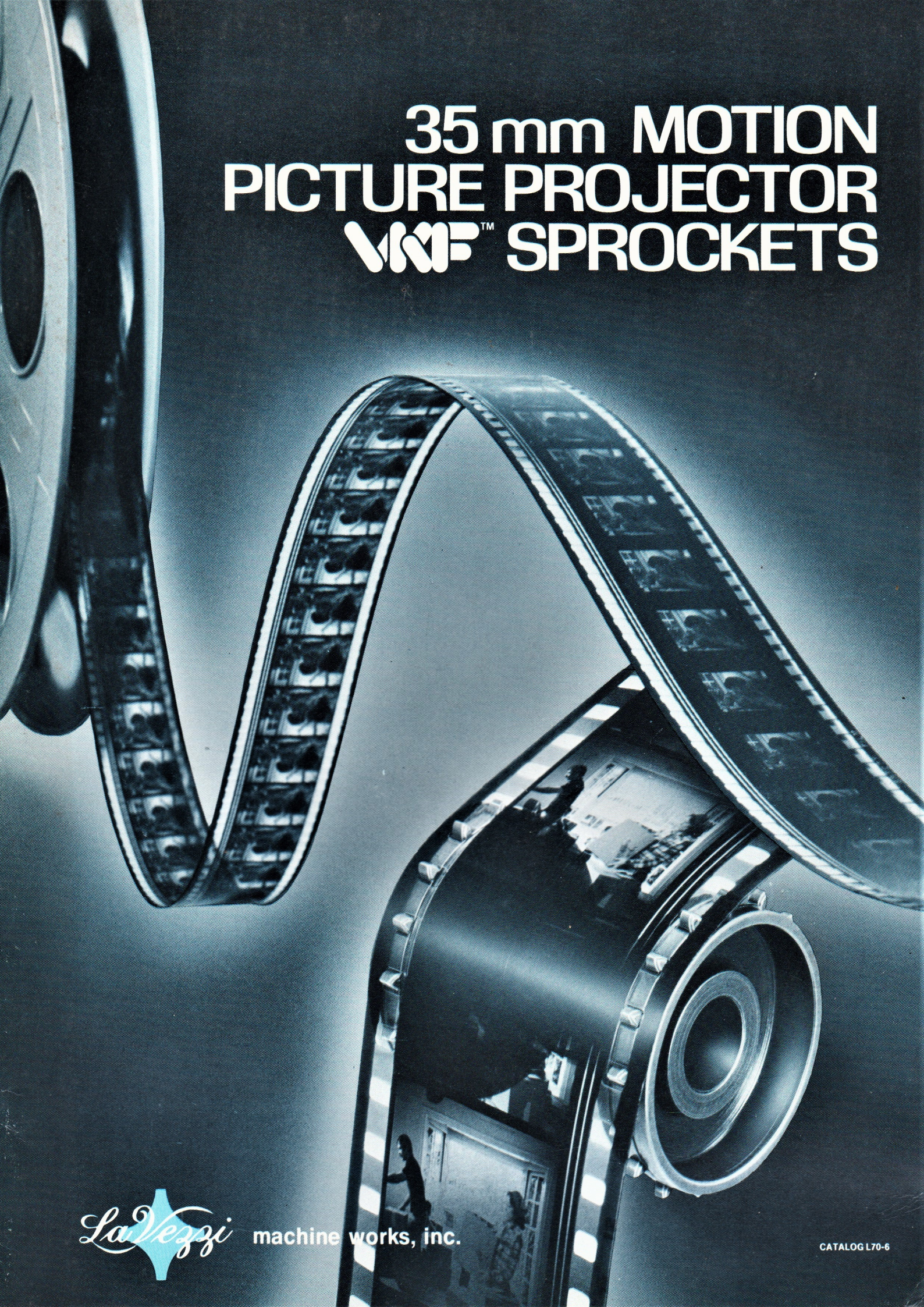




# 35 mm MOTION PICTURE PROJECTOR VMF<sup>TM</sup> SPROCKETS



machine works, inc.

CATALOG L70-6



# VKF<sup>TM</sup> 35 mm FILM SPROCKETS

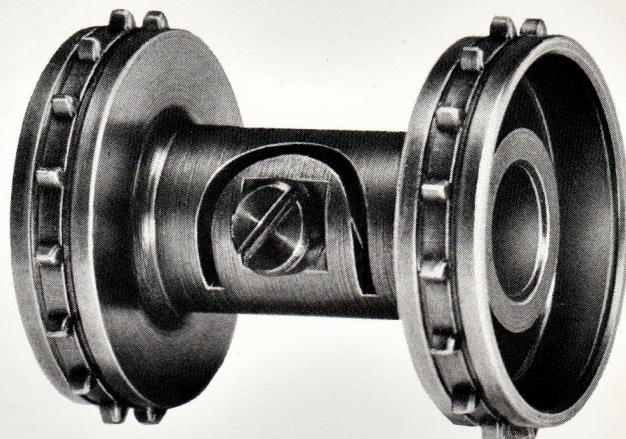
"VERY KIND TO FILM"

Good projection increases patronage appreciation and adds revenue to the theatre!

But in spite of normal precautions, a motion picture film is subject to various forms of projector related problems that can create an abnormal contact between the film and the projector sprockets. Generally occurring during a showing, the abnormality can damage and tear the film.

As a result, annoyed theatre patrons must wait while corrective measures are taken. Repairs are made to the film, residuals are cleared from the projector, and other maintenance precautions are exercised.

