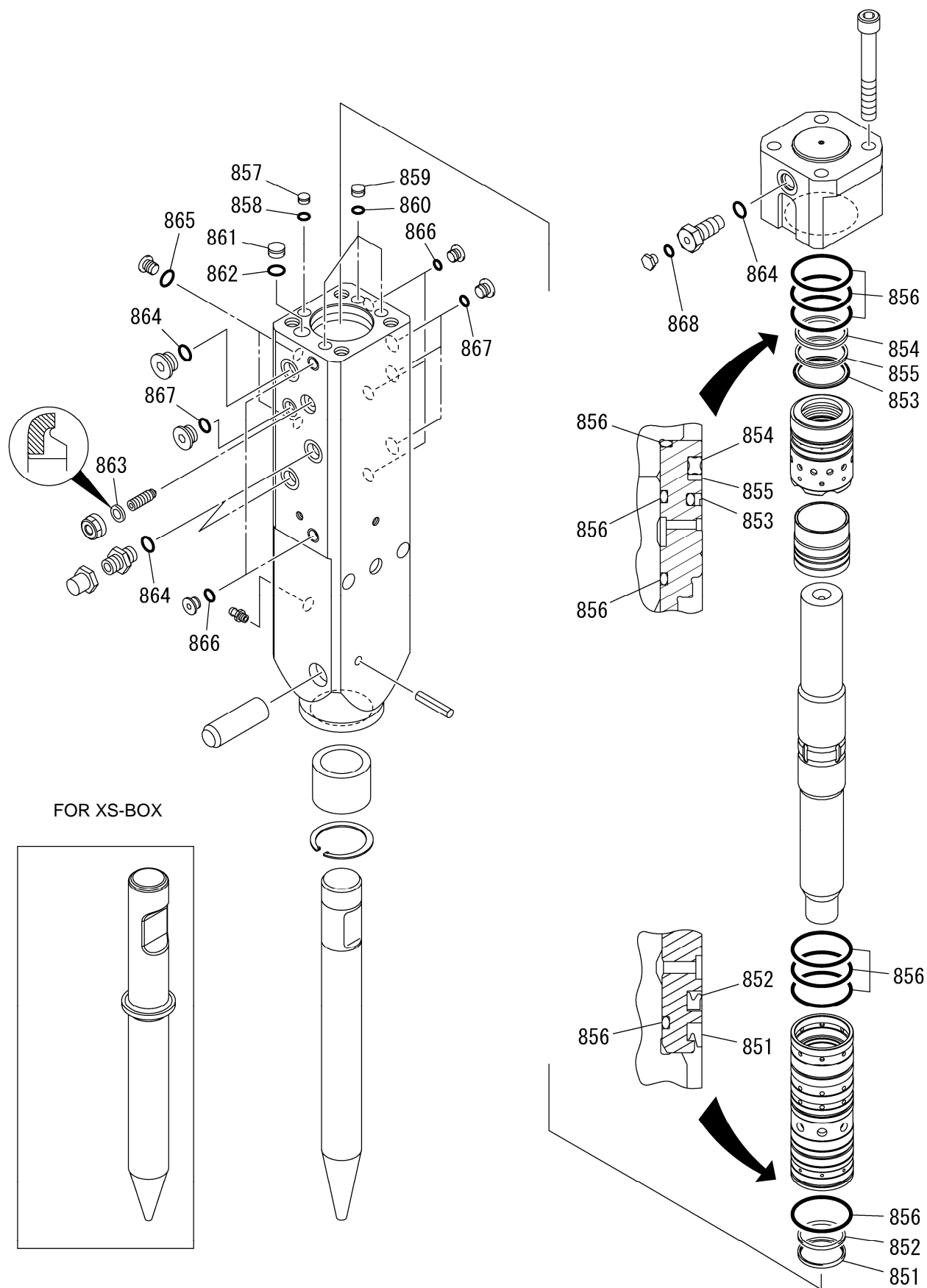




ITEM	PART NO.	PART NAME	Q'TY	REMARKS
101a	002307-100010	CYLINDER	1	
A01	*	*CYLINDER	1	
A02	HB3R-20103	*FRONT BUSH	1	
A03	264020-00070	*SNAP RING	1	
102	002307-100030	CYLINDER LINER	1	
103	HB3R-10106	DUST SEAL	1	R1
104	HB3R-10107	U-PACKING	1	R1
105	002307-100040	SEAL RETAINER	1	
106	002307-100050	STEP SEAL	1	R1
107	002307-100060	QUAD RING	1	R1
108	002307-100070	BACK-UP RING	1	R1
109	161021-00070	O-RING	6	R1
110	HB2R-10120	PLUG	1	R1
111	160011-10010	O-RING	1	R1
112	HB2R-10122	PLUG	3	R1
113	160011-00012	O-RING	3	R1
114	F2-10220	PLUG	1	R1
115	160011-00016	O-RING	1	R1
116	F4-10231	ADJUSTER	1	
117	F4-10233	SEAL NUT	1	
118	HB1G-10532	SEAL WASHER	1	R1
119	084861-04000	MALE CONNECTOR	2	
120	084898-04000	UNION CAP	2	
121	160011-00018	O-RING	3	R1
122	084891-01000	GPF PLUG	2	
123	160011-00008	O-RING	2	R1
124	084891-02000	GPF PLUG	5	
125	160011-00011	O-RING	5	R1
126	084891-03000	GPF PLUG	4	
127	160011-00014	O-RING	4	R1
128	084891-04000	GPF PLUG	1	
129	F3-20206	ROD PIN	1	
130	154037-10060	SPRING PIN	1	
131	170312-00000	GREASE NIPPLE	1	
151	002307-110010	PISTON	1	
201	002307-130010	VALVE	1	

