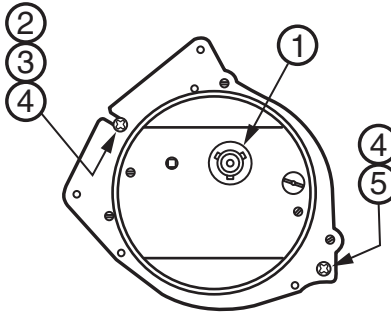


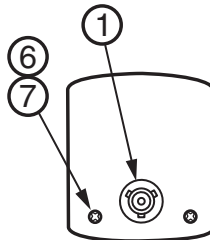
Chart Drives

MOUNTING PARTS FOR RECTANGULAR CASE CHART DRIVES MECHANICAL [SONCEBOZ] (Figure 1)



Item	Part No.	Qty.	Part Name
1	M0103AA	1	Chart Hub Assembly
—	M0103AE	1	Chart Hub Screw
2	M0146AZ	1	Eccentric Post Assembly
3	0044567	1	Locknut
4	X0127DC	2	Screw, Pan H., 0.190-32 x 0.312
5	M0146BC	1	Column

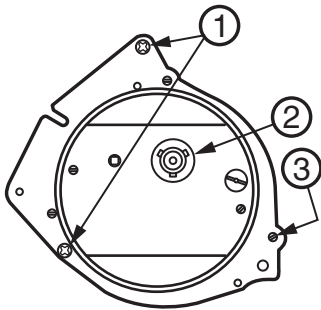
MOUNTING PARTS FOR RECTANGULAR CASE CHART DRIVES ELECTRIC [SYNCHRON] (Figure 2)



Item	Part No.	Qty	Part Name
1	M0103AA	1	Chart Hub Assembly
—	M0103AE	1	Chart Hub Screw
6	0040383	2	Screw, Pan H., 0.164-32 x 0.250
7	M0130PL	2	Column

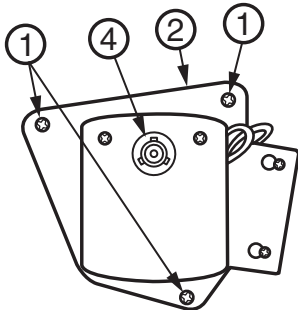
TO ORDER PARTS, CALL INVENSYS SYSTEMS INC. AT 1-866-746-6477.

MOUNTING PARTS FOR CIRCULAR CASE CHART DRIVES
MECHANICAL [SONCEBOZ] (Figure 3)



Item	Part No.	Qty.	Part Name
1	0010441	2	Screw, R. H., 0.125-40 x 0.250
2	M0103AA	1	Chart Hub Assembly
–	M0103AE	1	Chart Hub Screw
3	0005137	1	Screw, R. H., 0.125-40 x 0.187
–	0035932	3	Column (deep case)

MOUNTING PARTS FOR CIRCULAR CASE CHART DRIVES
ELECTRIC [SYNCHRON] (Figure 4)



Item	Part No.	Qty.	Part Name
1	0010441	3	Screw, R. H., 0.125-40 x 0.250
2	M0103AA	2	Chart Hub Assembly
–	M0103AE	1	Chart Hub Screw
3	0005137	1	Screw, R. H., 0.125-40 x 0.187
4	M0154CN	1	Mounting Set Assembly
–	0035932	3	Column (deep case)

Table 1. Sonceboz Mechanical Chart Drives

Part No.	Rotation	Wind	Features
M0152KP	24 hr/7 day	up to 9 day	two-speed

Table 2. Mechanical Chart Dive Lubricants (1 oz Bottles)

Chart Drive Manufacturer	Recommended Oil	Temperature Range	Part No.
Sonceboz	SYNT-A-LUBE	–20 and +50°C (0 and 120°F)	F0109EH

Table 3. Mounting Columns

Part No.	Qty.	Description
M0146YY	3	Chart drive without adapter plate
M0127AR	3	Chart drive with adapter plate

Table 4. Winding Key

Part No.	Description
0034794	2.7 inch shank

Table 5. Sonceboz Corporation

Chart Drive (11 speed)	Part M0155PH
Test:	60-, 96-min
Standard:	12-hour, 1-, 2-, 7-, 8-, 14-, 16-, 31-, 32-day

SYNCHRON MOTOR (Figure 5)

Table 6. Electric Chart Drives

Synchron			
Rotation Period	Voltage and Frequency	Complete Chart Drive	Motor
1 Hour	115 V, 60 Hz	M0132PA	M0132MR
	230 V, 60 Hz	A063194	A063146
	115 V, 50 Hz	A063195	A063137
	230 V, 50 Hz	A063196	A063145
6 Hours	115 V, 60 Hz	M0132PE	M0132MT
	230 V, 60 Hz	A063201	M0132MW
	115 V, 50 Hz	A063202	M0132MX
	230 V, 50 Hz	A063203	M0132MY
8 Hours	115 V, 60 Hz	M0132PF	M0132MZ
	230 V, 60 Hz	A063204	A063142
	115 V, 50 Hz	A071189	—
	230 V, 50 Hz	A074920	A074921
12 Hours	115 V, 60 Hz	M0132PK	M0132MT
	230 V, 60 Hz	A063205	M0132MW
	115 V, 50 Hz	M0132PL	M0132MX
	230 V, 50 Hz	A063206	M0132MY
24 Hours	115 V, 60 Hz	M0132PN	M0132NC
	230 V, 60 Hz	M0132PP	M0132NE
	115 V, 50 Hz	M0132PR	M0132NF
	230 V, 50 Hz	M0132PS	M0132NK
7 Days	115 V, 60 Hz	M0132PY	M0132RF
	230 V, 60 Hz	M0132PZ	M0132RK
	115 V, 50 Hz	M0132RA	M0132RL
	230 V, 50 Hz	M0132RB	M0132RM

Other rotation periods, voltage, and frequencies available.

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