Subsequent exhibitions of the damaged print will show the break in the image continuity and in the soundtrack.



## The VKF Sprocket—film guardian

To meet the increasing need for film protection demanded by the motion picture industry, the VKF sprockets (Very Kind to Film) were developed by LaVezzi exclusively for theatre projection equipment to handle both the standard 35mm prints and the magoptical, or CinemaScope film.

They offer motion picture theatre owners a means to reduce untimely film damage, cut costly projector cleaning and maintenance, and most importantly, improve theatre patrons' appreciation for movie viewing.

The VKF sprockets differ from current sprockets by the profile of the sprocket teeth. They are machined with the widest possible teeth compatible with the narrow CS CinemaScope film perforations, as well as the standard KS film with wider perforations. The VKF design permits an 80% increase in the total width of each tooth over current sprockets.

Figure 1 illustrates the relationship of the KS wide perforation with the narrow perforation of the CS CinemaScope film, and the driving position of the industry-accepted, narrow-tooth CinemaScope sprocket in the two types of film. Figure 2 compares the contact area of the VKF sprocket in the same driving position.

The corners of the VKF sprocket teeth have no sharp edges to cut into the driven edge of the perforation when film tension is heavy. Also, if film should move laterally, the corners of the sprocket teeth are rounded to a radius larger than the radius of the perforation corners, and will not cut into the corners of the perforations—the place where damage is most likely to occur.

## Radi-Blend<sup>TM</sup> —extra care for film handling.

Radi-Blend, an exclusive LaVezzi manufacturing process, provides each VKF sprocket with a smooth, friction-free surface for improved film contact. In the Radi-Blend process, the corners, sides and edges of the teeth are tapered, blended and burnished to permit a smooth engagement and disengagement of the film without interruption. It reduces abrading and chipping of film emulsion to keep the projector free and clean of harmful film dust. The tooth crowns are rounded to reduce the possibility of tearing into the film as the result of abnormal film contact.

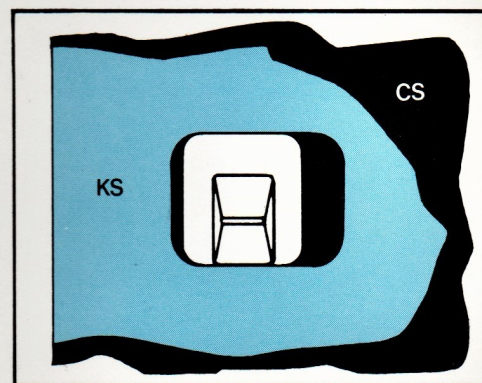


Fig. 1—Standard sprocket in driving position in either the KS or CS perforation

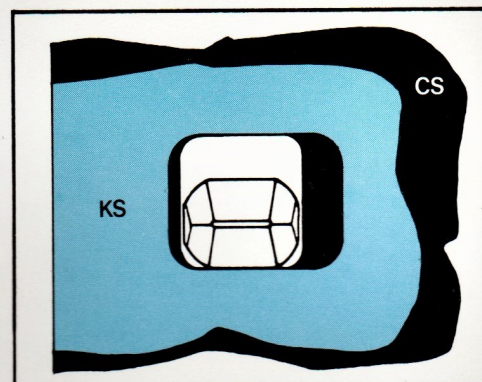
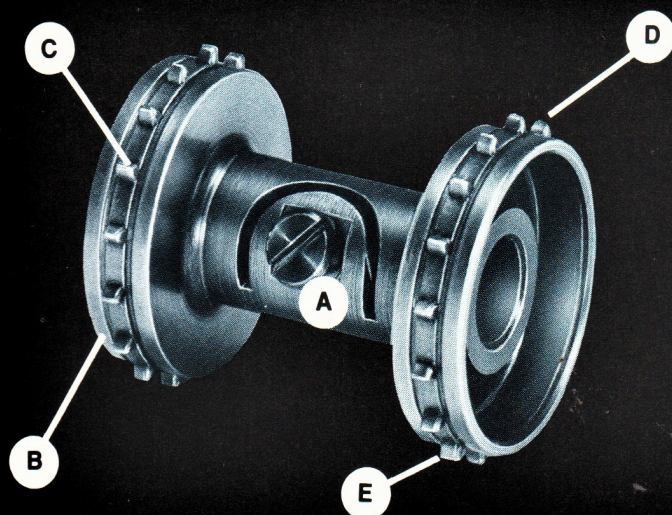


Fig. 2—The new VKF sprocket tooth in driving position in either the KS or CS perforation





- A Available for 35mm motion picture film projectors
- B Polished surface finish minimizes film wear
- C Tooth alignment, registration and concentricity are held to tight specifications
- D Tooth corners are rounded, blended and burnished to avoid contact with corners of film perforation
- E Rounded crowns reduce the possibility of film puncture resulting from abnormal film contact.

