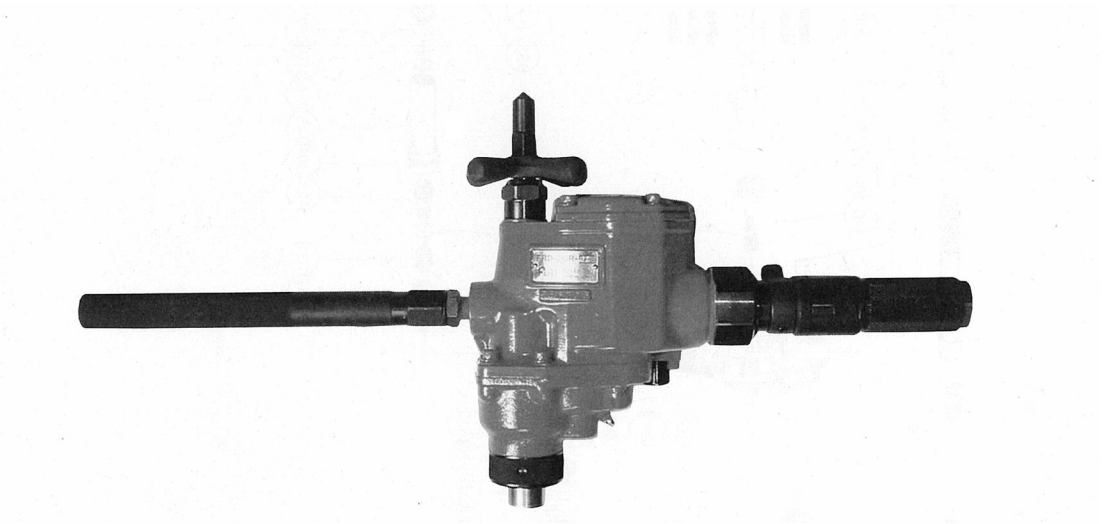
Fuji USER MANUAL

DRILLS

MODELS : FRD-25R, -28R, -32R SERIES



FRD-25R-11,-11S ～ FRD-32R-12,-12S

SPECIFICATIONS

Model	Capacity(Guidance)								Stall Torque			Rotational Frequency	Socket	Side To Center		Feed Length		Overall Length		Mass		Max. Air Consumption	
	Drilling		Reaming		Tapping		Tube Rolling																
	mm	in	mm	in	mm	in	mm	in	N•m	kgf•m	ft•lb	min^{-1}	M.T.#	mm	in	mm	in	mm	in	mm	lb	m^3/min	ft^3/min
FRD-25R-11	25	1	22	7/8	19	3/4	28	1 1/8	147	15	109	530	3	50	2	96	3 13/16	353	13 57/64	14.0	30.9	3.2	113.0
FRD-25R-11S	25	1	22	7/8	19	3/4	28	1 1/8	147	15	109	530	3	50	2	96	3 13/16	353	13 57/64	14.0	30.9	2.6	91.8
FRD-28R-11	28	1 1/8	25	1	22	7/8	32	1 1/4	177	18	130	430	3	50	2	96	3 13/16	353	13 57/64	14.0	30.9	3.2	113.0
FRD-28R-11S	28	1 1/8	25	1	22	7/8	32	1 1/4	177	18	130	430	3	50	2	96	3 13/16	353	13 57/64	14.0	30.9	2.6	91.8
FRD-32R-11	32	1 1/4	25	1	25	1	38	1 1/2	196	20	145	380	3	50	2	96	3 13/16	353	13 57/64	14.5	32.0	3.2	113.0
FRD-32R-11S	32	1 1/4	25	1	25	1	38	1 1/2	196	20	145	380	3	50	2	96	3 13/16	353	13 57/64	14.5	32.0	2.6	91.8
FRD-32R-12	32	1 1/4	25	1	25	1	38	1 1/2	196	20	145	380	4	50	2	96	3 13/16	353	13 57/64	14.5	32.0	3.2	113.0
FRD-32R-12S	32	1 1/4	25	1	25	1	38	1 1/2	196	20	145	380	4	50	2	96	3 13/16	353	13 57/64	14.5	32.0	2.6	91.8

