PARTS LIST Fx45

HYDRAULIC BREAKER

APPLICABLE SERIAL NUMBER 1014 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 Manufactures 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.
- 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

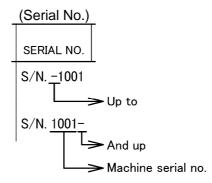
(1) Illustration

- ② Fig. No......This shows the illustration number and corresponds to Fig. No. of the parts breakdown.
- ③ ItemThis corresponds to Item in the parts breakdown.
- ④ Group NameThis 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

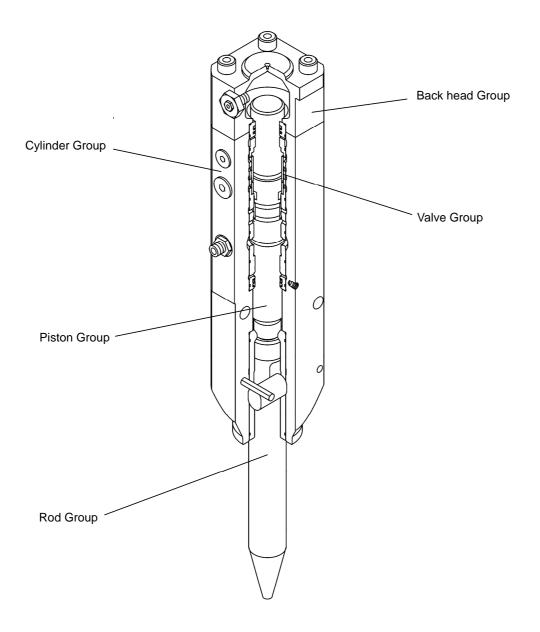
① ItemThis is shown by three figures and corresponds to Item in the illustration.
Item nos. are not always in sequence.
When a part has been changed in design and then the part number or
quantity has been changed, a sub-number is added to Item in order to
show the order of change.
② Part No(a) Part number 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
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' tyAs 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.
()ParenthesisThis part does not include an assembly. \cdot \cdot · Option
etc.
ARAs required.

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



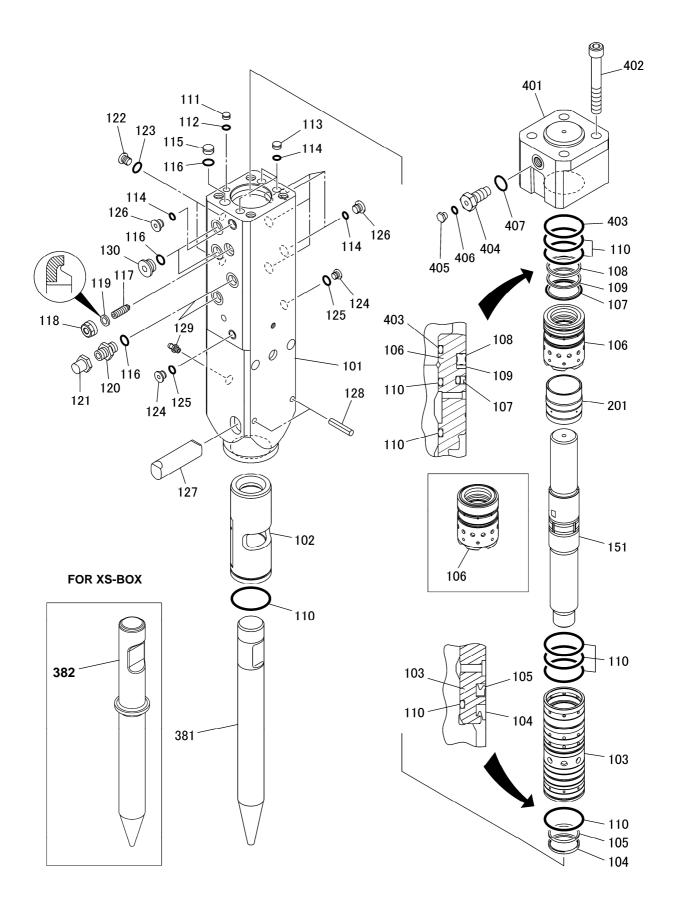
AReplaceable common part and following	j part no.
B Represents that this part is not supplied	ed as a single
part, however, it is supplied as a set.	
Refer to Replaceable Parts List at the e	and of the parts
list.	
C Represents that this part is not supplie	ed as a single
part.	
When an assembly including this part i	s supplied, the
parts after this mark are supplied. Whe	n 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 supplyi	ng this part is
discontinued. When a substitute can be	e supplied, the
part number after this mark is supplied.	
⑦ Page The left side of " - " (hyphen) shows consecutive number	rs in each unit.
The right side shows consecutive numbers of drawings/list	s in each unit.