## SPROCKET SELECTION CHART

### 35mm Projector Sprockets by LaVeZZi

| Type of Equipment                  | Original equipment Part No. (for ref. only)    | LA VEZZI PART NUMBERS |                          |                    |
|------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------------|
|                                    |                                                | VKF Sprocket          | CS narrow-tooth Sprocket | Posi-Trol Sprocket |
| Regular or Super Simplex Projector | BB42 (or G2477) intermittent (with taper pins) | —                     | 416T25B                  | —                  |
|                                    | BB47 intermittent (with screw and nut)         | 416TL31B              | 416T31B                  | L2SP31             |
|                                    | W145D Upper                                    | 416GL31B              | W145DC                   | L3SP31             |
|                                    | W146D Lower                                    | 416GL31B              | W146DC                   | L4RS31             |
| Simplex E7 Projector               | BB47 intermittent                              | 416TL31B              | 416T31B                  | L2SP31             |
|                                    | S1283C Upper                                   | 416GL31B              | S1283CC                  | L3CP31             |
|                                    | S1284C Lower                                   | 416GL31B              | S1284CC                  | L4CS31             |
| Simplex X-L Projector              | G2330 Intermittent                             | 416TL31B              | 416T31B                  | L2SP31             |
|                                    | G2332 Upper or Lower                           | 424GL37B              | G2332                    | L3XL37             |
|                                    | G4148 Intermittent for Hi-speed Projector      | —                     | 416DG31M                 | —                  |
| Simplex Sound Head                 | SN122 (P3322)                                  | 416GL37B              | SN122C                   | L3SS37             |
|                                    | SN123 (P3321)                                  | 416GL37B              | SN123C                   | L4SS37             |
| Century Projectors and Sound Heads | SK102BB intermittent (with taper pins)         | —                     | 416T25B                  | —                  |
|                                    | SK1263 Intermittent (with screw and nut)       | 416TL31B              | 416T31B                  | L2SP31             |
|                                    | SK11D (SK964) Upper                            | 416GL31B              | SK11DC                   | L3CP31             |
|                                    | SK12D (SK965) Lower                            | 416GL31B              | SK12DC                   | L4CS31             |
|                                    | SK967 Sound                                    | 416GL31B              | SK967                    | L3CP31             |
| RCA Sound Head                     | 21432 Take up                                  | 416GL31B              | 21432C                   | L4RS31             |
|                                    | 23681 Constant Speed                           | 416GL37B              | 23681C                   | L3RS37             |
|                                    | 25550 Constant Speed                           | —                     | 25550C                   | —                  |
| Ballantyne Sound Head              | 500 H                                          | 416GL50B              | 500HC                    | L4BS50             |
| Holmes Projector                   | 263 Intermittent                               | —                     | 263C                     | —                  |
|                                    | E1252 Feed or Sound                            | —                     | E1252C                   | —                  |

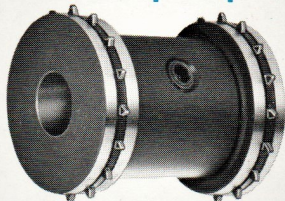


# LAVEZZI MOTION PICTURE PROJECTOR SPROCKETS

LaVezzi manufactures three types of sprockets for 35mm motion picture projector equipment: the standard CinemaScope-type narrow-tooth sprockets, VKF "Very Kind to

Film" sprockets, and Posi-Trol positive control sprockets. These sprockets are available for constant speed feed, hold-back, and intermittent movement applications.

## CinemaScope Sprockets



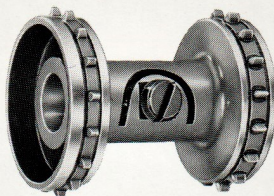
The CinemaScope-type sprockets are extensively used in theatre projection equipment. They are manufactured to the highest standards, and function with either the KS wider perforation film, or the narrow perforation CS CinemaScope film.

For dimensional details on the standard line of CinemaScope sprockets, refer to LaVezzi catalog L70-2 "Precision Sprockets for Perforated Film."

## VKF Sprockets

The VKF sprockets are described on pages 2 and 3 of this brochure.

## Posi-Trol Positive Control Sprockets



Recognized for their ability to control film, the Posi-Trol sprockets restrict side-to-side movement of 35mm motion picture film in a camera or projector, and minimize the chance of film damage due to abnormal contact with the sprocket. These sprockets are only intended for use with the wider perforated KS film and cannot be used with the narrow perforated CinemaScope film.

For complete information on the Posi-Trol sprockets, refer to LaVezzi catalog L70-2 "Precision Sprockets for Perforated Film".

## Manufacturer's Commentary

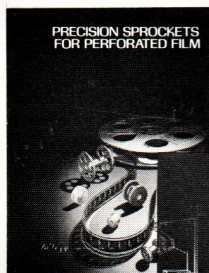
For the best film viewing results, frequent inspection of the projector components is encouraged. LaVezzi advises daily inspection and cleaning of the sprocket teeth. Minimum inspection involves running a finger over the teeth to detect any accidental damage that might have nicked or deformed a tooth. Sprocket wear is recognized most frequently by a line across the base of the teeth. If the line can be detected by a fingernail, the sprocket should be replaced. Continued use of a worn sprocket can result in faulty projection and film damage. Replacement of

a worn sprocket is critical with intermittent sprockets, the upper feed sprocket, or any sprocket where excessive tension is involved.

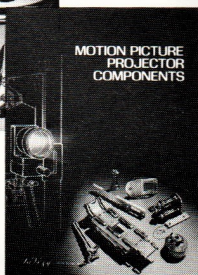
Good film projection is maintained and projector component service life can be extended by daily cleaning of the sprocket teeth to remove "film dust", wax, or any other foreign accumulation from the base of the sprocket teeth.

For optimum projector results, consult your projector maintenance manual.

