

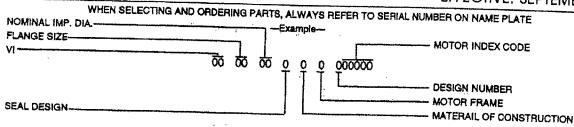
# Replacement Parts List

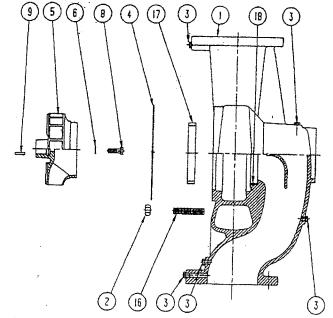
304-103

# VI 2008 & 2508

SUPERSEDES: NEW

EFFECTIVE: SEPTEMBER 1, 1990





| TEM | NO.           |                 | 2008               | 2008        | 2508        | 2508                                   |  |
|-----|---------------|-----------------|--------------------|-------------|-------------|--|--|
| NO. | REQ.          | DESCRIPTION     | FRAME<br>H, J or K | FRAME       | FRAME       | FRAME                                  |  |
| 1   | 1             | CASING          | 950-1050RP         | OFO 10CODD  | H, J or K   | L, M or N                              |  |
| 2   | 8             | NUT             |                    | 950-1050RP  | 950-1053RP  | 950-1053RP                             |  |
| 3   | : 5           | 1/4" NPT PLUG   | -                  | HARC        | WARE        | ·>                                     |  |
| 4   | 1             | GASKET          | <                  | HARC        | WARE        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |  |
| 5   | 1             | IMPELLER (CI)   | 950-1069RP         | 7           | 023RP       | ·>                                     |  |
| 5   | 1             | IMPELLER (BRZ)  | 950-1069BRP        | 950-1097RP  | 950-1100RP  | 950-1072RP                             |  |
| 6   | 1             | IMPELLER WASHER | 951-2578RP         | 950-10978RP | 950-1100BRP | 950-1072BRF                            |  |
| 8   | 1             | IMPELLER BOLT   |                    | 951-2579RP  | 951-2578RP  | 951-2579RP                             |  |
| 9   | 1             | IMPELLER KEY    | <u> </u>           | HARD        | WARE        |  |  |
| 18  | 8             |                 | C                  |             | WARE        |  |  |
| 17  | <del>  </del> | STUD            | <                  | 950-1       | 159RP       |  |  |
| 17  | -!            | WEAR RING (CI)  | 950-1164RP         | 950-1164RP  | 950-1165RP  |  |  |
|     | 1             | WEAR RING (BRZ) | 950-1164BRP        | 950-1164BRP |             | 950-1165RP                             |  |
| 18  | 1             | DOWEL PIN       |                    | 300-11048HF | 950-1165BRP | 950-1165BRP                            |  |

# COMPARE. YOU'LL TAKE TACO.

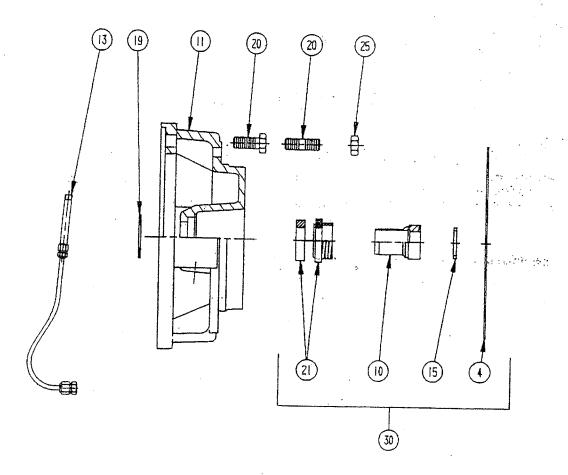
TACO, INC., 1160 Cranston Street, Cranston, RI 02920 (401) 942-8000

FAX: (401) 942-2360.

