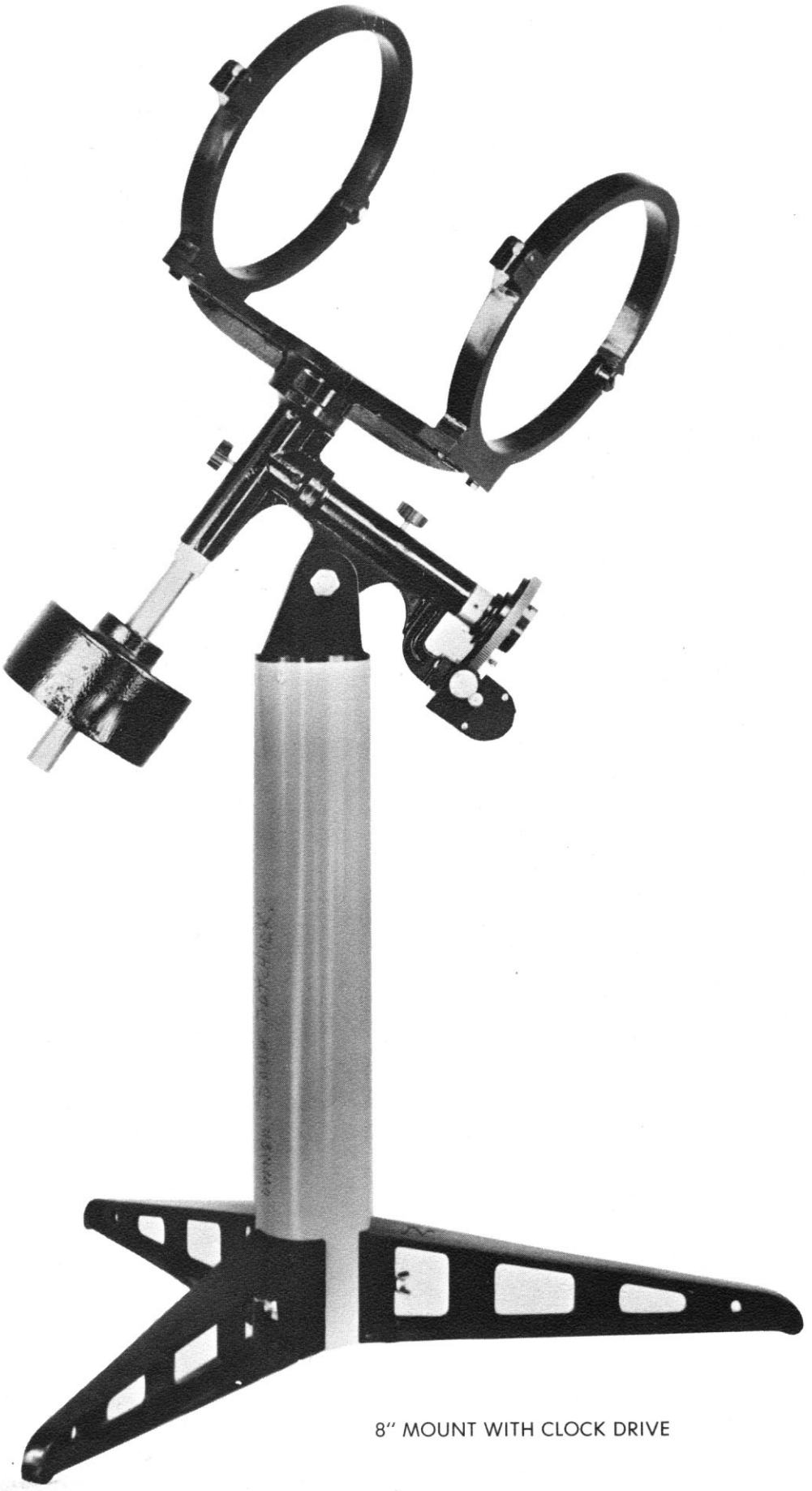
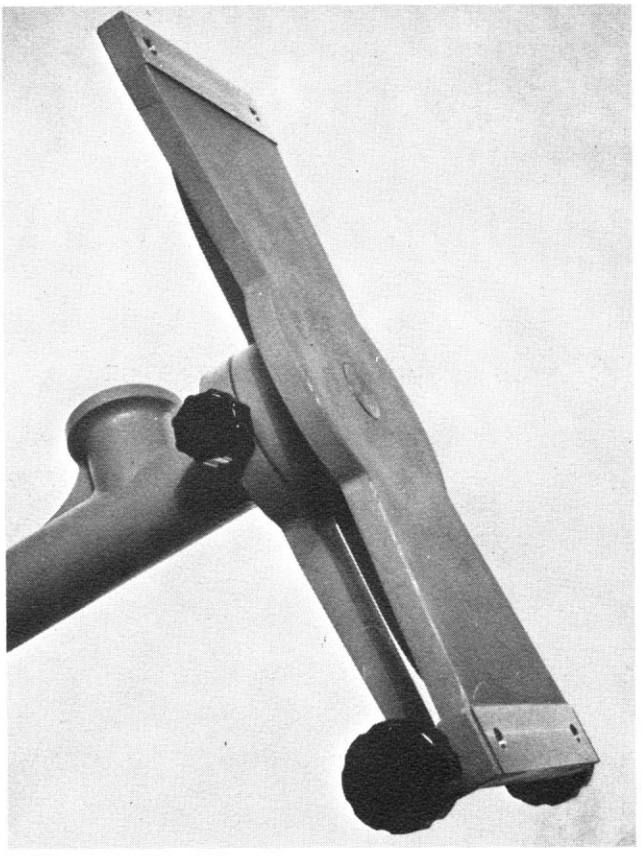
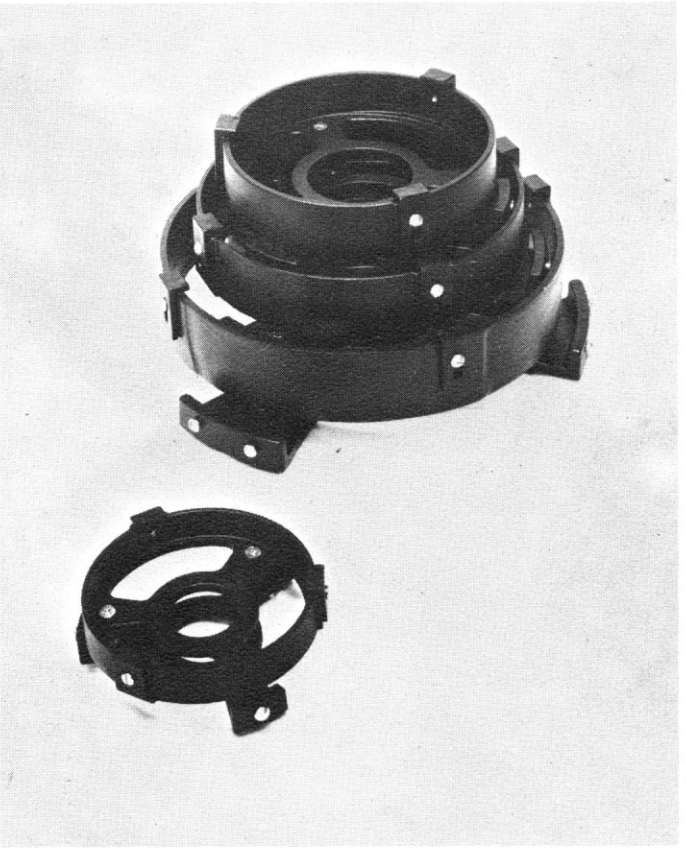
PACIFIC INSTRUMENTS