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
381	F3-25111	FLAT ROD	1	ALTERNATIVE
381	F3-25113	MOIL POINT	1	ALTERNATIVE
381	F3-25114	WEDGE ROD	1	ALTERNATIVE
381	F3-25115	CONE ROD	1	ALTERNATIVE
381	F3-25116	BALL POINT ROD	1	ALTERNATIVE
382	002307-250050	FLAT ROD, XS	1	ALTERNATIVE, XS-BOX
382	002307-250060	CONE ROD, XS	1	ALTERNATIVE, XS-BOX
382	002307-250070	BALL POINT ROD, XS	1	ALTERNATIVE, XS-BOX
401	002307-300010	BACK HEAD	1	
402	102032-18150	SOCKET BOLT	4	D 102032-18140
402-1	102032-18140	SOCKET BOLT	4	
403	161021-00070	O-RING	1	R1
404	HB15G-30103	CHARGING VALVE	1	
405	HB20G-30109	PLUG	1	
406	160011-00006	O-RING	1	R1
407	160011-00018	O-RING	1	R1

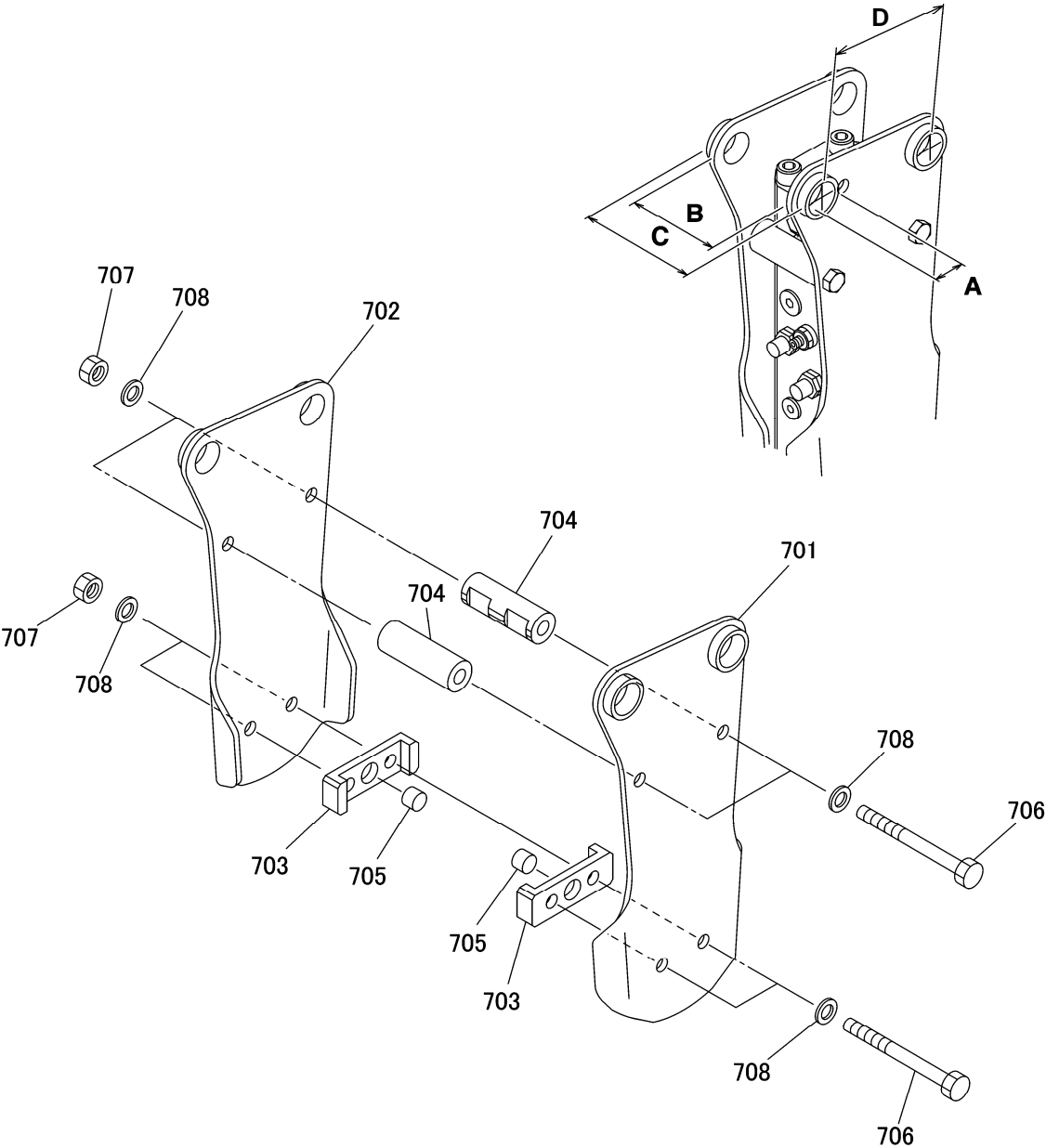
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ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902307-920010	SEAL KIT		
851	HB3R-10106	*DUST SEAL	1	
852	HB3R-10107	*U-PACKING	1	
853	002307-100050	*STEP SEAL	1	
854	002307-100060	*QUAD RING	1	
855	002307-100070	*BACK-UP RING	1	
856	161021-00070	*O-RING	7	
857	HB2R-10120	*PLUG	1	
858	160011-10010	*O-RING	1	
859	HB2R-10122	*PLUG	3	
860	160011-00012	*O-RING	3	
861	F2-10220	*PLUG	1	
862	160011-00016	*O-RING	1	
863	HB1G-10532	*SEAL WASHER	1	
864	160011-00018	*O-RING	4	
865	160011-00008	*O-RING	2	
866	160011-00011	*O-RING	5	
867	160011-00014	*O-RING	4	
868	160011-00006	*O-RING	1	