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Printed in USA

TACO (CANADA) LTD., 6180 Ordan Drive, Mississauga, Ontario L51 2B3



SEAL KIT INCLUDES ITEMS NO. 4, 6, 10, 15 & 21

| ITEM | NO.  | DESCRIPTION       | N.    |                | MOTOR       | FRAME       |            |  |  |  |  |
|------|------|-------------------|-------|----------------|-------------|-------------|------------|--|--|--|--|
| NO.  | REQ. | DESCRIPTION       | /N    | H orJ          | K           | L           | M or N     |  |  |  |  |
| 4    | 1    | GASKET            |       | SEE PAGE NO. 1 |             |             |            |  |  |  |  |
| 10   | 1    | SLEEVE (S         | S)    | 951-3          | 1034RP      | <del></del> | 035RP      |  |  |  |  |
| 10   | 1    | SLEEVE (BR        | Z)    |                | 348RP       |             | 35BRP      |  |  |  |  |
| 11   | 1    | COVER/BRACKET     | 3008  | 951-2285RP     | 951-2287RP  | 951-2289RP  | 951-2292RP |  |  |  |  |
|      |      | COVERIBRACKET     | 5008  | N/A            | 951-2412RP  | 951-2290RP  | N/A        |  |  |  |  |
| 13   | 11   | TUBE FITTING      | KIT   |                | <del></del> | 247RP       |            |  |  |  |  |
| 15   | 1    | SLEEVE GASH       | (ET   | 951-3          | 041RP       | 951-30      | MORP       |  |  |  |  |
| 19   | 1    | DEFLECTO          | ₹     |                | N,          |             | 77611      |  |  |  |  |
| 21   | 11   | SEAL (TYPE        | E)    | 951-3          | 161RP       | 951-31      | 62BB       |  |  |  |  |
| 21   | 1    | SEAL (TYPE        | D)    |                | 159RP       | 951-3160RP  |            |  |  |  |  |
| 30   | 1    | SEAL VIT /TVDC C  | (SS)  |                | 61SRP       | 951-3162SRP |            |  |  |  |  |
|      | '    | SEAL KIT (TYPE E) | (BRZ) |                | 61BRP       | 951-3162BRP |            |  |  |  |  |
| 30   | 1    | CEN KIT COVER D   | (SS)  | 951-31         |             | 951-316     |            |  |  |  |  |
| 30   |      | SEAL KIT (TYPE D) | (BRZ) | 951-31         |             |             |            |  |  |  |  |
| 20   | ,    |                   | 3008  | 001-01         | N/          | 951-316     | NORF       |  |  |  |  |
| 20   | 4    | STUD              | 5008  | N/A            |             |             |            |  |  |  |  |
| 20   | 4    | BOLT              | -500  | IVA            | 16-509RP    | N/          | 4          |  |  |  |  |
| 25   | 4    | NUT               |       |                | HARDY       |             |            |  |  |  |  |
|      |      | 1101              |       |                | HARDV       | VARE        |            |  |  |  |  |

