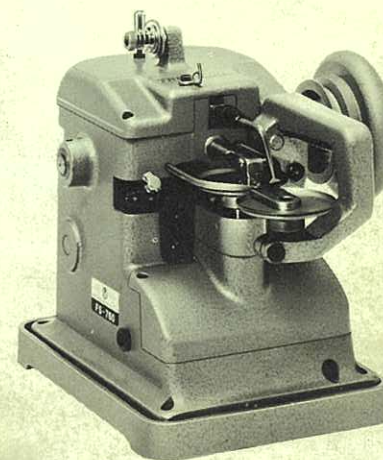

TREASURE[®]

DISC FEED OVERSEAMING MACHINES

MODEL **FS-760** SERIES

〈INSTRUCTION MANUAL〉



NARA SEWING MACHINE INDUSTRIAL CO., LTD.

TOKYO JAPAN

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Specifications:

Models	FS-760	FS-761	FS-762	FS-762H	FS-763	FS-764	FS-765
Used for	Furs (Mink)	Leather Gloves	Heavy Weight Skins	Extremely Heavy Furs	Fully Fashioned Knitwear	Diving Suits	Stuffed Toys & Pillows
Stitch Spec.	Single Needle · Single Thread · Chainstitch						
Feed Mechanism	Gear Feeder		Roller Feeder				
Speed	Max. 2,200s. p.m.	Max. 2,000s. p.m.		Max. 1,800s. p.m.		Max. 2,000s. p.m.	
Needle Bar Stroke	22m/m	25m/m					
Stitch Length	Max. 3m/m	Max. 5 m/m					
Seam Width	Max. 2m/m	Max. 2.5m/m	Max. 3.5m/m	Max. 5m/m	Max. 3m/m	Max. 3.5m/m	Max. 3m/m
Arm Length	110m/m			150m/m			
Needle	ORGAN A1 × 1 TORRINGTON 176 × 1	ORGAN DC × 3 or TORRINGTON 81 × 3					
Motor	200W · Single or Three Phases · 4 Poles · Clutch Motor						

Models	FS-771	FS-772	FS-773	FS-775
Used for	Leather Gloves	Heavy Weight Skins	Fully Fashioned Knitwear	Stuffed Toys & Pillows
Stitch Spec.	Single Needle · Two Thread · Chainstitch			
Feed Mechanism	Gear Feeder	Toller Feeder		
Speed	Max. 2,000s.p.m.		Max. 1,800s.p.m.	Max. 2,000s.p.m.
Needle Bar Stroke	25m/m			
Stitch Length	Max. 5m/m			
Seam Width	Max. 2.5m/m	Max. 3.5m/m	Max. 3m/m	
Arm Length	110m/m		150m/m	
Needle	ORGAN DC× 3 or TORRINGTON 81× 3			
Motor	200W · Single or Three Phases · 4 Poles · Clutch motor			

1. Setting up Machine

Place machine on sewing table and line up belt groove in belt wheel with belt groove in motor pulley.

Then, loosen 4 base screws No. 7092 and remove machine head. Now fasten base plate firmly to sewing table with 4 wood screws.

Fasten oil pipe and bottle No. 7104 & 7254 to the oil drainage hole in base plate from underside of sewing table.

Hook feed disc opening chain into the hole in the end of pressure lever No. 7031 with "S" ring and pass the other end of chain down through the chain hole in the center of base plate.

Now place machine on base plate and tighten 4 base screws.

Cut the end of chain which is suspended from base plate in suitable length to treadle lever No. 7228 and hook it into the internal hole of treadle lever with "S" ring.

Hook the end of the rest chain into the outer hole of treadle lever and the other end of chain into the hole of treadle No. 7257 with "S" ring.

2. Threading the Machine

A. Single Thread (Fig.1) = Needle Thread

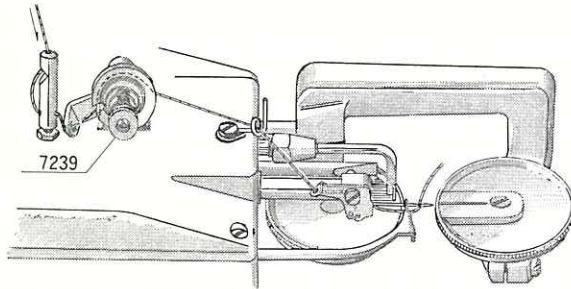
See threading chart Fig. 1. Take thread from spool on cotton stand, through thread guide stud No. 5155-A and thread tension guide No. 7081 (4127-A), forward and over between the tension discs No. 7237 (5190), through front thread guide No. 7073, down and through the hole in the needle bar tension plate No. 7047.

Now turn the machine pulley until the needle bar tension plunger No. 7098 opens, and open front feed disc, pass thread under the needle and back under the needle bar into thread slot in the needle bar tension plate.

Loop thread over tension plunger No. 7098 draw forward, close up under the needle bar and into hole in the tension plate through which the needle protrudes.

Now, from the underside, pass the thread up through the needle eye.