Name of Components or Component Group



CONTENTS

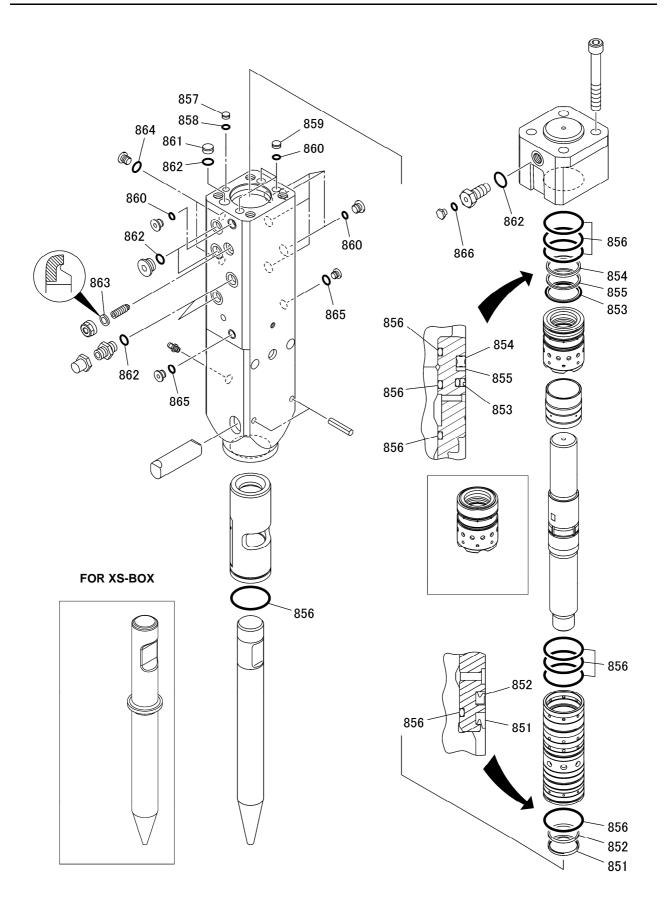
FIG.NO.	GROUP NAME	PAGE
902308-000011	······BREAKER BODY UNIT ······BREAKER BODY UNIT ·····	01-01
902308-920010	······SEAL KIT·····	
902308-800010	BRACKETBRACKET	03-01
902308-822010	······FLAT TOP BRACKET ······FLAT TOP BRACKET ······	04-01
902308-880010	S-BOX	
902308-880100 -	XS-BOX	
	······TOP BRACKET ······	07-01
	HYDRAULIC HOSE ASSEMBLY	
	······STICKERS ·····	
902308-900010	STANDARD TOOLS	
	BACK HEAD PRESSURE CHARGING KIT	11-01