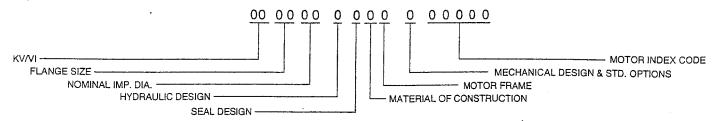


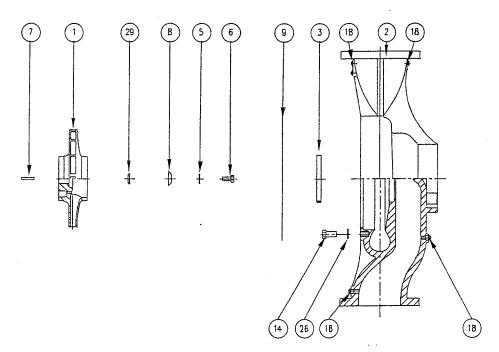
# **Replacement Parts List**

304-329

# KV 2009, 3009

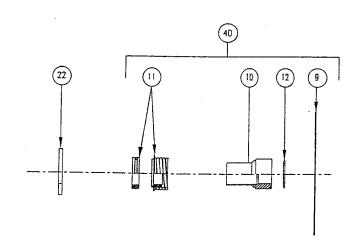
WHEN SELECTING AND ORDERING PARTS, ALWAYS REFER TO SERIAL NUMBER ON NAMEPLATE





| 17514  | NO     |                          | 2009       | 2009                       | 3009                  | 3009       |  |
|--------|--------|--------------------------|------------|----------------------------|-----------------------|------------|--|
| ITEM   | NO.    | DESCRIPTION              | FRAME      | FRAME                      | FRAME                 | FRAME      |  |
| NO.    | REQ.   | DE30(111 110)1           | H,J OR K   | L,M OR N                   | H,J OR-K              | L,M OR N   |  |
| 1      | 1      | IMPELLER (CI)            | 953-1233RP | 953-1235RP                 | 953-1066RP 953-1068RI |            |  |
| 1      | 1      | IMPELLER (BRZ)           | 953-1234RP | 953-1236RP                 | 953-1067RP            | 953-1069RP |  |
| 2      | 1      | CASING (125#)(W/WR OPT)  | 953-1239RP | 53-1239RP 953-1239RP 95.   |                       | 953-1072RP |  |
| 2      | 1      | CASING (250#)(W/WR OPT)  | 953-1240RP | 953-1240RP                 | 953-1073RP            | 953-1073RP |  |
| 2      | 1      | CASING (125#)(NO WR STD) | 953-1427P  | 953-1427P                  | 953-1431RP            | 953-1431RP |  |
| 2      | 11     | CASING (250#)(NO WR STD) | 953-1429RP | 953-1429RP                 | 953-1433RP            | 953-1433RP |  |
| 3      | 1(W/R) | WEAR RING (BRZ) (OPT)    | 953-1221RP | 953-1221RP                 | 953-1076RP            | 953-1076RP |  |
| _ 5    | 1      | DOWDY WASHER             | 951-2578RP | 951-2578RP 951-2579RP 951- |                       | 951-2579RP |  |
| _ 6    | 1      | IMPELLER BOLT            | HARD       | WARE -                     | HARDWARE              |            |  |
| 7.     | 1      | IMPELLER KEY             | HARD       | WARE                       | HARD                  | WARE       |  |
| . 8 is | 1      | IMPELLER WASHER          | 953-828RP  | 953-829RP                  | \$953-828RP           | 953-829RP  |  |
| 9      | 1      | GASKET (CASING)          | 953-1009RP | 953-1009RP                 | 953-1009RP            | 953-1009RP |  |
| 14     | 8      | CASING BOLT              | - HARD     | WARE -                     | HARD                  | WARE       |  |
| _18    | 5      | PIPE PLUG                | HARD       | WARE -                     | HARD                  | WARE -     |  |
| 26     | 8      | CASING WASHER            | - HARD     | WARE -                     | HARDWARE              |            |  |
| 29     | 1      | IMPELLER GASKET          | 953-830RP  | 953-759RP                  | 953-830RP             | 953-759RP  |  |





|                 |                                       |                       | 1506, 2006,<br>3006                |                                    | 1506, 2006,<br>3006                |                                    |
|-----------------|---------------------------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|                 |                                       |                       | 1507, 2007,<br>3007, 4007,<br>5007 | 2007,<br>3007, 4007,<br>5007       | 1507, 2007,<br>3007, 4007,<br>5007 | 2007,<br>3007, 4007,<br>5007       |
|                 |                                       |                       | 2009, 3009,<br>4009, 6009          | 2009, 3009,<br>4009, 6009          | 2009, 3009,<br>4009, 6009          | 2009, 3009,<br>4009, 6009          |
|                 |                                       |                       | 2011, 3011,<br>4011, 6011,         | 2011, 3011,<br>4011, 6011,<br>8011 | 2011, 3011,<br>4011, 5011,         | 2011, 3011,<br>4011, 5011,<br>8011 |
|                 | · · · · · · · · · · · · · · · · · · · |                       | 3013, 4013,<br>6013                | 3013, 4013,<br>6013, 8013          | 3013, 4013,<br>6013                | 3013, 4013,<br>6013, 8013          |
