

Katalog náhradních dílů
Spare parts book

GARUDAN[®]

**GF-130-443 H, GF-130-446 H, GF-130-447 H
GF-230-443MH, GF-230-446MH, GF-230-447MH**



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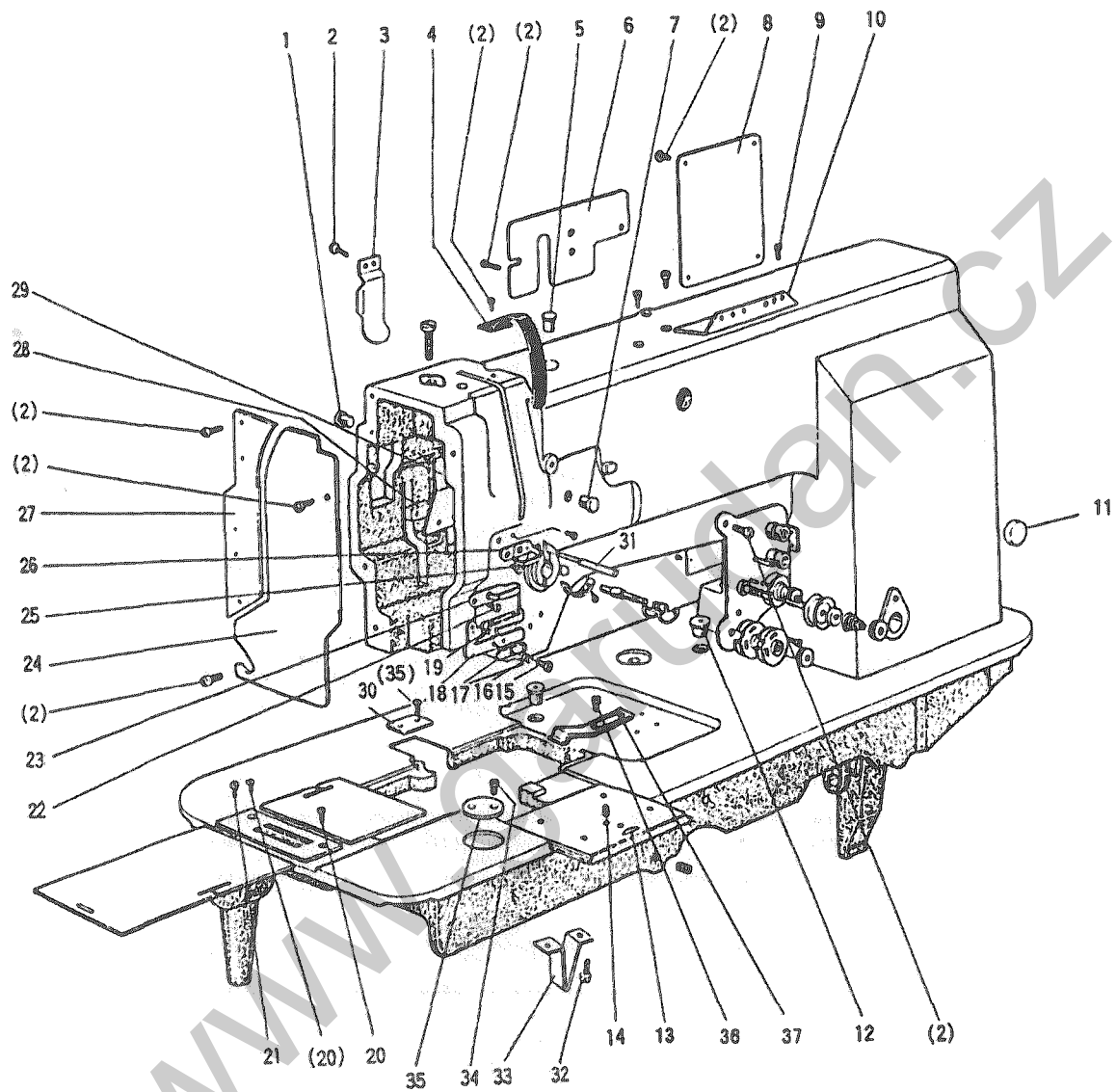
SPECIFIKACE

MODEL		GF-130-443 H	GF-230-443 MH	GF-130-446(7) H	GF-230-446(7) MH
Počet jehel		1	2	1	2
Použití		Silné materiály			
Rychlost šití		Maximálně 2000 ot./min.			
Délka stehu		0 až 9 mm			
Zdvih patky		8 mm (ručně) / 16 mm (kolenní pákou)			
Krok patky		2 až 6 mm			
Jehla		135x17 (140)			
Chapač		Vertikálně uložený velkopřůměrový			
Mazání		Centrální			
Motor		Spojkový 370W		Servomotor 550W	
Rozpich jehel	Standard	6,4mm			
	Ostatní	3,2mm 4mm 4,8mm 8mm 9,5mm 12,7mm 16mm 19mm 25,4mm			

SPECIFICATION

MODEL		GF-130-443 H	GF-230-443 MH	GF-130-446(7) H	GF-230-446(7) MH
No of needles		1	2	1	2
Use		Heavy material			
Sewing speed		2000 rpm			
Stitch lenght		0 ~ 9 mm			
Foot height		8 mm (by hand) / 16 mm (by knee)			
Step of foot		2 ~ 6 mm			
Needle system		135x17 (140)			
Hook		Vertical large (1,6x)			
Oiling		Central			
Motor		Clutch 370W		Servomotor 550W	
Needle gauge	Standard	6,4mm			
	Option	3,2mm 4mm 4,8mm 8mm 9,5mm 12,7mm 16mm 19mm 25,4mm			

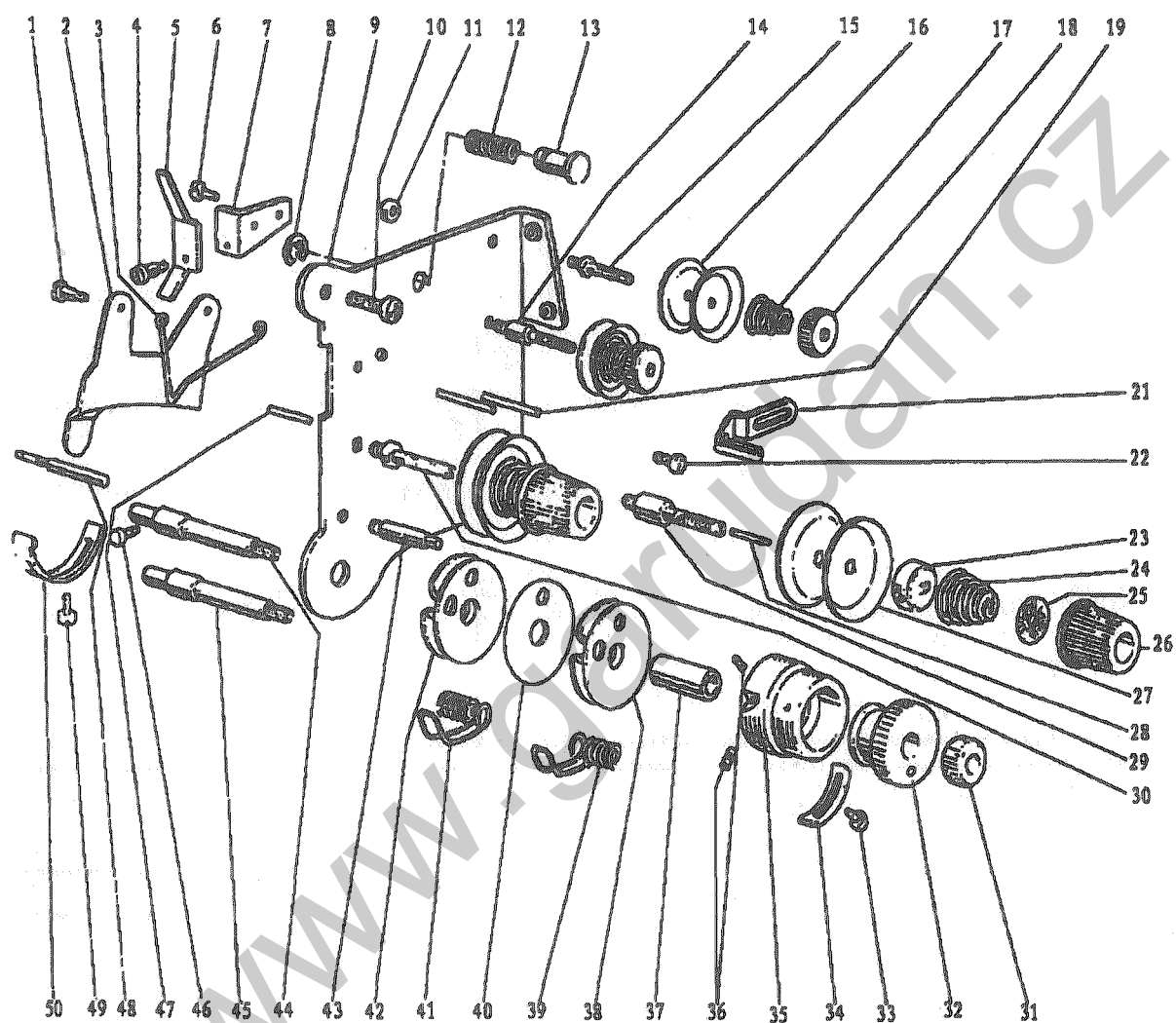
A. ARM BED AND ITS ACCESSORIES



A.ARM BED AND ITS ACCESSORIES

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
A01	HA300B2090	Rubber plug	2	2	2	2	SM11/64 (40) ×8
A02	HA300B2170	Screw	15	15	15	15	
A03	H4716B8001	Oil guard plate	1	1	1	1	
A04	H4717B8001	Thread take-up cover	1	1	1	1	
A05	H4715B8001	Rubber plug	1	1	1	1	Φ13
A06	H4718B8001	Side cover (left)	1	1	1	1	Φ13
A07	H2000B2010	Rubber plug	1	1	1	1	
A08	H4919B8001	Side cover (right)			1	1	
A08	H4719B8001	Side cover (right)	1	1			
A09	HA700B2060	Screw	2	2	2	2	SM11/64 (40) ×8
A10	H2400B2100	Thread guide	1	1	1	1	SM13/64 (32) ×4.8
A11	HA307B0673	Rubber plug	1	1	1	1	
A12	H2000M0080	Cap	2	2	2	2	
A13	H3219B0067	Slide plate complete		1		1	
A14	H3200B2170	Screw		1		1	SM1/8 (44) ×3
A15	H4722B8001	Screw	1	1	1	1	SM9/64 (40) ×6.5
A16	H4723B8001	Spring	1	1	1	1	
A17	H4724B8001	Plate	1	1	1	1	
A18	H4725B8001	Thread guide	1	1	1	1	
A19	H3200B2100	Screw	1	1	1	1	SM11/64 (40) ×8
A20	HA300B2190	Screw	2	1	2	1	SM9/64 (36) ×6.5
A21	H3200B2120	Screw		1		1	SM9/64 (40) ×6.5
A22	H3000D2160	Screw	1	1	1	1	SM3/16 (28) ×11
A23	H4726B8001	Thread guide (middle)	1	1	1	1	
A24	H4727B8001	Face plate	1	1	1	1	
A25	H2400B2080	Screw	2	2	2	2	
A26	H2400B2070	Thread guide (upper)	1	1	1	1	SM1/4 (24) ×9
A27	H4730B8001	Guide mounting plate	1	1	1	1	
A28	H2400B2060	Plate for oil guard	1	1	1	1	
A29	H3200B2060	Oil guard	1	1	1	1	
A30	H4911B8001	Cover				1	SM9/64 (40) ×6
A30	H5015B8001	Cover			1		
A31	H4916B8001	Tension releasing pin			1	1	
A31	H4769E8001	Tension releasing pin	1	1			
A32	H4912B8001	Screw			2	2	SM11/64 (40) ×6
A33	H4913B8001	Supporter			1	1	
A34	H4914B8001	Screw			2	4	
A35	H4915B8001	Cover				1	
A36	H4742E8001	Screw	2		2		SM11/64 (40) ×6
A37	H4751B8001	Tension releasing plate	1		1		