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
101	002308-100060	CYLINDER	1	
102	002308-100070	FRONT LINER	1	
103	002308-100030	CYLINDER LINER	1	
104	HB4R-10106	DUST SEAL	1	R1
105	HB4R-10107	U-PACKING	1	R1
106	002308-100040	SEAL RETAINER	1	D 002308-100041
106-1	002308-100041	SEAL RETAINER	1	
107	002303-100030	STEP SEAL	1	R1
108	002303-100041	QUAD RING	1	R1
109	002303-100050	BACK-UP RING	1	R1
110	161021-00080	O-RING	7	R1
111	HB2R-10120	PLUG	1	R1
112	160011-10010	O-RING	1	R1
113	HB5G-10120	PLUG	3	R1
114	160011-00014	O-RING	9	R1
115	002301-100060	PLUG	1	R1
116	160011-00018	O-RING	5	R1
117	F4-10231	ADJUSTER	1	
118	F4-10233	SEAL NUT	1	
119	HB1G-10532	SEAL WASHER	1	R1
120	084861-04000	MALE CONNECTOR	2	
121	084898-04000	UNION CAP	2	
122	084891-01000	GPF PLUG	2	
123	160011-00008	O-RING	2	R1
124	084891-02000	GPF PLUG	2	
125	160011-00011	O-RING	2	R1
126	084891-03000	GPF PLUG	6	
127	002308-100050	ROD PIN	1	
128	154037-12065	SPRING PIN	2	
129	170312-00000	GREASE NIPPLE	1	
130	084891-04000	GPF PLUG	2	
151	002308-110011	PISTON	1	
201	002308-130011	VALVE	1	

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
381	F4-25111	FLAT ROD	1	ALTERNATIVE
381	F4-25113	MOIL POINT	1	ALTERNATIVE
381	F4-25114	WEDGE ROD	1	ALTERNATIVE
381	F4-25115	CONE ROD	1	ALTERNATIVE
381	F4-25116	BALL POINT ROD	1	ALTERNATIVE
382	002308-250050	FLAT ROD, XS	1	ALTERNATIVE, XS-BOX
382	002308-250060	CONE ROD, XS	1	ALTERNATIVE, XS-BOX
382	002308-250070	BALL POINT ROD, XS	1	ALTERNATIVE, XS-BOX
401	002308-300011	BACK HEAD	1	
402	102032-20150	SOCKET BOLT	4	
403	161021-00080	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

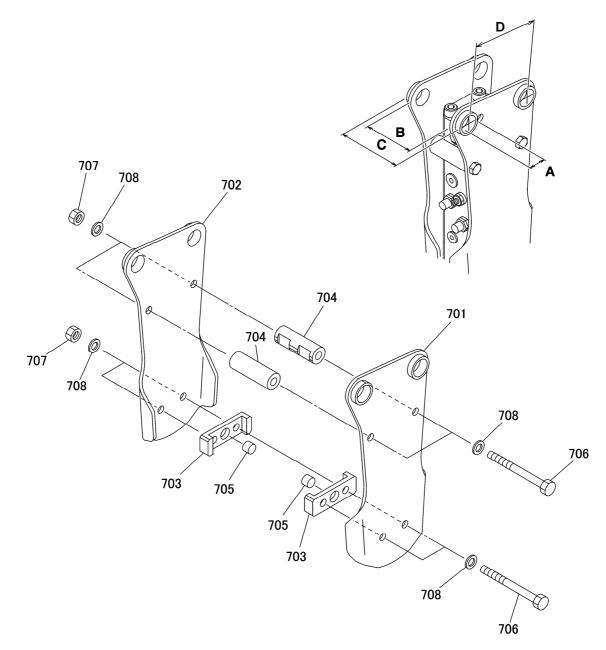
SERVICE MEMO



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902308-920010	SEAL KIT		
851	HB4R-10106	*DUST SEAL	1	
852	HB4R-10107	*U-PACKING	1	
853	002303-100030	*STEP SEAL	1	
854	002303-100041	*QUAD RING	1	
855	002303-100050	*BACK-UP RING	1	
856	161021-00080	*O-RING	8	
857	HB2R-10120	*PLUG	1	
858	160011-10010	*O-RING	1	
859	HB5G-10120	*PLUG	3	
860	160011-00014	*O-RING	9	
861	002301-100060	*PLUG	1	
862	160011-00018	*O-RING	6	
863	HB1G-10532	*SEAL WASHER	1	
864	160011-00008	*O-RING	2	
865	160011-00011	*O-RING	2	
866	160011-00006	*O-RING	1	