Dimension	A	B	C	D
Part No.				
902307-800010	φ 60 mm	154 mm	214 mm	218 mm

D: Distance between pins

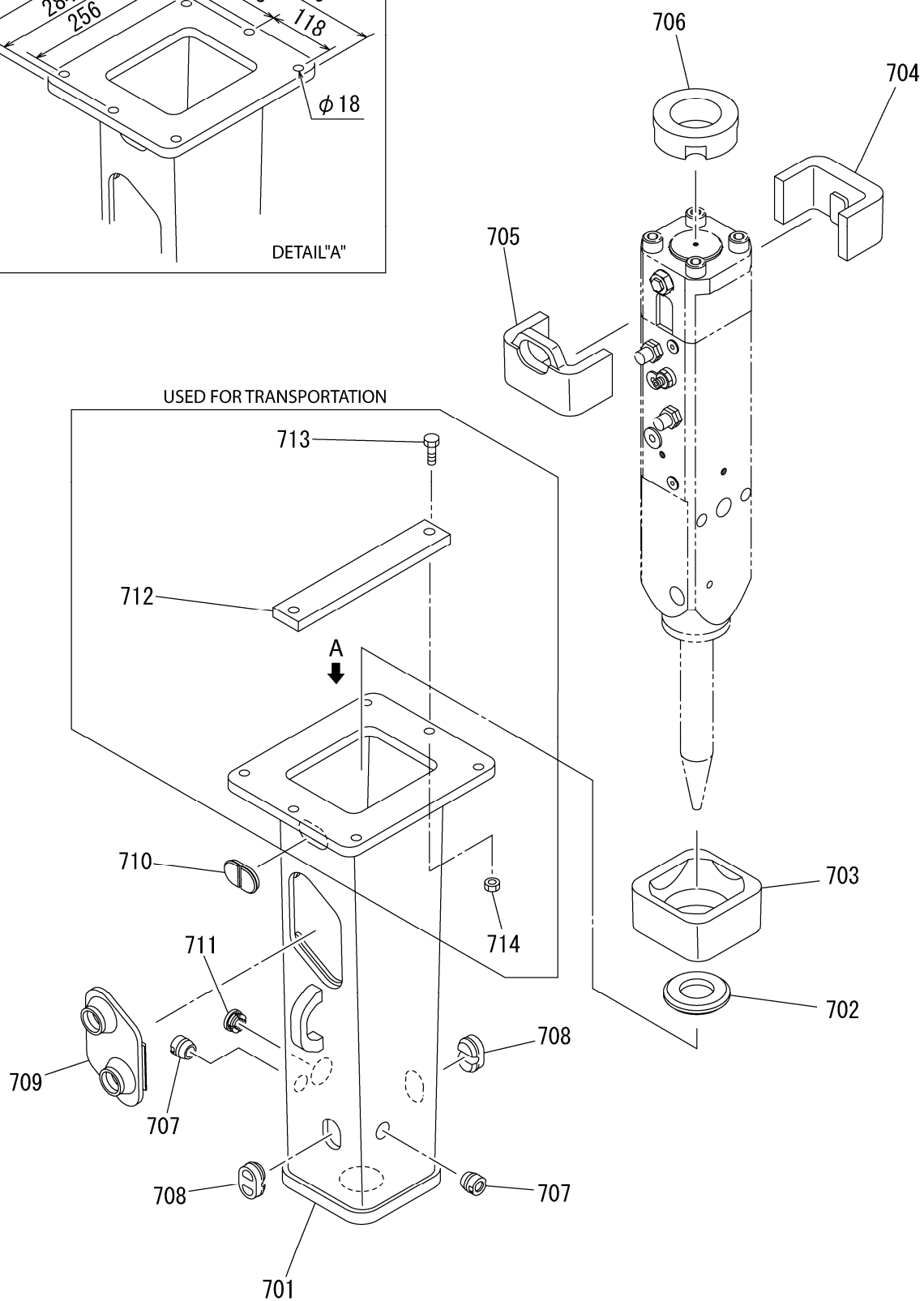
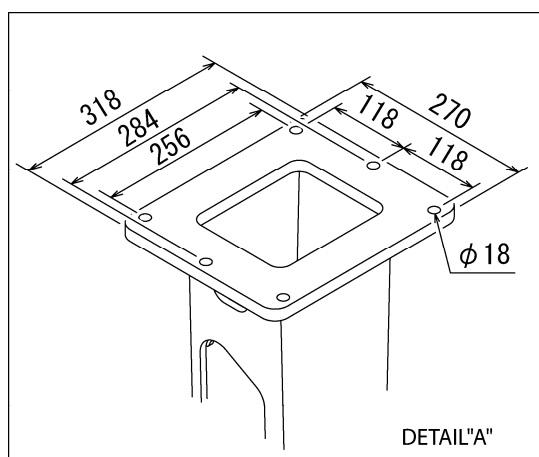