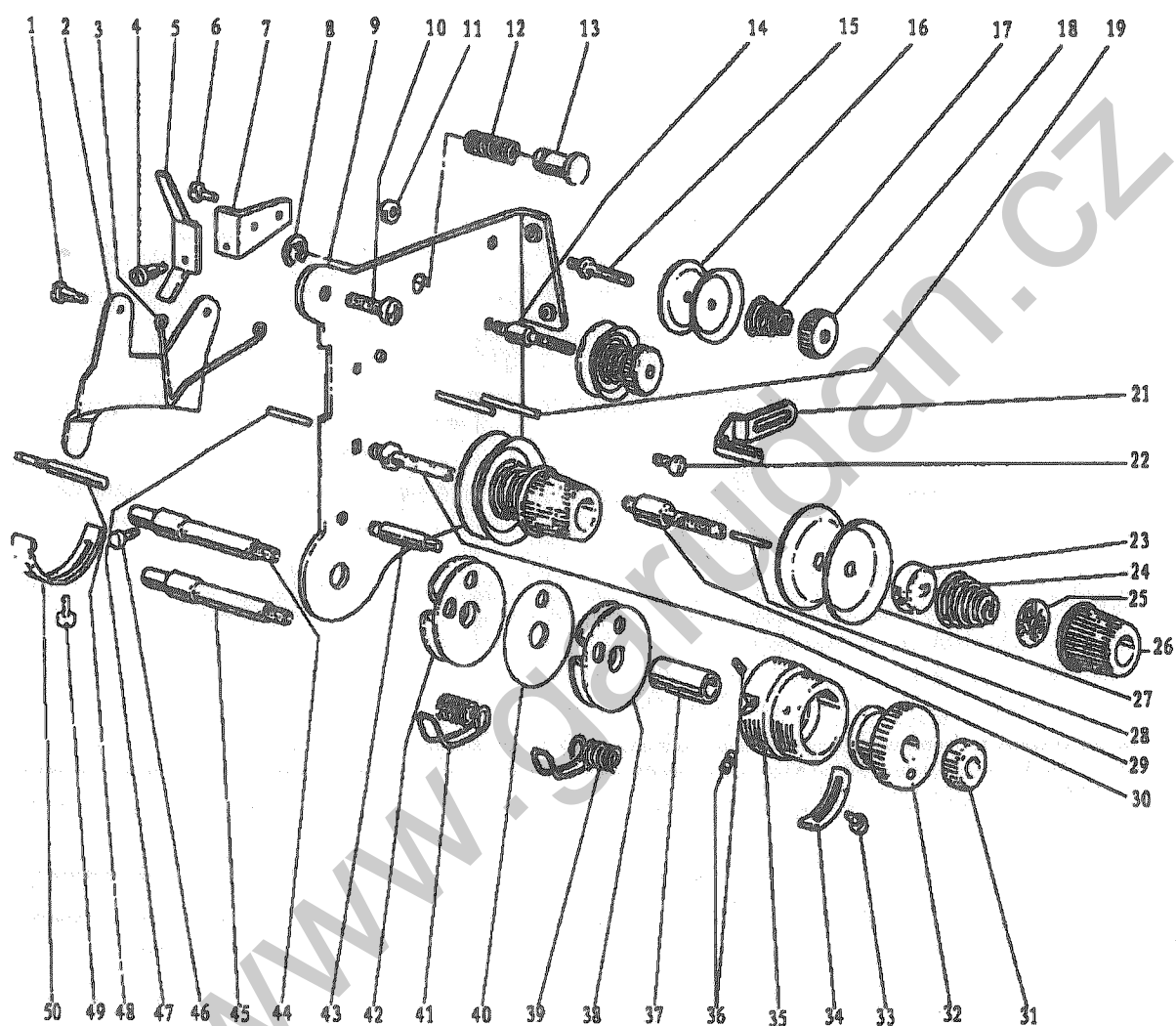
B. THREAD TENSION REGULATOR MECHANISM



B.THREAD TENSION REGULATOR MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
B01	H3221B6811	Screw	2	2	2	2	SM9/64 (40) ×3
B02	H3221B3142	Tension releasing plate	1	1	1	1	
B03	H3221B6812	Tension releasing spring	1	1	1	1	
B04	H4705C8001	Screw	1	1	1	1	SM9/64 (40) ×4.2
B05	H4706C8001	Lever	1	1	1	1	
B06	HA7311C306	Screw	1	1	1	1	
B07	H4707C8001	Mounting plate	1	1	1	1	SM9/64 (40) ×4.5
B08	H007013050	Stop ring	1	1	1	1	
B09	H3221B6820	Mounting plate	1	1	1	1	
B10	HA300C2030	Screw	2	2	2	2	GB/T896 5
B11	H3221B6810	Nut	1	1	1	1	
B12	H4708C8001	Spring	1	1	1	1	
B13	H4709C8001	Push button	1	1	1	1	SM11/64 (40)
B14	H3221B0685	Thread tension stud		1		1	
B15	H3221B0683	Thread tension stud	1	1	1	1	
B16	HA112B0693	Thread tension disk	2	4	2	4	
B17	H3221B0684	Thread tension spring	1	2	1	2	
B18	HA710B0671	Thumb nut	1	2	1	2	
B19	H3221B0682	Pin	2	3	2	3	
B21	H3306B0661	Thread guide	1	1	1	1	
B22	HA106B0676	Screw	1	1	1	1	
B23	HA310B0702	Thread tension releasing plate	1	2	1	2	SM9/64 (40) ×6
B24	H4710C8001	Thread tension spring	1	2	1	2	
B25	HA115B7010	Thumb nut revolution stopper	1	2	1	2	
B26	HA310B0701	Thumb nut complete	1	2	1	2	
B27	HA310B0705	Thread tension disk	2	4	2	4	
B28	H3221B6816	Pin		1		1	
B29	H3221B0689	Thread tension stud		1		1	SM1/4 (40)
B30	H3221B0686	Thread tension stud	1	1	1	1	
B31	H32481B721	Thumb nut	1	1	1	1	
B32	H32481B621	Take-up spring guide		1		1	SM9/64 (40) ×6
B33	H32481BC21	Screw		1		1	
B34	H32481BB21	Stopper		1		1	
B35	H32481B921	Thread tension post		1		1	SM1/8 (44) ×3.9
B36	H32481B521	Screw		2		2	
B37	H32481B821	Bushing		1		1	
B38	H32481BF21	Plate complete		1		1	
B39	H4712C8001	Thread take-up spring		1		1	
B40	H32481BE21	Plate		1		1	
B41	H4713C8001	Thread take-up spring	1	1	1	1	
B42	H32481BD21	Plate complete	1	1	1	1	
B43	H4804C8001	Screw	1		1		
B43	H32481B421	Thread tension stud		1		1	SM9/64 (40) ×2.9

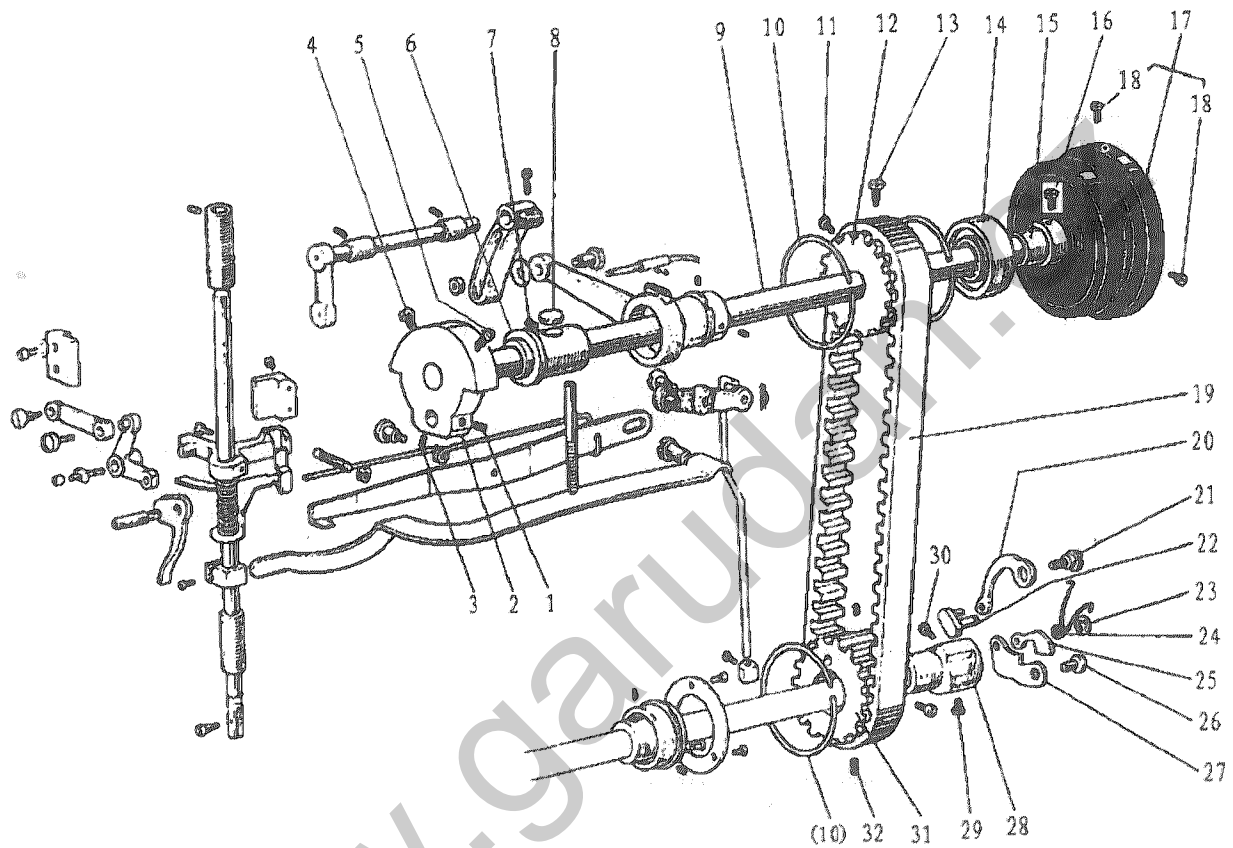
B. THREAD TENSION REGULATOR MECHANISM



B.THREAD TENSION REGULATOR MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
B44	H32481B121	Thread tension stud		1		1	SM11/64 (40) ×10
B45	H4805C8001	Thread tension stud	1		1		
B46	H3230K0751	Screw	1	1	1	1	
B47	H3221B6817	Pin	1	1	1	1	
B48	H3221B6818	Tension releasing pin	1	1			SM9/64 (40) ×6.5
B48	H4916B8001	Tension releasing pin			1	1	
B49	H3200B2100	Screw	1	1	1	1	
B50	H3221B6819	Stopper	1	1	1	1	

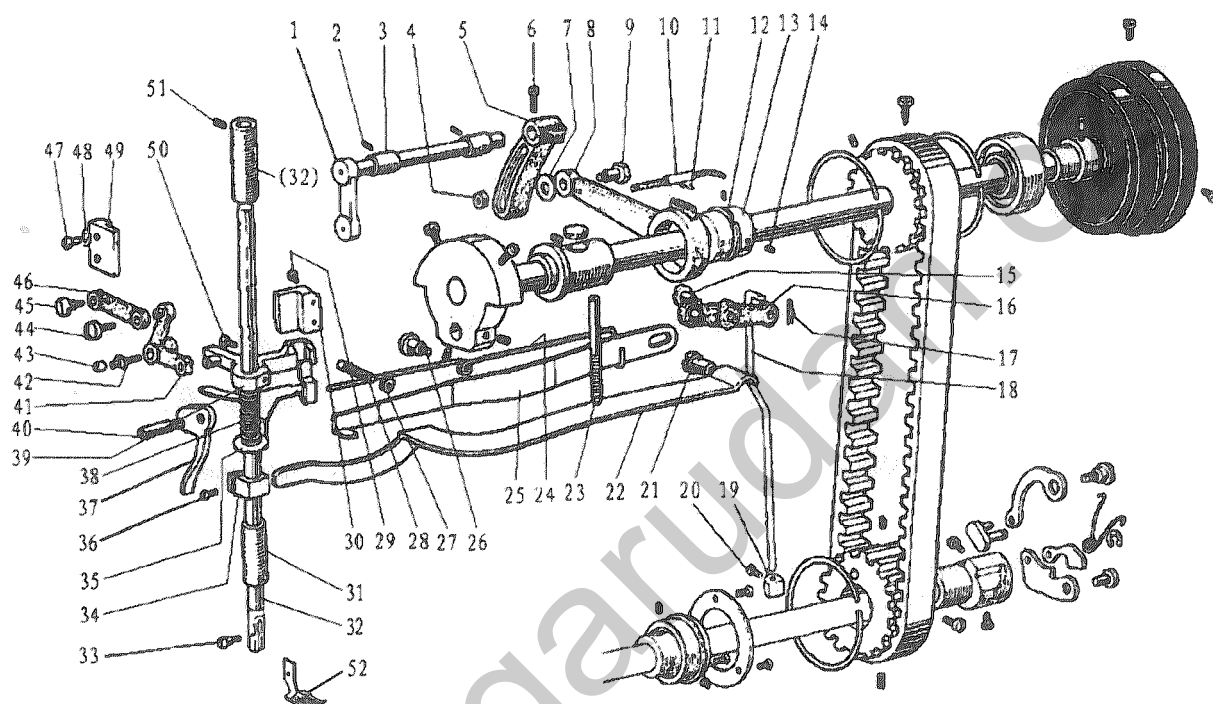
C. ARM SHAFT MECHANISM



C.ARM SHAFT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
C01	HA307C0662	Set screw	1	1	1	1	SM1/4 (40) ×7
C02	H4706D8001	Crank	1	1	1	1	
C03	HA105D0662	Screw	1	1	1	1	SM1/4 (40) ×3.5
C04	HA100C2060	Set screw	1	1	1	1	SM9/32 (28) ×14
C05	HA100C2070	Screw	1	1	1	1	SM9/32 (28) ×13
C06	H32111B204	Arm shaft bushing (left)	1	1	1	1	
C07	H4708D8001	Screw	1	1	1	1	SM1/4 (24) ×13
C08	H32111B104	Felt	1	1	1	1	
C09	H4709D8001	Arm shaft	1	1	1	1	
C10	H3205C0661	Spring flange	3	3	3	3	
C11	HA113F0684	Screw	1	1	1	1	SM15/64 (28) ×8.5
C12	H3205C1021	Belt pulley (upper)	1	1	1	1	
C13	HA100F2130	Screw	1	1	1	1	SM15/64 (28) ×14.5
C14	H3205J0662	Bearing	1	1			
C15	H3205J0661	Collar	1	1			
C16	HA113F0684	Screw	2	2			SM15/64 (28) ×8.5
C17	H4711D8001	Pulley	1	1			
C18	HA110D0672	Screw	2	2			SM11/64 (28) ×12
C19	H3200C2030	Cog belt	1	1	1	1	
C20	H4713D8001	Spring plate	1	1	1	1	
C21	H4714D8001	Pin	1	1	1	1	
C22	H4715D8001	Link	1	1	1	1	
C23	H007013025	E-type stop ring	1	1	1	1	GB/T896 2.5
C24	H4716D8001	Twist spring	1	1	1	1	
C25	H4717D8001	Plate	1	1	1	1	
C26	H4718D8001	Pin	1	1	1	1	
C27	H4719D8001	Plate	1	1	1	1	
C28	H4720D8001	Bushing	1	1	1	1	
C29	H4721D8001	Screw	1	1	1	1	SM15/64(28)×10.5
C30	HA104F0654	Screw	1	1	1	1	SM15/64 (28) ×10
C31	H4722D8001	Belt pulley (lower)	1	1	1	1	
C32	H4723D8001	Screw	2	2	2	2	SM15/64 (28) ×4.5