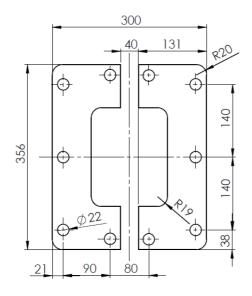
Dimension Part No.	А	В	с	D
902308-800010	¢60 mm	154 mm	214 mm	218 mm

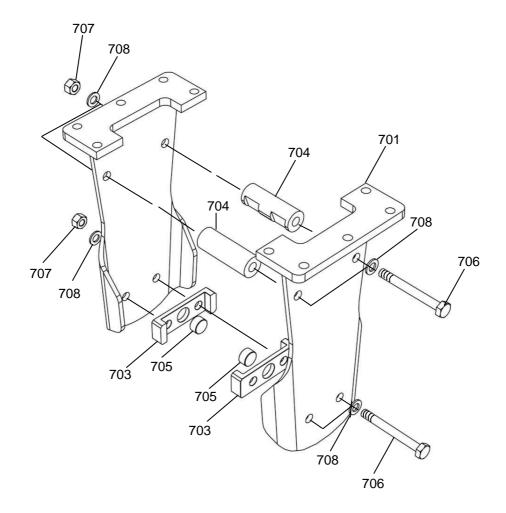
D: Distance between pins



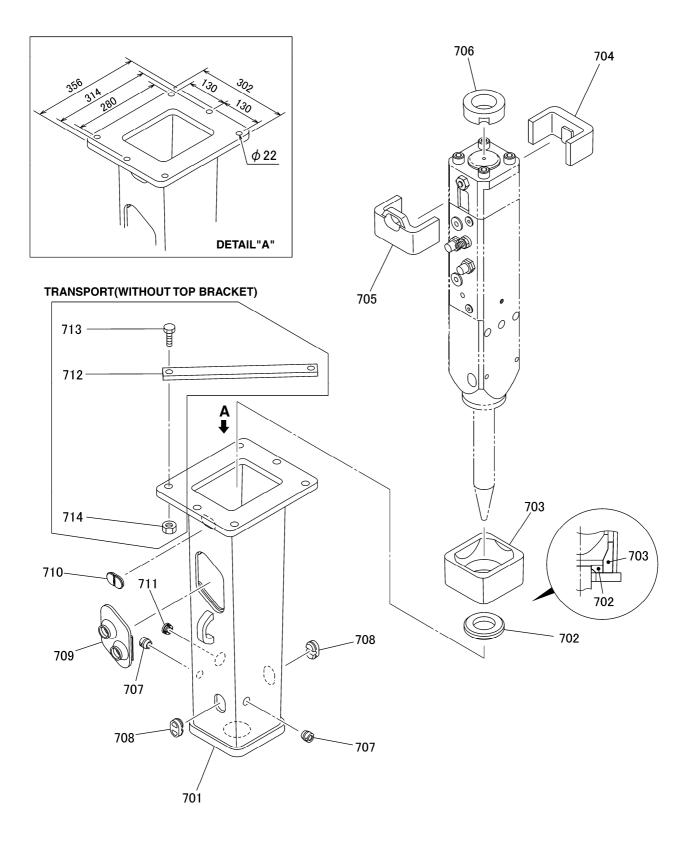
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902308-800010	BRACKET ASSEMBLY		
701	002308-800010	*BRACKET (R)	1	
702	002308-800020	*BRACKET (L)	1	
703	002308-810060	*SET PLATE	2	D 002308-810061
703-1	002308-810061	*SET PLATE	2	
704	002308-810070	*DISTANCE PIPE	2	D 002308-810071
704-1	002308-810071	*DISTANCE PIPE	2	
705	002308-810080	*SET PIN	2	D 002308-810081
705-1	002308-810081	*SET PIN	2	
706	101032-22210	*BOLT	4	
707	120132-22000	*NUT	4	
708	HB4R-81114E	*NORD-LOCK WASHER	8	