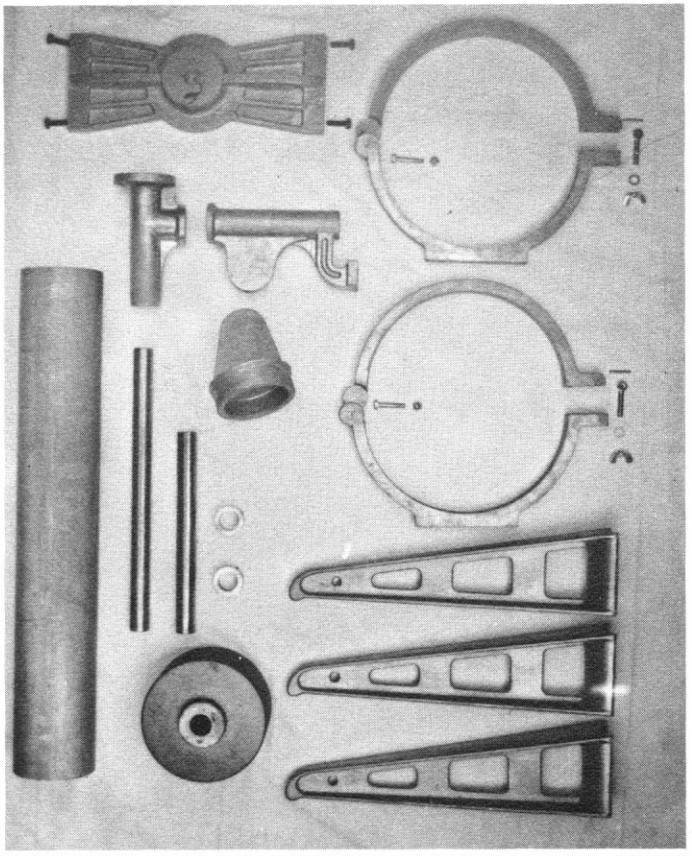
8" MOUNT WITH CLOCK DRIVE



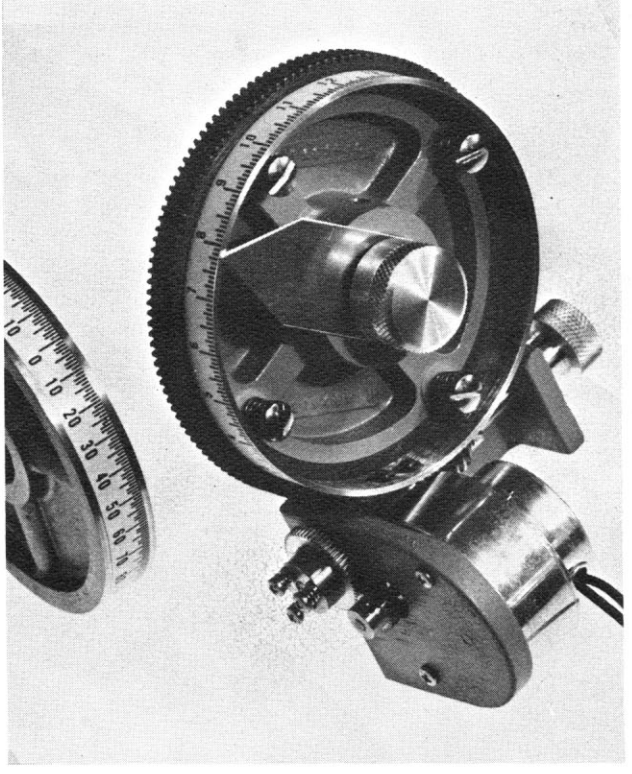
8" DEC. SLOW MOTION



6", 8", 10", 12 1/2" CELLS



8" MOUNT CASTINGS



4 1/4" CLOCK DRIVE, 3 1/2" CLUTCH
AUTOMATIC SETTING CIRCLES
R. A. SLOW MOTION OVERRIDE

Pacific Instruments

9766 LAUREL CANYON BLVD.
PACOIMA, CALIFORNIA 91331

OUR POLICY

To provide the highest quality as well as the best designed Telescope Parts, and complete Telescope Mounts at a moderate price.