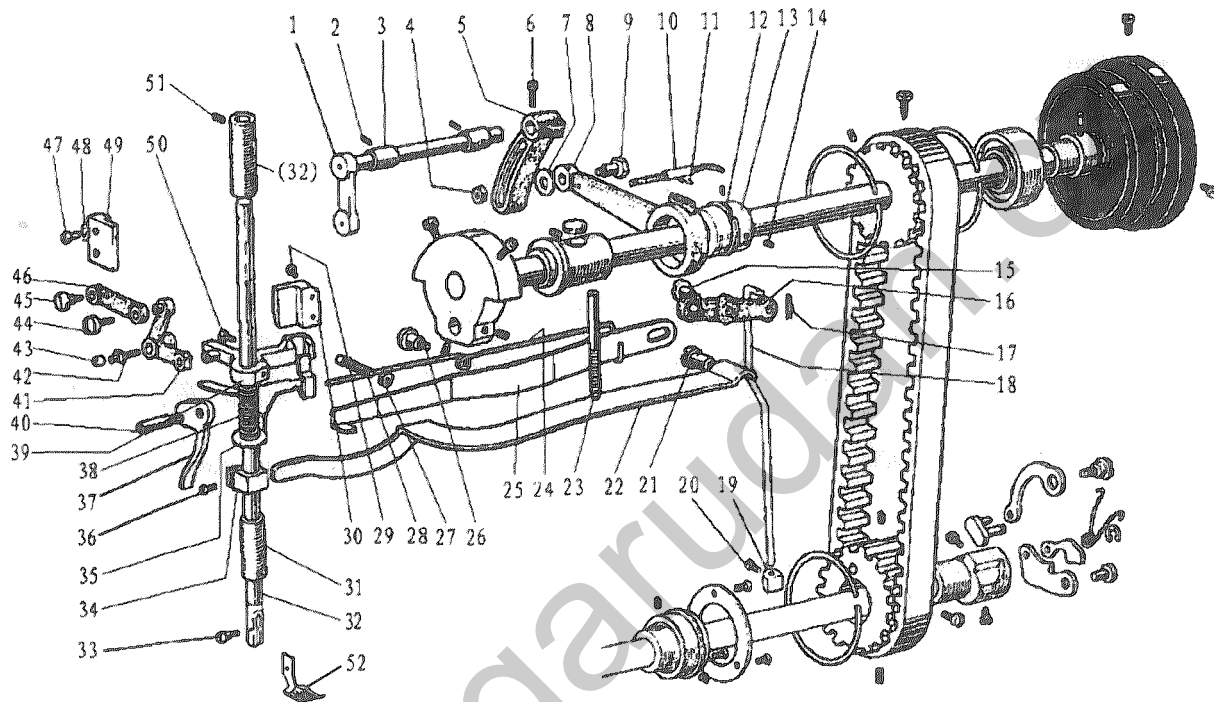
D. UPPER SHAFT & PRESSER FOOT MECHANISM



D.UPPER SHAFT & PRESSER FOOT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
D01	H4705E8001	Feed lifting rock shaft	1	1	1	1	
D02	H4706E8001	Screw	2	2	2	2	SM1/4 (24) ×7
D03	H4707E8001	Bushing	2	2	2	2	
D04	HS91165206	Nut	1	1	1	1	M6×0.75
D05	H4709E8001	Lever	1	1	1	1	
D06	H3115F0671	Screw	1	1	1	1	SM1/4 (28) ×16
D07	H2013J0065	Washer	1	1	1	1	
D08	H2014J0066	Connecting rod	1	1	1	1	
D09	H2000J2100	Bolt	1	1	1	1	
D10	H4713E8001	Oil pipe & wick complete	1	1	1	1	
D11	H20111C106	Spring	1	1	1	1	
D12	H007009250	C-type stop ring	1	1	1	1	GB/T894.1 25
D13	H4714E8001	Eccentric	1	1	1	1	
D14	HA307C0662	Screw	2	2	2	2	SM1/4 (40) ×6
D15	H4732E8001	Screw	1	1	1	1	SM1/4 (24) ×14
D16	H4735E8001	Knee lifter lifting lever complete	1	1	1	1	
D17	H4739E8001	Snap pin	1	1	1	1	
D18	H4738E8001	Operation rod	1	1	1	1	
D19	H4741E8001	Collar	1	1	1	1	
D20	H4742E8001	Screw	1	1	1	1	SM11/64 (40) ×5.5
D21	H3100G2170	Screw	1	1	1	1	SM1/4 (24) ×17
D22	H4730E8001	Lever spring	1	1	1	1	
D23	H4729E8001	Screw	1	1	1	1	SM15/64 (28) ×79
D24	H4727E8001	Twist spring	1	1	1	1	
D25	H4728E8001	Knee lifting lever	1	1	1	1	
D26	H3100G2130	Screw	1	1	1	1	SM1/4 (24) ×7
D27	H4726E8001	Nut	1	1	1	1	
D28	H4725E8001	Screw	1	1	1	1	SM1/4 (24) ×19
D29	HA111G0683	Screw	2	2	2	2	SM11/64(40)×12
D30	H4723E8001	Guide	1	1	1	1	
D31	H4744E8001	Bushing	1	1	1	1	
D32	H4754E8001	Presser bar	1	1	1	1	
D33	H3200E2020	Screw	1	1	1	1	SM1/8(44)×9
D34	H4746E8001	Spring bracket	1	1	1	1	
D35	H4768E8001	Thread releasing plate	1	1			
D36	H2404I0034	Screw	1	1	1	1	SM9/64 (40) ×8.5
D37	H4748E8001	Lifter lever	1	1	1	1	
D38	H4767E8001	Spring	1	1			
D39	H4752E8001	Bracket	1	1	1	1	
D40	H4749E8001	Screw	1	1	1	1	SM11/64 (40) ×8.5
D41	H4715E8001	Bell crank	1	1	1	1	
D42	H2004J0655	Support shaft	1	1	1	1	
D43	H4717E8001	Roller	1	1	1	1	

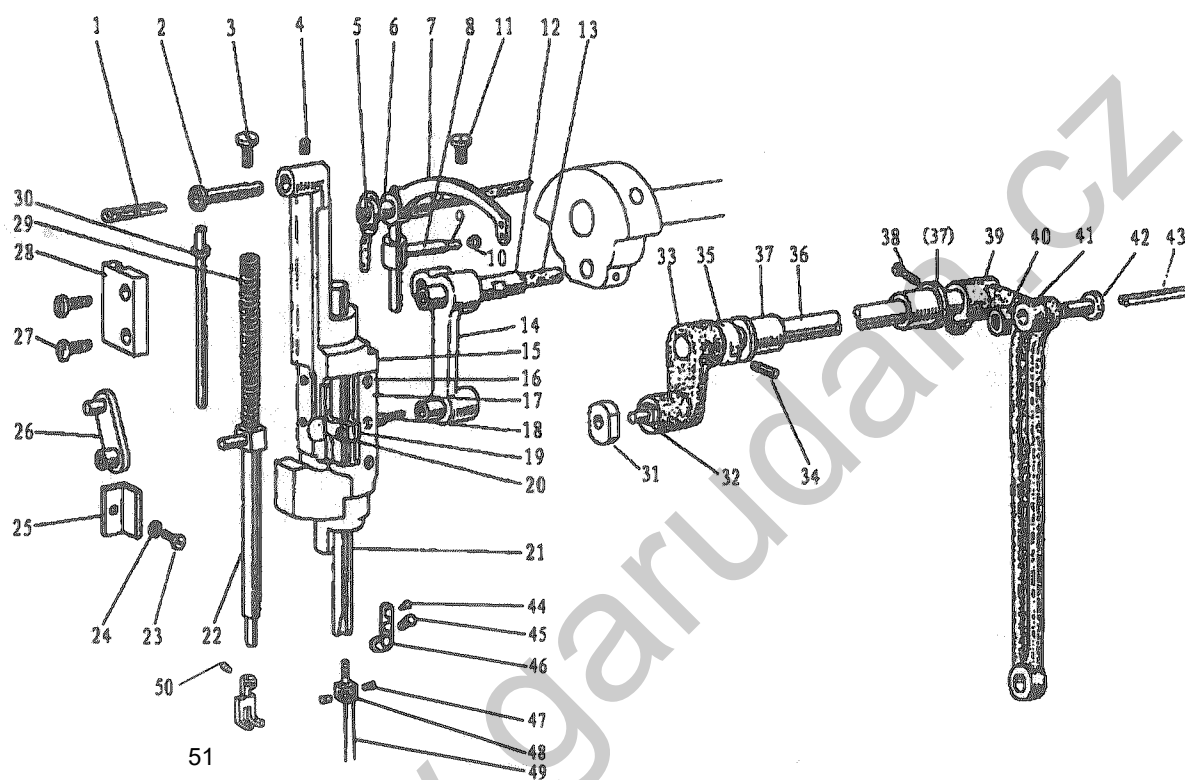
D. UPPER SHAFT & PRESSER FOOT MECHANISM



D.UPPER SHAFT & PRESSER FOOT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
D44	H4718E8001	Screw	1	1	1	1	SM11/64(32)×6
D45	H2004J0662	Screw	1	1	1	1	SM1/4(40)×5
D46	H4719E8001	Link	1	1	1	1	
D47	HA100E2150	Screw	2	2	2	2	SM11/64 (40) ×10
D48	H4722E8001	Washer	2	2	2	2	
D49	H4721E8001	Bell crank guide	1	1	1	1	
D50	H4753E8001	Screw	1	1	1	1	SM11/64 (40) ×14.5
D51	H4708D8001	Screw	2	2	2	2	SM1/4(24)×13
D52	H4757E8001	Lifting presser foot		1		1	
D52	H3100G2110	Lifting presser foot	1		1		

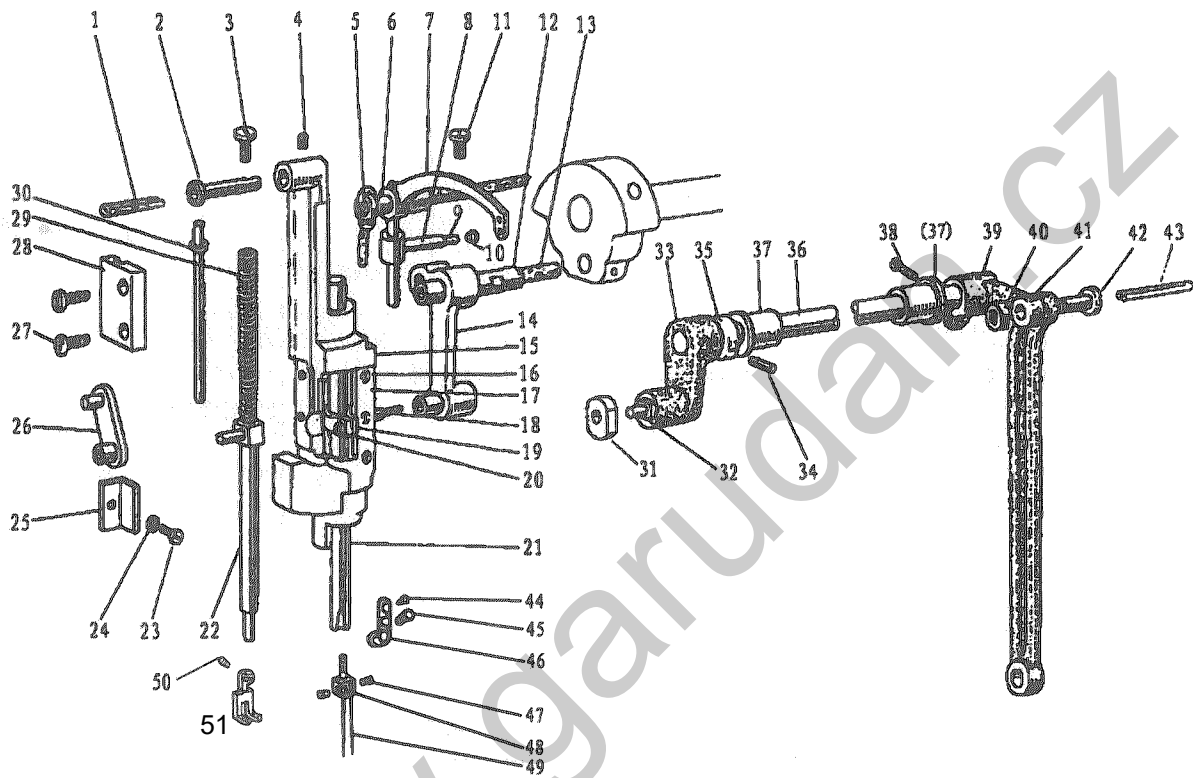
E. NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM



E.NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
E01	H24211DN05	Oil wick	1	1	1	1	
E02	H4706F8001	Needle bar guide bracket stud	1	1	1	1	
E03	H4707F8001	Screw	1	1	1	1	SM5/16 (28) ×10.4
E04	HA100C2020	Screw	1	1	1	1	SM15/64 (28) ×10
E05	H24211DN05	Oil wick	1	1	1	1	
E06	H24211DM05	Thread take-up lever support stud	1	1	1	1	
E07	H4712F8001	Thread take-up lever	1	1	1	1	
E08	H2405D1112	Thread take-up slide brock	1	1	1	1	
E09	H24211D405	Oil wick	1	1	1	1	
E10	H24211D305	Plug	1	1	1	1	
E11	HA110D0672	Screw	1	1	1	1	SM15/64 (28) ×12
E12	H2405D0662	Needle bar crank pin	1	1	1	1	
E13	H4716F8001	Oil wick	1	1	1	1	
E14	H4717F8001	Connecting link	1	1	1	1	
E15	H4719F8001	Needle bar guide bracket	1	1	1	1	
E16	H32111D304	Screw	6	6	6	6	SM3/32 (56) ×4
E17	H4721F8001	Spacer	2	2	2	2	
E18	H3204D6513	Felt	1	1	1	1	
E19	H4722F8001	Needle bar holder	1	1	1	1	
E20	H32111D604	Screw	1	1	1	1	SM9/64 (40) ×8.5
E21	H4724F8001	Needle bar		1		1	
E21	H4806F8001	Needle bar	1		1		
E22	H4725F8001	Vibrating presser bar	1	1	1	1	
E23	H3400C2020	Screw	1	1	1	1	
E24	H3200I2030	Washer	1	1	1	1	
E25	H3400C2010	Needle bar guide	1	1	1	1	
E26	H4726F8001	Vibrating presser bar link	1	1	1	1	
E27	H4753E8001	Screw	2	2	2	2	SM11/64 (40) ×17.5
E28	H4728F8001	Vibrating presser bar guide	1	1	1	1	
E29	H4729F8001	Spring	1	1	1	1	
E30	H4730F8001	Vibrating presser spring guide	1	1	1	1	
E31	H3410C301P	Square block	1	1	1	1	
E32	H3406C0671	Crank pin	1	1	1	1	SM15/64(28)×10
E33	H3406C0672	Needle bar vibrating crank (left)	1	1	1	1	
E34	H602040240	Taper	1	1	1	1	GB/T117 4×24
E35	H4734F8001	Collar	1	1	1	1	
E36	H4736F8001	Needle bar vibrating shaft	1	1	1	1	
E37	H3204B0652	Needle bar vibrating shaft bushing	2	2	2	2	
E38	H2012N0652	Screw	1	1	1	1	SM1/4 (24) ×16
E39	H3407C0661	Needle bar vibrating crank (right)	1	1	1	1	
E40	H32311D506	Nut	1	1	1	1	
E41	H3407C0662	Connecting link	1	1	1	1	
E42	H32311D306	Screw	1	1	1	1	SM5/16(24)

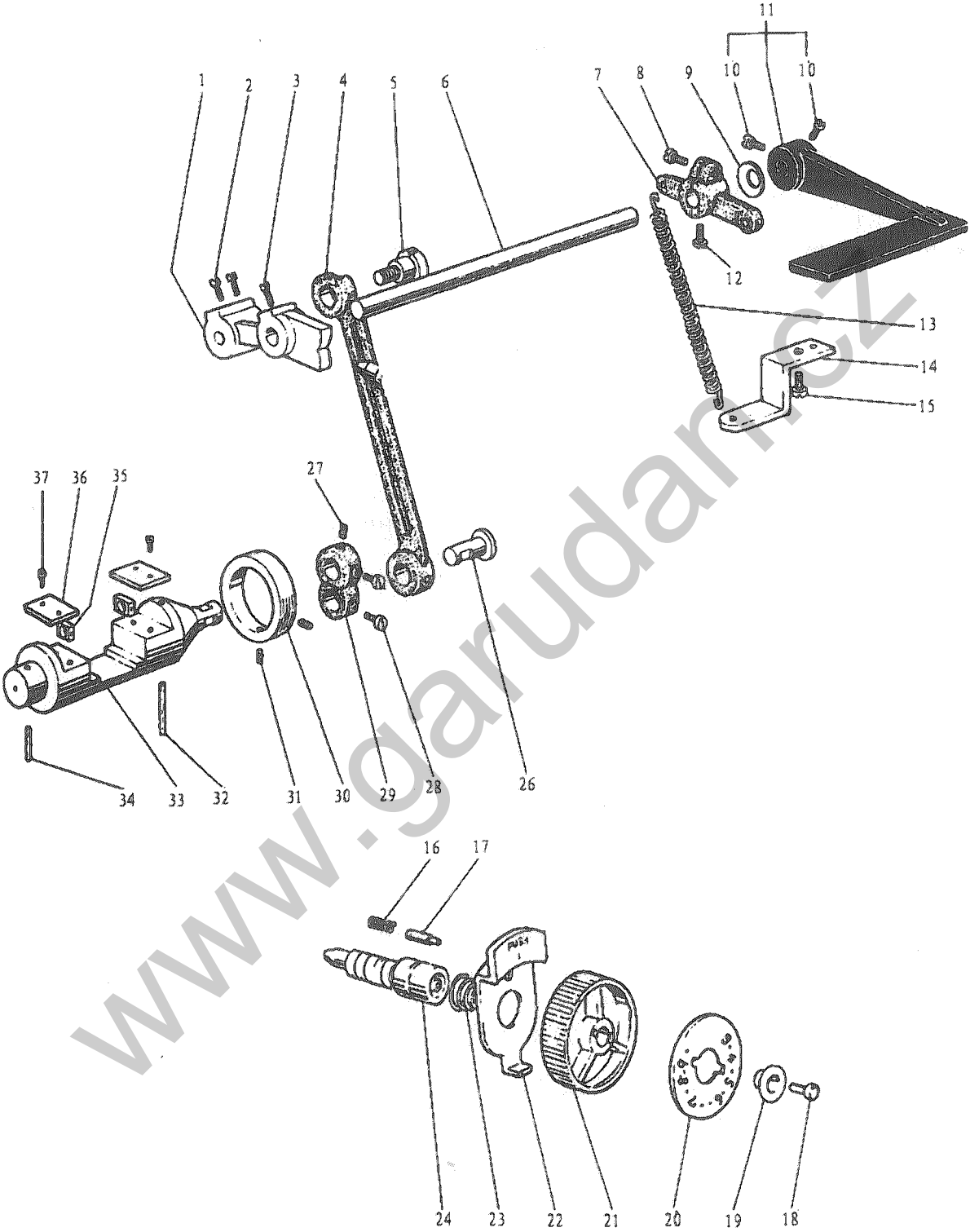
E. NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM



E.NEEDLE BAR & THREAD TAKE-UP LEVER MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
E43	H32311D406	Oil wick	1	1	1	1	
E44	H3129F0691	Screw	1		1		SM3/32 (56) ×2.5
E45	HA100C2170	Screw	1		1		SM1/8 (44) ×4.5
E46	H3129F0693	Thread guide	1		1		
E47	H32132D104	Screw		2		2	SM9/64 (40) ×3
E48	H4739F8001	Needle clamp(1//4)		1		1	
E49	H4740F8001	Needle	1	2	1	2	
E50	HA700F2100	Screw	1	1	1	1	SM11/64 (40) ×7
E51	H4807F8001	Presser foot (inside)	1				→ Oct. 19/2015
E51	15-221A-5607	Presser foot (inside)	1				Oct. 19/2015 →

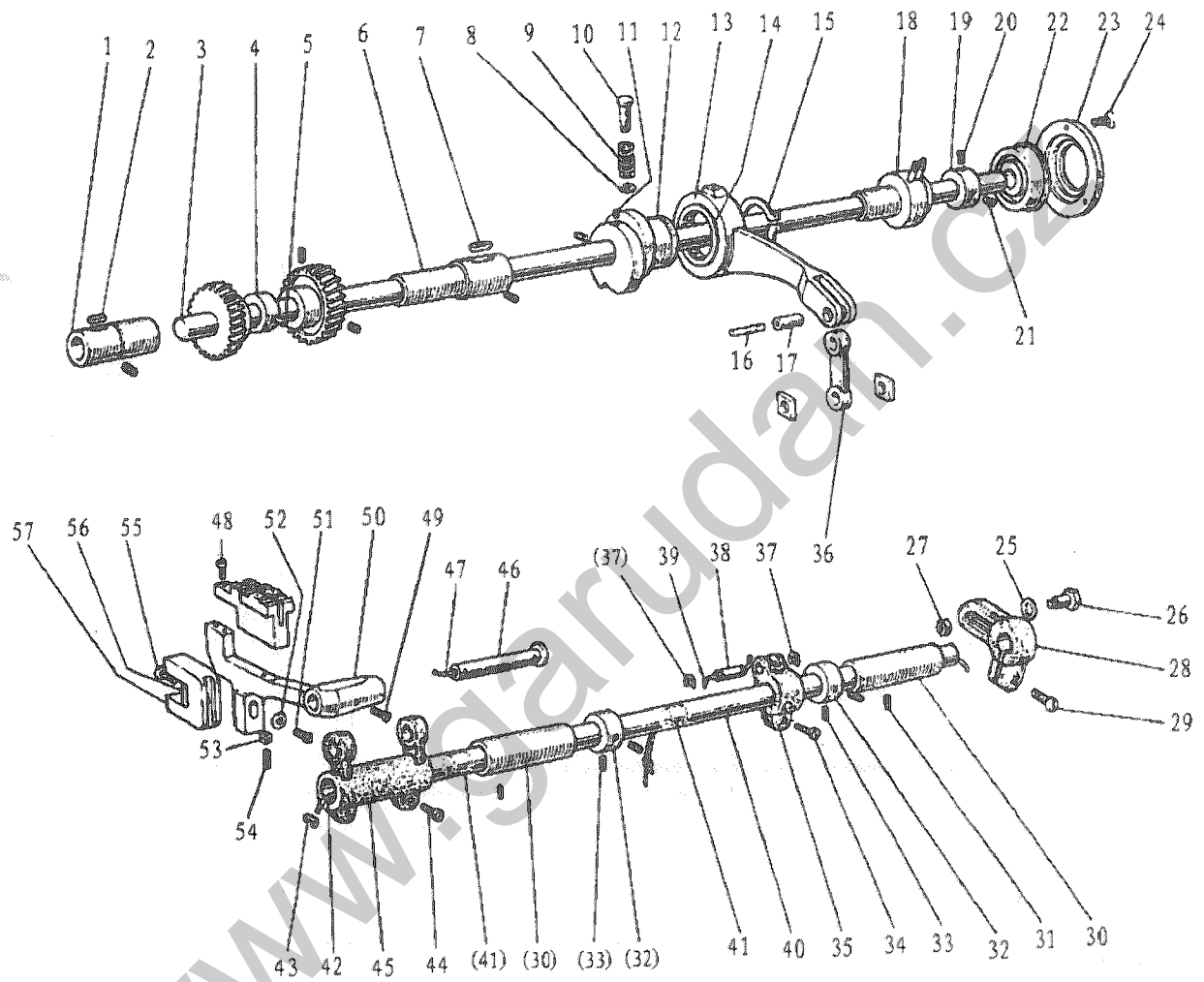
F. STITCH REGULATOR MECHANISM



F.STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
F01	H4706G8001	Feed regulator cam	1	1	1	1	
F02	HA113F0684	Screw	2	2	2	2	SM15/64 (28) ×8.5
F03	H3200F2020	Screw	1	1	1	1	SM15/64 (28) ×12
F04	H4707G8001	Link	1	1	1	1	
F05	HA100G2070	Eccentric shaft	1	1	1	1	
F06	H4709G8001	Reverse stitch shaft (upper)	1	1			
F06	H4909G8001	Reverse stitch shaft (upper)			1	1	
F07	H3207F0671	Arm	1	1			
F07	H4905G8001	Arm			1	1	
F08	HA800F2020	Screw	1	1	1	1	
F09	HA100F2110	Spring Washer	1	1			
F10	HA113F0684	Screw	2	2			
F11	H4711G8001	Reverse sewing lever	1	1			
F11	H4906G8001	Reverse sewing lever			1	1	
F12	H3207F0672	Screw	1	1	1	1	SM11/64 (40) ×8.5
F13	H4710G8001	Spring	1	1	1	1	
F14	H3200F2050	Guide plate	1	1			
F15	HA300C2030	Screw	1	1			SM11/64 (40) ×8
F16	H3200F2110	Spring	1	1	1	1	
F17	HA700F2030	Pin	1	1	1	1	
F18	HA720F0686	Screw	1	1	1	1	SM3/16(28)×18
F19	HA720F0685	Bushing	1	1	1	1	
F20	H4910G8001	Stitch length indicating plate	1	1	1	1	
F21	HA7421F120	Dial	1	1	1	1	
F22	HA720F0683	Stopper pin releasing lever	1	1	1	1	
F23	HA720F0687	Coil spring	1	1	1	1	
F24	HA109F0671	Screw bar	1	1	1	1	
F26	H3206F0662	Pin	1	1	1	1	
F27	H415050200	Screw	1	1	1	1	GB/T70.1 M5×20
F28	H428050060	Screw	2	2	2	2	GB/T77 M5×6
F29	H4714G8001	Reverse sewing crank	1	1	1	1	
F30	H4715G7101	Collar	1	1	1	1	
F31	HA3411D308	Screw	2	2	2	2	SM15/64"(28)×7
F32	H4719G8001	Felt	1	1	1	1	
F33	H4720G8001	Rverse block	1	1	1	1	
F34	H4721G8001	Felt	1	1	1	1	
F35	H4722G8001	Square block	2	2	2	2	
F36	H4723G8001	Guide plate	2	2	2	2	
F37	HA300C2030	Screw	4	4	4	4	SM11/64 (40) ×8

