



FORM: SM0088-03EI
DATE: MAY 15, 1978

SPRING MOTOR MD: SERIES #43912 & #44567

CAUTION: All springs are potentially dangerous and must be handled with care. If it is necessary to disassemble the spring motor, follow the instructions carefully.

NOTE: These spring motors contain from 2 to 10 springs. If one of them has broken due to fatigue, it is recommended that all of the springs be replaced to avoid excessive down time as each of the old springs break.

Remove all spring tension before attempting to open or remove the spring motor from the reel. Ref. Instruction Sheet SM3310-02GH.

SPRING REPLACEMENT (Refer to parts drawing on next page).

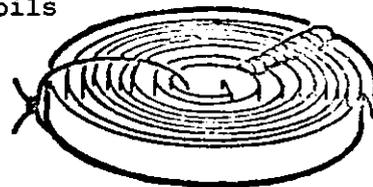
- A. Remove spring motor from reel and place it on end with the shaft pointing up.
- B. Remove the six tie bolts (Item JG-16) which hold the two end plates together.
- C. Remove the front end plate (Item JG-15) and the cylindrical housing (Item JG-10) exposing the spring and cup assemblies.
- D. Remove the shaft (Item JG-12) and fixed hub (Item JG-11) by pulling upward on the shaft.

CAUTION: Hold the center of the spring down as the hub is pulled out. If the center is allowed to raise up, the spring may escape from it's container with enough force to cause injuries.

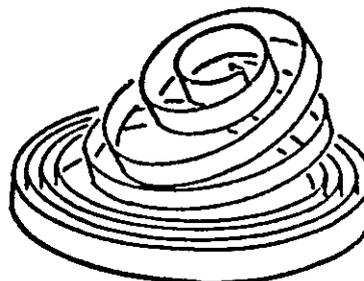
- E. Each of the spring assemblies can now be removed in their cup shaped containers. DO NOT remove the spring from these containers. When removing the rotating hubs (Item JG-9) caution must be exercised as in "D" above.
- F. When disposing of old or broken spring assemblies, the coils should be welded or wired securely together to prevent possible injury to scrap handling personnel.
- G. Replace the broken spring assembly and reassemble the spring motor in reverse order.

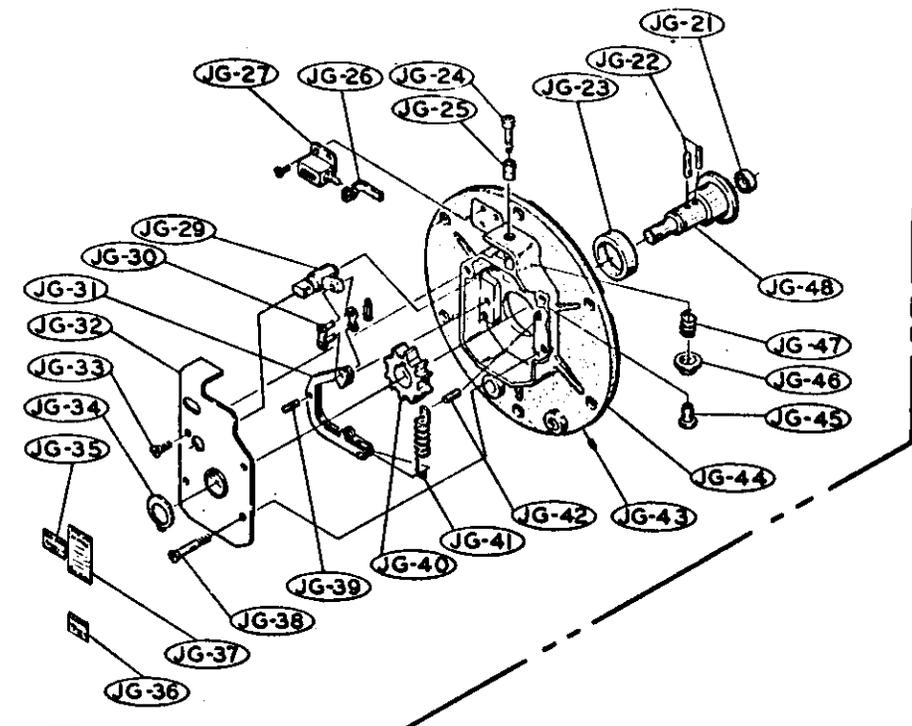
When replacing the spring assemblies make sure that the square projection, on the end of the spring hub below, is properly engaged in the opening in the spring cup. Refer to the parts drawing for part sequence and location.