To provide castings in rough condition for those who can finish their own products. Finished castings to those who do not have the facilities to do their own machining.

All Castings made of aluminum are 356 T6 alloy. This is the most durable and stable material for these superior castings.

New Items added to our line will be compatible to already existing parts and assemblies. This will allow installation of new items at a later date.

Mail Orders -- To keep the cost down and the quality high, we have no show room and deal only in mail order business.

No new product added to our line is ever sold until a series of proto type models are built and tested. Only after passing our most exacting standards and field tests do we offer these components to our valued customers.

The opportunity to serve you is our pleasure.

Robert R. Raehrs

TERMS

Complete name and address, clearly printed must appear on all correspondence.

Prepaid orders only are acceptable. Payment made by Post Office or Express Money Order, Cashier's or Certified Check, Bank Draft or Cash in Registered Letter is preferred. Personal Checks will be accepted only after your credit is established. No c.o.d. orders.

All prices listed in our catalog are net f.o.b. Van Nuys, California. The prices in this catalog cancel all previous lists. Prices, Specifications and Conditions of Sale are Subject to Change Without Notice.

Castings will be shipped unpainted. Railway Express, Collect. Do not send Express or Freight Charges with orders. Parcel Post orders should include postage for weight shown. A charge of $7.00 for Crating will be made for shipments over 40 lbs. All Castings sold unmachined will have all necessary blueprints, included free of charge.

California residents - add 5% State Sales Tax.

You may order with complete confidence, as we adhere to the usual mail order practices, such as your money back if not completely satisfied. We only ask that you return items immediately, pay the return postage and deliver goods to us in as good a condition as when sent. The only exceptions are in the case where we make or order goods especially for a customer, in which case they are not returnable for refund.

Setting Circles

Automatic Type Setting Circles

The Circles are 3.9" in diameter. These cylinder type Circles are easy to set and read. The Right Ascension Circle keeps accurate sideral time. The R. A. Circle is installed on the Clock Drive main gear. The Declination Circle is attached to a separate casting. All necessary hardware, R. A. and Dec. scales and pointers are included. Price: $24.00 ppd

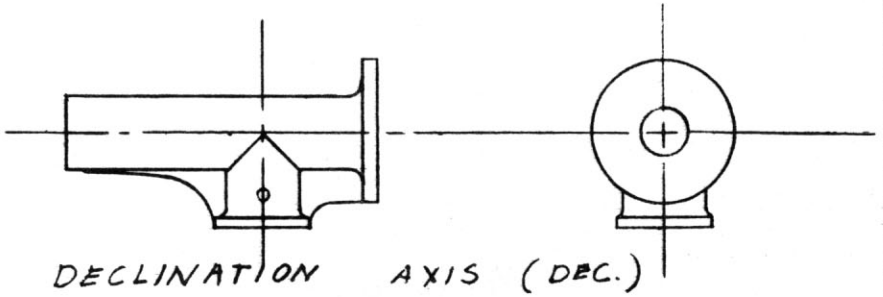
R. A. Circle Only

The Right Ascension Circle will be installed on a Pacific Instruments' 4.25" Clock Drive. Pointer and thumb screw included. Price: $15.00 ppd

Cradle

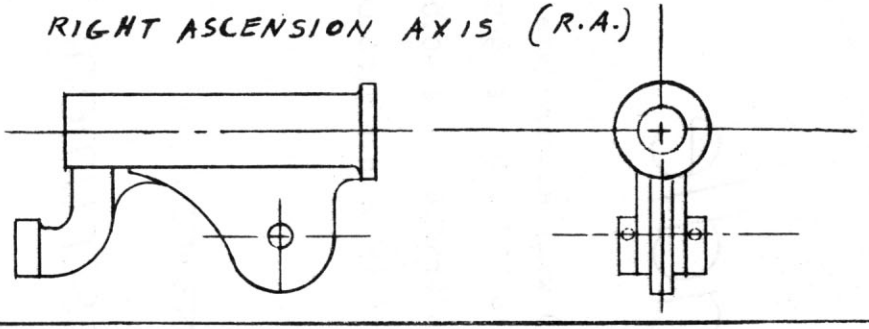
Our Cradle (replaces rings) will accommodate telescope tubes of 9 1/2" to 12" O.D.	$ 9.00	# 2½
Complete 8" Iron Mount with Cradle	$ 90.00	#92
Complete 8" Aluminum Mount with Cradle	$100.00	#70