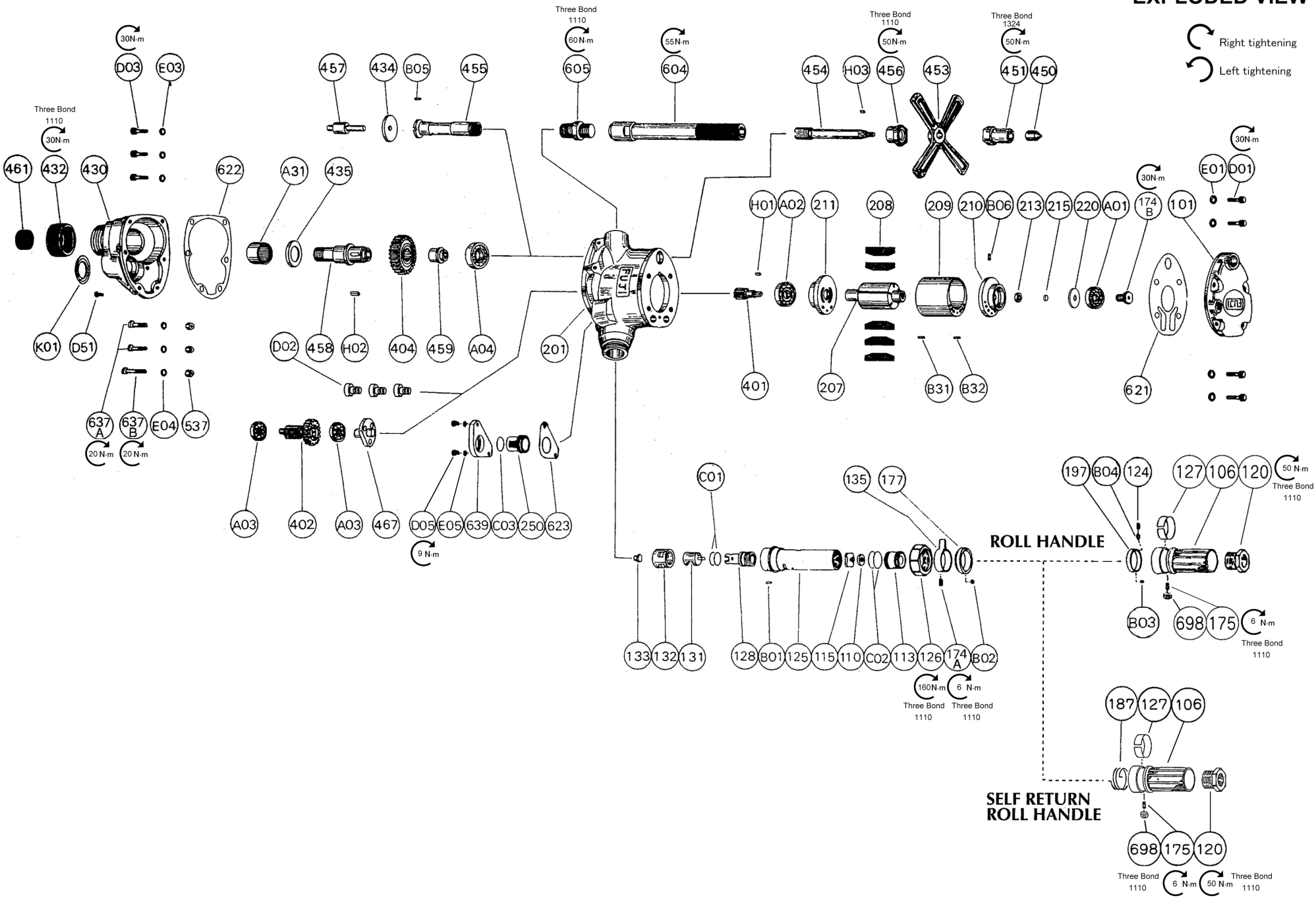
*Air Inlet Thread Size : Rc or NPT 1/2 ".
*Air Hose Size : 19.0mm(3/4").

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

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

Specifications are subject to change without notice.