- H. Lubrication - The springs and bearings have been sufficiently lubricated at the factory to last for the normal life of the motor. If the grease has been removed during maintenance it should be replaced with a good quality high-low temp. grease (Texaco AFB 2 or equal). The bearings should be packed and the springs should have enough grease in the cup to thoroughly coat the entire spring as it works in during use.

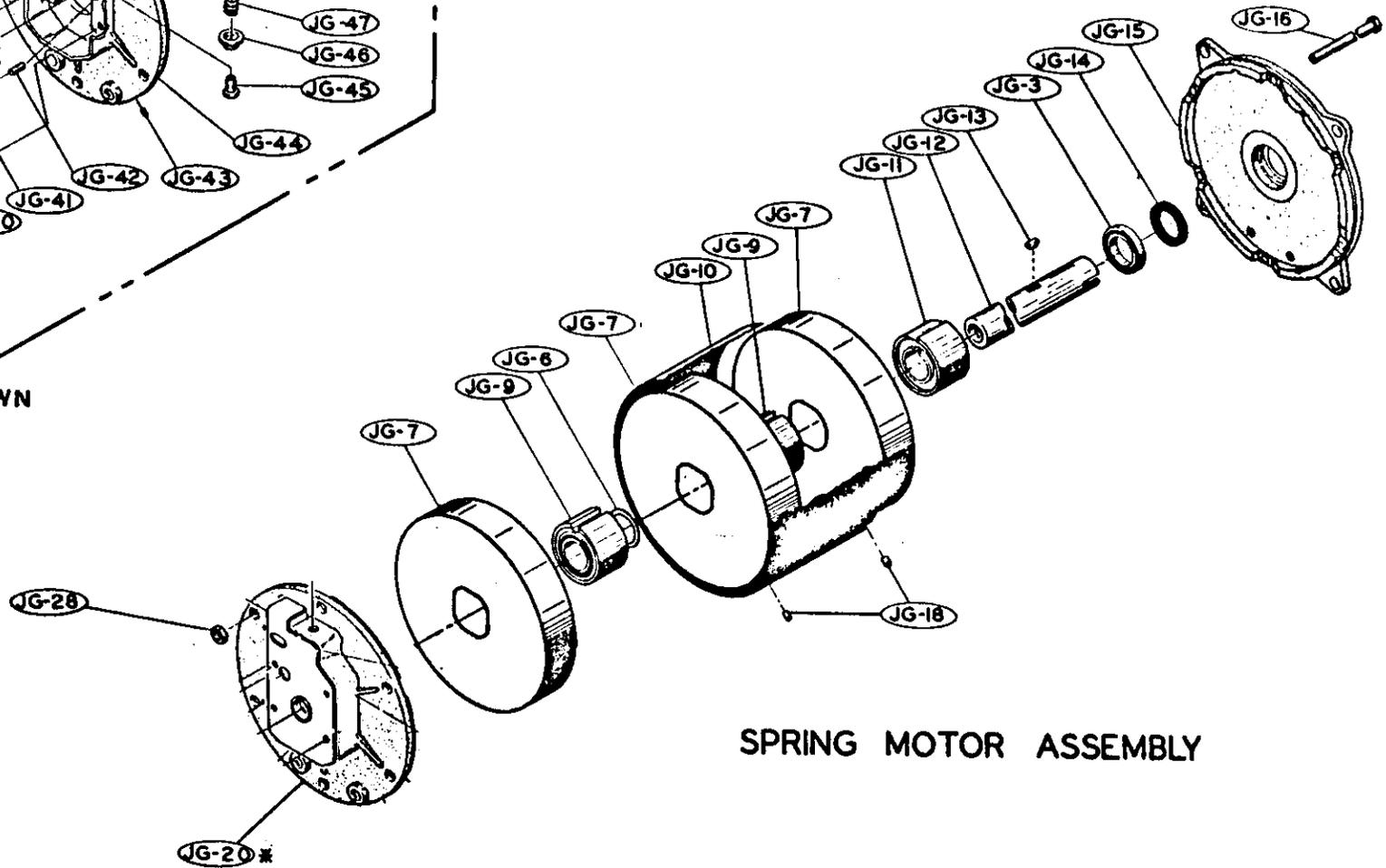


CAUTION: DO NOT ALLOW THE CENTER OF A SPRING TO BE PULLED FROM THE COIL.