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902307-800010	BRACKET ASSEMBLY		
701	002307-800010	*BRACKET (R)	1	
702	002307-800020	*BRACKET (L)	1	
703	002307-810020	*SET PLATE	2	
704	002307-810030	*DISTANCE PIPE	2	
705	002307-810040	*SET PIN	2	
706	101032-20205	*BOLT	4	
707	120132-20000	*NUT	4	
708	HB3R-81114E	*NORD-LOCK WASHER	8	

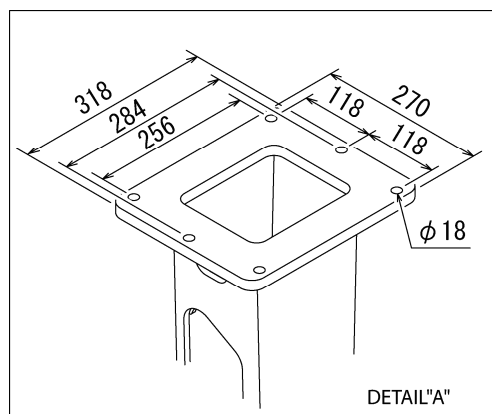




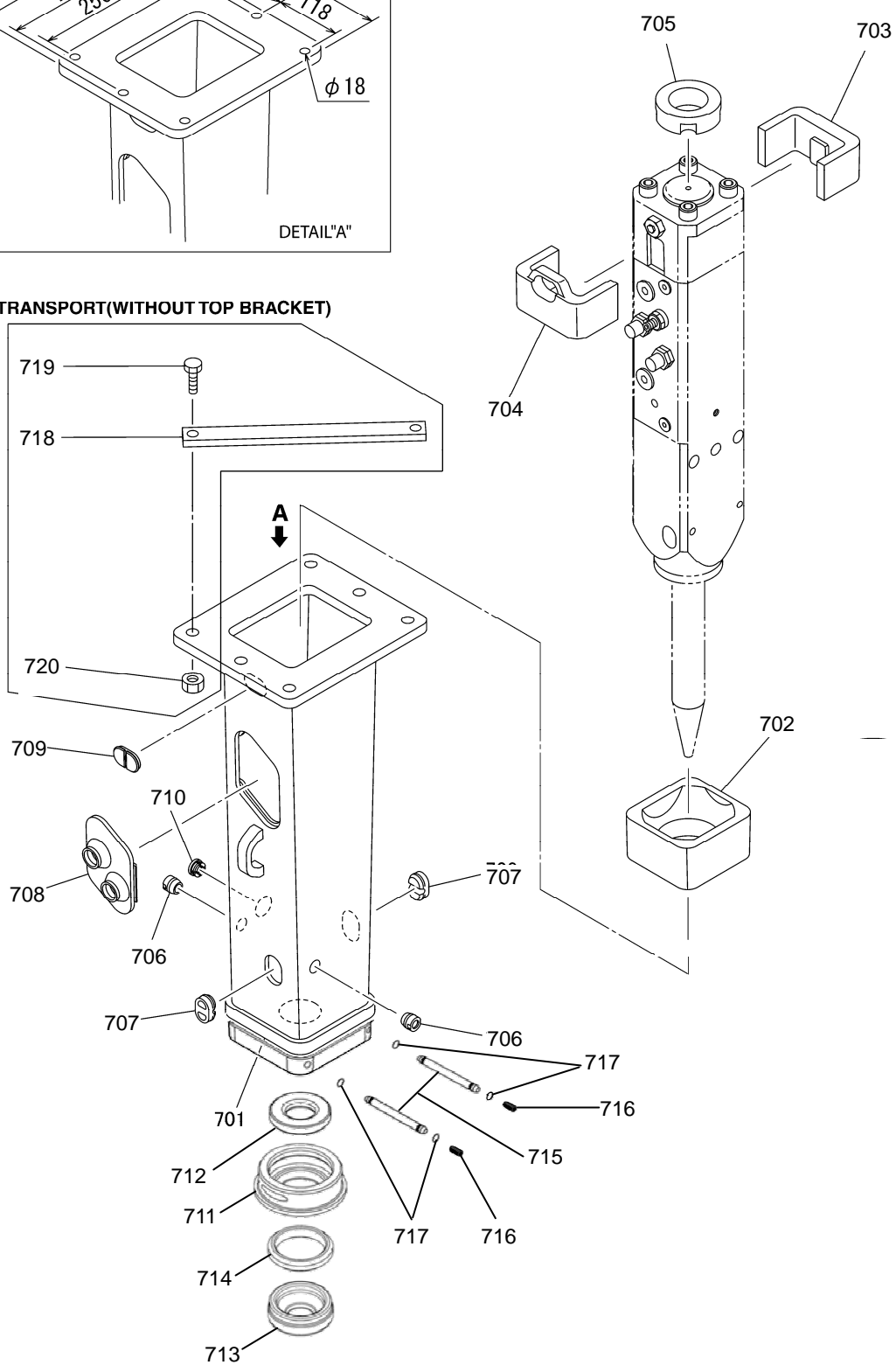
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902307-822010	BRACKET ASSEMBLY		
701	002307-822010	*BRACKET (R)	1	
702	002307-822020	*BRACKET (L)	1	
703	002307-810020	*SET PLATE	2	
704	002307-810030	*DISTANCE PIPE	2	
705	002307-810040	*SET PIN	2	
706	101032-20205	*BOLT	4	
707	120132-20000	*NUT	4	
708	HB3R-81114E	*NORD-LOCK WASHER	8	