LaVezzi catalogs on motion picture sprockets and components



L70-2 "Precision Sprockets for Perforated Film"



L70-4 "Motion Picture Projector Components"

*LaVezzi*

**machine works, inc.**

900 N. Larch Avenue  
Elmhurst, Illinois 60126  
(312) 832-8990



**SOLD THROUGH THEATRE EQUIPMENT DEALERS**



**LAVEZZI MACHINE WORKS, INC.**

900 North Larch Avenue, Elmhurst, Illinois 60126

312/832-8990 (Telex 910-254-0459) (Cable Code "LaVezzi" Elmhurst, IL)

Reference: Catalogs L70-2, L70-3, L70-6, L72-C

Effective: June 1, 1982

**SPROCKETS**

| PART NO.                     | PRICE   |
|------------------------------|---------|
| <b>VKF SPROCKETS</b>         |         |
| (described in Catalog L70-6) |         |
| 416GL31B . . . . .           | \$32.00 |
| Replaces:                    |         |
| SK11 . . . . . SK967         |         |
| SK12 . . . . . S1283C        |         |
| W145D . . . . . S1284C       |         |
| W146D . . . . . P3784        |         |
| SK964 . . . . . 21432        |         |
| SK965 . . . . .              |         |
| 416GL37B . . . . .           | 32.00   |
| Replaces:                    |         |
| SN122 . . . . . P3321        |         |
| SN123 . . . . . P3322        |         |
| 416CG37B . . . . . 23681     |         |
| 2906 . . . . .               |         |
| 416GL50B . . . . .           | 32.00   |
| Replaces:                    |         |
| 416CG50B . . . . .           |         |
| 500H . . . . .               |         |
| 500HC . . . . .              |         |
| 424GL37B . . . . .           | 46.00   |
| Replaces:                    |         |
| G1839 . . . . .              |         |
| G2332 . . . . .              |         |
| 416TL31B . . . . .           | 40.20   |
| Replaces:                    |         |
| BB47 . . . . . G2330         |         |
| 416T31B . . . . . 2930       |         |
| SK1263 . . . . .             |         |

**SPROCKETS FOR BALLANTYNE SOUND**

|                                  |         |
|----------------------------------|---------|
| L4BS50 . . . . .                 | \$47.00 |
| 416GL50B . . . . .               | 32.00   |
| 500H . . . . . (order 416GL50B)  |         |
| 500HC . . . . . (order 416GL50B) |         |

**SPROCKETS FOR HOLMES**

|                  |         |
|------------------|---------|
| 263C . . . . .   | \$36.00 |
| E1252C . . . . . | 30.00   |

**SPROCKETS FOR EPRAD SOUND**

|                    |         |
|--------------------|---------|
| 416GL50B . . . . . | \$32.00 |
|--------------------|---------|

**SPROCKETS FOR SIMPLEX SOUND**

|                                  |         |
|----------------------------------|---------|
| L3SS37 . . . . .                 | \$48.00 |
| L4SS37 . . . . .                 | 47.00   |
| 416GL37B . . . . .               | 32.00   |
| SN122C . . . . .                 | 25.50   |
| SN123C . . . . .                 | 25.50   |
| P3321 . . . . . (order 416GL37B) |         |
| P3322 . . . . . (order 416GL37B) |         |

**SCREW AND NUT FOR L2SP31, 416T31B OR 416TL31B**

|                        |        |
|------------------------|--------|
| 3615-1 Screw . . . . . | \$ .60 |
| 3615-2 Nut . . . . .   | 1.00   |

| PART NO.                                                                             | PRICE   |
|--------------------------------------------------------------------------------------|---------|
| <b>"CINEMASCOPE" NARROW-TOOTH SPROCKETS</b>                                          |         |
| (described in Catalog L70-2)                                                         |         |
| 416CG25B, Hardened steel,<br>1/4" bore, set screw . . . . .                          | \$26.50 |
| 416CG31B, Hardened steel,<br>5/16" bore, set screw . . . . .                         | 25.50   |
| 416CG37B, Hardened steel,<br>3/8" bore, set screw . . . . .                          | 25.50   |
| 416CG50B, Hardened steel,<br>1/2" bore, set screw . . . . .                          | 26.50   |
| 416DG31M, Intermittent, hard coated<br>aluminum, 5/16" bore, screw and nut . . . . . | 52.50   |
| 416T25B, Intermittent, steel,<br>1/4" bore, two taper pins . . . . .                 | 35.00   |
| 416T31B, Intermittent, steel,<br>5/16" bore, screw and nut . . . . .                 | 35.00   |

**REGULAR WIDE-TOOTH SPROCKETS****Pre-CinemaScope**

(described in Catalog L70-2)

These are to be used only with films having KS1870 or DH1870 perforations and are not suitable for CS1870 perfs.

|                                                               |         |
|---------------------------------------------------------------|---------|
| 416C25D, Non-magnetic stainless steel,<br>1/4" bore . . . . . | \$32.00 |
| 416C31F, Stainless steel, 5/16" bore . . . . .                | 29.50   |
| 416C37F, Stainless steel, 3/8" bore . . . . .                 | 29.50   |
| 416C50F, Stainless steel, 1/2" bore . . . . .                 | 30.50   |

**POSI-TROL SPROCKETS**

(described in Catalog L70-2)

These are to be used only with films having KS1870 or DH1870 perforations and are not suitable for CS1870 perfs.

|                  |         |
|------------------|---------|
| L2SP31 . . . . . | \$54.00 |
| L3CP31 . . . . . | 48.00   |
| L3RS37 . . . . . | 48.00   |
| L3SP31 . . . . . | 48.00   |
| L3SS37 . . . . . | 48.00   |
| L3XL37 . . . . . | 60.00   |
| L4BS50 . . . . . | 47.00   |
| L4CS31 . . . . . | 47.00   |
| L4SS37 . . . . . | 47.00   |

**SPROCKETS FOR RCA SOUND**

|                    |         |
|--------------------|---------|
| L3RS37 . . . . .   | \$48.00 |
| 416GL31B . . . . . | 32.00   |
| 416GL37B . . . . . | 32.00   |
| 21432C . . . . .   | 25.50   |
| 23681C . . . . .   | 25.50   |

**FILM ROLLERS**

|                                           |         |
|-------------------------------------------|---------|
| MNR4-22 Nylon pad roller . . . . .        | \$ 2.50 |
| MNR4-25 Nylon pad roller . . . . .        | 3.00    |
| SOR4-22 Steel/Oilite pad roller . . . . . | 15.00   |
| RK110-2 Delrin guide roller . . . . .     | 2.25    |

**SOLD THROUGH THEATRE EQUIPMENT DEALERS**

All prices are per piece, unless specified otherwise.  
Prices are subject to change without notice.