END PLATE BREAKDOWN



SPRING MOTOR ASSEMBLY

* COMPLETE ASS'Y INCLUDES
ITEMS * 21-48



PARTS LIST: SPRING MOTOR

MD SERIES #43912 & #44567

ITEM NO.	QTY.	DESCRIPTION	ITEM NO.	QTY.	DESCRIPTION
JG-3	1	*Bearing	JG-28	6	Nut, Hex (5/16-18)
JG-6	8	Spacer	JG-29	1	Ratchet, Shaft
JG-7	A/R	*Spring & Spring Cup	JG-30	1	Connecting Link
JG-9	A/R	*Rotating Hub & Bearing Ass'y.	JG-31	1	Pawl Ass'y.
JG-10	1	Band Ass'y.	JG-32	1	Cover Ass'y.
JG-11	1	Fixed Hub	JG-33	2	Screw, Flat Hd.
JG-12	1	Main Shaft	JG-34	1	Retaining Ring
JG-13	1	Woodruff Key	JG-35	1	Name Plate Increase Tension
JG-14	1	Felt Washer (#43912 only)	JG-36	1	Name Plate
JG-15	1	Front Plate	JG-37	1	Name Plate
JG-16	6	Tie Bolt	JG-38	2	Screw, Flat Hd.
JG-17			JG-39	1	Dowel Pin (.1/4 x 1 1/2)
JG-18	2	Drive Pin (.094 Dia. x .375 LG.)	JG-40	1	Ratchet Wheel
JG-20	1	End Plate Ass'y. Complete	JG-41	1	Spring Extension
JG-21	1	Bearing	JG-42	1	Pin Drive (.187 Dia. x 1.750 L
JG-22	2	Dowel Pin	JG-43	1	Pin Drive (.094 Dia. x .375 LG
JG-23	1	*Bearing	JG-44	1	End Plate
JG-24	1	Screw, Soc. Hd. (1/4-20 x 1 1/4)	JG-45	1	Plunger Counter
JG-25	1	Sleeve Plunger	JG-46	1	Washer
JG-26	1	Counter Lever	JG-47	1	Spring - Compression
JG-27	1	Counter	JG-48	1	Shaft Rewind

*Recommended Spare Parts

Ref: Spring Motor #JG-7 on SM3310-02
Spring Motor #JG-1 on SM3340-02

WHEN ORDERING PARTS ALWAYS INCLUDE THE MODEL NUMBER & SERIAL NUMBER.

PARTS PRICE SHEET SM1710-01-P
DATED January 20, 1978

SPRING MOTOR No. 43912-

SUPERSEDES ALL PREVIOUS SHEETS

NOTE: WHEN ORDERING PARTS MODEL NUMBER AND SERIAL NUMBER MUST BE
SPECIFIED. -XXXXMD

<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
JG-3	40005	1	Bearing
JG-6	40119	AR	Spacer
JG-7+	43782-105	AR	Spring & Cup Assembly
JG-9	59744-1	AR	(Std.) Rotating Hub
	59744-2		(Rev.) Rotating Hub
JG-10	43745-AR	1	Band Assembly
JG-11	40185-1	1	Fixed Hub
JG-12	43704-AR	1	Main Shaft
JG-13	751-P-11	1	Key 1/4 X 3/4
JG-14	40829	1	Seal
JG-15	43759-1	1	Front Plate
JG-16	44894-AR	6	Tie Bolt
JG-18	230-P-105	2	Pin
JG-20	57901	1	(Std.) End Plate Assembly
	57920	1	(Rev.) End Plate Assembly
JG-21	376-P-90	1	Bearing
JG-22	57919	2	Dowel Pin
JG-23	43716	1	Bearing
JG-24	29-P-126	1	Screw 1/4-20 X 1 1/4
JG-25	57926	1	Sleeve Plunger
JG-26	57918	1	Arm & Counter Assembly
JG-27	979-P-6	1	Counter
JG-28	77-P-1	6	Nut
JG-29	57910	1	Ratchet Shaft
JG-30	381-P-6	1	Conn. Link
JG-31	227-P-10	1	Dowel Pin 1/4 X 1 1/2
JG-32	57909-1	1	Cover Assembly
JG-33	1-P-173	2	Flat Head Screw
JG-34	576-P-50	1	Retaining Ring
JG-35	57930	1	Tension Decal, Decrease
JG-36	57929	1	Tension Decal, Increase
JG-37	57928	1	Name Plate
JG-38	1-P-174	2	Flat Head Screw
JG-39	227-P-10	1	Dowel Pin 1/4 X 1 1/2
JG-40	57931	1	Ratchet Wheel

40744-1 Reverse Rotation Hub

<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
JG-41	601-P-3	1	Spring Extension
JG-42	230-P-139	1	Dowel Pin .187 X 1.75
JG-43	230-P-105	1	Dowel Pin
JG-44	57911	1	End Plate
JG-45	57925	1	Plunger Counter
JG-46	57924	1	Washer
JG-47	600-P-5	1	Compression Spring
JG-48	57903	1	Rewind Shaft

* Available Upon Request
+ Recommended Spare Parts