EXPLODED VIEW



PARTS LIST

Index No.	Parts No.	Part Name	Qty
Roll Handle Type			
FRD-25R-11 & FRD-28R-11 & FRD-32R-11,-12			
—	D-096004-00	Throttle Valve Stem Ass'y	
106	D-029106-03	Throttle Valve Handle	1
110	D-029110-01	Throttle Valve	1
113	D-029113-01	Throttle Valve Rod	1
115	D-029115-01	Throttle Valve Sheet	1
120	D-029120-03	Throttle Valve Cover <Rc>	1
124	G-005124-00	Knock Spring	1
125	D-015125-03	Throttle Valve Stem	1
126	D-015126-00	T. V. Stem Nut	1
127	D-029127-00	T. V. Handle Band	1
128	D-015128-01	Reverse Valve Rod	1
135	D-029135-01	Reverse Valve Lever	1
174A	D-029174-01	Small Screw	1
175	D-029175-01	Small Screw (B)	1
177	D-029177-03	Throttle Handle Step	1
197	D-098197-00	Handle Bushing	1
698	D-029698-00	Guide Roller	1
B01	SP-310	Spring Pin	1
B02	NR-56	Needle Roller	1
B03	SP-28	Spring Pin	1
B04	NR-35FR	Needle Roller	1
C01	O-14	"O"Ring	2
C02	O-S24	"O"Ring	2
Self Return Roll Handle Type			
FRD-25R-11S & FRD-28R-11S & FRD-32R-11S,-12S			
—	D-096004-01	Throttle Valve Stem Ass'y <Rc>	
—	D-096004-07	Throttle Valve Stem Ass'y <NPT>	
106	D-029106-03	Throttle Valve Handle	1
110	D-029110-01	Throttle Valve	1
113	D-029113-01	Throttle Valve Rod	1
115	D-029115-01	Throttle Valve Sheet	1
120	D-029120-03	T. V. Cover <Rc>	1
	D-029120-04	T. V. Cover <NPT>	1
125	D-015125-03	Throttle Valve Stem	1
126	D-015126-00	T. V. Stem Nut	1
127	D-029127-00	T. V. Handle Band	1
128	D-015128-01	Reverse Valve Rod	1
135	D-029135-01	Reverse Valve Lever	1
174A	D-029174-01	Small Screw	1
175	D-029175-01	Small Screw (B)	1
177	D-029177-03	Throttle Handle Step	1
187	D-029187-00	T. V. Handle Spring	1
698	D-029698-00	Guide Roller	1
B01	SP-310	Spring Pin	1
B02	NR-56	Needle Roller	1
C01	O-14	"O"Ring	2
C02	O-S24	"O"Ring	2

Index No.	Parts No.	Part Name	Qty
FRD-25R-11,-11S			
101	D-096101-00	Housing Cover	1
131	D-015131-00	Reverse Valve	1
132	D-096132-00	Reverse Valve Bushing	1
133	D-029133-00	Reverse Valve Sheet	1
174B	D-015174-00	Small Screw	1
201	D-096201-07	Housing (FRD-25R-11)	1
	D-096201-08	Housing (FRD-25R-11S)	1
207	D-015207-00	Rotor	1
208	D-015208-00	Rotor Blade	5
209	D-015209-00	Cylinder	1
(B31)	SP-514	Spring Pin	1
(B32)	SP-514	Spring Pin	1
210	D-015210-00	Cylinder Upper Plate	1
(B06)	SP-48	Spring Pin	1
211	D-015211-00	Cylinder Lower Plate	1
213	D-015213-00	Adjusting Collar	1
215	A-150215-00	Adjusting Washer(B) (T=0.03)	(1)
	A-150215-01	Adjusting Washer(B) (T=0.05)	(1)
220	A-150220-00	Adjusting Washer(C) (T=0.03)	(1)
250	D-098250-00	Exhaust Cover	1
401	D-015401-00	No.1 Pinion	1
402	D-016402-00	No.1 Gear	1
404	D-016404-00	No.2 Gear	1
430	D-015430-00	No.1 Gear Case	1
432	D-015432-00	Gear Case Cover	1
434	D-015434-00	Bearing Washer	1
435	D-015435-00	Thrust Washer	1
450	D-008450-00	Feed Screw Center	1
451	D-015451-00	Center Holder	1
453	D-015453-00	Feed Screw Handle	1
454	D-015454-00	Feed Screw	1
455	D-015455-00	Feed Sleeve	1
456	D-015456-00	Feed Sleeve Nut	1
457	D-015457-00	Extractor	1
458	D-015458-00	MT. Socket	1
459	D-015459-00	Socket Arbor	1
461	D-015461-00	Socket Nut	1
467	D-096467-00	No.1 Gear Spindle	1
537	W-014537-00	Hexagon Nut	3
604	D-015604-00	Dead Handle	1
605	D-015605-00	Dead Handle Joint	1
621	D-096621-00	Packing (A)	1
622	D-015622-00	Packing (B)	1
623	D-096623-00	Packing (C)	1
637A	W-057637-00	Half-Cut Head Bolt	2
637B	D-015637-00	Half-Cut Head Bolt	1
639	D-096639-00	Exhaust Cover Holder	1
A01	BB-6204	Ball Bearing	1