Certain items are limited to existing supply and  
subject to discontinued production thereafter.



## PARTS FOR SIMPLEX

| PART NO.           | PRICE                                      | PART NO.        | PRICE                           | PART NO.               | PRICE            |
|--------------------|--------------------------------------------|-----------------|---------------------------------|------------------------|------------------|
| A8                 | \$10.50                                    | E94             | \$22.00                         | K150E                  | \$ 5.50          |
| A16                | 6.50                                       | G35             | 70.00                           | L112D                  | .50              |
| A30                | 50.00                                      | G42             | 110.00                          | L161CL                 | (order C25L)     |
| A192BB             | 137.00                                     | G59L            | 41.00                           | LA306G                 | 23.50            |
| B106G              | 5.00                                       | G60L            | 41.00                           | LA306GL                | 24.00            |
| B246BB             | 34.00                                      | G64             | 89.50                           | LA307G                 | 23.50            |
| B246BB-O (OILITE)  | 90.00                                      | G65             | 89.50                           | LA1310                 | 121.00           |
| B262G              | 7.00                                       | G73             | 76.00                           | LA1311                 | 17.50            |
| B297E              | 27.00                                      | G87             | 67.10                           | LA1311-O (OILITE)      | 46.00            |
| B323BB             | 15.00                                      | G92             | (order LAG92)                   | LA1312                 | 14.00            |
| B419BB             | 29.00                                      | G111G           | 10.00                           | LA1313                 | 2.50             |
| B420BB             | 35.00                                      | G116G           | 16.50                           | LAG92                  | 31.50            |
| B421BB             | (order B519BB)                             | G125E           | 1.15                            | LAGG5                  | 125.00           |
| B463BB             | 21.00                                      | G126E           | 5.70                            | MNR4-22                | 2.50             |
| B482BB             | 15.50                                      | G134G           | 20.00                           | MNR4-25                | 3.00             |
| B484BB             | 23.00                                      | G134/279GL      | 90.00                           | N171BB                 | (order BB30)     |
| B484BB-O (OILITE)  | 36.00                                      | G185BB          | 24.00                           | N204BB                 | 3.00             |
| B519BB             | 29.50                                      | G186BB          | 10.25                           | N204BBS (small)        | 3.00             |
| BB27               | 38.00                                      | G187BB          | 10.25                           | N227E                  | 1.00             |
| BB28               | 69.00                                      | G188BB          | .50                             | N228E                  | 1.00             |
| BB30               | 40.00                                      | G211G           | .50                             | N230BB (N204BB)        | 3.00             |
| BB31               | 1.15                                       | G225BB          | .50                             | N248G                  | 7.50             |
| BB36               | 89.00                                      | G225BBS (small) | .50                             | N250BB                 | 1.15             |
| BB38               | 87.00                                      | G226BB          | .50                             | P100E                  | 7.00             |
| BB39               | 3.50                                       | G226BBS (small) | .50                             | P121C                  | .50              |
| BB40               | 143.00                                     | G248G           | 21.00                           | P128G                  | 1.15             |
| BB42               | (order 416T25B)                            | G249E           | 26.00                           | P160M                  | .50              |
| BB45               | 73.50                                      | G250E           | 26.00                           | P350BB                 | .90              |
| BB47               | (order 416T31B,<br>or 416TL31B, or L2SP31) | G254G           | 103.00                          | P353BB (P121C)         | .50              |
| BB53               | 50.00                                      | G258G           | 41.00                           | P359E                  | .75              |
| BB57               | 6.50                                       | G260BB (G186BB) | 10.25                           | P360BB                 | 2.75             |
| BB66               | 1098.00                                    | G261BB          | .50                             | P445E                  | 2.75             |
| BB77               | 1098.00                                    | G263BB          | 37.50                           | P554G                  | 1.70             |
| C12                | 7.50                                       | G264BB (G187BB) | 10.25                           | P607E (P121C)          | .50              |
| C16 (C12)          | 7.50                                       | G265BB          | .50                             | P608E                  | 10.75            |
| C25L               | 41.00                                      | G268BB (G225BB) | .50                             | P609E                  | 14.50            |
| C127E              | 1.40                                       | G278G           | 13.00                           | P655BB (P121C)         | .50              |
| C127EC             | 1.40                                       | G279G           | 70.00                           | P672E through P672E-17 | 6.00             |
| C192G              | 9.00                                       | G282G           | 22.50                           | P687G                  | .50              |
| C193G              | 5.50                                       | G283G           | 14.20                           | P709G                  | 6.50             |
| C293BB             | 1.70                                       | G297G           | 32.00                           | P867CL                 | 2.50             |
| C294BB             | .75                                        | G298G           | 22.50                           | P1577                  | 169.00           |
| C295BB             | 4.60                                       | G299G           | 37.50                           | P1641                  | (order S326E)    |
| C316G              | 2.50                                       | G305G           | 23.75                           | P1645                  | (order S716E)    |
| C375BB             | 207.00                                     | G306G           | (order LA306G)                  | P1646                  | (order S1530E)   |
| C378G              | 5.00                                       | G306GL          | (order LA306GL)                 | P1673                  | (order W278E)    |
| C470BB             | 2.00                                       | G307G           | (order LA307G)                  | P1678                  | (order S1279E)   |
| C483BB             | 5.50                                       | G308G           | 103.00                          | P1699                  | (order R290E)    |
| C490G              | 3.50                                       | G308GL          | 103.00                          | P1701                  | (order S762E)    |
| C712GL             | 2.50                                       | G338G           | 41.00                           | P1702                  | (order W198E)    |
| D3                 | 18.50                                      | G1837           | 132.00                          | P1764                  | (order S181D)    |
| D130BB             | 2.70                                       | G2330           | (order 416T31B,<br>or 416TL31B) | P1912                  | (order P160M)    |
| E3C                | 23.90                                      | G2332           | 36.50                           | P2524                  | (order S1360BB)  |
| E14                | 25.00                                      | G2339           | (order E73C)                    | P2746                  | (order S485C)    |
| E30                | 31.50                                      | G2478           | (order E3C)                     | P2748                  | (order R161C)    |
| E67L               | 39.00                                      | G4148           | (order 416DG31M)                | P2932                  | (order S192D)    |
| E72 through E72-17 | 5.50                                       | G4453           | (order RK110)                   | P3085                  | (order MNR4-22)  |
| E73C               | 20.35                                      | GG5             | (order LAGG5)                   | P3291                  | (order R316E)    |
| E78LC              | 20.00                                      | H120G           | 16.00                           | P3297                  | (order R317E)    |
| E78LSC             | 130.50                                     | H121G           | 12.00                           | P3317                  | (order R160C)    |
| E82                | 35.00                                      | H226EL          | 47.00                           | P3601                  | (order S1530E)   |
| E83                | 5.50                                       | H226ELS         | 47.00                           | P3784                  | (order 416GL31B) |
| E85                | 13.00                                      | H1503           | (order S7056)                   | P3788                  | (order G125E)    |
| E86                | 13.00                                      | H1530           | (order S145G)                   | P3789                  | (order G126E)    |
| E87                | 17.00                                      | H3405           | (order W330E)                   | P4373                  | (order G187BB)   |
|                    |                                            | K130BB          | 12.00                           | P7117                  | (order MNR4-22)  |