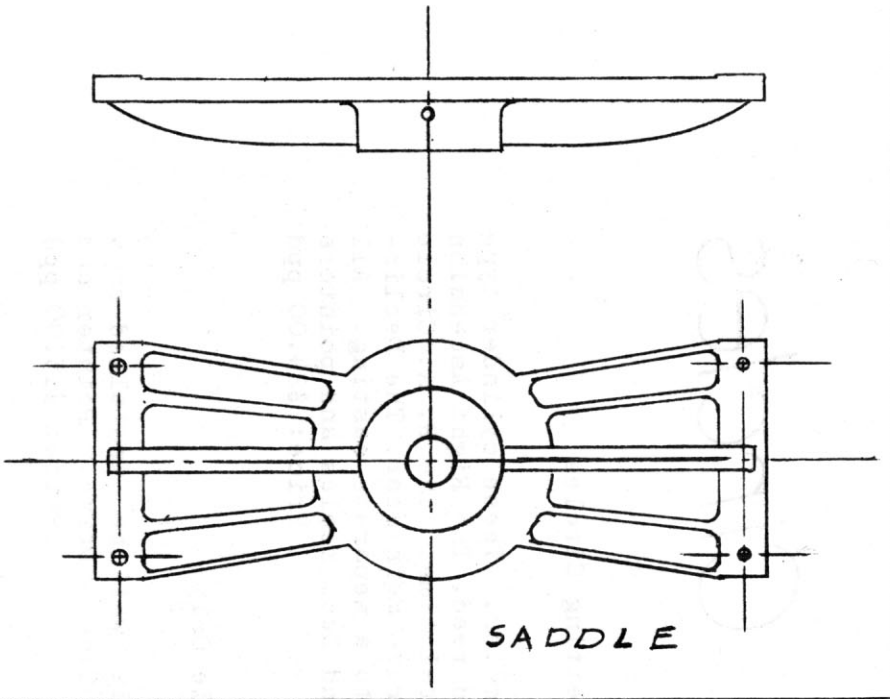
Pacific Instruments



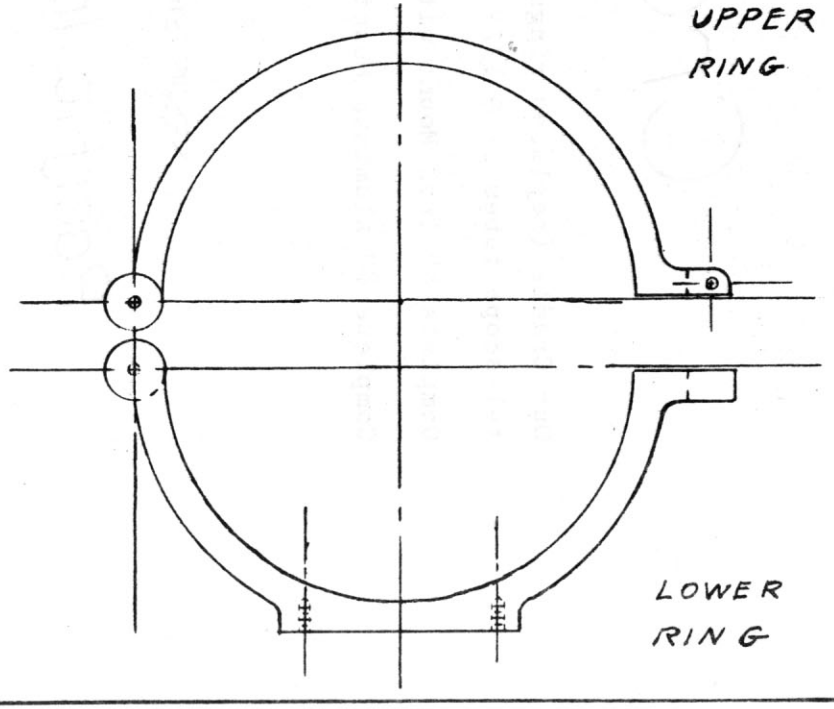
DECLINATION AXIS (DEC.)

RIGHT ASCENSION AXIS (R.A.)