| ITEM            | NO.                                   |                       |                                    | OR FRAME                           | MOTO                               | OR FRAME                           |
| NO.             | REQ.                                  | DESCRIPTION           | H, J OR K                          | L,M,N OR R                         | H, J OR K                          | L,M,N OR R                         |
|                 |                                       |                       | MECHANICAL DES                     | . A OR C (125#                     | MECHANICAL DES                     | 6. B OR D (250#)                   |
| 9               | 1                                     | GASKET (CASING)       | SEE PAGE 1                         | SEE PAGE 1                         | SEE PAGE 1                         | SEE PAGE 1                         |
| 10              |                                       | SLEEVE (SS)           | 953-1118                           | 953-1170                           | 953-1118                           | 953-1170                           |
| 10              | 1                                     | SLEEVE (BRZ)          | 953-1119                           | 953-1171                           | 953-1119                           | 953-1171                           |
| 11              | 1                                     | SEAL (TYPE B)         | 951-3157RP                         | 951-3158RP                         | 951-3766RP                         | 951-5158RP                         |
| 11              |                                       | SEAL (TYPE D)         | 951-3159RP                         | 951-3160RP                         | 951-3781RP                         | 951-5159RP                         |
| 11              |                                       | SEAL (TYPE E)         | 951-3161RP                         | 951-3162RP                         | 951-3782RP                         | 951-5160RP                         |
| 12              | 1                                     | SLEEVE GASKET         | 953-830RP                          | 951-3042RP                         | 953-830RP                          | 951-3042RP                         |
| 22              |                                       | DEFLECTOR             | 900-044                            | 951-3065                           | 900-044                            | 951-3065                           |
| 40              |                                       | SEAL KIT (TYPE B) SS  | 9%5-1549-4RP                       | 953-1549-4RP                       | 953-1549-7RP                       | 953-1549-10RP                      |
| 40              |                                       | SEAL KIT (TYPE B) BRZ | 953-1549-1BRP                      | 953-1549-4BRP                      |                                    | 953-1549-10BRP                     |
| 40              |                                       | SEAL KIT (TYPE D) SS  | 953-1549-2RP                       | 953-1549-5RP                       | 953-1549-8RP                       | 953-1549-11RP                      |
| 40              |                                       | SEAL KIT (TYPE D) BRZ | 953-1549-2BRP                      | 953-1549-5BRP                      | 953-1549-8BRP                      | 953-1549-11BRP                     |
| <u>40</u><br>40 | -                                     | SEAL KIT (TYPE E) SS  | 953-1549-3RP                       | 953-1549-6RP                       | 953-1549-9RP                       | 953-1549-12RP                      |
| 21(1 1          | 1 1                                   | SEAL KIT (TYPE E) BRZ | 953-1549-3BRP                      | 953_1549_6BRP                      | 953-1549-98RP                      | 053_1540_10BDD                     |