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902307-880010	S-BOX ASSEMBLY		
701	002307-880010	*S-BOX	1	
702	002307-880020	*BOTTOM DAMPER	1	
703	002307-880030	*FRONT DAMPER	1	
704	002307-880040	*BACK DAMPER(A)	1	
705	002307-880050	*BACK DAMPER(B)	1	
706	002307-880060	*TOP DAMPER	1	
707	002308-880070	*DUST PLUG	2	
708	002306-880070	*PIN PLUG	2	
709	002307-880070	*SOUNDPROOF COVER	1	
710	002308-880100	*DUST PLUG	1	
711	002200-830160	*GREASE CAP	1	
712	F3-88231	*FLAT BAR	1	TRANSPORT (WITHOUT TOP BRACKET)
713	101012-16040	*BOLT	2	TRANSPORT (WITHOUT TOP BRACKET)
714	120112-16000	*NUT	2	TRANSPORT (WITHOUT TOP BRACKET)

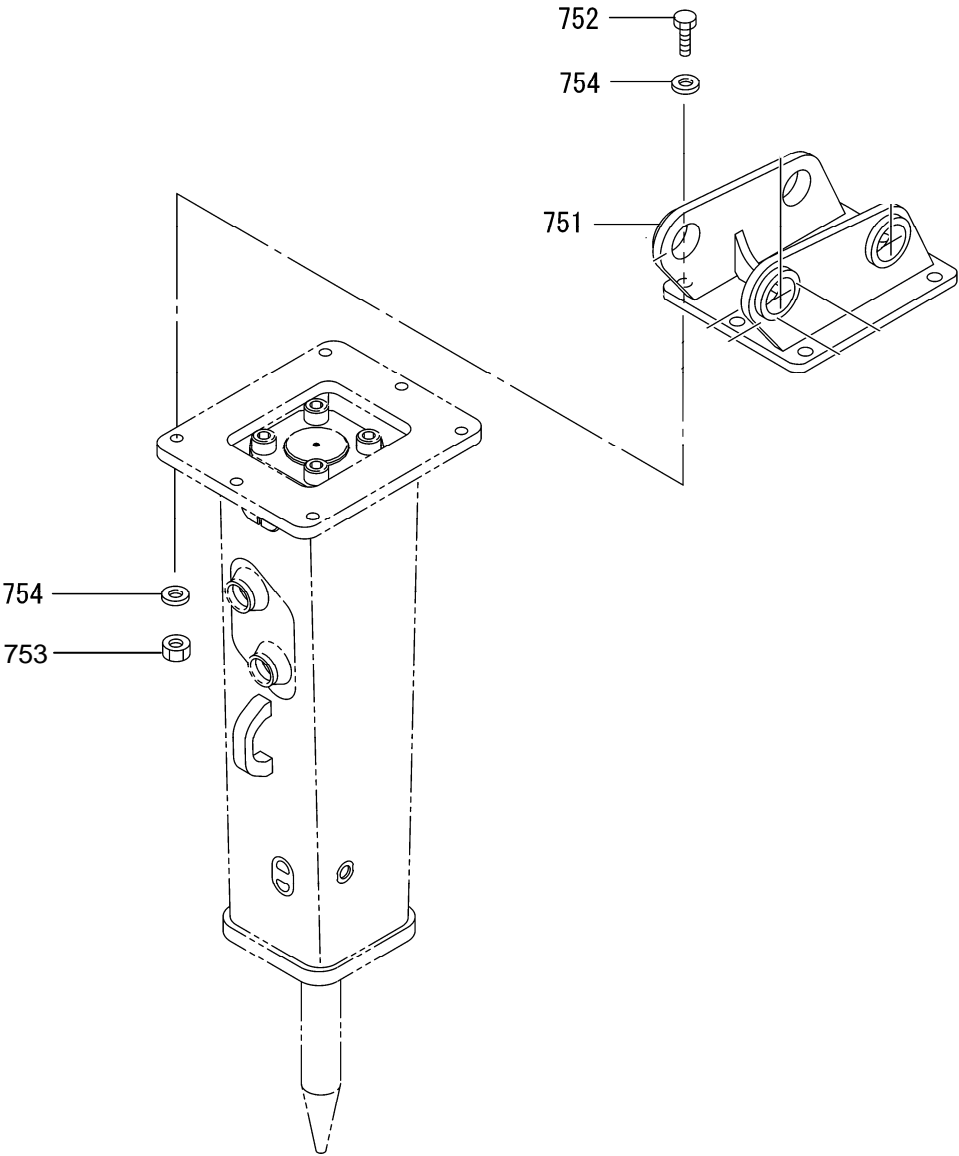


## TRANSPORT(WITHOUT TOP BRACKET)



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902307-880100	XS-BOX ASSEMBLY		
701	002307-880100	*XS-BOX	1	
702	002307-880030	*FRONT DAMPER	1	
703	002307-880040	*BACK DAMPER(A)	1	
704	002307-880050	*BACK DAMPER(B)	1	
705	002307-880060	*TOP DAMPER	1	
706	002308-880070	*DUST PLUG	2	