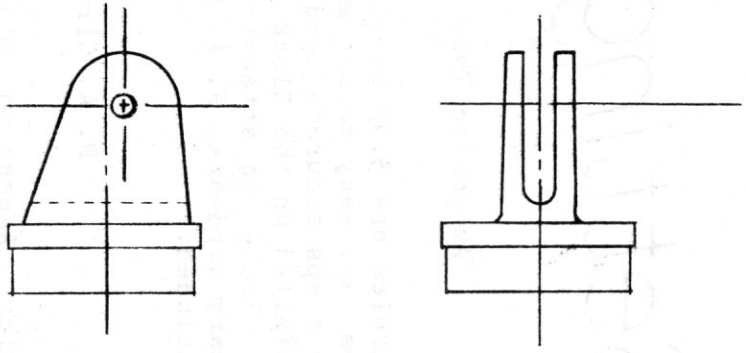


SADDLE



UPPER RING

LOWER RING



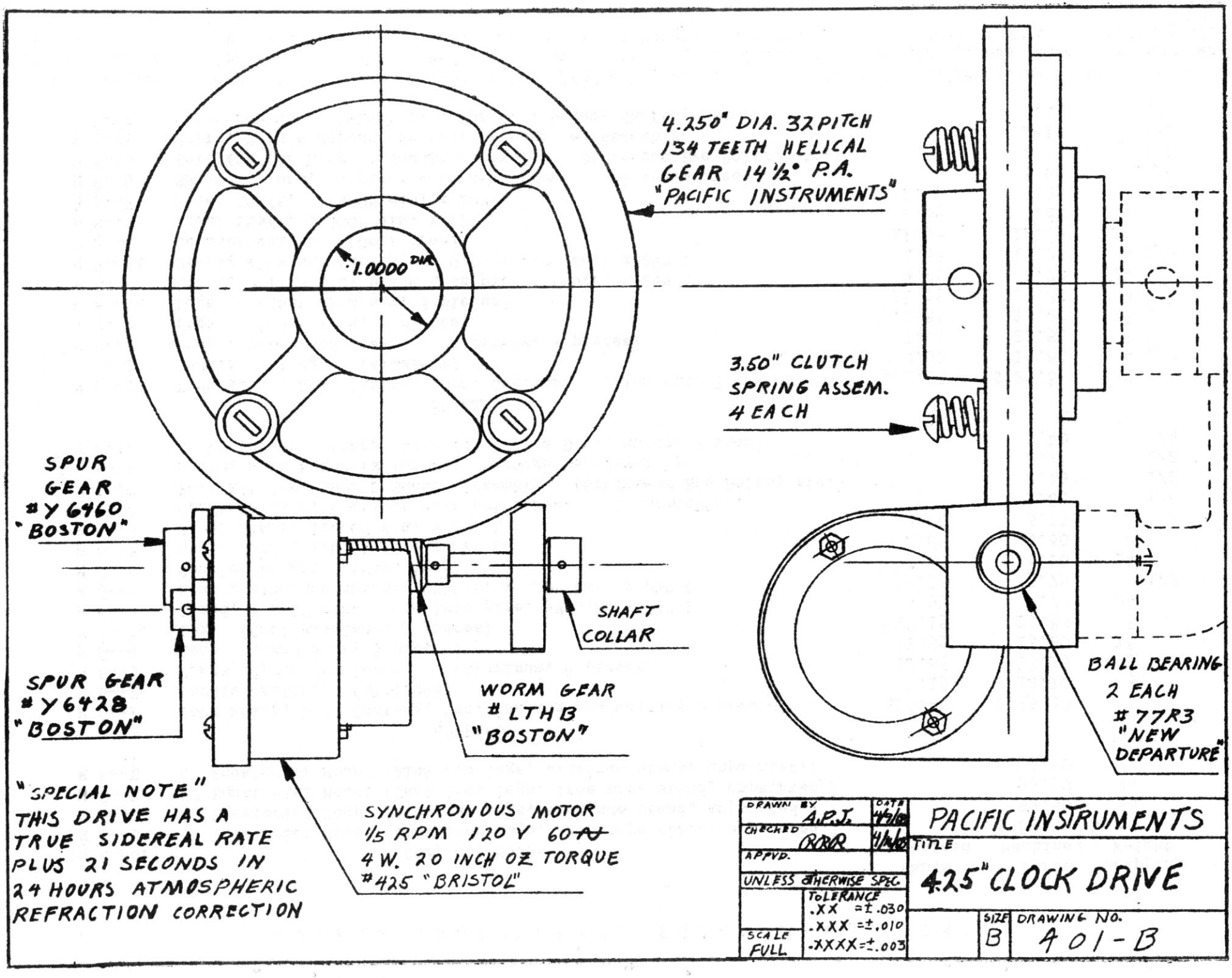
FORK MOUNT

DRAWN BY A.P.J.	DATE 4/4/65	PACIFIC INSTRUMENTS	
CHECKED RRR	4/10/65	TITLE 8" EQUATORIAL CAST.	
APPVD.			
UNLESS OTHERWISE SPEC. TOLERANCE .XX = ±.030 .XXX = ±.010 .XXXX = ±.003		SIZE B	DRAWING NO. 203
SCALE 1/4			

PACIFIC INSTRUMENTS EQUATORIAL MOUNTS

Part No.	Complete Mounts	Parts Unmachined	Parts Machined	Shipping Weight
M 6--B	6" Equatorial Mount (Cast iron legs, iron pipe stand, unpainted.)		$ 89.50	# 80
M 6--C	6" Equatorial Mount (Aluminum legs, aluminum stand, unpainted.)		99.50	58
M 8--D	8" Equatorial Mount (Cast iron legs, iron pipe stand, unpainted.)		99.50	94
M 8--E	8" Equatorial Mount (Aluminum legs, aluminum stand, unpainted.)		109.50	72
	6" Parts			
M 6--1	Fork Mount, R.A. Casting, Dec. Casting (Aluminum, 3 pieces)	$16.45	$ 25.30	5
M 6--2	Saddle Casting (Aluminum)	7.15	12.10	3
M 6--3	Rings, Upper and Lower. (Aluminum, 4 pieces)	12.65	18.15	5
M 6--4	Legs (Cast iron, 3 pieces)	11.55	13.20	18
M 6--4A	Legs (Cast aluminum, 3 pieces)	18.15	19.80	8
M 6--5	Stand, 3 1/2" dia. black iron pipe, 4" O.D. x 24" L	4.95	7.70	24
M 6--5A	Stand, aluminum tubing, 4" O.D. x .10" Wall x 24" L	11.55	13.75	4 1/2
M 6--6	Counter Weight (Cast iron)	7.70	8.80	14
M 6--7	Steel Shaft, 1.000" dia. x 17" L	2.65	3.80	4
M 6--8	Steel Shaft, 1.000" dia. x 10" L	2.00	3.25	2 1/2
M 6--9	Shaft Collars, complete with set screw. (2 assemblies)		1.65	1/4
M 6-10	Bolt Kit for Rings & Saddle Assembly (Stainless Eye Bolts, etc.)		2.15	1/2
M 6-11	Bolts, Nuts & Screws for Dec. through Leg assembly.		2.15	1/2
M 6-12	Brake Screws (Thumb type for R.A. & Dec. Shafts, 2 each)		1.40	1/4
	8" Parts			
M 8--1	Fork Mount, R.A. Casting, Dec. Casting (Aluminum, 3 pieces)	$17.55	$ 25.85	5
M 8--2	Saddle Casting (Aluminum)	9.90	14.85	4 1/2
M 8--3	Rings, Upper and Lower (Aluminum, 4 pieces)	17.05	22.55	6
M 8--4	Legs (Cast iron, 3 pieces)	11.55	13.20	18
M 8--4A	Legs (Cast aluminum, 3 pieces)	18.15	19.80	8
M 8--5	Stand, 3 1/2" dia. black iron pipe, 4" O.D. x 24" L	4.95	7.70	24
M 8--5A	Stand, aluminum tubing, 4" O.D. x .10" Wall x 24" L	11.55	13.75	4 1/2
M 8--6	Counter Weight (Cast iron)	11.55	12.65	25
M 8--7	Steel Shaft, 1.000" dia. x 17" L	2.65	3.80	4
M 8--8	Steel Shaft, 1.000" dia. x 10" L	2.00	3.25	2 1/2
M 8--9	Shaft Collars, complete with set screw. (2 assemblies)		1.65	1/4
M 8-10	Bolt Kit for Rings & Saddle Assembly. (Stainless Eye Bolts, etc.)		2.15	1/2
M 8-11	Bolts, Nuts & Screws for Dec. through Leg assembly.		2.15	1/2
M 8-12	Brake Screws (Thumb type for R.A. & Dec. Shafts, 2 each)		1.40	1/4

The 6" Rings will accommodate a telescope tube up to 7 3/8" O.D., while the 8" Rings will handle tubing up to 9 3/4" O.D. with 1/16" minimum allowance for a felt liner on the I.D. of the Rings. Items 4A and 5A are optional items for those who want the minimum weight possible and still maintain maximum strength and durability. A charge of $7.00 for crating will be made for shipments over 40 lbs.