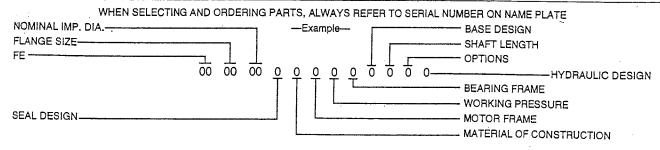
# Replacement Parts List

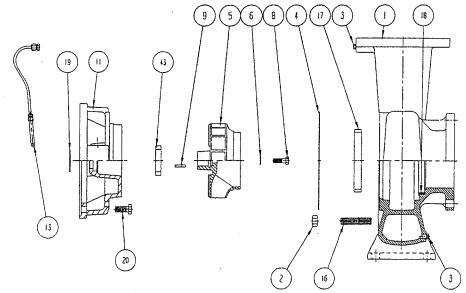
304-303

**FE 2507, 3007, 2008 & 2508** 

SUPERSEDES: NEW

EFFECTIVE: NOVEMBER 1, 1993



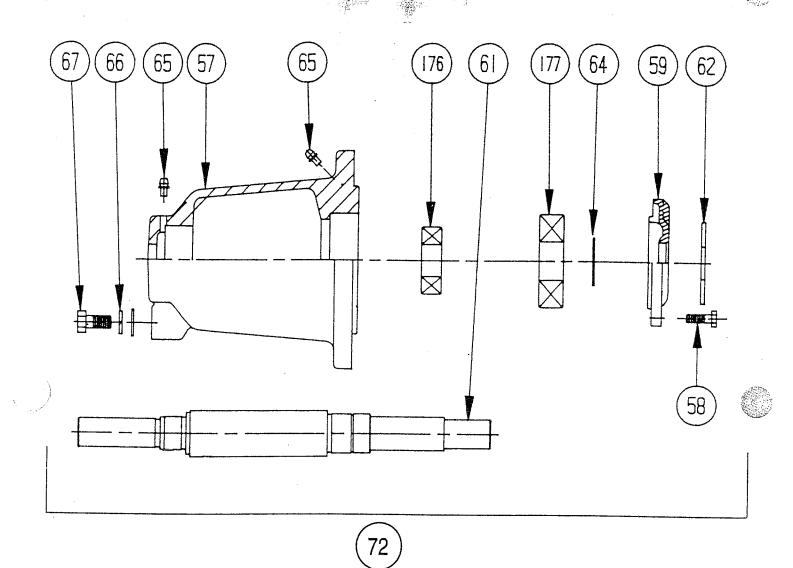


| ITEM<br>NO. | NO.<br>REQ. | DESCRIPTION           | 2507                | 3007              | 2008        | 2508                   |  |
|-------------|-------------|-----------------------|---------------------|-------------------|-------------|------------------------|--|
| 1           | 1           | CASING                | 950-1009RP          | 950-1010RP        | 950-1011RP  | 950-1012RP             |  |
| 2           | 8           | NUT                   | HARDWARE            | HARDWARE          | HARDWARE    | HARDWARE               |  |
| 3           | 2           | SQ. HEAD PLUG         | HARDWARE            | HARDWARE HARDWARE |             | HARDWARE               |  |
| 4           | 1           | GASKET                | 950-022RP 950-022RP |                   | 950-023RP   | <sup>2</sup> 950-023RP |  |
| 5           | 1           | IMPELLER (CI)         | 950-1070RP          | 950-1071RP        | 950-1072RP  | 950-1073RP             |  |
| 5           | 1           | IMPELLER (BRZ)        | 950-1070BRP         | 950-1071BRP       | 950-1072BRP | 950-1073BRP            |  |
| 6           | 1           | IMPELLER WASHER       | 951-2579RP          | 951-2579RP        | 951-2579RP  | 951-2579RP             |  |
| 8           | 1           | IMPELLER BOLT (SS)    | HARDWARE            | HARDWARE          | HARDWARE    | HARDWARE               |  |
| 9           | 1           | IMPELLER KEY (SS)     | HARDWARE            | HARDWARE          | HARDWARE    | HARDWARE               |  |
| 11          | 1           | COVER                 | 951-2282RP          | 951-2282RP        | 951-2289RP  | 951-2289RP             |  |
| 13          | 1           | TUBE FITTING KIT      | 951-247RP           | 951-247RP         | 951-247RP   | 951-247RP              |  |
| 16          | 8           | STUD                  | 950-1158RP          | 950-1158RP        | 950-1159RP  | 950-1159RP             |  |
| 17          | 1           | WEAR RING (CI)        | 950-1166RP          | 950-1167RP        | 950-1165RP  | 950-1166RP             |  |
| 17          | 1           | WEAR RING (BRZ)       | 950-1166BRP         | 950-1167BRP       | 950-1165BRP | 950-1166BRP            |  |
| 18          | 1           | DOWEL PIN             | N/A                 | N/A               | N/A         | N/A                    |  |
| 20          | 1           | BOLT                  |                     | HARD'             | WARE .      |                        |  |
| 43          | 1           | COVER WEAR RING (CI)  | N/A                 | N/A               | N/A         | N/A                    |  |
| 43          | 1           | COVER WEAR RING (BRZ) | N/A                 | N/A               | N/A         | N/A                    |  |

## COMPARE. YOU'LL TAKE TACO.

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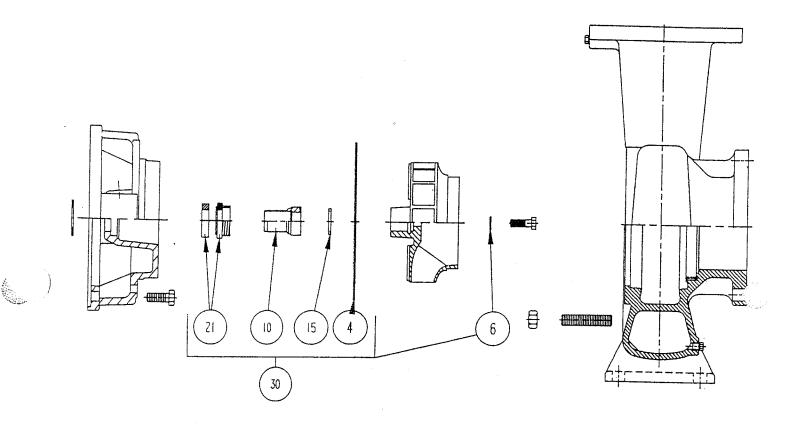
## FRAME PARTS