707	002306-880070	*PIN PLUG	2	
708	002307-880070	*SOUNDPROOF COVER	1	
709	002308-880100	*DUST PLUG	1	
710	002200-830160	*GREASE CAP	1	
711	002307-830060-A	*CAP	1	
712	002307-830070-A	*RING, XS	1	
713	002307-830080	*PROTECT SEAL	1	
714	002307-830090	*SUPPORT RING	1	
715	002307-830100	*STOP PIN	2	
716	154037-12024	*SPRING PIN	2	
717	160011-10008	*O-RING	4	
718	F3-88231	*FLAT BAR	1	TRANSPORT (WITHOUT TOP BRACKET)
719	101012-16040	*BOLT	2	TRANSPORT (WITHOUT TOP BRACKET)
720	120112-16000	*NUT	2	TRANSPORT (WITHOUT TOP BRACKET)

TOP BRACKET

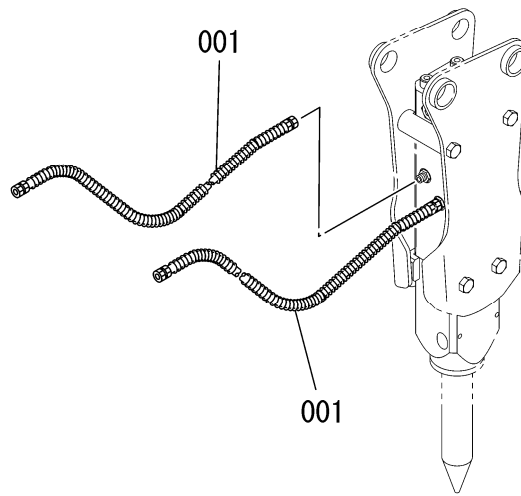


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
751	101032-16070 120132-16000 140112-16000	TOP BRACKET	1	FLAT TOP BRACKET
752		BOLT	8	
753		NUT	8	
754		WASHER	8	
751	101032-16070 120132-16000 140112-16000	TOP BRACKET	1	S-BOX AND XS-BOX
752		BOLT	6	
753		NUT	6	
754		WASHER	6	

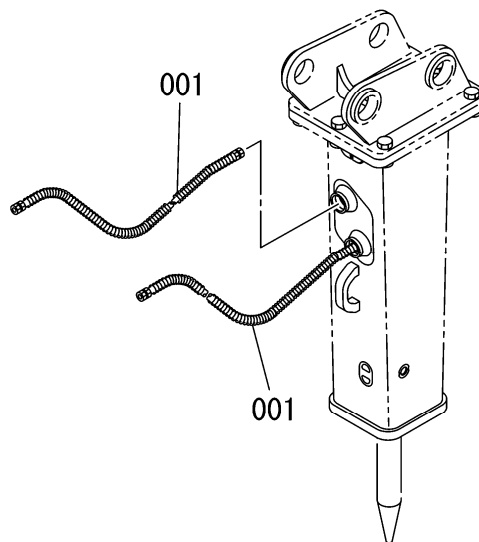
## HYDRAULIC HOSE ASSEMBLY

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### BRACKET AND FLAT TOP BRACKET