## PARTS FOR SIMPLEX

| PART NO.        | PRICE           | PART NO.             | PRICE                                         |
|-----------------|-----------------|----------------------|-----------------------------------------------|
| R52             | \$ 3.00         | S765BB (S724BB)      | \$ .50                                        |
| R160C           | 10.50           | S866C                | 3.00                                          |
| R161C           | 12.50           | S866CL               | 4.00                                          |
| R214E           | 9.00            | S870G (S550G)        | 22.50                                         |
| R246E           | 12.50           | S871G                | 15.00                                         |
| R290E           | 9.00            | S873CL               | .50                                           |
| R311E           | .50             | S874C                | 3.20                                          |
| R316E           | 3.30            | S932G                | .50                                           |
| R317E           | 1.10            | S951BB               | 140.00                                        |
| RK103V          | 419.00          | S1026D (S165C)       | .50                                           |
| RK105           | 164.00          | S1031G               | (order G35)                                   |
| RK106           | 176.50          | S1032G               | 30.00                                         |
| RK107           | 340.50          | S1033G               | 30.00                                         |
| RK108V          | 453.00          | S1036/1037E per pair | 34.00                                         |
| RK110           | 19.00           | S1048A               | .70                                           |
| RK110-2         | 2.25            | S1082G               | 58.00                                         |
| RK112           | 24.00           | S1157E               | .50                                           |
| RK112-2         | 3.60            | S1159E               | .50                                           |
| RK113           | 24.00           | S1160G               | 15.30                                         |
| S100E           | .80             | S1250E               | .50                                           |
| S106D           | .50             | S1259E               | 26.00                                         |
| S115A           | .50             | S1260E               | 26.00                                         |
| S122C           | .50             | S1279E               | .50                                           |
| S130E           | .50             | S1280E               | .50                                           |
| S132E           | .50             | S1283CC              | (order 416GL31B)                              |
| S145G           | .60             | S1284CC              | (order 416GL31B)                              |
| S150C           | .50             | S1310BB              | 121.00                                        |
| S151D           | .70             | S1334BB (S145G)      | .60                                           |
| S165C           | .50             | S1338G               | .50                                           |
| S177E           | .50             | S1360BB              | .50                                           |
| S178D           | .50             | S1380BB (S248A)      | .50                                           |
| S181D           | .75             | S1382BB (S729BB)     | .50                                           |
| S192D           | .50             | S1432G               | .50                                           |
| S248A           | .50             | S1442BB              | .50                                           |
| S309E           | 16.75           | S1443BB              | (order BB53)                                  |
| S326E           | 2.50            | S1447G               | .50                                           |
| S327E           | 2.00            | S1479G               | .50                                           |
| S328E           | 4.75            | S1511E (S716E)       | .50                                           |
| S357G           | 2.65            | S1530E               | 1.30                                          |
| S432E           | .50             | SCSB3V               | 278.00                                        |
| S436G           | .50             | SOR4-22              | 15.00                                         |
| S437G           | .50             | SP672E through       |                                               |
| S442G           | .50             | SP672E-17            | 7.00                                          |
| S485C           | 1.25            | W112G                | .90                                           |
| S493D           | 1.15            | W114G                | 2.00                                          |
| S550G           | 22.50           | W118A                | .75                                           |
| S567C           | 6.60            | W124G                | 3.50                                          |
| S569A           | 4.00            | W125G                | 3.00                                          |
| S570A           | 4.00            | W140G                | 2.00                                          |
| S572C           | 5.00            | W145D                | (order 416C31F,<br>or 416GL31B,<br>or L3SP31) |
| S573C           | 5.50            | W145DC               | 25.50                                         |
| S580E           | 3.00            | W146DC (W145DC)      | 25.50                                         |
| S581E           | 4.75            | W160C                | 1.50                                          |
| S665E (S1530E)  | 1.30            | W191BB               | 66.00                                         |
| S705G           | .50             | W198E                | .50                                           |
| S706C           | 4.50            | W232BB               | .50                                           |
| S709GL          | 6.00            | W278E                | .50                                           |
| S710GL          | .50             | W286BB (G226BB)      | .50                                           |
| S716E           | .50             | W294BB               | .50                                           |
| S724BB          | .50             | W306G                | 7.00                                          |
| S725BB          | .50             | W320G                | .50                                           |
| S726BB          | (order BB27)    | W330E                | .50                                           |
| S728BB          | .50             | W332BB               | .50                                           |
| S729BB          | .50             | W711GL               | .50                                           |
| S731BB (LA1313) | 2.50            |                      |                                               |
| S750BB          | (order 416T25B) |                      |                                               |
| S762E           | .50             |                      |                                               |