#### FRAME PARTS FOR "F" SIZE PUMP

| ITEM<br>NO. | NO.<br>REQ. | DESCRIPTION         | PART NO.   | REMARKS               |
|-------------|-------------|---------------------|------------|-----------------------|
| 72          | 1           | FRAME ASSEMBLY (CS) | 951-2493RP | CARBON STEEL SHAFT    |
| 72          | 1           | FRAME ASSEMBLY (SS) | 951-2953RP | STAINLESS STEEL SHAFT |
| 57          | 1           | FRAME               | N/A        |                       |
| 58          | 4           | HEX HD. SCREWS      | HARDWARE   |                       |
| 59          | 1           | BEARING COVER       | 951-2405RP |                       |
| 176         | 1           | BALL BEARING        | 951-2491RP |                       |
| 177         | 1           | BALL BEARING        | 950-963RP  |                       |
| 61          | 1           | SHAFT (CS)          | 951-2407RP | CARBON STEEL          |
| 61          | 1           | SHAFT (SS)          | 951-2950RP | STAINLESS STEEL       |
| 62          | 1           | DEFLECTOR           | N/A        |                       |
| 64          | 1           | RETAINING RING      | 15-140RP   |                       |
| 65          | 2           | GREASE FITTING      | 15-203RP   |                       |
| 66          | 1           | WASHER              | HARDWARE   |                       |
| 67          | 1           | BOLT                | HARDWARE   |                       |

## **MECHANICAL SEAL DESIGN**

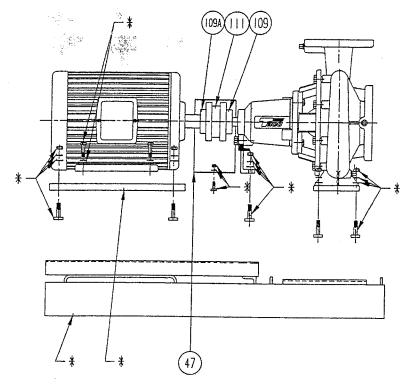


TYPE "E" STANDARD, TYPE "D" HI TEMP

| ITEM | NO.  | DESCRIPTION     | SEAL DESIGN            |             |  |  |  |  |
|------|------|-----------------|------------------------|-------------|--|--|--|--|
| NO.  | REQ. | DESCRIPTION     | TYPE "E"               | TYPE "D"    |  |  |  |  |
| 4    | 1    | GASKET          | SEE PAGE 1             |             |  |  |  |  |
| 6    | 1    | IMPELLER WASHER | 951-25                 | 579RP       |  |  |  |  |
| 10   | 1    | SLEEVE (SS)     | 951-3035RP             |             |  |  |  |  |
| 10   | 1    | SLEEVE (BRZ)    | 951-3035BRP            |             |  |  |  |  |
| 15   | 1    | SLEEVE GASKET   | 951-30                 | 042RP       |  |  |  |  |
| 30   | 1    | SEAL KIT        | 951-3162SRP            | 951-3160SRP |  |  |  |  |
| 30   | 1    | SEAL KIT        | 951-3162BRP 951-3160BF |             |  |  |  |  |
| 21   | 1    | WATER SEAL      | 951-3162RP 951-3160RP  |             |  |  |  |  |

SEAL KIT INCLUDES ITEMS NUMBER 4, 6, 10, 15 & 21.