Top bracket mounting dimensions:

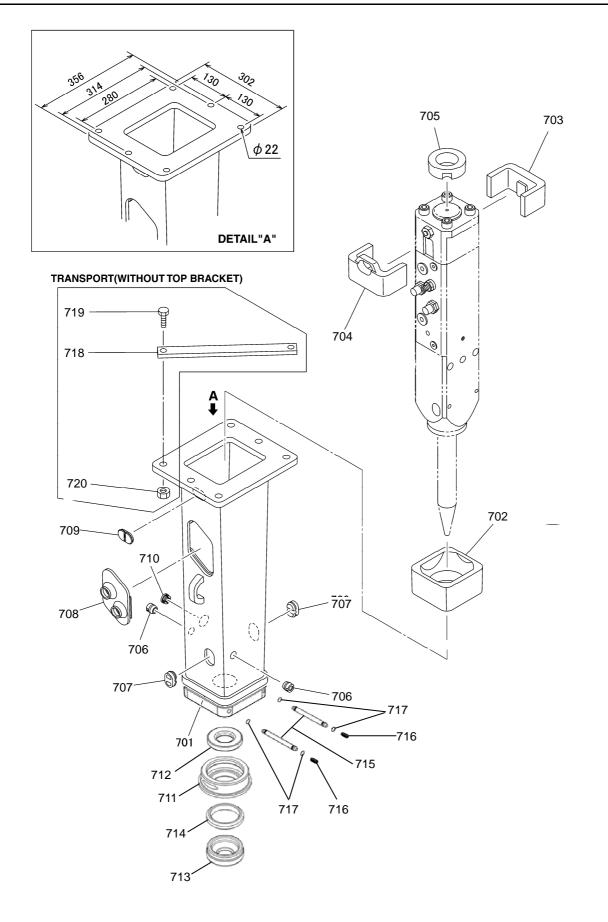




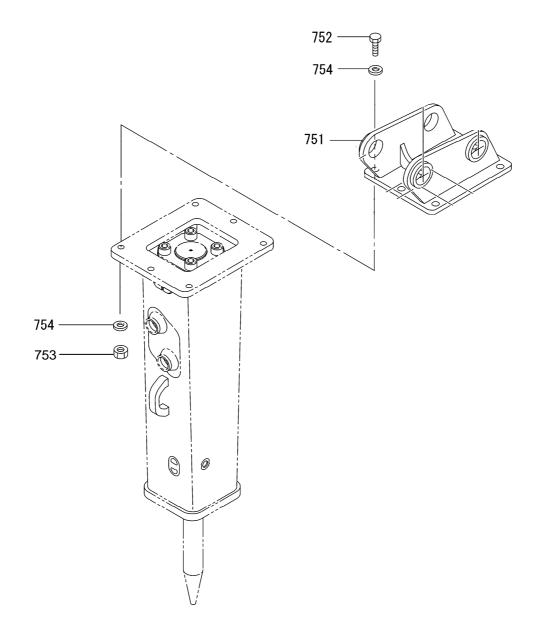
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902308-822010	BRACKET ASSEMBLY		
701	002308-822010	*BRACKET (R)	1	
702	002308-822020	*BRACKET (L)	1	
703	002308-810061	*SET PLATE	2	
704	002308-810071	*DISTANCE PIPE	2	
705	002308-810081	*SET PIN	2	
706	101032-22210	*BOLT	4	
707	120132-22000	*NUT	4	
708	HB4R-81114E	*NORD-LOCK WASHER	8	