## TOOLS FOR PROJECTOR SERVICING

| PART NO.                                                                         | PRICE   |
|----------------------------------------------------------------------------------|---------|
| <u>REAMERS:</u>                                                                  |         |
| "A" Helical taper pin reamer for<br>416T25B sprocket                             | \$57.00 |
| ARC312 Star shaft bearing alignment<br>reamer 5/16" diameter                     | 75.00   |
| ARC312 Controlled alignment<br>reamer, 5/16" diameter for<br>star shaft bearings | 54.00   |
| ARC437 Controlled alignment<br>reamer, 7/16" diameter for<br>cam shaft bearings  | 60.00   |
| <u>ALIGNMENT BUSHINGS:</u>                                                       |         |
| ABU21<br>(Sold only with ARC437<br>reamer)                                       | 48.00   |
| ABU420<br>(Sold only with ARC312<br>reamer)                                      | 42.50   |
| ABU645<br>(Sold only with ARC312<br>reamer)                                      | 42.00   |
| ABU1311<br>(Sold only with ARC312<br>reamer)                                     | 44.00   |
| ABU1334<br>(Sold only with ARC312<br>reamer)                                     | 43.50   |
| <u>APERTURE FILES:</u>                                                           |         |
| AF13, Flat                                                                       | 12.50   |
| AFC15, Half-round                                                                | 22.00   |
| <u>ADJUSTABLE LAPS:</u>                                                          |         |
| L17, 1/4"                                                                        | 9.00    |
| L21, 5/16"                                                                       | 10.00   |
| L25, 3/8"                                                                        | 11.00   |
| L29, 7/16"                                                                       | 12.00   |
| L33, 1/2"                                                                        | 11.00   |
| <u>LAPPING POWDER, 1/2 POUND:</u>                                                |         |
| LP325                                                                            | 6.60    |
| <u>BEARING CLEANING BRUSHES:</u>                                                 |         |
| BCB1111 small                                                                    | 3.00    |
| BCB1112 Medium                                                                   | 3.00    |
| BCB1113 Large                                                                    | 3.00    |
| <u>INTERMITTENT SPROCKET/FILM TRAP</u>                                           |         |
| <u>ALIGNMENT GAGE:</u>                                                           |         |
| AG-1                                                                             | 25.00   |



