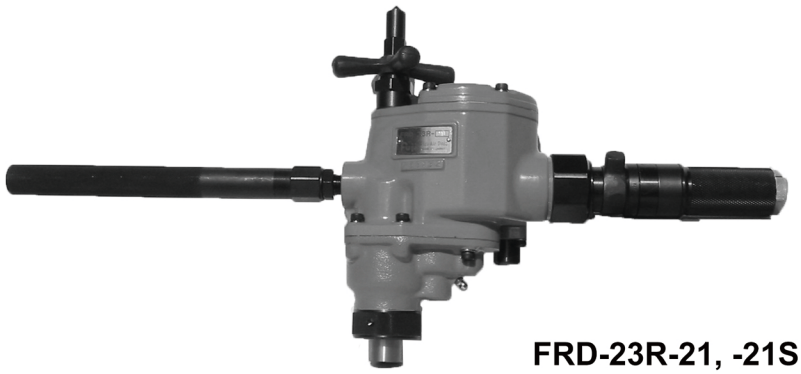
Fuji USER MANUAL

—— DRILLS ——

MODELS : FRD-23R-21, -21S, -22, -22S



FRD-23R-21, -21S



FRD-23R-22, -22S

SPECIFICATIONS

Modle	Capacity			Socket	Stall Torque	Max. Output	Rotational Frequency	Max. Air Consumption	Feed Length	Overall Length	Mass	Air Inlet Thread Size	Air Hose Size
	Drilling	Reaming	Tapping										
	mm	mm	mm	M.T.#	N･m	W	min^{-1}	m^3/min	mm	mm	kg		mm
FRD-23R-21	22	19	19	2	78.4	880	480	1.2	67	282	7.3	PT or NPT1/2	12.7
FRD-23R-21S	22	19	19	2	78.4	880	480	1.2	67	282	7.3	PT or NPT1/2	12.7
FRD-23R-22	22	19	19	3	78.4	880	480	1.2	67	307	7.4	PT or NPT1/2	12.7
FRD-23R-22S	22	19	19	3	78.4	880	480	1.2	67	307	7.4	PT or NPT1/2	12.7

The performance figures are at 0.63MPa (6.3bar).

⚠ Refer to "The Instructions and Warning for Safety Use" enclosed in each tool box.

Fuji Industrial Technique Co.,Ltd.

2-1-14, Kamiji, Higashinari-ku, Osaka, 537-0003 Japan

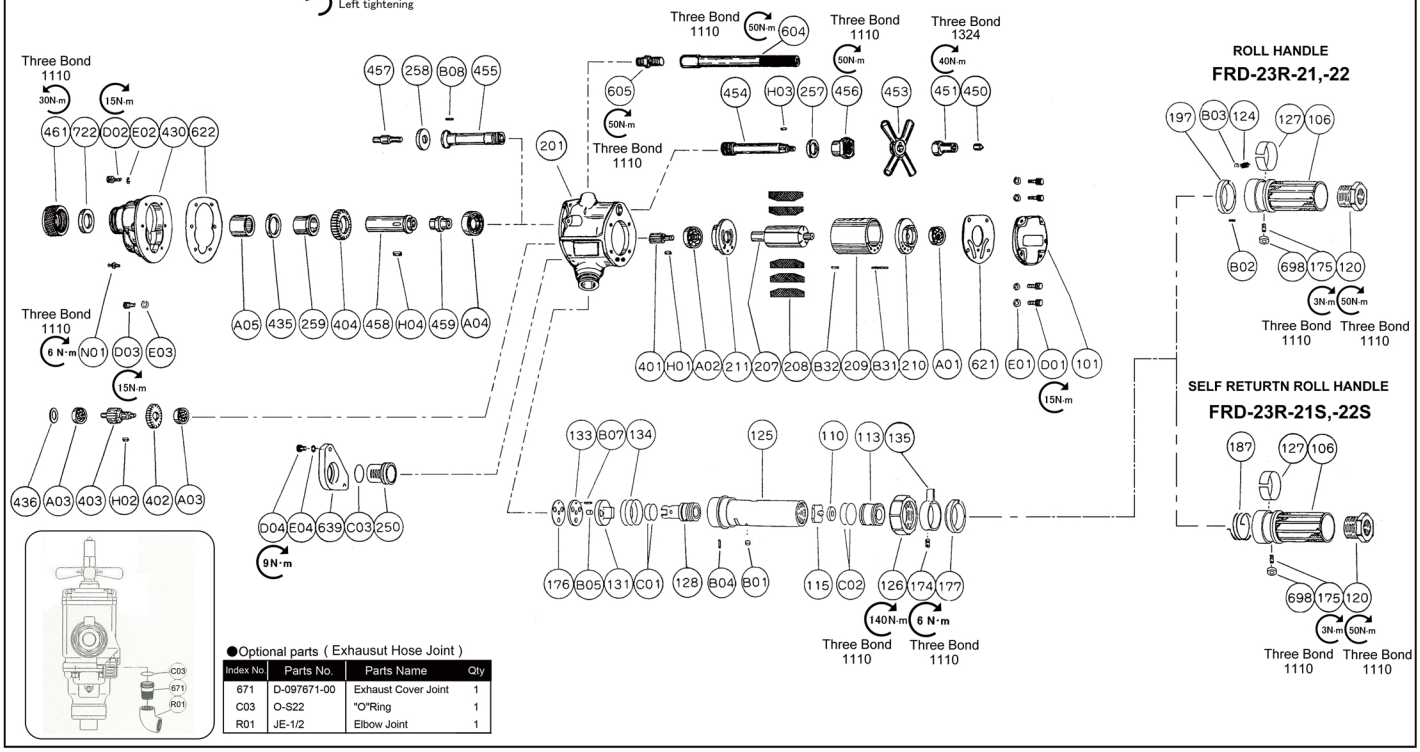
Tel : 81-6-6972-2335
Fax : 81-6-6972-2380