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902308-880010	S-BOX ASSEMBLY		
701	002308-880010	*S-BOX	1	
702	002308-880020	*BOTTOM DAMPER	1	
703	002308-880030	*FRONT DAMPER	1	
704	002308-880040	*BACK DAMPER(A)	1	
705	002308-880050	*BACK DAMPER(B)	1	
706	002308-880060	*TOP DAMPER	1	
707	002308-880070	*DUST PLUG	2	
708	002308-880080	*PIN PLUG	2	
709	002308-880090	*SOUNDPROOF COVER	1	
710	002308-880100	*DUST PLUG	1	
711	002200-830160	*GREASE CAP	1	
712	F4-88231	*FLAT BAR	1	TRANSPORT (WITHOUT TOP BRACKET)
713	101012-20050	*BOLT	2	TRANSPORT (WITHOUT TOP BRACKET)
714	120112-20000	*NUT	2	TRANSPORT (WITHOUT TOP BRACKET)

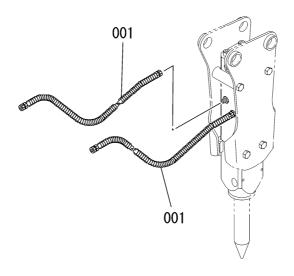


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	902308-880110	XS-BOX ASSEMBLY		
701	002308-880110	*XS-BOX	1	
702	002308-880030	*FRONT DAMPER	1	
703	002308-880040	*BACK DAMPER(A)	1	
704	002308-880050	*BACK DAMPER(B)	1	
705	002308-880060	*TOP DAMPER	1	
706	002308-880070	*DUST PLUG	2	
707	002308-880080	*PIN PLUG	2	
708	002308-880090	*SOUNDPROOF COVER	1	
709	002308-880100	*DUST PLUG	1	
710	002200-830160	*GREASE CAP	1	
711	002308-830070	*CAP	1	
712	002308-830080-A	*RING, XS	1	
713	002308-830090	*PROTECT SEAL	1	
714	002308-830100	*SUPPORT RING	1	
715	002308-830110	*STOP PIN	2	
716	154037-14030	*SPRING PIN	2	
717	160011-10010	*O-RING	4	
718	F4-88231	*FLAT BAR	1	TRANSPORT (WITHOUT TOP BRACKET)
719	101012-20050	*BOLT	2	TRANSPORT (WITHOUT TOP BRACKET)
720	120112-20000	*NUT	2	TRANSPORT (WITHOUT TOP BRACKET)
				BRACKET

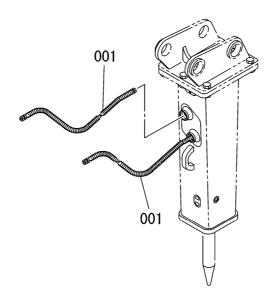


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
751		TOP BRACKET	1	FLAT TOP BRACKET
752	101032-20080	BOLT	10	
753	120132-20000	NUT	10	
754	140112-20000	WASHER	10	
751		TOP BRACKET	1	S-BOX AND XS-BOX
752	101032-20080	BOLT	6	
753	120132-20000	NUT	6	
754	140112-20000	WASHER	6	