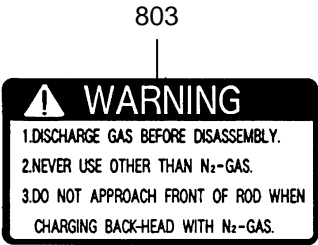
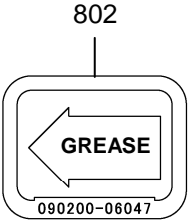
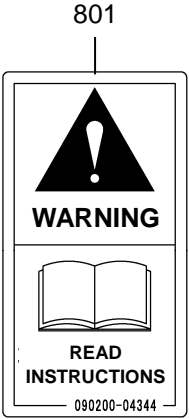
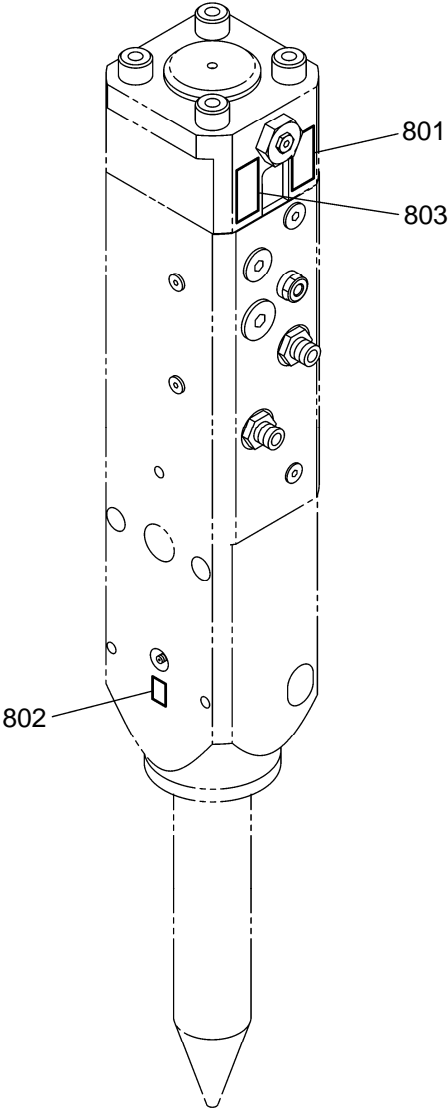
### S-BOX AND XS-BOX



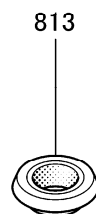
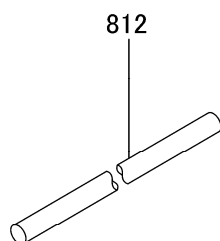
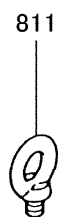
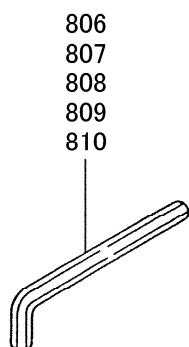
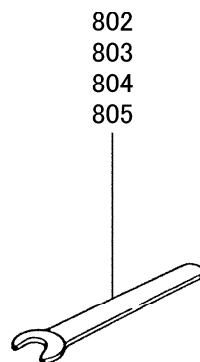
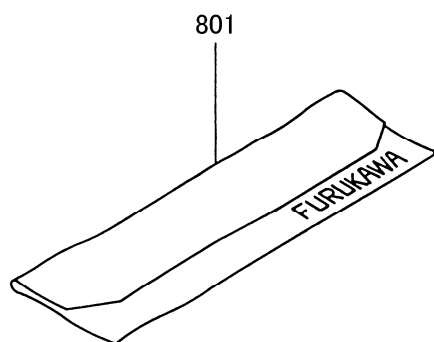


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
001	1003365	HYDRAULIC HOSE ASSEMBLY HYDRAULIC HOSE	2	FOR BRACKET, FLAT TOP BRACKET, S-BOX AND XS-BOX