# **MOTOR PARTS**



### \*SEE FE BASE HARDWARE SPREAD SHEET FOR ALL PUMPS

|       | E PUN | IPS NO. 2507     |           |                                  |       |            |   |                                       |             | •         |       |             | *************************************** |             |  |
|-------|-------|------------------|-----------|----------------------------------|-------|------------|---|---------------------------------------|-------------|-----------|-------|-------------|---|-------------|--|
| -,    | NO.   | DESCRIPTION      |           | MOTOR FRAME SIZE (NEMA STD.) "T" |       |            |   |                                       |             |           |       |             |   |             |  |
|       | REQ.  | DESCRIPTION      | 143T      | 145T                             | 182T  | 184T       | 213T                                    | 215T                                  | 254T        | 256T      | 284TS | 286TS       |   |             |  |
| 47    | 1     | COUPL. GUARD     |           | 951-30                           | 75RP  |            |   |                                       | 951-30      | 78RP      | L     | <del></del> |   |             |  |
| 109   | 1     | PUMP COUPL. HALF |           |                                  | 900-3 | 328RP      | *************************************** | · · · · · · · · · · · · · · · · · · · | T           | 900-364RF |       | 900-427RP   |   | <del></del> |  |
| 109A  | 1     | MTR. COUPL. HALF | 900-3     | 900-325RP 900-327RP              |       |            |   | 28RP                                  |             | 900-365RP |       |             | 900-428RP                               |             |  |
| 111   | 1     | COUPL. INSERT    | 900-513RP |                                  |       |            |   |                                       |             | 900-514RP |       | 900-515RP   |   | ~           |  |
|       |       |                  |           |                                  |       |            |   |                                       | *           |           |       |             |   |             |  |
| FOR F | E PUM | IPS NO. 3007     |           |                                  |       |            |   |                                       |             |           |       |             |   |             |  |
| ITEM  | NO.   | DESCRIPTION      |           |                                  |       |            | MOTOR                                   | FRAME S                               | IZE (NEMA S | TD.) "T"  |       |             |   |             |  |
| NO.   | REQ.  | DESCRIPTION      |           | 145T                             | 182T  | 184T       | 213T                                    | 215T                                  | 254T        | 256T      | 284TS | 286TS       | 324TS                                   | 326TS       |  |
| 47    | 1     | COUPL, GUARD     |           |                                  |       | 951-3076RF | )                                       |                                       |             |           | 951-3 | 079RP       |   |             |  |
| 109   | 1     | PUMP COUPL. HALF |           |                                  |       | 900-3      | 28RP                                    |                                       |             | 900-3     | 64RP  | T           | 900-427RP                               | ~           |  |
| 109A  | 1     | MTR. COUPL. HALF |           | 900-325RP                        | 900-3 | 27RP       | 900-32                                  | 28RP                                  | 951-367RP   | 900-365RP |       | 900-428RP   | 900-437RP                               |             |  |
| 111   | 1     | COUPL, INSERT    |           | 900-513RP                        |       |            |   |                                       |             | 900-514RP |       | 900-515RP   |   |             |  |

|      | NO. | DESCRIPTION      | MOTOR FRAME SIZE (NEMA STD.) "T" |                     |       |            |                     |      |      |           |           |           |
|------|-----|------------------|----------------------------------|---------------------|-------|------------|---------------------|------|------|-----------|-----------|-----------|
| NO.  |     | DESCRIPTION      | 143T                             | 145T                | 182T  | 184T       | 213T                | 215T | 254T | 256T      | 284TS     | 286TS     |
| 47   | 1   | COUPL, GUARD     | 951-3075RP                       |                     |       | 951-3078AP |                     |      |      |           |           |           |
| 109  | 1   | PUMP COUPL. HALF |                                  |                     | 900-3 | 28RP       |                     |      |      | 900-364RP |           | 900-427RP |
| 109A | 1   | MTR. COUPL. HALF | 900-3                            | 900-325RP 900-327RP |       |            | 900-328RP 900-365RP |      |      |           | 900-428RP |           |
| 111  | 1   | COUPL. INSERT    | 900-513RP                        |                     |       |            |                     |      |      | 900-514RP |           | 900-515RP |

| FOR F  | E PUN | MPS NO. 2508     | -                                |       |              |              |      |           |            |       |           |           |       |  |
|--|-------|------------------|----------------------------------|-------|--------------|--------------|------|-----------|------------|-------|-----------|-----------|-------|--|
| 1  | NO.   | DESCRIPTION      | MOTOR FRAME SIZE (NEMA STD.) "T" |       |              |              |      |           |            |       |           |           |       |  |
|  | REQ.  | DESCRIPTION      | 145T                             | 182T  | 184T         | 213T         | 215T | 254T      | 2567       | 284TS | 286TS     | 324TS     | 326TS |  |
|  | 1     | COUPL. GUARD     |                                  | (     | 951-3076RP   |              | ·    |           | 951-3079RP |       |           |           |       |  |
| State of the state | 1     | PUMP COUPL HALF  |                                  |       | 900-32       | 28RP         | **   | 1         | 900-364RP  |       |           | 900-427RP |       |  |
| 109A   | 1     | MTR. COUPL. HALF | 900-325RP                        | 900-3 | 27R <b>P</b> | RP 900-328RP |      | 951-367RP | 900-365RP  |       | 900-428RP | 900-4     | 37RP  |  |
| 111  | 1     | COUPL. INSERT    | 900-513RP                        |       |              |              |      |           | 900-514RP  |       | 900-515RP |           |       |  |

# PRODUCT RETURNS/WARRANTS

# Commercial Pump Warranty Terms (Models CE, FE, VC, VI, TA)

Taco, Inc. will repair or replace without charge (at the Company's option) any commercial pump product or part which is proven defective under normal use within one (1) year from date of start-up or one (1) year and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under warranty, it is the responsibility of the purchaser to promptly notify the Company in writing and promptly deliver the item in question, delivery prepaid to the factory. For complete details on warranty returns, the purchaser should contact a local Taco stocking distributor or the Company. If the product or part in question contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Motors provided on commercial pumps are not covered by this warranty, and are warranted by the motor manufacturer. For complete details on motor warranty returns, the purchaser should contact the motor manufacturer's local service repair center or contact the motor manufacturer directly.