4.250" DIA. 32 PITCH
134 TEETH HELICAL
GEAR 14½° P.A.
"PACIFIC INSTRUMENTS"
1.0000 DIA.
3.50" CLUTCH
SPRING ASSEM.
4 EACH
SPUR
GEAR
Y 6460
"BOSTON"
SHAFT
COLLAR
SPUR GEAR
Y 6428
"BOSTON"
WORM GEAR
LTHB
"BOSTON"
BALL BEARING
2 EACH
77R3
"NEW
DEPARTURE"
"SPECIAL NOTE"
THIS DRIVE HAS A
TRUE SIDEREAL RATE
PLUS 21 SECONDS IN
24 HOURS ATMOSPHERIC
REFRACTION CORRECTION
SYNCHRONOUS MOTOR
1/5 RPM 120 V 60 ~~A~~
4 W. 20 INCH OZ TORQUE
#425 "BRISTOL"
DRAWN BY A.P.J. DATE 4/5/62
CHECKED ORR 4/6/62
APPVD.
UNLESS OTHERWISE SPEC.
TOLERANCE
.XX = ±.030
.XXX = ±.010
.XXXX = ±.003
SCALE FULL
PACIFIC INSTRUMENTS
TITLE
4.25" CLOCK DRIVE
SIZE B
DRAWING NO. 401-B

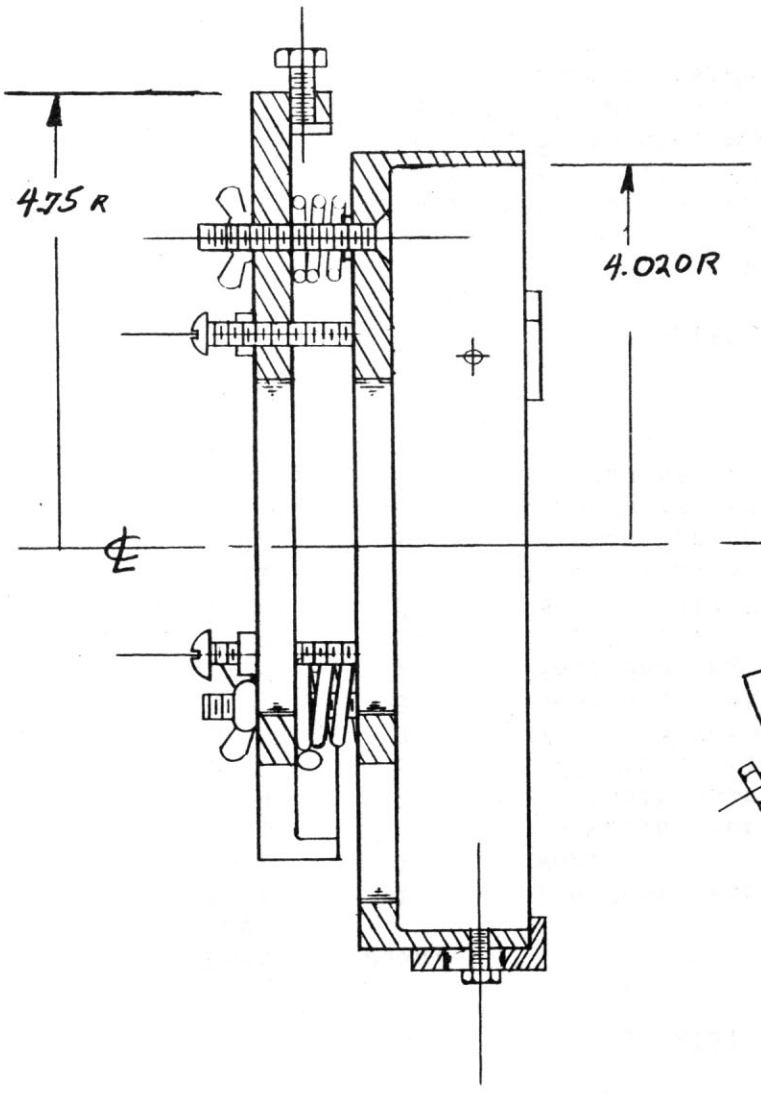
PRICE LIST FOR 4.25" CLOCK DRIVE

Part No.	Quan.	Item	Parts Unmachined	Parts Machined
D 1	1	134 Tooth Worm Gear	$	$16.50
D 2	1	Worm		4.25
D 3	1	28 Tooth Spur Gear		3.25
D 4	1	60 Tooth Spur Gear		4.10
D 5	1	1/5 RPM 4W 110V Motor		7.50
D 6	1	Worm and Motor Bracket	3.00	7.95
D 7	1	Gear and Clutch Hub	3.50	10.00
D 8	2	Ball Bearing (set of 2)		4.00
D 9	1	3/16" Dia. x 3 9/16" Stainless Shaft	.35	3.75
D 10	1	3/16" Shaft Collar	.10	1.25
D 11	1	3/16" I.D. x 1/8" Shaft Spacer	.10	.25
D 12	4	Clutch Springs (set of 4)	.05	1.20
D 13	4	Clutch Screws (set of 4)		.50
D 14	4	Clutch Washers (set of 4) (plastic)		.10
D 15	1	110V Plug		.35