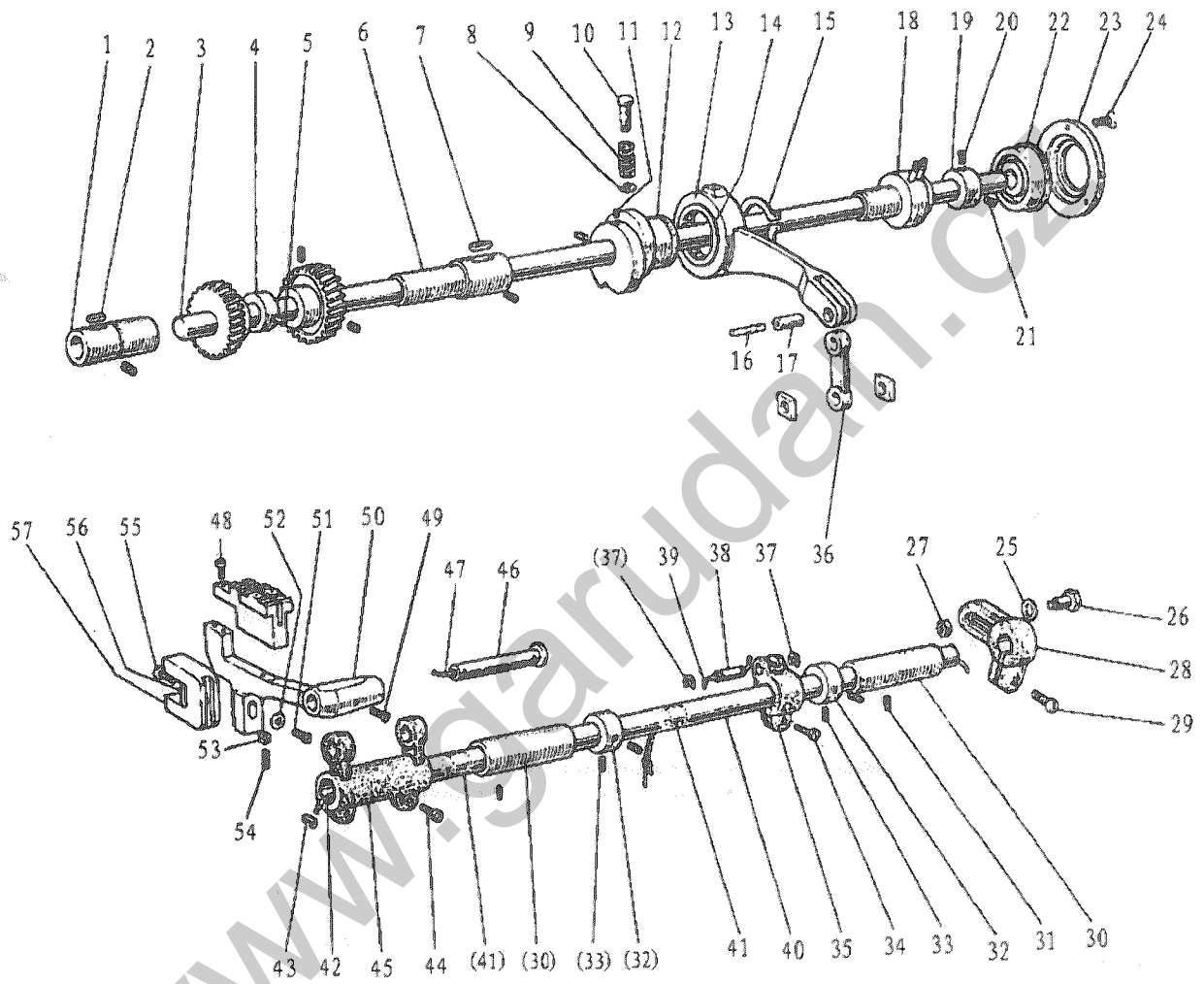
G. LOWER SHAFT & FEED ROCK SHAFT MECHANISM



G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
G01	H4706H8001	Lower shaft bushing (left)	1	1	1	1	SM1/4(40)×5
G02	H4707H8001	Oil wick	1	1	1	1	
G03	H4708H8001	Lower shaft	1	1	1	1	
G04	H4710H8001	Feed eccentric cam	1	1	1	1	
G05	H3205H0654	Screw	1	1	1	1	GB/T896 5
G06	H4712H8001	Lower shaft bushing (right)	1	1	1	1	
G07	H4713H8001	Oil wick	1	1	1	1	
G08	H007013050	Stop ring	2	2	2	2	
G09	H4714H8001	Spring	1	1	1	1	SM15/64(28)×14
G10	H4715H8001	Push button	1	1	1	1	
G11	H2405D0664	Screw	2	2	2	2	
G12	H4717H8001	Feed eccentric	1	1	1	1	
G13	H4718H8001	Feed connecting rod	1	1	1	1	GB/T894.1 26
G14	H4719H8001	Needle bearing	1	1	1	1	
G15	H007009260	C-type stop ring	1	1	1	1	
G16	H4720H8001	Oil wick	1	1	1	1	
G17	H4721H8001	Shaft	1	1	1	1	SM1/4 (40) ×4
G18	H4722H7101	Lower shaft bushing complete (middle)	1	1	1	1	
G19	H4725H8001	Bushing	1	1	1	1	
G20	HA105D0662	Screw	1	1	1	1	
G21	H3205H0654	Screw	1	1	1	1	SM1/4(40)×5
G22	H4723H8001	Ball bearing	1	1	1	1	
G23	H4727H8001	Bearing holder	1	1	1	1	
G24	HA7311C306	Screw	3	3	3	3	
G25	H4728H8001	Washer	1	1	1	1	M6
G26	H4729H8001	Screw	1	1	1	1	
G27	H003055060	Nut	1	1	1	1	
G28	H4731H8001	Feed connection crank (right)	1	1	1	1	
G29	H2012N0652	Screw	1	1	1	1	SM1/4(24)×16
G30	HA100G2120	Feed rock shaft bushing	2	2	2	2	
G31	H4708D8001	Screw	2	2	2	2	
G32	HA108G0661	Collar	2	2	2	2	
G33	HA105D0662	Screw	4	4	4	4	1/4(40)×4
G34	H2012N0652	Screw	1	1	1	1	
G35	H4736H8001	Feed connection crank (middle)	1	1	1	1	
G36	H4737H8001	Link	1	1	1	1	
G37	H007013050	E-type stop ring	2	2	2	2	GB/T896 5
G38	H4738H8001	Pin	1	1	1	1	
G39	H4739H8001	Oil wick	1	1	1	1	
G40	H3204G0651	Feed rock shaft	1	1	1	1	
G41	H4740H8001	Felt	2	2	2	2	
G42	H3204G0031	Oil wick	1	1	1	1	
G43	H3200G2030	Clip	1	1	1	1	

G. LOWER SHAFT & FEED ROCK SHAFT MECHANISM



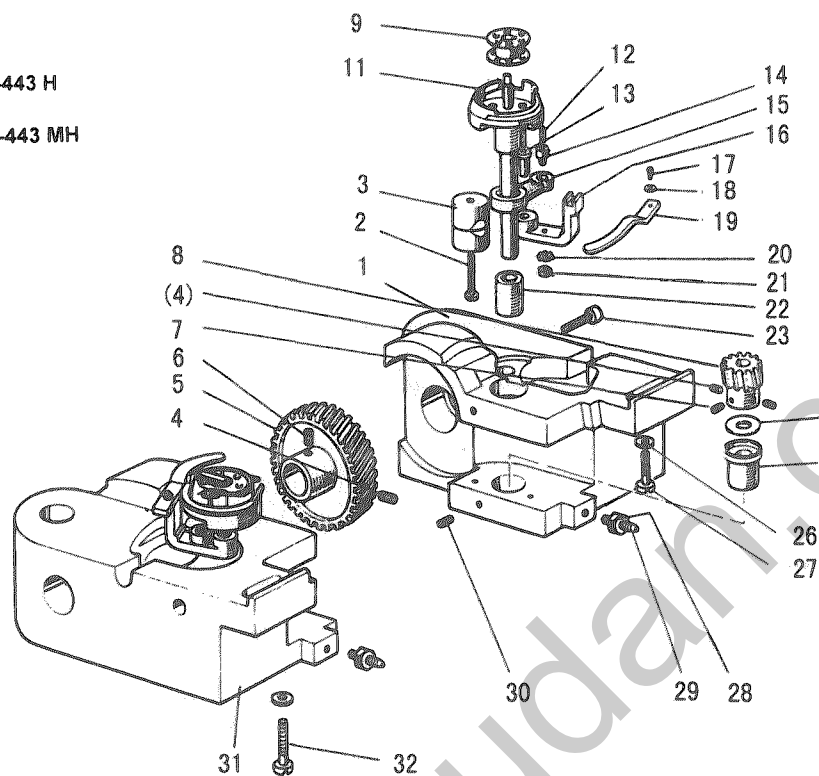
G.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
G44	HA104G0012	Screw	2	2	2	2	SM3/16 (28) ×12
G45	H4905H8001	Feed connection crank (left)			1	1	
G45	H3205G1032	Feed connection crank (left)	1	1			
G46	H32243G205	Feed bar shaft	1	1	1	1	
G47	H3205G0662	Oil wick	1	1	1	1	
G48	H32211G205	Bolt	2	2	2	2	SM1/8(40)×7
G49	H429050050	Bolt	1	1	1	1	GB/T78 M5×5
G50	H32211GC05	Feed bar		1			
G50	H4805H8001	Feed bar	1		1		
G50	H4942H8001	Feed bar				1	
G51	H3200H2040	Screw	1	1	1	1	SM15/64(28)×17
G52	H2013J0065	Washer	1	1	1	1	
G53	H003002030	Nut		1		1	GB/T6170 M3
G54	H429030140	Screw		1		1	GB/T78 M3×14
G55	H3205H0653	Screw	1	1	1	1	SM1/8 (44) ×4
G56	H3205H0652	Felt	1	1	1	1	
G57	H4743H8001	Feed bar forked connection	1	1	1	1	