Seals provided on commercial pumps are not covered by this warranty.

Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subjected to misuse, misapplication, the presence of certain chemicals (such as solvents, acids, etc.) or other abuse will not be covered by this warranty. For complete information on chemical and application restrictions, the purchaser should contact the company.

Taco, Inc. reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

Taco Incorporated offers this warranty in lieu of all other express or implied warranties. No warranties are made for merchant ability or fitness for use and there are no warranties that extend beyond the description contained herein. Taco, Inc. will not be liable for any special, incidental, or consequential damages.

Taco, Inc. 1160 Cranston Street, Cranston, RI 02920 (401) 942-8000

Scoop Rev. 10/00

# PRODUCT RETURNS/WARRANTY

## Warranty Terms

All products except 00 series circulators, 570 series electric zone valves, commercial pumps, and commercial circulators. See separate statements of warranty terms for these products.

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Scoop Rev. 10/00

## **Problem Analysis**

#### A. NO DISCHARGE

- 1. Pump not primed
  Speed too low (when direct connected to electric motor determine whether or not motor is
  across the line and receives full
  voltage)
- 3. System head too high
- 4. Suction lift higher than that for which pump is designed
- 5. Impeller completely plugged
- 6. Wrong direction of rotation
- 7. Air leak in the suction line
- 8. Air leak through stuffing box

#### **B. INSUFFICIENT DISCHARGE**

- 1. Air leaks in suction line or stuffing
- Speed too low (when direct connected to electric motor, determine whether or not motor is across the line and receives full voltage)
- 3. System head higher than anticipated
- Insufficient NPSH (net positive suction head). Suction lift too high. Check with gauges. Check also for clogged suction line or screen.
- 5. Not enough suction head for hot or volatile liquids
- 6. Foot valve too small
- 7. Impeller partially plugged
- 8. Mechanical defects:

Wearing rings worn
Impeller damaged
Foot valve or suction opening
not submerged enough
Wrong direction of rotation

#### C. INSUFFICIENT PRESSURE

- Speed too low (when direct connected to electric motor, determine whether or not motor is across the line and receives full voltage)
- 2. System head less than anticipated
- 3. Air or gas in liquid
- 4. Mechanical defects:

Wearing rings worn Impeller damaged Impeller diameter too small Wrong direction of rotation

#### D. LOSS OF SUCTION FOLLOWING PERIOD OF SATISFACTORY OPERATION

- 1. Leaky suction line
- 2. Waterseal plugged
- Suction lift too high or insufficient NPSH
- 4. Air or gas in liquid
- 5. Casing gasket defective
- 6. Clogging of strainer

# E. EXCESSIVE POWER CONSUMPTION

- 1. Speed too high
- 2. System head lower than rating, pumps too much liquid
- 3. Specific gravity or viscosity of liquid is too high
- 4. Mechanical defects:

Shaft bent
Rotating element binds
Stuffing boxes too tight
Wearing rings worn

#### F. VIBRATION

- 1. Air leak in suction line
- 2. Air or gas in liquid
- 3. Impeller partially plugged
- 4. Mechanical defects:

  Damaged impeller

  Misalignment of pump and

driver
Bearing worn
Rotor cut of balance
Shaft bent

5. Foundation not rigid

#### G. MOTOR RUNS HOT

- 1. Speed too high
- 2. Specific gravity or viscosity of liquid pumped is too high
- Mechanical defects:

   Shaft bent
   Rotating element binds
   Defects in motor

   Voltage and/or frequency lower than rating
   Misalignment of pump and
  - driver

#### H. PUMP BEARINGS OVERHEAT

- 1. Contaminated lubricant
- 2. Mechanical defects:

Shaft bent
Rotor out of balance
Misalignment of pump and
driver



#### **Commercial Pump Warranty Terms**

(Models FI, CI, FE, CE, KV, KS, TA)

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## Do it Once. Do it Right.

TACO, INC., 1160 Cranston Street, Cranston, RI 02920 Telephone: (401) 942-8000 FAX: (401) 942-2360.

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