STICKERS



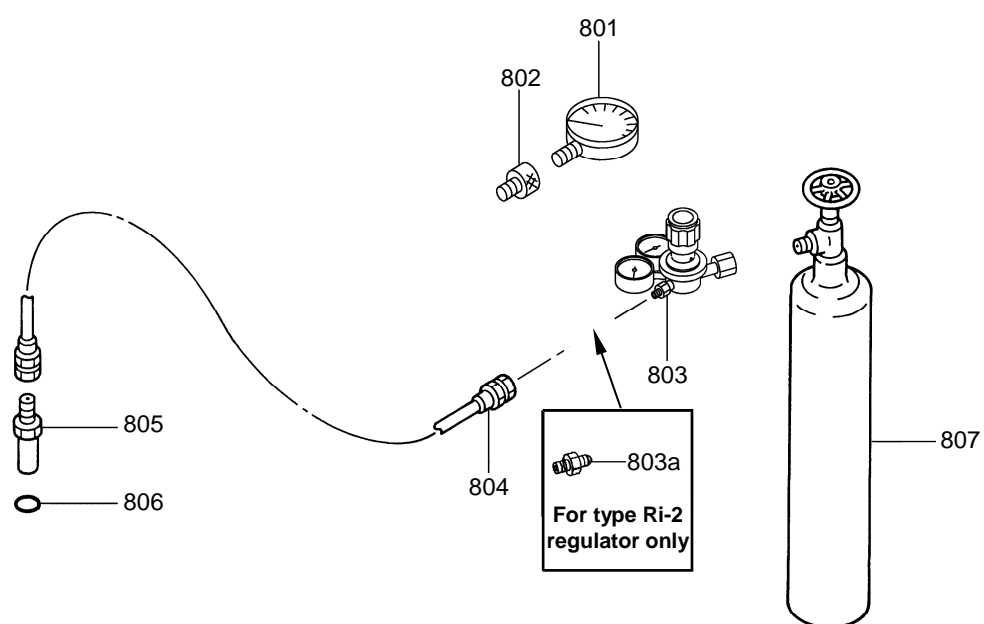
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
801	090200-04344	WARNING STICKER	1	ENGLISH
802	090200-06047	CAUTION STICKER	1	ENGLISH
803	090200-04209	WARNING STICKER	1	ENGLISH
				FOR STICKERS IN OTHER LANGUAGES PLEASE ASK YOUR NEAREST FRD DISTRIBUTOR



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
801	090012-91013	TOOL CASE	1	D 002301-900010
802	090012-11010	14mm SPANNER	1	
803	090012-11014	22mm SPANNER	1	
804	090012-11018	27mm SPANNER	2	
805	090012-11020	30mm SPANNER	2	
806	090012-17006	5mm HEXAGON BAR WRENCH	1	
807	090012-17007	6mm HEXAGON BAR WRENCH	1	
808	090012-17008	8mm HEXAGON BAR WRENCH	1	
809	090012-17009	10mm HEXAGON BAR WRENCH	1	
810	090012-17011	14mm HEXAGON BAR WRENCH	1	
811	117012-10000	EYE BOLT	2	
812	002303-900010	PRESS PIN	1	
812-1	002301-900010	PRESS PIN	1	
813	HB1G-10532	SEAL WASHER	1	

## BACK HEAD PRESSURE CHARGING KIT

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ITEM	PART NO.	PART NAME	Q'TY	REMARKS
801	HB20G-920131 H-11016	BACK HEAD CHARGING KIT *PRESSURE GAUGE	1	FOR: AUSTRIA, BULGARIA, CZECH REP., DENMARK, FINLAND, GERMANY, ICELAND, NETHERLANDS, NORWAY, POLAND, RUSSIA (MOSCOW), SERBIA, SLOVAKIA, SWEDEN, SWITZERLAND.
802	HB20G-921072	*ADAPTER	1	
803	046012	*REGULATOR (Ru-3)	1	
804	1001766	*CHARGING HOSE	1	
805	HB20G-921071	*CHARGING ADAPTER	1	
806	161011-00006	*O-RING	1	
807	-	NITROGEN GAS CYLINDER	1	
801	HB20G-920132 H-11016	BACK HEAD CHARGING KIT *PRESSURE GAUGE	1	FOR: FRANCE, PORTUGAL, ROMANIA, SPAIN.
802	HB20G-921072	*ADAPTER	1	
803	046016	*REGULATOR (B-4)	1	
804	1001766	*CHARGING HOSE	1	
805	HB20G-921071	*CHARGING ADAPTER	1	
806	161011-00006	*O-RING	1	
807	-	NITROGEN GAS CYLINDER	1	
801	HB20G-920133 H-11016	BACK HEAD CHARGING KIT *PRESSURE GAUGE	1	FOR: GREAT BRITAIN, IRELAND MALTA, SOUTH AFRICA.
802	HB20G-921072	*ADAPTER	1	
803	046017	*REGULATOR (Ri-2)	1	
803a	2243-04-06	*CONNECTOR	1	
804	1001766	*CHARGING HOSE	1	
805	HB20G-921071	*CHARGING ADAPTER	1	
806	161011-00006	*O-RING	1	
807	-	NITROGEN GAS CYLINDER	1	
801	HB20G-920134 H-11016	BACK HEAD CHARGING KIT *PRESSURE GAUGE	1	FOR: BELGIUM, CYPRUS, ESTONIA, GREECE, HUNGARY, ISRAEL, ITALY, LATVIA, LITHUANIA, RUSSIA (GENERAL) UKRAINE.
802	HB20G-921072	*ADAPTER	1	
803	046018	*REGULATOR (Ru-1)	1	
804	1001766	*CHARGING HOSE	1	
805	HB20G-921071	*CHARGING ADAPTER	1	
806	161011-00006	*O-RING	1	
807	-	NITROGEN GAS CYLINDER	1	



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**Book No. : Fx35-202E**

**Date of Issue : March 2011**