H. HOOK SADDLE MECHANISM

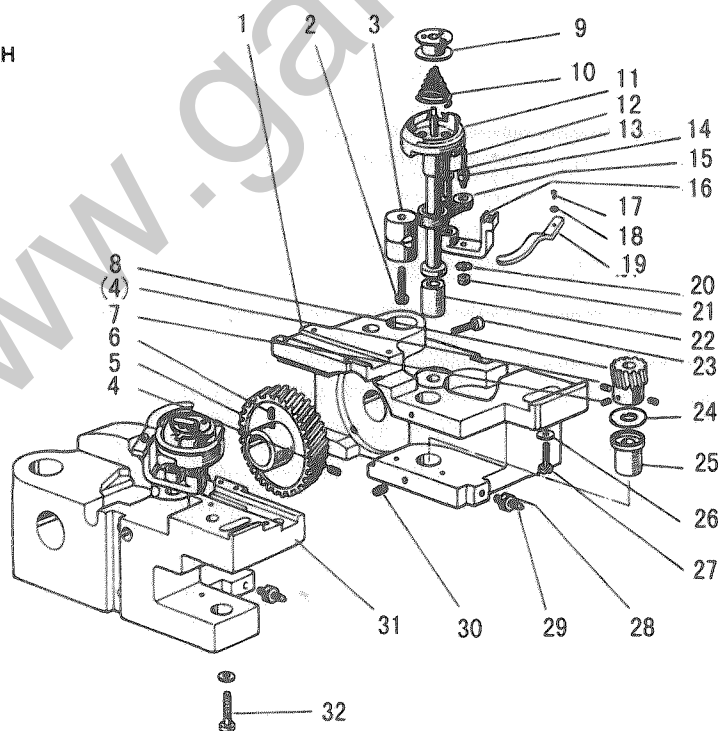
GF-130-443 H

GF-230-443 MH



GF-130-446 H

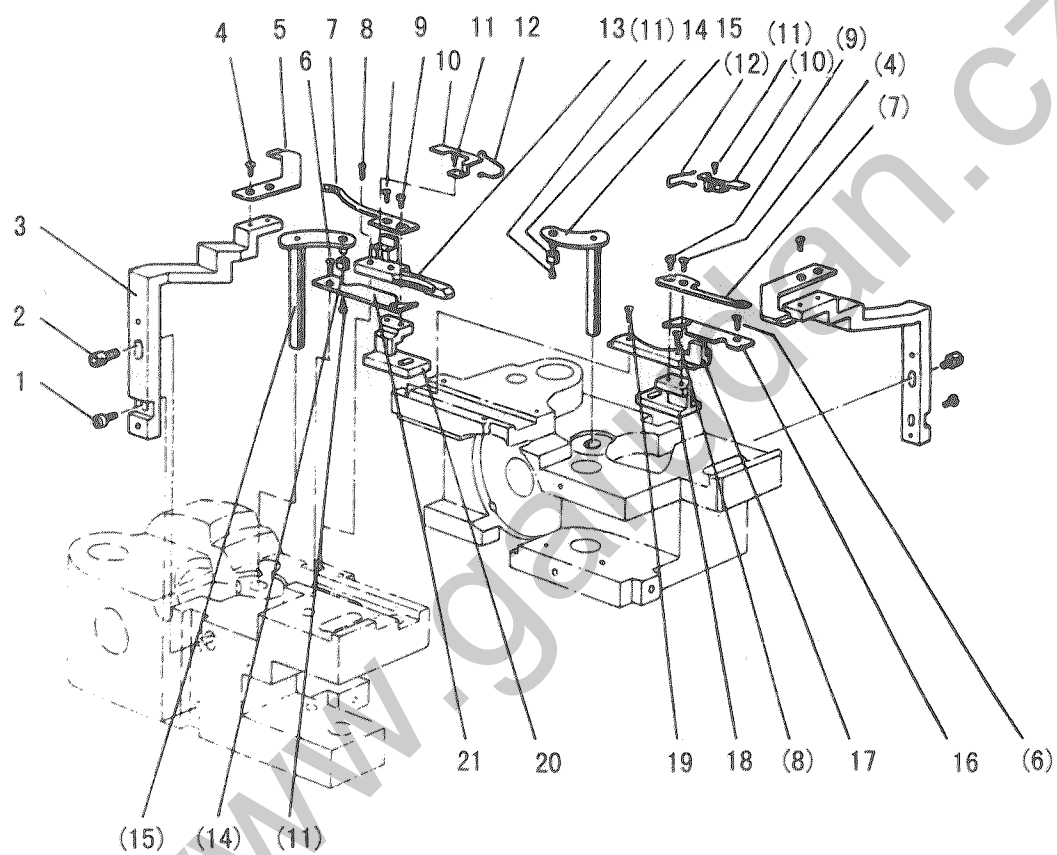
GF-230-446 MH



H.HOOK SADDLE MECHANISM

Fig. No.	Part No.	Description	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Remarks
H01	H3304I0651	Hook saddle (right)	1	1			
H01	H4906I8001	Hook saddle (right)			1	1	
H02	H3207I0661	Screw	1	2	1	2	SM15/64 (28) ×22
H03	H3207I0662	Bushing	1	2	1	2	
H04	H4707I8001	Screw	3	6	3	6	SM1/4 (40) ×4
H05	H4706I8001	Hook driving gear (large)	1	2	1	2	
H06	H4708I8001	Screw	1	2	1	2	SM1/4 (40) ×6.5
H07	H4709I8001	Screw	1	2	1	2	SM1/4 (40) ×5
H08	H4705I8001	Hook driving gear (small)	1	2	1	2	
H09	H3306I0067	Bobbin	1	2			
H09	H4912I8001	Bobbin			1	2	BO-B872(A)
H10	H4922I8001	Spring			1	2	
H11	H4908I7101	Hook complete			1	2	
H11	H4708I7101	Hook complete	1	2			
H12	H3204I0656	Oil wick	2	4	2	4	
H13	H32153I504	Opener bracket shaft	1	2	1	2	
H14	H32153I204	Screw	1	2	1	2	SM3/16 (32) ×7.8
H15	H3313I1204	Link	1	2	1	2	
H16	H3313I1104	Opener bracket	1	2	1	2	
H17	H2004J0067	Screw	1	2	1	2	
H18	H3200I2030	Washer	1	2	1	2	
H19	H3305I0066	Opener	1	2	1	2	
H20	H005008050	Spring washer	1	2	1	2	GB/T93 5
H21	HA104G0658	Nut	1	2	1	2	
H22	H3312I1104	Hook shaft bushing (upper)	1	2			
H22	H4909I8001	Hook shaft bushing (upper)			1	2	
H23	H3204I0657	Screw	1	2	1	2	SM3/16 (28) ×14.5
H24	H3312I1204	Washer	1	2			
H24	H4910I8001	Washer			1	2	
H25	H3204I0653	Hook shaft bushing (lower)	1	2			
H25	H4911I8001	Hook shaft bushing (lower)			1	2	
H26	H2013J0065	Washer	1	2	1	2	
H27	H3200I2050	Screw	1	1	1	1	SM1/4 (24) ×23
H28	H3204I0659	Nut	1	2			
H28	H4914I8001	Nut			1	2	
H29	H3204I0658	Screw	1	2			
H29	H4915I8001	Screw			1	2	SM3/16 (28) ×11.5
H30	HA305E0662	Screw			2	4	SM15/64 (28) ×4.5
H31	H4917I8001	Hook saddle (left)				1	
H31	H3307I0681	Hook saddle (left)		1			
H32	H3200I2050	Screw	1	2			SM1/4 (24) ×23
H32	H4913I8001	Screw			1	2	SM1/4 (24) ×30

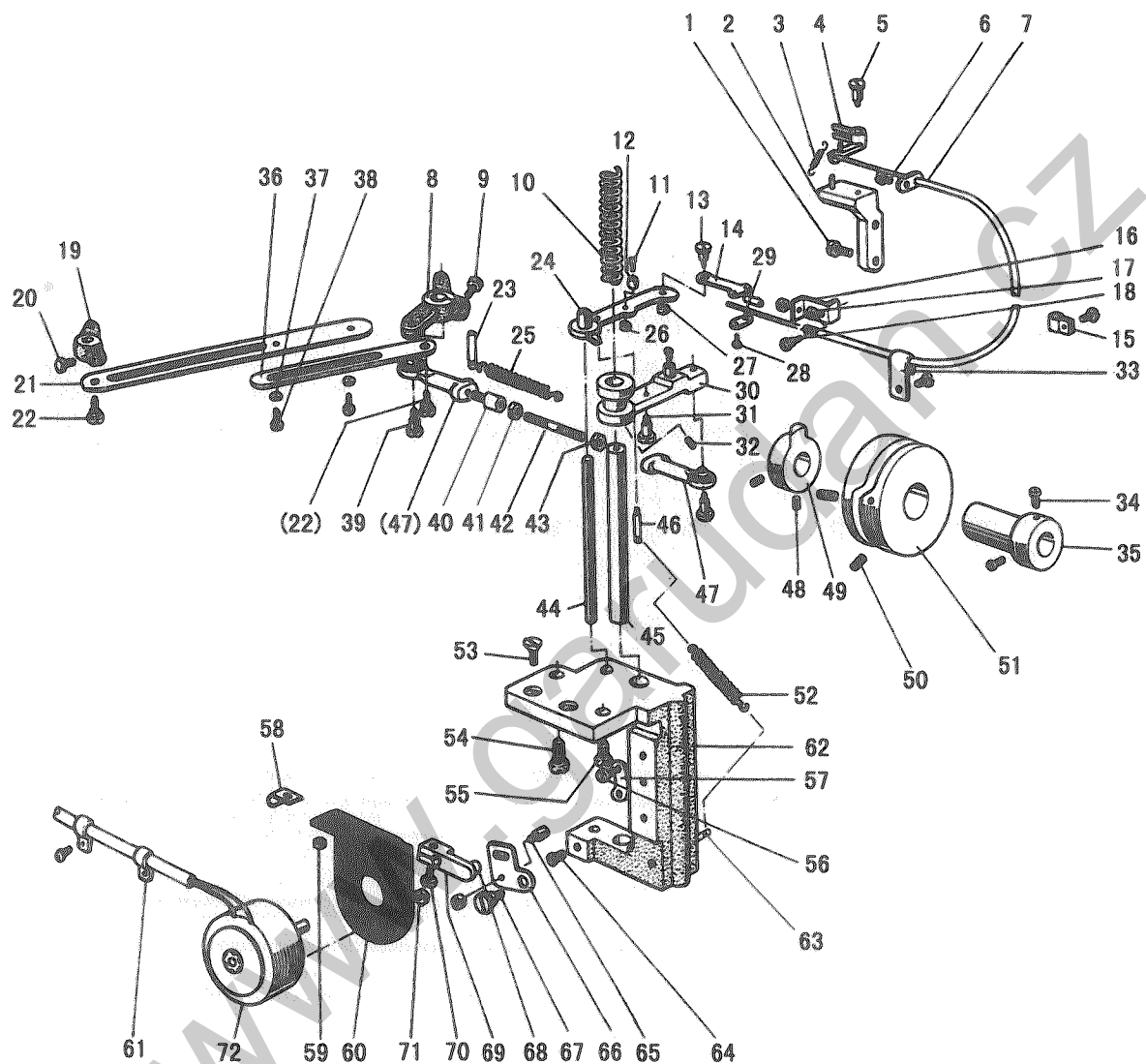
I. UPPER FEED ROCK SHAFT MECHANISM



I.UPPER FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
I01	H4905J8001	Screw			1	2	
I02	H4906J8001	Bolt			1	2	SM11/64 (40) ×12
I03	H4907J8001	Trimming knife holder			1	2	
I04	H4908J8001	Screw			3	6	SM9/64 (40) ×4
I05	H4909J8001	Fixed blade			1	2	
I06	H4914B8001	Screw			2	4	SM9/64 (40) ×4
I07	H4911J8001	Moved knife			1	2	
I08	H4912J8001	Screw			1	2	SM1/8 (44) ×9.2
I09	H4913J8001	Screw			1	2	SM9/64 (40) ×4.5
I10	H4914J8001	Spring plate			1	2	
I11	H4915J8001	Screw			3	6	SM3/32 (56) ×3.8
I12	H4916J8001	Reversing spring			1	2	
I13	H4917J8001	Guide			1	1	
I14	H4920J8001	Roller			1	2	
I15	H4921J8001	Lever			1	2	
I16	H4922J8001	Cover			1	1	
I17	H4923J8001	Guide (right)			1	1	
I18	H4924J8001	Knife pad (right)			1	1	
I19	H4925J8001	Screw			1	1	SM9/64 (40) ×9.5
I20	H4926J8001	Knife pad (left)			1	1	
I21	H4927J8001	Cover			1	1	

J. KNIFE MECHANISM



J.KNIFE MECHANISM

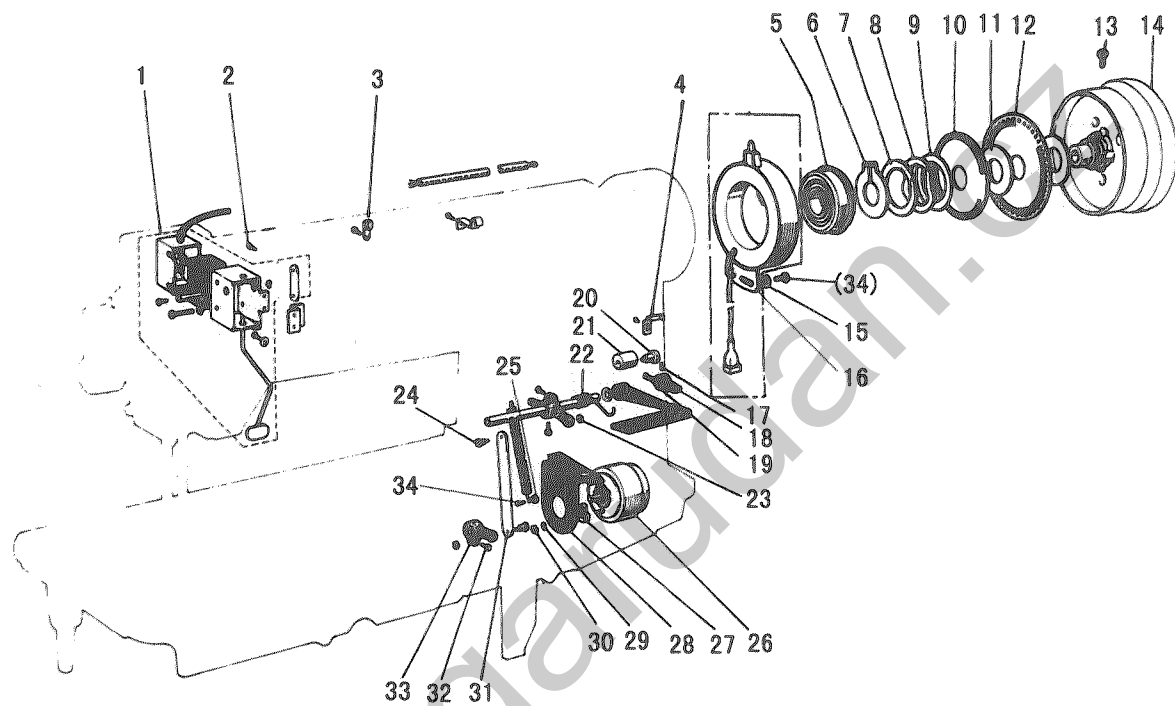
Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
J01	HA300C2020	Screw			2	2	SM11/64 (40) ×8
J02	H4915K7101	Thread releading bracket			1	1	
J03	H4918K8001	Spring			1	1	
J04	H4919K7101	Thread releading plate			1	1	
J05	H2400I2040	Screw			1	1	SM11/64 (40) ×5
J06	HA300B2170	Screw			4	4	SM11/64 (40) ×8
J07	H4923K7101	Flexible wire complete			1	1	
J08	H4912K8001	Arm			1	1	
J09	H4913K8001	Bolt			1	1	SM15/64 (28) ×12.5
J10	H4945K8001	Spring			1	1	
J11	H4950K8001	Screw			1	1	SM11/64 (40) ×3.6
J12	H4949K8001	Roller			1	1	
J13	H4952K8001	Screw			1	1	SM3/16 (28) ×5
J14	H4953K8001	Mounting plate			1	1	
J15	HA700Q0030	Nylon clip			1	1	
J16	H4925K8001	Mounting plate			1	1	
J17	H003002050	Nut			2	2	GB/T6170 M5
J18	HA300C2030	Screw			1	1	SM11/64 (40) ×7
J19	H4908K8001	Arm				1	
J20	H4907K8001	Bolt				1	SM15/64 (28) ×12.5
J21	H4906K8001	Link				1	
J22	H4905K8001	Screw			2	2	M5(0.5)×7.5
J23	HA100H2080	Pin type			1	1	
J24	H4946K7101	Thread releasing lever			1	1	
J25	H4943K8001	Spring			1	1	
J26	H4951K8001	Nut			1	1	SM11/64 (40)
J27	H4954K8001	Nut			1	1	SM3/16 (28)
J28	H4956K8001	Screw			2	2	SM1/8 (44) ×7
J29	H4955K8001	Bushing			1	1	
J30	H4957K7101	Vibrating crank			1	1	
J31	H4944K8001	Screw			1	1	SM11/64 (40) ×5.5
J32	H3205G1114	Screw			2	2	M5×5
J33	HA708P0668	Nylon clip			1	1	
J34	HA113F0684	Screw			2	2	SM15/64 (28) ×8.5
J35	H4931K8001	Bushing			1	1	
J36	H4909K8001	Link				1	
J37	H005001050	Washer				1	GB/T97.1 5
J38	H4911K8001	Bolt				2	
J39	H4936K8001	Screw			2	2	M5(0.5)×8.5
J40	H4987K8001	Bolt			1	1	
J41	H4940K8001	Nut (left)			1	1	M5(left)
J42	H4939K8001	Bolt			1	1	
J43	H003002050	Nut (right)			1	1	GB/T6170 M5

This diagram is an exploded view of a mechanical assembly, likely a pump or engine component. It shows 72 numbered parts arranged in their relative positions. The assembly includes a central vertical shaft (12) with a spring (11) at the top. Various levers, arms, and linkages (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72) are shown in their assembled positions or near their assembly points. The parts are labeled with numbers 1 through 72, indicating their sequence or identification in the assembly process.