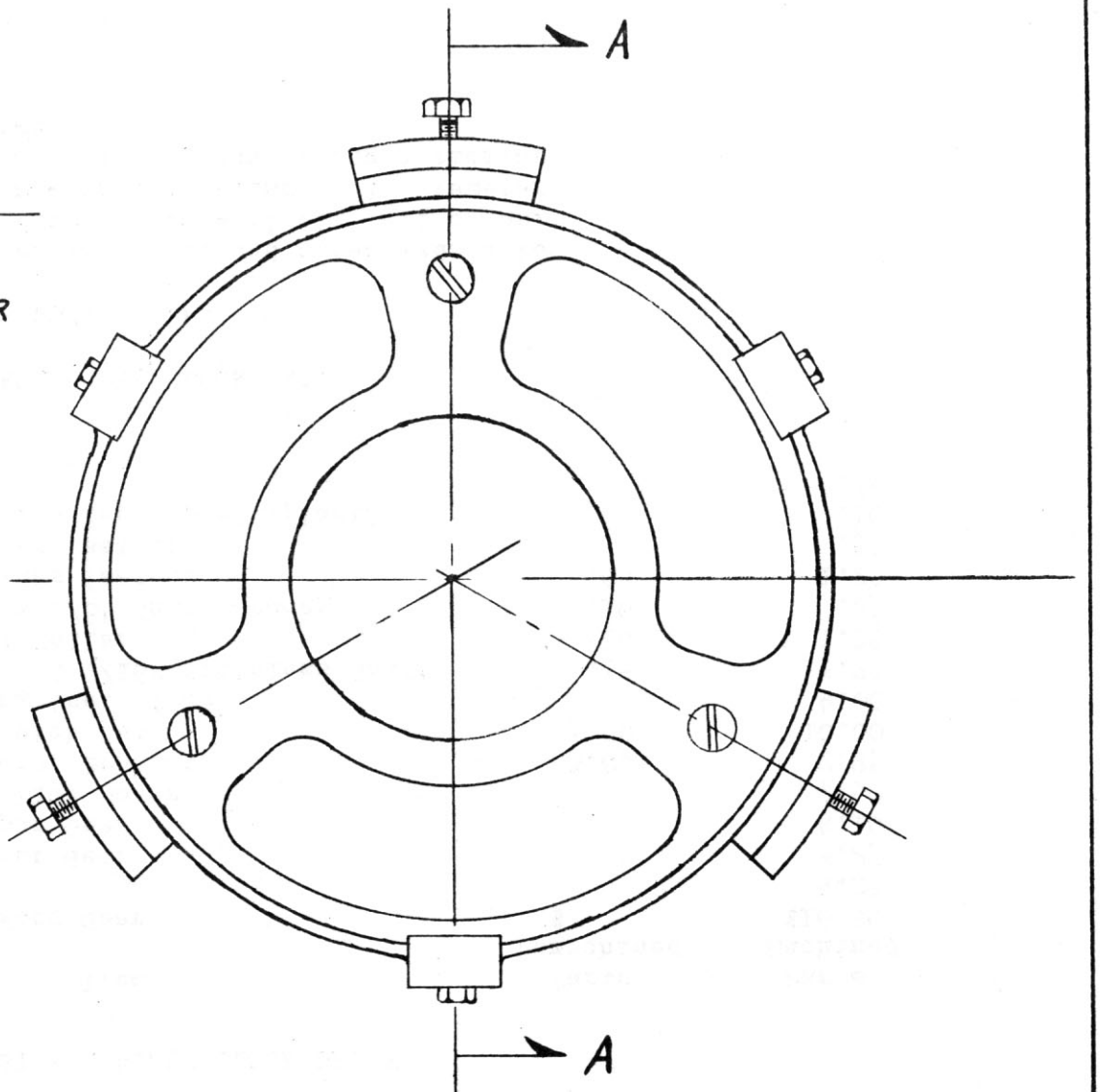
COMPLETE 4.25" CLOCK DRIVE

$57.50 PPD

All parts above are machined, and assembled into a complete unit. This drive will fit all of our 6" and 8" mounts, new or old, using a 1" diameter shaft. It will also fit any mount using a similar motor bracket design.



VIEW "AA"



DRAWN BY A.P.J.	DATE 12/5/67	PACIFIC INSTRUMENTS	
CHECKED RRR	12/7/67	8" MIRROR CELL	
APPVD.			
UNLESS OTHERWISE SPEC.			
	TOLERANCE .XX = ±.030 .XXX = ±.010 .XXXX = ±.003	SIZE B	DRAWING NO. 450
SCALE 1/2			

PRICE LIST FOR MIRROR CELLS

PART #	QUAN.	ITEM	PARTS UNMACHINED	PARTS MACHINED	SHIPPING WEIGHT
		For 6" Mirrors			
C 6--1	1	Cell and Adaptor Castings	$ 5.00	$ 6.50	# 1 1/2
C 6--2	3	Mirror Clamp Bracket (set of 3)		1.00	1/4
C 6--3	1	Bolt, Nut and Spring Kit *		2.00	1/4
		For 8" Mirrors			
C 8--1	1	Cell and Adaptor Castings	7.00	8.50	4
C 8--2	3	Mirror Clamp Bracket (set of 3)		1.00	1/2
C 8--3	1	Bolt, Nut and Spring Kit *		2.00	1/2
		For 10" Mirrors			
C 10--1	1	Cell and Adaptor Castings	14.00	15.50	6
C 10--2	4	Mirror Clamp Bracket (set of 4)		1.50	1/2
C 10--3	1	Bolt, Nut and Spring Kit *		2.50	1/2
		For 12 1/2" Mirrors			
C 12--1	1	Cell and Adaptor Castings	24.00	26.00	8
C 12--2	4	Mirror Clamp Bracket (set of 4)		2.00	1/2
C 12--3	1	Bolt, Nut and Spring Kit *		3.00	1/2

PART #	COMPLETE ITEMS	PRICE	WEIGHT
CA---6	6 " Mirror Cell with Adaptor to Fit 7 " I.D. Tube **	$ 8.75	PPD
CA---8	8 " Mirror Cell with Adaptor to Fit 9 1/2" I.D. Tube **	10.50	# 5
CA--10	10 " Mirror Cell with Adaptor to Fit 12 " I.D. Tube **	17.50	8
CA--12	12 1/2" Mirror Cell with Adaptor to Fit 15 " I.D. Tube **	28.50	9

* FOR COMPLETE ASSEMBLY.