Specifications are subject to change without notice.

MODELS : FRD-23R-21, -21S, -22, -22S

EXPLODED VIEW

Right tightening
Left tightening



●Optional parts (Exhausut Hose Joint)

Index No.	Parts No.	Parts Name	Qty
671	D-097671-00	Exhaust Cover Joint	1
C03	O-S22	"O"Ring	1
R01	JE-1/2	Elbow Joint	1

PARTS LIST

Index No.	Parts No.	Parts Name	Qty
	FRD-23R-21,-22 Roll Handle Type		
—	D-095004-03	Throttle Valve Stem Ass'y < PT >	
—	D-095004-10	Throttle Valve Stem Ass'y < NPT >	
106	M-040106-00	Throttle Valve Handle	1
110	M-040110-00	Throttle Valve	1
113	M-040113-00	Throttle Valve Rod	1
115	M-040115-00	Throttle Valve Sheet	1
120	M-040120-00	Throttle Valve Cover < PT >	1
	M-040120-01	Throttle Valve Cover < NPT >	1
124	G-005124-00	Knock Spring	1
125	M-040125-00	Throttle Valve Stem	1
126	D-095126-00	Throttle Valve Stem Nut	1
127	M-040127-00	Throttle Valve Handle Band	1
128	M-040128-00	Reverse Valve Rod	1
135	D-026135-00	Reverse Valve Lever	1
174	D-026174-00	Small Screw	1
175	M-040175-00	Small Screw (B)	1
177	M-040177-00	Throttle Handle Step	1
197	D-097197-00	Handle Bushing	1
(B02)	SP-28	Spring Pin	1
698	D-026698-00	Guide Roller	1
B01	NR-45	Needle Roller	1
B03	NR-35FR	Needle Roller	1
B04	SP-38	Spring Pin	1
C01	O-11	"O"Ring	2
C02	O-S20	"O"Ring	2
	FRD-23R-21S,-22S Self Return Roll Handle Type		
—	D-095004-04	Throttle Valve Stem Ass'y < PT >	
—	D-095004-08	Throttle Valve Stem Ass'y < NPT >	
106	M-040106-00	Throttle Valve Handle	1
110	M-040110-00	Throttle Valve	1
113	M-040113-00	Throttle Valve Rod	1
115	M-040115-00	Throttle Valve Sheet	1
120	M-040120-00	Throttle Valve Cover < PT >	1
	M-040120-01	Throttle Valve Cover < NPT >	1
125	M-040125-00	Throttle Valve Stem	1
126	D-095126-00	Throttle Valve Stem Nut	1
127	M-040127-00	Throttle Valve Handle Band	1
128	M-040128-00	Reverse Valve Rod	1
135	D-026135-00	Reverse Valve Lever	1
174	D-026174-00	Small Screw	1