# PARTS FOR CENTURY

| PART NO.                      | PRICE   | PART NO.                       | PRICE   | PART NO.                        | PRICE  |
|-------------------------------|---------|--------------------------------|---------|---------------------------------|--------|
| ABU21 . . . . .               | \$48.00 | MNR4-22 . . . . .              | \$ 2.50 | SC127 . . . . .                 | \$ .50 |
| ABU645 . . . . .              | 42.00   | NU10 .(N204BB) . . .           | 3.00    | SC128 . (S192D) . . .           | .50    |
| ABU1334 . . . . .             | 43.50   | NU46 . . . . .                 | 5.00    | SC134 . . . . .                 | 1.00   |
| ARC312 . . . . .              | 75.00   | NU81 .(3615-2). . . .          | 1.00    | SC137 . . . . .                 | .50    |
| ARC437 . . . . .              | 60.00   | PA194 . . . . .                | 4.25    | SC143 . (SC137) . . .           | .50    |
| BR643 . . . . .               | 17.50   | PA195 . . . . .                | 3.00    | SC155 . . . . .                 | .50    |
| BU21 . . . . .                | 34.00   | PE5E through                   |         | SC217 . . . . .                 | 4.20   |
| BU28 . . . . .                | 12.00   | PE5E17 . . . . .               | 6.60    | SC574 . . . . .                 | .50    |
| BU34 . . . . .                | 25.00   | PE38 . . . . .                 | 4.20    | SC708 . . . . .                 | .50    |
| BU40 . . . . .                | 8.00    | PE518E through                 |         | SC877 . . . . .                 | .50    |
| BU645 . . . . .               | 31.00   | PE518E17 . . . . .             | 6.60    | SC1010 (S729BB) . . .           | .50    |
| BU646 . . . . .               | 15.00   | PG159 . (P350BB) . . .         | .50     | SC1190 . . . . .                | .50    |
| BU712 . . . . .               | 15.00   | PN30 . (P350BB) . . .          | .90     | SC1235 . . . . .                | .50    |
| BU713 . . . . .               | 44.00   | PN31 . (P360BB) . . .          | 2.75    | SC1322 .(3615-1). . .           | .60    |
| C1-BB11 . . . . .             | 11.00   | PN32 . . . . .                 | .50     | SG705 . . . . .                 | .75    |
| C1-BB26 . . . . .             | 147.60  | PN615 . . . . .                | 3.50    | SH1811 . . . . .                | 6.00   |
| C1-BB27 . . . . .             | 10.00   | RK110 . . . . .                | 19.00   | SK11DC . . . . .                | 26.00  |
| C1-BB28 . . . . .             | 23.00   | RK110-2 . . . . .              | 2.25    | SK12DC . (SK11DC) . .           | 26.00  |
| C1-C21 . (C12) . . . .        | 7.50    | RK111-V . . . . .              | 190.00  | SK102 . . . . (order 416T25B)   |        |
| C1-LA32 . . . . .             | 118.00  | (consisting of:                |         | SK964 . (SK11DC) . . .          | 26.00  |
| *C2-G91 . . . . .             | 41.00   | LA1310                         |         | SK965 . (SK11DC) . . .          | 26.00  |
| CL24 . (C295BB) . . . .       | 4.60    | LA1328                         |         | SK967 . (SK11DC) . . .          | 26.00  |
| CL530 . . . . .               | 7.50    | LA1334                         |         | SK1018 . . . . (order 416T25B)  |        |
| CM29 . . . . .                | 91.00   | 416TL31B)                      |         | SK1263 . . . . (order 416T31B)  |        |
| CM528 . . . . . (order 4GC43) |         | RK112 . . . . .                | 24.00   | SK1480 . . . . .                | 134.00 |
| CU18 . (C470BB) . . . .       | 2.00    | RK112-2 . . . . .              | 3.60    | SK1482 . . . . .                | 123.00 |
| CU658 . (C316G) . . . .       | 2.50    | RK113 . . . . .                | 24.00   | SK1483 . . . . . (order SK1482) |        |
| GA17 . . . . .                | .50     | RK114V . . . . .               | 368.00  | SK1529 . . . . . (order SK1482) |        |
| GA20 . (G225BB) . . . .       | .50     | RK115V . . . . .               | 412.50  | SOR4-22 . . . . .               | 15.00  |
| GA181 . . . . .               | .50     | RO12 .(R161C). . . .           | 12.50   | SP1326 . . . . .                | 2.50   |
| GG19 . (G226BB) . . . .       | .50     | RO13 .(R160C). . . .           | 10.50   | ST1397 . . . . .                | 28.00  |
| GR5 . . . . .                 | 27.00   | RO15 . . . . . (order MNR4-22) |         | SX107 . (S951BB) . . .          | 140.00 |
| GR7 . . . . .                 | 40.00   | SA33 . . . . .                 | 1.25    | SX1323 . . . . . (order 4GW31)  |        |
| GR8 . . . . .                 | 38.00   | SA1321 . . . . .               | 12.00   | SX1476 . . . . . (order 7GW31)  |        |
| GR10 . . . . .                | 38.00   | SC3 . . . . .                  | .50     | WA12 . . . . .                  | .50    |
| GR207 . . . . .               | 38.00   | SC7 . . . . .                  | .50     | WA28 . . . . .                  | .50    |
| *GR234 . . . . .              | 39.00   | SC39 . . . . .                 | 1.50    | WA65 . . . . .                  | .50    |
| GR302 . . . . .               | 38.00   | SC69 . . . . .                 | 2.75    | WA126 . . . . .                 | .60    |
| KN30 . . . . .                | 8.00    | SC81 . . . . .                 | .50     | WA151 . . . . .                 | .50    |
| H1-BB30 . . . . .             | 1150.00 | SC82 . . . . .                 | .50     | WH124 . . . . .                 | 64.00  |
| H1-BB31 . . . . .             | 29.00   | SC85 . . . . .                 | .50     | 4GC43 . . . . .                 | 94.00  |
| L2SP31 . . . . .              | 54.00   | SC89 . (S248A) . . . .         | .50     | 4GW31 . . . . .                 | 160.00 |
| L3CP31 . . . . .              | 48.00   | SC94 . . . . .                 | .50     | 7GW31 . . . . .                 | 175.00 |
| L4CS31 . . . . .              | 47.00   | SC95 . (S437G) . . . .         | .50     | 416GL31B . . . . .              | 32.00  |
| LA1310 . . . . .              | 121.00  | SC103 . (S177E). . . .         | .50     | 416T25B . . . . .               | 35.00  |
| LA1328 . . . . .              | 14.00   | SC104 . (S729BB). . . .        | .50     | 416T31B . . . . .               | 35.00  |
| LA1334 . . . . .              | 15.50   | SC105 . (S724BB). . . .        | .50     | 416TL31B . . . . .              | 40.20  |
|                               |         | SC115 . (S485C) . . . .        | 1.25    |                                 |        |

\*We recommend ordering C2G91 and GR234 as "matched sets"