** PAINTED A DULL BLACK, ASSEMBLED READY FOR MIRROR.

(Rates as of 11/14/70)

PARCEL POST RATES

Pounds	Local	Zones 1 & 2	3	4	5	6	7	8
1-2	$0.60	$0.65	$0.70	$0.75	$0.80	$0.90	$1.00	$1.05
3	.60	.75	.80	.85	.95	1.10	1.20	1.35
4	.65	.80	.85	.95	1.10	1.30	1.40	1.60
5	.70	.85	.90	1.05	1.20	1.45	1.65	1.90
6	.70	.95	1.00	1.15	1.35	1.60	1.85	2.10
7	.75	1.05	1.10	1.25	1.50	1.75	2.10	2.35
8	.75	1.10	1.15	1.35	1.60	1.90	2.30	2.60
9	.80	1.15	1.20	1.45	1.75	2.05	2.45	2.85
10	.80	1.20	1.30	1.55	1.90	2.20	2.65	3.10
11	.80	1.25	1.35	1.60	2.00	2.30	2.85	3.35
12	.85	1.30	1.45	1.70	2.10	2.45	3.05	3.55
13	.85	1.35	1.55	1.80	2.20	2.60	3.25	3.80
14	.90	1.40	1.60	1.90	2.35	2.75	3.45	4.00
15	.90	1.45	1.65	2.00	2.45	2.85	3.60	4.20
16	.95	1.55	1.75	2.05	2.55	2.95	3.80	4.40
17	1.00	1.60	1.80	2.15	2.65	3.10	3.95	4.60
18	1.00	1.65	1.90	2.20	2.75	3.20	4.15	4.80
19	1.05	1.70	2.00	2.30	2.85	3.35	4.30	5.00
20	1.05	1.75	2.05	2.40	2.95	3.50	4.50	5.20
21	1.10	1.85	2.10	2.45	3.05	3.65	4.65	5.40
22	1.15	1.90	2.15	2.55	3.15	3.75	4.85	5.60
23	1.15	1.95	2.20	2.60	3.25	3.90	5.00	5.80
24	1.20	2.00	2.25	2.65	3.35	4.05	5.15	6.00
25	1.20	2.05	2.30	2.75	3.45	4.15	5.35	6.20
26	1.20	2.10	2.35	2.85	3.55	4.30	5.50	6.40
27	1.25	2.15	2.40	2.90	3.70	4.45	5.65	6.60
28	1.25	2.20	2.45	2.95	3.80	4.60	5.80	6.80
29	1.30	2.25	2.50	3.05	3.90	4.70	5.95	7.00
30	1.30	2.30	2.55	3.10	4.00	4.85	6.10	7.20

ZIP -- ZONE CHART

Prefixes	Zone
006--098	8
100--199	8
200--299	8
300--339	8
350--359	7
360--364	8
365--367	7
368	8
369--372	7
373--379	8
380--384	7
385	8
386--397	7
400--402	7
403--418	8
420--424	7
425--426	8
427	7
430--458	8
460--466	7
467--468	8
469	7
470	8
471--472	7
473	8
474--479	7
480--497	8
498--499	7
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520--560	7
561	6
562--567	7
570--581	6
582	7
583--588	6
590--591	5
592--593	6
594	5
595	6
596--599	5
600--639	7
640--648	6
650--652	7
653	6
654--655	7
656--676	6
677	5
678	6
679	5
680--692	6
693	5
700--708	7
710--711	6
712--717	7
718--719	6
720--725	7
726--738	6
739	5
740--775	6
776--777	7
778--789	6
790--791	5
792	6
793--794	5
795--796	6
797--799	5
800--838	5
840--863	4
864	3
865	4
870--871	5
873--874	4
875--884	5
890--891	3
893--898	4
900--918	1
920--925	2
926--928	1
930--935	2
936--939	3
940--949	4
950--953	3
954--966	4
967--969	8
970--974	5
975--976	4
977--994	5
995--997	8
998--999	7

POSTAL CHART DIRECTIONS

Compute total weights for order. Convert ounces to pounds. Convert any left over ounces to the next pound (e.g. 4 lbs. 1 oz. = 5 lbs.). Use Zip -- Zone Chart to ascertain correct Zone number for the above Parcel Post Rate Chart. Consult your local Post Office for Air Parcel Post rates. Consult your local Railway Express Agency for rates.

SLOW MOTION

Want to pinpoint those celestial objects with a finer adjustment? Then add Pacific Instruments' Slow Motion to your telescope.

8" DEC. SLOW MOTION

This unit uses a special Dec. casting, saddle casting, tangent arm and associated hardware. This unit must be purchased with our complete 8" mount (aluminum or iron) or with the following parts: M 8--1, M 8--2, M 8--7, M 8--8 and M 8--9.
See the upper left hand picture on inside cover page.

Price: $30.00

R. A. SLOW MOTION OVERRIDE

A special brass gear, stainless steel clutch assembly and knob are used in this unit. This unit must be purchased with a complete 4.25" Clock Drive (with or without the R. A. Circle).
See the lower right hand picture on the inside cover page.

Price: $18.00 ppd

R. A. SLOW MOTION OVERRIDE

The *R. A. Slow Motion Override* can be installed on your Pacific Instruments' complete clock drive, regardless of its age. Please send us your clock drive motor worm gear assembly for modification when ordering this unit.

Price: $20.00 ppd

PACIFIC INSTRUMENTS