



USER MANUAL

F1-SHUT WRENCH

MODELS : FET-999-1



FET-999-1



FET-999-1 BACK
LCD DISPLAY

SPECIFICATIONS

Model	Capacity Screw Size (Guidance)		Adjustable Torque Range			Free Speed	Side to Center		Square Drive Size		Overall Length		Mass		Air Consumption (Under Load)		Air Inlet Thread Size		Air Hose Size	
	mm	in	N·m	kgf·m	ft·lb		min ⁻¹	mm	in	mm	in	mm	in	kg	lb	Nm ³ /min	lit ³ /min	in	mm	in
FET-999-1	10	3/8	64~113	6.5~11.5	48~84	4,800	29.5	1 1/4	12.7	1/2	220	8 43/64	2.4	5.3	0.6	21.2	PT or NPT 1/4	9.5	3/8	

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

※This model is equipped with the LCD operation panel for programming on the head cover of the tool.

※This model is required to be used with the related peripheral equipment shown in the FET system list.

Please contact your nearest sales company for the information of the optional equipment and the FV-NET communication system.

*Never give any shock to the FET tool and the interface.

*Never place the tool and the interface near the magnetic field.



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

PARTS LIST MODEL: FET-999-1

Index No.	Parts No.	Parts Name	Qt.	Index No.	Parts No.	Parts Name	Qt.	Index No.	Parts No.	Parts Name	Qt.
FET-999-1											
CP No.	W-301006-00	Housing C.P.		643	W-300643-00	Stop Valve Spring	1	C20	BR-S2.5FT2	Back Up Ring	2
121	W-254121-00	Trigger	1	644	W-300644-00	Stop Valve Bushing	1	C21	O-S5(H)	"O" Ring	1
131	W-282131-01	Reverse Valve	1	712A	W-300712-00	Damper	1	C22	O-S38(H)	"O" Ring	1
135	W-283135-00	Reverse Valve Lever	1	753	W-301753-00	Piston Rod	1	C23	O-KX16(H)	"X" Ring	1
171	W-282171-00	Inlet Joint (PT)	1	777	W-300777-00	Collar	1	C24	BR-115	Back Up Ring	1
171	W-282171-01	Inlet Joint (NPT)	1	C10	O-S12	"O" Ring	1	C25	O-S2.5F(H)	"O" Ring	1
237	W-282237-00	Muffler Pad	1	C11	O-S14	"O" Ring	1	CP	W-301033-00	Front Case C.P.	
250	W-282250-01	Exhaust Cover	1	C12	O-S16	"O" Ring	1	593	W-301593-00	Front Case	1
541A	W-252541-00	Button Retainer Spring (F)	1	C13	O-X008	"X" Ring	1	A01	NB-NK16/16	Needle Bearing	1
B01	SP-225	Spring Pin	1	C14	O-P5	"O" Ring	1	L01	PL-1/8	Plug	1
B02	GP-226GLC	Grooved Pin	1	C15	O-X012A	"X" Ring	1	139	W-300139-00	Housing Cover (B)	1
C01	O-S48	"O" Ring	1	D03	CS-440	Cap Screw	4	207	W-301207-00	Rotor	1
C02	O-S48	"O" Ring	1	E01	SW-4	Spring Washer	4	208	W-281208-00	Rotor Blade	9
C03	O-S20	"O" Ring	1	Z03	JAS-0001	Solenoid Valve	1	209	W-281209-00	Cylinder	1
C04	O-S10	"O" Ring	1	Z04	WAN-0004	Pressure Sensor	1	(B06)	SP-2.56	Spring Pin	1
C05	O-S20	"O" Ring	1	CP No.	W-301021-00	Oil Cylinder C.P (BF)		210	W-281210-00	Cylinder Upper Plate	1
D01	CS-36S	Cap Screw	2	226	W-281226-00	Oil Plug	1	(B07)	SP-1.56	Spring Pin	1
J01	B-3	Ball	1	308	W-281308-00	Spacer	1	211	W-281211-00	Cylinder Lower Plate	1
CP No.	W-301043-00	Housing Hernes C.P.		385	W-281385-00	Adjusting Screw	1	214	M-547214-00	Adjusting Washer	1
117	D-001117-00	Throttle Valve Spring	1	438	W-301438-01	Spindle (B) <i>281438-03</i>	1	273	W-301273-00	Cover	1
201	W-301042-00	Housing	1	541B	W-224541-00	Button Retainer Spring (F)	1	372	W-300372-00	Plastic Cover	1
204	W-300204-00	Housing Lower Cover	1	551B	W-224551-00	Plug	1	435	W-301435-00	Thrust Washer	1
557	W-282557-01	Protector	1	583	W-224583-00	Retainer Button (F)	1	621	W-301621-00	Packing (A)	1
C06	O-S14	"O" Ring	1	587	W-281587-00	Oil Cylinder	1	622	W-281622-00	Packing (B)	1
D02	CS-325	Cap Screw	2	588	W-301588-00	Oil Cylinder Upper Plate	1	651	W-181651-00	Horizontal Hanger	1
Z01	YZZ-0001	Cable Protector	1	589	W-281589-00	Oil Cylinder Lower Plate	1	712B	W-300712-01	Damper	1
Z02	FET-005-1	Cable	1	590A	W-281590-00	Spindle Blade	1	A02	BB-6900	Ball Bearing	1
CP No.	W-300045-00	Reverse Valve Bushing C.P.		590B	W-281590-01	Spindle Blade	1	A03	BB-6001	Ball Bearing	1
110	W-283110-00	Throttle Valve	1	591	W-281591-00	Blade Spring	2	D04	CS-36B	Cap Screw	4
113	W-282113-01	Throttle Valve Rod	1	592	W-301592-00	Cylinder Case	1	D05	CS-320	Cap Screw	4
132	W-282132-01	Reverse Valve Bushing	1	711	W-281711-00	Cylinder Cover	1	D06	CS-36B	Cap Screw	4
C07	O-S17	"O" Ring	1	720	W-300720-00	Piston	1	D07	CS-516	Cap Screw	4
C08	O-S4	"O" Ring	1	757	W-223757-00	Needle	1	E02	WW-16	Wave Washer	1
C09	O-P5	"O" Ring	1	B03	NR-3.057	Needle Roller	2	E03	PW-5K	Plain Washer	4
CP No.	W-301001-00	Housing Cover C.P.		B04	NR-3.057	Needle Roller	2	Z05	NP-1078	Name Plate	1
101	W-301101-00	Housing Cover	1	B05	GP-36G	Grooved Pin	2	Z06	NPN-0×3.2	Screw Rivet	2
551A	W-300551-00	Plug	1	C16	O-S40(H)	"O" Ring	1	Z07	PCA-0002	PC Board (LCD)	1
640	W-300640-00	Stop Valve	1	C17	O-S2.5F(H)	"O" Ring	1	Z08	SGD-0001	Seet Switch	1
642	W-300642-00	Stop Valve Rear Cover	1	C18	BR-S2.5FT2	Back Up Ring	1	Z09	PCA-0005-4.0	Main CPU Board	1
				C19	O-S2F(H)	"O" Ring	2				