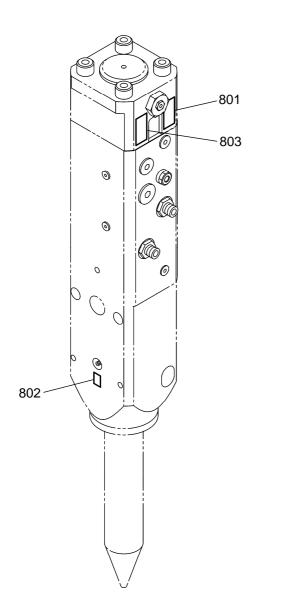
BRACKET AND FLAT TOP BRACKET

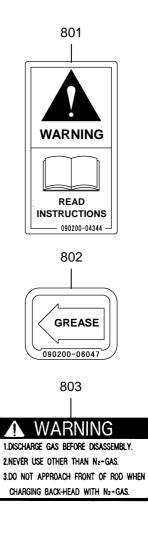


S-BOX AND XS-BOX

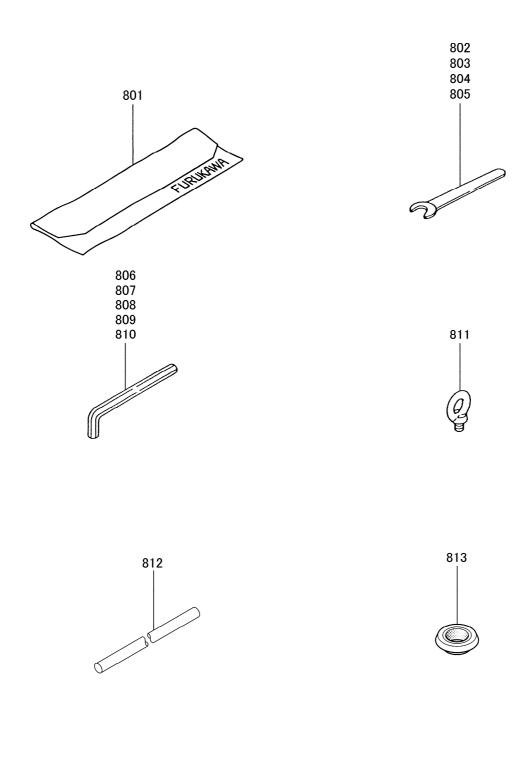


ITEM	PART NO.	PART NAME	Q'TY	REMARKS
001	1003346	HYDRAULIC HOSE ASSEMBLY HYDRAULIC HOSE	2	FOR BRACKET, FLAT TOP BRACKET, S-BOX AND XS-BOX

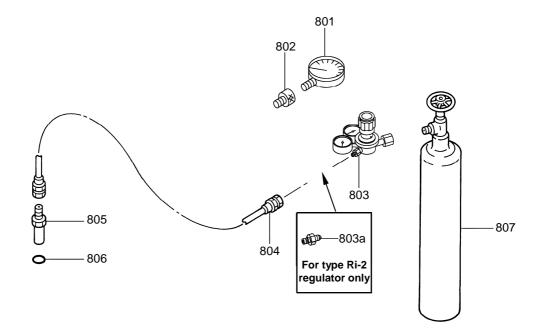




ITEM	PART NO.	PART NAME	Q'TY	REMARKS
801	090200-04344		1	ENGLISH
802	090200-06047	CAUTION STICKER	1	ENGLISH
803	090200-04209	WARNING STICKER	1	ENGLISH
				FOR STICKERS IN OTHER
				LANGUAGES PLEASE
				ASK YOUR NEAREST
				FRD DISTRIBUTOR



ITEM	PART NO.	PART NAME	Q'TY	REMARKS
801	090012-91014	TOOL CASE	1	
802	090012-11010	14mm SPANNER	1	
803	090012-11014	22mm SPANNER	1	
804	090012-11018	27mm SPANNER	2	
805	090012-11021	32mm 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	090012-17012	17mm HEXAGON BAR WRENCH	1	
811	117012-12000	EYE BOLT	2	
812	002303-900010	PRESS PIN	1	D 002308-900010
812-1	002308-900010	PRESS PIN	1	
813	HB1G-10532	SEAL WASHER	1	



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



3-14, 2-chome, Nihonbashi-muromachi, Chuo-ku, Tokyo, 103-0022, Japan. Phone:81-3-3231-6982 Fax:81-3-3231-6993

European representative FRD Europe B.V. Proostwetering 29 3543 AB Utrecht, The Netherlands Tel.: +31-(0)30-2412277 Fax: +31-(0)30-2412305

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