J.KNIFE MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
J44	H4964K8001	Shaft			1	1	
J45	H4963K8001	Shaft			1	1	
J46	H4985K8001	Screw			1	1	SM11/64 (40) ×4
J47	H3405D0663	Ball joint (right)			2	2	
J48	H3205G1114	Screw			4	4	M4×4
J49	H4934K8001	Cam			1	1	
J50	HA710E0692	Screw			2	2	SM1/4 (40) ×9.5
J51	H4932K8001	Cam			1	1	
J52	H4986K8001	Spring			1	1	
J53	H411050160	Screw			2	2	GB/T819.1 M5×16
J54	H2012N0652	Screw			1	1	SM1/4 (24) ×16
J55	H4983K8001	Screw			1	1	SM1/4 (24) ×13
J56	H4967K8001	Screw			3	3	SM11/64 (40) ×7
J57	H4966K8001	Stopper			1	1	
J58	H4981K8001	Holder			1	1	
J59	H003008050	Nut			2	2	GB/T6172.1 M5
J60	H4977K8001	Mounting plate			1	1	
J61	H4980K8001	Holder			2	2	
J62	H4965K8001	Set plate			1	1	
J63	H3700E2080	Pin type			1	1	
J64	H4969K8001	Screw			1	1	SM11/64 (40) ×8.5
J65	H4970K8001	Screw			1	1	SM11/64 (40) ×6
J66	H4971K8001	Lever			1	1	
J67	H4972K8001	Screw			1	1	SM11/64 (40) ×6.8
J68	H4973K8001	Pin			1	1	
J69	H4974K8001	Arm			1	1	
J70	HA111G0683	Screw			1	1	SM11/64 (40) ×12
J71	HA7111N304	Nut			1	1	SM11/64 (40)
J72	H4979K8001	Solenoid complete			1	1	

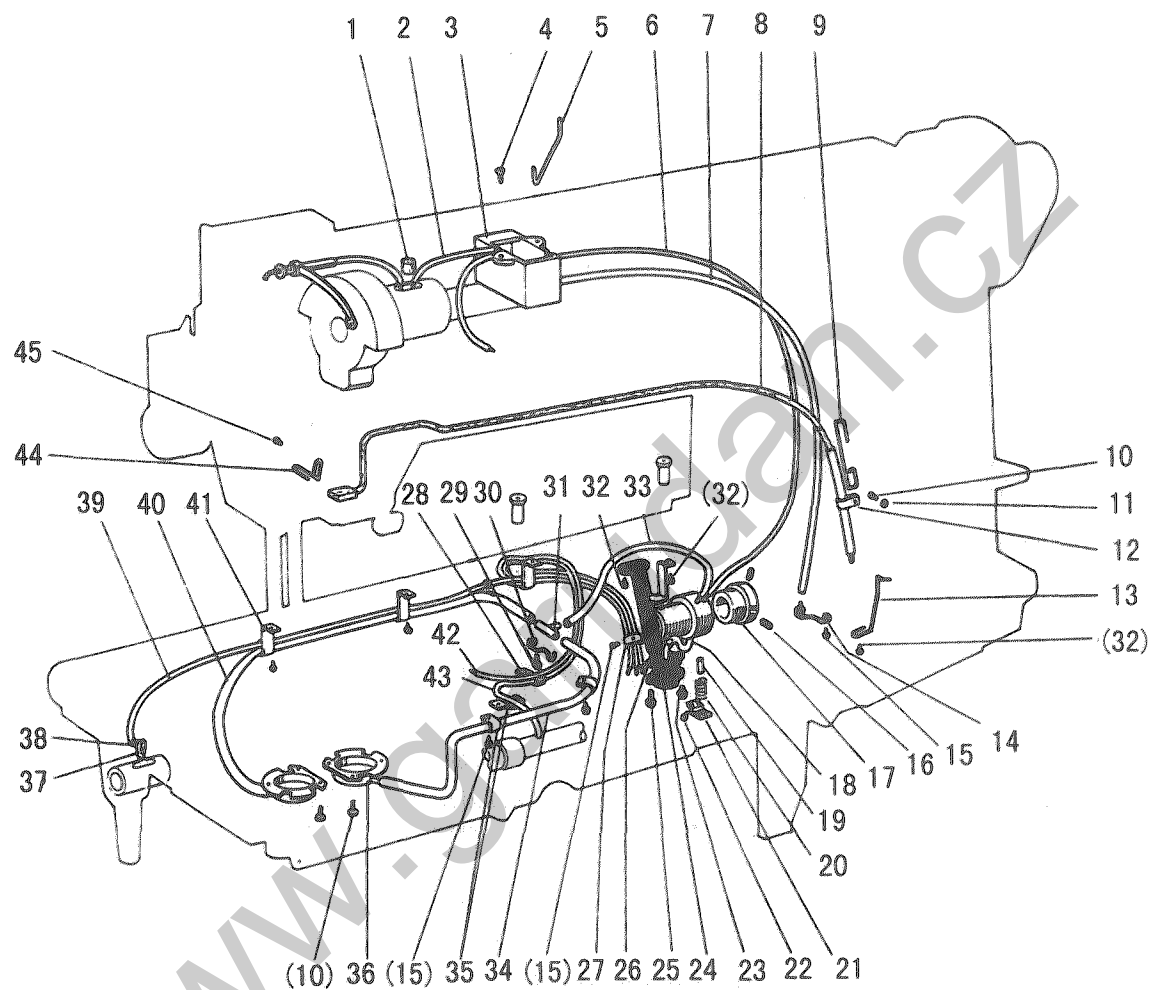
K. TOUCH BACK MECHANISM & DETECTOR MECHANISM



K.TOUCH BACK MECHANISM & DETECTOR MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
K01	H4905L7101	Touth switch complete			1	1	M5
K02	H4918L8001	Screw			4	4	
K03	HA700Q0030	Holder			2	2	
K04	H4922L8001	Holder			1	1	
K05	H3205J0662	Ball bearing			1	1	GB/T894.1 30
K06	H007009300	Retaining ring C-type			1	1	
K07	HA700R0060	Washer			1	1	
K08	HA700R0050	Support spring			1	1	
K09	HA700R0040	Spacer B			1	1	SM15/64 (28) ×12
K10	H4928L8001	Speed command disk F20 (up)			1	1	
K11	HA700R0030	Spacer A			2	2	
K12	H4930L8001	Speed command disk F11 (down)			1	1	
K13	HA110D0672	Screw			2	2	SM15/64 (28) ×7
K14	H4931L8001	Pulley (complete)			1	1	
K15	HA703R0067	Washer			1	1	
K16	HA703R0065	Detector bracket (complete)			1	1	
K17	HA3411D308	Screw			1	1	SM15/64 (28) ×7.5
K18	H4936L8001	Lever			1	1	
K19	HA113F0684	Screw			1	1	
K20	H4937L8001	Screw			1	1	
K21	H4938L8001	Rubber ring			1	1	GB/T5781 M8×12
K22	H4939L8001	Spring			1	1	
K23	H4940L8001	Nut			2	2	
K24	H4941L8001	Screw			2	2	
K25	H4942L8001	Nut			1	1	GB/T93 6
K26	H4943L8001	Solenoid (complete)			1	1	
K27	H102080120	Blot			2	2	
K28	H4945L8001	Set plate			1	1	
K29	H005008060	Spring washer			2	2	GB/T6170 M6
K30	H003002060	Nut			2	2	
K31	H4948L8001	Link			1	1	
K32	H4949L8001	Blot			1	1	
K33	H4950L8001	Arm			1	1	SM15/64 (28) ×13
K34	HA300C2030	Screw			2	2	

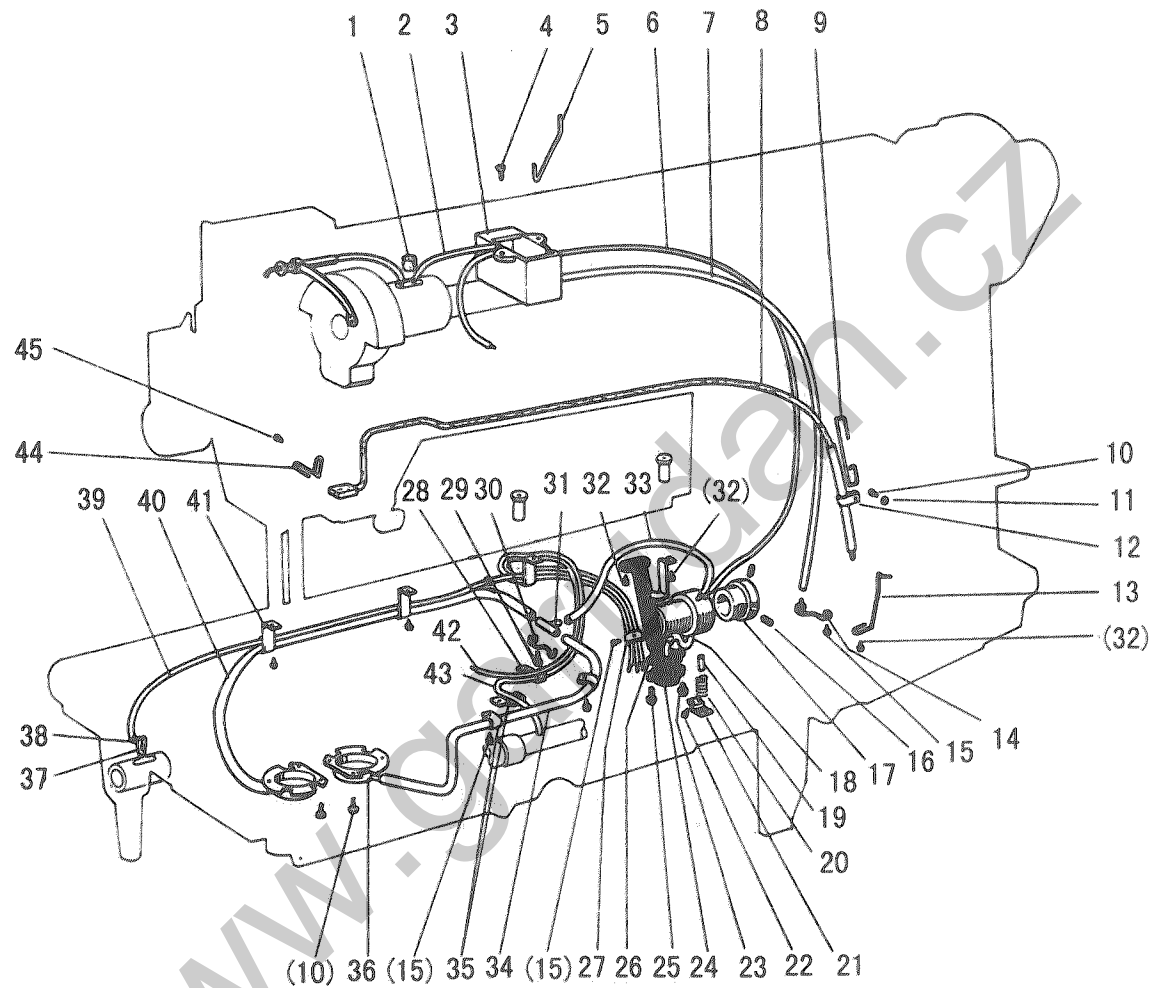
L. OIL LUBRICATION MECHANISM



L.OIL LUBRICATION MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
L01	H32175B304	Felt	1	1	1	1	GB/T819.1 M4×16
L02	H4705J7101	Oil pipe complete	1	1	1	1	
L03	H3204K0011	Oil reservoir complete	1	1	1	1	
L04	H411040160	Screw	2	2	2	2	
L05	H4707J8001	Holder	1	1	1	1	
L06	H4708J8001	Oil pipe Φ 3 x 1 x 400	1	1	1	1	
L07	H4709J8001	Oil pipe Φ 5 x 1 x 360	1	1	1	1	
L08	H4711J7101	Oil reservoir complete	1	1	1	1	
L09	H4713J8001	Holder	1	1	1	1	
L10	HA7311CC06	Screw	7	7	7	7	SM9/64 (40) ×6.5
L11	HA100I2050	Spring washer	1	1	1	1	
L12	H2000M0110	Holder	1	1	1	1	
L13	H4714J8001	Holder	1	1	1	1	
L14	H4715J8001	Holder	1	1	1	1	
L15	HA106B0676	Screw	8	8	8	8	SM9/64 (40) ×4.5
L16	H3230K0751	Screw	2	2	2	2	
L17	H4716J8001	Bushing	1	1	1	1	
L18	H3215K0696	Oil pipe	1	1	1	1	
L19	H1100I2070	Pin	1	1	1	1	
L20	H1100I2090	Spring	1	1	1	1	
L21	H1100I2110	Spring holder	1	1	1	1	
L22	H3204D6510	Screw	1	1	1	1	SM1/8 (44) ×4.5
L23	H3215K0693	Screw	1	1	1	1	
L24	H3215K0692	Filter	1	1	1	1	SM9/64 (40) ×5
L25	H3215K0694	Screw	1	1	1	1	
L26	H4718J7101	Mounting plate complete	1	1	1	1	SM9/64 (40) ×7
L27	H3215K0695	Holder	1	1	1	1	
L28	H3200K0170	Holder	1	1	1	1	SM9/64 (40) ×6.5
L29	HA7311CC06	Screw		1		1	
L30	H3210K0674	Holder		1		1	SM11/64 (40) ×9
L31	H3210K0671	Oil pipe joint		1		1	
L32	HA100E2150	Screw	4	4	4	4	SM11/64 (40) ×9
L33	H4721J8001	Oil pipe Φ3×1×90		1		1	
L34	H4805J8001	Oil pipe Φ3×1×370	1		1		
L35	H4723J8001	Oil pipe Φ3×1×300		1		1	
L36	H2000M0110	Holder	3	3	3	3	
L37	H3211K0068	Oil reservoir complete	2	2	2	2	
L38	H3200K0180	Oil wick Φ2.5×35	3	3	3	3	
L39	H4735J8001	Oil pipe	1	1	1	1	
L40	H4724J8001	Oil pipe Φ 3 x 1 x 445	1	1	1	1	
L41	H3200K0160	Holder	3	3	3	3	SM11/64 (40) ×9
L42	H4725J7101	Oil wick	1	1	1	1	
L43	H4728J7101	Oil wick	1	1	1	1	