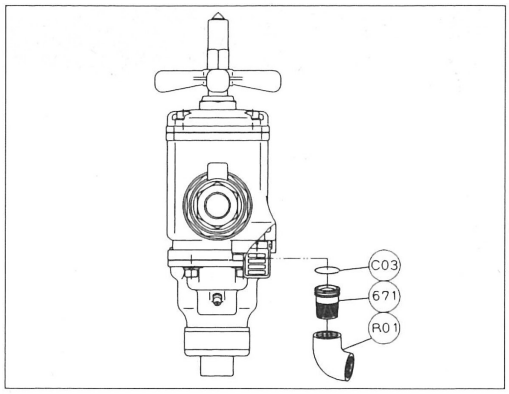
Index No.	Parts No.	Part Name	Qty
A02	BB-6204	Ball Bearing	1
A03	BB-6203	Ball Bearing	2
A04	BB-7205	Ball Bearing	1
A31	NB-HMK4030	Needle Bearing	1
B05	SP-410	Spring Pin	1
C03	O-P25	"O"Ring	1
D01	CS-825	Cap Screw	4
D02	CS-510	Cap Screw	3
D03	CS-830	Cap Screw	3
D05	CS-520	Cap Screw	2
D51	S-610RS	Screw	1
E01	SW-8	Spring Washer	4
E03	SW-8	Spring Washer	3
E04	SW-8	Spring Washer	3
E05	SW-5	Spring Washer	2
H01	K-4415	Key	1
H02	K-7523	Key	1
H03	K-4412	Key	1
K01	OS-ZF8	Oil Seal	1

It is common with FRD-25R-11,-11S excluding the parts below.			
FRD-28R-11,-11S			
201	D-096201-09	Housing (FRD-28R-11)	1
	D-096201-10	Housing (FRD-28R-11S)	1
402	D-015402-00	No.1 Gear	1
404	D-015404-00	No.2 Gear	1
FRD-32R-11,-11S			
201	D-096201-02	Housing(FRD-32R-11)	1
	D-096201-11	Housing(FRD-32R-11S)	1
402	D-015402-01	No.1 Gear	1
404	D-015404-01	No.2 Gear	1
FRD-32R-12,-12S			
201	D-096201-12	Housing (FRD-32R-12)	1
	D-096201-13	Housing (FRD-32R-12S)	1
402	D-015402-01	No.1 Gear	1
404	D-015404-01	No.2 Gear	1
430	D-015430-01	No.1 Gear Case	1
432	D-015432-04	Gear Case Cover	1
435	D-015435-04	Thrust Washer	1
458	D-015458-04	MT.Socket	1
461	D-015461-04	Socket Nut	1
A31	NB-HMK4530	Needle Bearing	1
K01	OS-ZF10	Oil Seal	1

☐ The related parts are shown in a thick frame.

☐ #209 and #210 are supplied together with parts shown in ( ).

☐ Specify parts number and quantity when ordering.



● Optional parts (Exhaust Pipe Joint)

Index No.	Parts No.	Part Name	Qty
671	D-091671-00	Exhaust Cover Joint	1
C03	O-P25	"O"Ring	1
R01	JE-3/4	Elbow Joint	1

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