Index No.	Parts No.	Parts Name	Qty
175	M-040175-00	Small Screw (B)	1
177	M-040177-00	Throttle Handle Step	1
187	M-040187-00	Throttle Valve Handle Spring	1
698	D-026698-00	Guide Roller	1
B01	NR-45	Needle Roller	1
B04	SP-38	Spring Pin	1
C01	O-11	"O"Ring	2
C02	O-S20	"O"Ring	2
	FRD-23R-21,-21S		
—	D-095006-54	Housing Ass'y	
133	D-008133-02	Reverse Valve Sheet	1
176	D-008176-00	Reverse Valve Sheet Packing	1
201	D-095201-04	Housing	1
B07	SP-38	Spring Pin	1
101	D-095101-00	Housing Cover	1
131	D-008131-01	Reverse Valve	1
134	D-008134-01	Reverse Valve Spring	1
207	D-026207-00	Rotor	1
208	D-026208-00	Rotor Blade	5
209	D-026209-00	Cylinder	1
[B31]	SP-320	Spring Pin	1
[B32]	SP-310	Spring Pin	1
210	D-026210-00	Cylinder Upper Plate	1
211	D-008211-00	Cylinder Lower Plate	1
250	D-097250-00	Exhaust Cover	1
257	D-008257-00	Washer	1
258	D-008258-00	Washer (B)	1
259	D-008259-00	Inner Race (FRD-23R-21,-21S)	1
401	D-026401-00	No.1 Pinion	1
402	D-008402-00	No.1 Gear	1
403	D-009403-00	No.2 Pinion	1
404	D-009404-00	No.2 Gear	1
430	D-008430-A	No.1 Gear Case	1
435	D-034435-00	Thrust Washer	1
436	D-008436-00	Bearing Holder	1
450	D-008450-00	Feed Screw Center	1
451	D-008451-00	Center Holder	1
453	D-008453-00	Feed Screw Handle	1
454	D-008454-00	Feed Screw	1
455	D-008455-00	Feed Sleeve	1
456	D-008456-00	Feed Sleeve Nut	1
457	D-008457-00	Extractor	1
458	D-008458-00	Mt. Socket	1

Index No.	Parts No.	Parts Name	Qty
459	D-008459-00	Socket Arbor	1
461	D-008461-A	Socket Nut	1
604	T-004604-00	Dead Handle	1
605	D-008605-00	Dead Handle Joint	1
621	D-095621-00	Packing (A)	1
622	D-008622-00	Packing (B)	1
639	D-095639-00	Exhaust Cover Holder	1
722	D-008722-00	Leather Packing	1
A01	BB-6202	Ball Bearing	1
A02	BB-6203	Ball Bearing	1
A03	BB-627	Ball Bearing	2
A04	BB-7203	Ball Bearing	1
A05	NB-SC2016	Needle Bearing	1
B05	NR-412	Needle Roller	1
B08	SP-38	Spring Pin	1
C03	O-S22	"O"Ring	1
D01	CS-622	Cap Screw	4
D02	CS-622	Cap Screw	4
D03	CS-616	Cap Screw	2
D04	CS-520	Cap Screw	2
E01	SW-6	Spring Washer	4
E02	SW-6	Spring Washer	4
E03	SW-6	Spring Washer	2
E04	SW-5	Spring Washer	2
H01	K-3311	Key	1
H02	K-338.5	Key	1
H03	K-3.53.511	Key	1
H04	K-4511.5	Key	1
N01	GN-6	Grease Nipple	1
	FRD-23R-22,-22S It is common with FRD-23R-21,-21S excluding the parts below.		
430	D-034430-00	No.1 Gear Case	1
457	D-034457-00	Extractor	1
458	D-034458-00	Mt. Socket	1
459	D-034459-00	Socket Arbor	1
461	D-034461-00	Socket Nut	1
722	D-034722-00	Leather Packing	1
H04	K-4412	Key	1

☐ The related parts are shown in a thick frame.
☐ #197 and #209 are supplied together with parts shown in ( ).
☐ Specify parts number and quantity when ordering.