- CP No. denotes the assembled parts comprising of more than 1 pc. of parts. The related parts are shown in the thick frame.
- #209, 210 and 438 are supplied together with parts shown in ().
- Specify parts number and quantity in ordering.

- Standard Accessories : F-712-12mm Hex. Pin Wrench 1.
- F-7055mm Hex. Pin Wrench 1.
- FET-007-1.....Inlet Hose 1.
- *5m and 10m inlet hoses are also available.

FET SERIES STANDARD ACCESSORIES

(Included in complete KIT)

MODEL	DESCRIPTION	SIZE	UNIT
FET-001-1	INTERFACE	—	1
FET-003-1	SENSOR CABLE	3m	1
FET-007-1	INLET HOSE (PT)	0.8m	1
FET-007-1N	INLET HOSE (NPT)	0.8m	1
F-712-1	HEX. PIN WRENCH	2mm	1
F-705	HEX. PIN WRENCH	5mm	1
E-032070-00	ADAPTOR C.P	—	1
ECO-AC100-2	POWER CABLE	2m	1

*5m and 10m inlet hoses are also available.

OPTIONAL ACCESSORIES

MODEL	DESCRIPTION	SIZE	UNIT
JN-1/2(B)	HOSE NIPPLE	1/2"	1
AR4000-1/2	AIR REGULATOR	1/2"	1
FET-004-1	PC BOARD & FLOPPY (BASIC SOFTWARE PROGRAM)	—	1
FET-004-1-2	PC BOARD & FLOPPY (DATA LOAD SYSTEM)	—	1
FET-004-2-2	PC BOARD & FLOPPY (FV-NET NETWORK SYSTEM)	—	1
FET-005-20	FV-NET CABLE	20m	1
FET-008-1	PRINTER INTERFACE	—	1

*The different lengths of FV-NET cables are available besides 20m shown in the above. 50m, 100m and 200m cables are suppliable. Please order like FET-006-50, -100 & -200.

*The Printer interface is prepared for hard-copy recording. Please ask us about the further information.

STANDARD ACCESSORIES



INLET HOSE
FET-007-1



INTERFACE
FET-001-1



SENSOR CABLE
FET-003-1

OPTIONAL ACCESSORIES



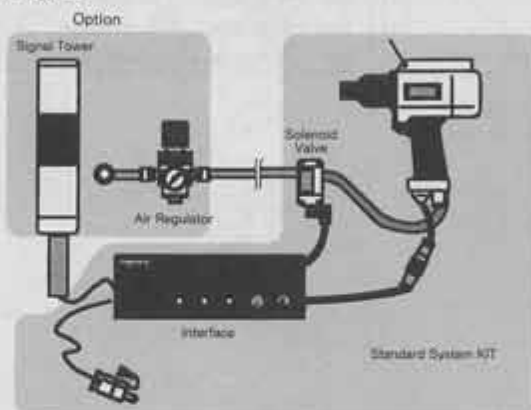
PC BOARD
FET-004-1



PRINTER
INTERFACE
FET-008-1

FET SYSTEM IN OPERATION

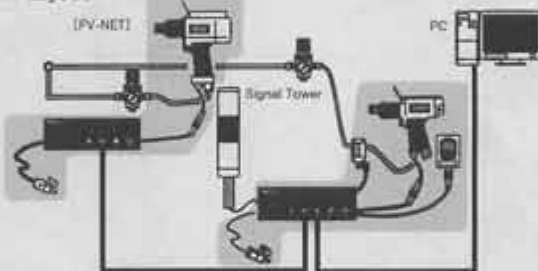
System Layout



FV-NET SYSTEM (OPTION)

*It is our FV-NET communication system that makes the best use of the features of FET series. This high-speed communication system can control numbers of tools up to 20 sets at a real time within a distance of 1 kilometer, by utilizing one personal computer with our unique protocol.

System Layout



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