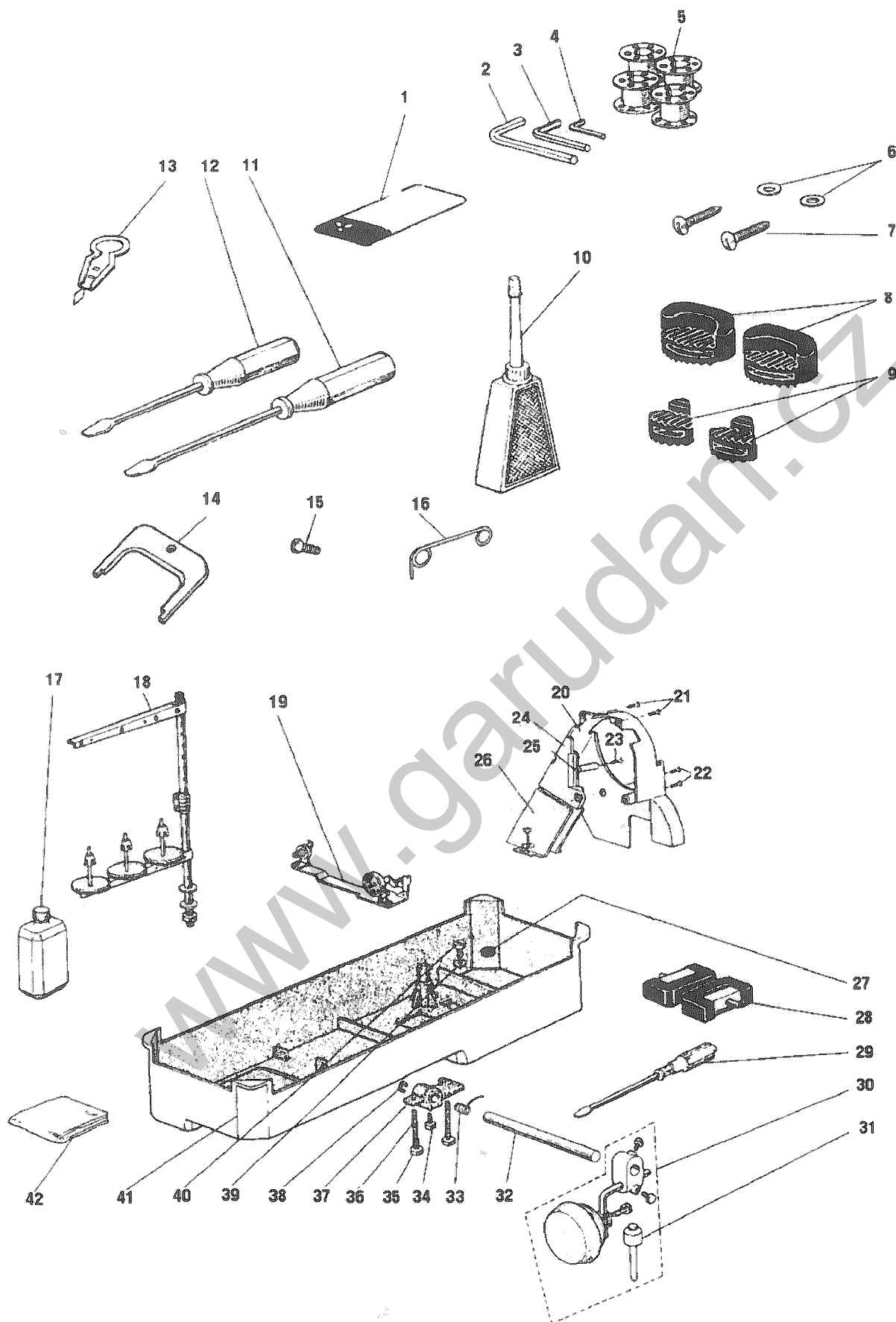
L. OIL LUBRICATION MECHANISM



L.OIL LUBRICATION MECHANISM

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
L44	H4731J8001	Holder	1	1	1	1	
L45	HA300C2030	Screw	1	1	1	1	

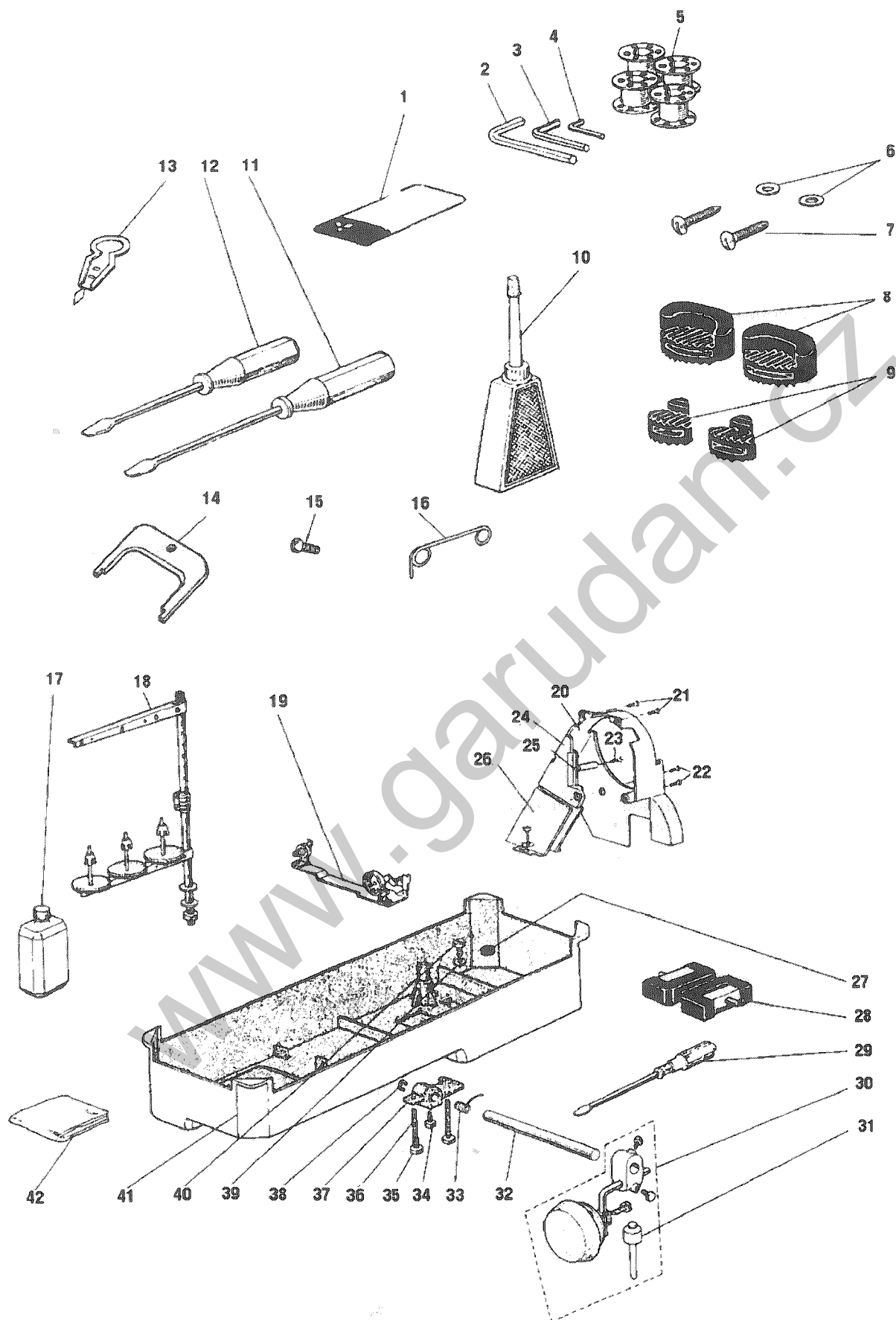
M. ACCESSORIES



M.ACCESSORIES

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
M01	H4740F8001	Needle DP×17-23	3	6	3	6	
M02	H3209L8001	Socket wrench			1	1	
M03	H3208L8001	Socket wrench	1	1	1	1	
M04	H4905N8001	Socket wrench			1	1	
M05	H3306I0067	Bobbin	2	4			
M05	H4912I8001	Washer			2	4	B0-B872 (A)
M06	H3200L0050	Screw	2	2	2	2	
M07	H801045200	Vibration preventing rubber	4	4	4	4	GB/T99 4.5×20
M08	H4700K0020	Vibration preventing rubber	2	2	2	2	
M09	H4700K0030	Vibration preventing rubber	2	2	2	2	
M10	HA100J2110	Oiler	1	1	1	1	
M11	HA100J2140	Screw driver (middle)	1	1	1	1	
M12	HA100J2150	Screw driver (small)	1	1	1	1	
M13	H3207L0065	Thread a needle kit	1	1	1	1	
M14	HA704S0654	Adjusting plate for speed command disk			1	1	
M15	H409030060	Screw			1	1	GB/T818 M3×6
M16	H4907N8001	Thread guide			1	1	
M17	H3200L0130	Oil can	1	1	1	1	
M18	H3200L0120	Cotton stand	1	1	1	1	
M19	H3300L0040	Bobbin winder	1	1	1	1	灰色
M20	H2008O0068	Belt cover			1	1	
M21	HA300C2170	Screw			2	2	SM11/64(40)×8
M22	HA300J2280	Screw	2	2	2	2	SM11/64(28)×8
M23	HA300J2250	Screw			1	1	M4×8
M24	H2405B6601	Belt cover complete	1	1			
M24	H4953N7101	Belt cover complete			1	1	
M25	H003008040	Nut			1	1	GB/T6172.1 M4
M26	HA305J0665	Belt cover	1	1	1	1	
M27	HA100J2120	Magnet block for reservoir	1	1	1	1	
M28	HA307J0067	Hinge complete	2	2	2	2	
M29	HA300J2070	Screw driver (large)	1	1	1	1	
M30	H3214L0067	Small parts	1	1	1	1	
M31	H3214L2011	Knee lifter pin	1	1	1	1	
M32	H3213L0662	Knee lift shaft	1	1	1	1	
M33	HA104J0657	Spring	1	1	1	1	
M34	HA106J0664	Bolt	1	1	1	1	
M35	HA104J6510	Nut	2	2	2	2	
M36	HA104J0659	Screw	2	2	2	2	
M37	H3213L0664	Knee lifter crank	1	1	1	1	
M38	H007013090	E-type stop ring	1	1	1	1	GB/T896 9
M39	HA104J0653	Washer	1	1	1	1	
M40	HA104J0652	Screw	1	1	1	1	
M41	H3213L0661	Oil reservoir	1	1	1	1	

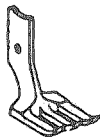
M. ACCESSORIES



M.ACCESSORIES

Fig. No.	Part No.	Name	GF-130-443 H	GF-230-443 MH	GF-130-446 H	GF-230-446 MH	Description
M42	HA100J2180	Vinyl cover	1	1	1	1	
M43	H3218L0681	Felt	1	1	1	1	

Gauge Parts List

							
Gauge Size	Needle Plate	Presser Foot (Inside)	Presser Foot	Needle Clamp	Feed Dog	Slide Plate(L)	Slide Plate(R)
GF-230-443 MH							
1/8 (3.2mm)	H4737B8001	H4741F8001	H4758E8001	H4750F8001	H4745H8001	H4732B8001	H4733B8001
5/32 (4mm)	H4738B8001	H4742F8001	H4759E8001	H4751F8001	H4746H8001	H4732B8001	H4733B8001
3/16 (4.8mm)	H4739B8001	H4743F8001	H4760E8001	H4752F8001	H4747H8001	H4732B8001	H4733B8001
1/4 (6.4mm)	H4734B8001	H4737F8001	H4757E8001	H4739F8001	H4744H8001	H4732B8001	H4733B8001
5/16 (8mm)	H4740B8001	H4744F8001	H4761E8001	H4753F8001	H4748H8001	H4746B8001	H4733B8001
3/8 (9.5mm)	H4741B8001	H4745F8001	H4762E8001	H4754F8001	H4749H8001	H4746B8001	H4733B8001
1/2 (12.7mm)	H4742B8001	H4746F8001	H4763E8001	H4755F8001	H4750H8001	H4747B8001	H4750B8001
5/8 (16mm)	H4743B8001	H4747F8001	H4764E8001	H4756F8001	H4751H8001	H4747B8001	H4750B8001
3/4 (19mm)	H4744B8001	H4748F8001	H4765E8001	H4757F8001	H4752H8001	H4748B8001	H4750B8001
1 (25.4mm)	H4745B8001	H4749F8001	H4766E8001	H4758F8001	H4753H8001	H4749B8001	H4750B8001
GF-230-446 MH							
1/8 (3.2mm)	H4937B8001	H4741F8001	H4758E8001	H4750F8001	H4945H8001	H4732B8001	H4733B8001
5/32 (4mm)	H4938B8001	H4742F8001	H4759E8001	H4751F8001	H4946H8001	H4732B8001	H4733B8001
3/16 (4.8mm)	H4939B8001	H4743F8001	H4760E8001	H4752F8001	H4947H8001	H4732B8001	H4733B8001
1/4 (6.4mm)	H4917B8001	H4737F8001	H4757E8001	H4739F8001	H4944H8001	H4732B8001	H4733B8001
5/16 (8mm)	H4940B8001	H4744F8001	H4761E8001	H4753F8001	H4948H8001	H4746B8001	H4733B8001
3/8 (9.5mm)	H4941B8001	H4745F8001	H4762E8001	H4754F8001	H4949H8001	H4746B8001	H4733B8001
1/2 (12.7mm)	H4942B8001	H4746F8001	H4763E8001	H4755F8001	H4950H8001	H4747B8001	H4733B8001
5/8 (16mm)	H4943B8001	H4747F8001	H4764E8001	H4756F8001	H4951H8001	H4747B8001	H4733B8001
3/4 (19mm)	H4944B8001	H4748F8001	H4765E8001	H4757F8001	H4952H8001	H4748B8001	H4750B8001
1 (25.4mm)	H4945B8001	H4749F8001	H4766E8001	H4758F8001	H4953H8001	H4749B8001	H4750B8001
GF-130-443 H							
	H4814B8001	H4807F8001	H3100G2110		H4807H8001	H4812B8001	H4813B8001
GF-130-446 H							
	H5014B8001	H4807F8001	H3100G2110		H5004H8001	H4812B8001	H4813B8001

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