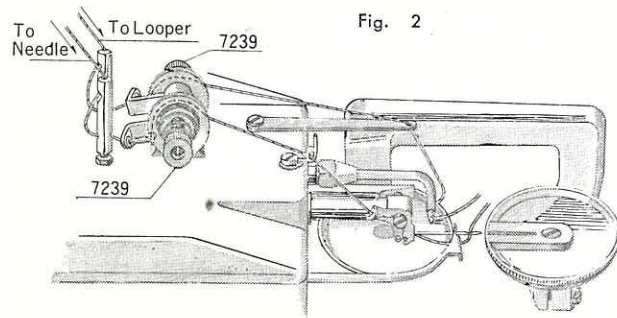
Fig. 1



B. Two Thread (Fig.2) = Looper Thread

See threading chart Fig. 2. Take thread from spool on cotton stand, through thread guide stud No. 5155-A and thread tension guide No. 7081, forward and over between the tension discs No. 7237, through thread guide plate No. 7222. Turn the machine pulley until looper is at the highest position.

Now, from the righthand side pass thread through the looper eye.



3. Thread Tension

A. On the needle thread (Fig.1)

The tension on the needle thread is regulated by turning thread tension nut No. 7239 (81) at the left of thread tension.

To increase thread tension, turn the tension nut toward you (clockwise).

To decrease the tension, turn the tension nut away from you (counter-clockwise).

B. On the looper thread (Fig.2)

The tension on the looper thread is regulated by turning thread tension nut No. 7239 at the right of thread tension.

To increase thread tension, turn the tension nut away from you (counter-clockwise).

To decrease the tension, turn the tension nut toward you (clockwise).

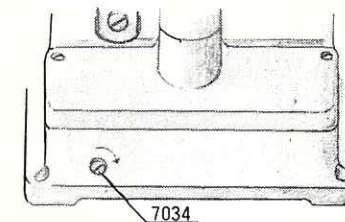
Note : In the case of two thread, we suggest you to make looper thread rather loose and needle thread rather tight.

4. Regulating the Pressure of the Feed Discs

A. On model FS-760, 761, 771 (Fig.3)

The Pressure between the feed discs may be increased by turning pressure lever adjusting screw No. 7034 to the right, or decreased by turning this screw to the left.

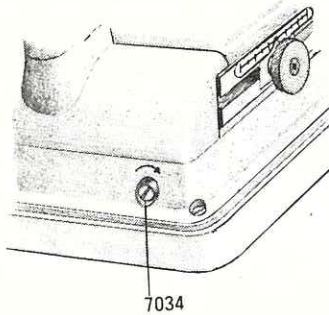
Fig. 3



B. On model FS-762, 762H, 763, 764, 765, 772, 773, 775 (Fig.4)

The pressure between the feed discs may be increased by turning pressure lever adjusting screw No. 7034 to the right, or decreased by turning this screw to the left.

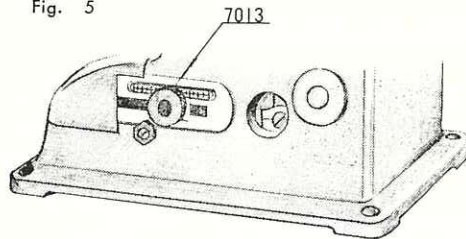
Fig. 4



5. Changing the Stitch Length (Fig.5)

Loosen the stitch regulating stud nut No. 7013 on the right lower side of the machine and move it forward (toward you) for a shorter stitch, or backward (away from you) for a longer stitch. Then, tighten this nut firmly.

Fig. 5



6. Replacing the Needle (Fig.6)

Turn the belt wheel until the looper swings out of the way and open the feed discs.

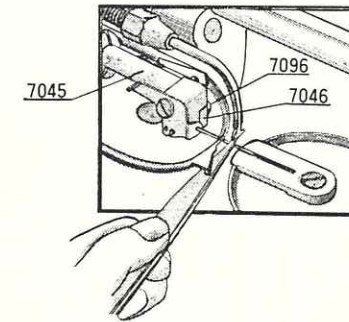
With tweezers, hold the needle with short groove up, place it into the needle groove in the needle bar slot where the needle clamp No. 7046-A hold it and push it back as far as it will go.

Tighten the needle clamp screw No. 7096.

Never release needle clamp more than is necessary to free the needle and before inserting the needle, make sure there is no piece of a broken needle left in the groove.

Class	System	Size
FS-760	AI × 1	# 9, 11
FS-761, 771	DC × 3	# 9, 11, 14
FS-762, 762H, 764 765, 772, 775	DC × 3	# 11, 14, 16
FS-763, 773	DC × 3	# 14, 16, 18

Fig. 6

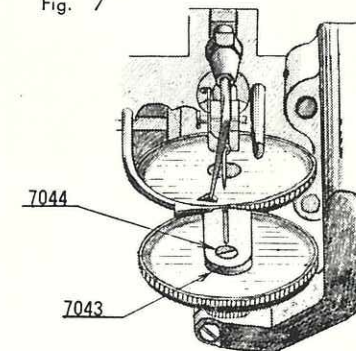


7. Keep Machines Clean (Fig. 7)

To get the best results, every Treasure Disc Feed Overseaming Machine should be cleaned everyday while in active service.

Allowing the machine to accumulate dust, dirt and loose hair will greatly impair its efficiency.

Fig. 7



If keep clean, the machine will not only do better work but will operate much longer and at less expense for repairs.

Take out the needle guide screw No. 7044, remove the needle guard No. 7043 (except Model FS-763, 764, 773) and remove any foreign matter which may have accumulated beneath needle guard.

When replacing needle guard, make sure that needle guard is set to insure that the needle centers in the needle groove in this guide, then firmly tighten the needle guide screw.