

# Extra Heavy Duty K Transmission Service Parts List

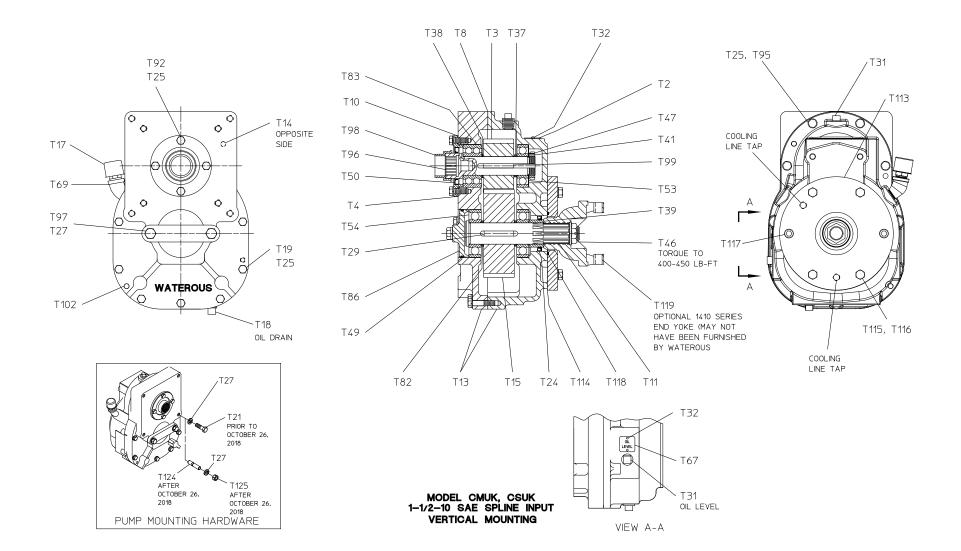
#### Index:

|   |                                | Transmission                  | Transmission              |                            | See Page   |            |  |
|---|--------------------------------|-------------------------------|---------------------------|----------------------------|------------|------------|--|
| Pump Model<br>(Located on Serial Plate) | Pump Impeller<br>Shaft Design  |                               | Mounting                  | Transmission<br>Components | Oil Cooler |            |  |
| (Ecolor on Conarriato)                  | onan Design                    | Input Shaft                   |                           |                            | Internal   | External   |  |
|   | Separable from<br>Transmission | 1-1/2-10 SAE Spline           | Vertical                  | 2, 3                       | N/A        | 14, 15     |  |
| CMUK, CSUK                              |                                | 1-1/2-10 SAE Splitte          | Inverted                  | 4, 5                       | N/A        | N/A        |  |
|   | Tallomoolon                    | SAE Class D Hydraulic Adapter | Vertical                  | 6, 7                       | N/A        | N/A        |  |
| СНК-4                                   | One-Piece<br>(Non-Separable)   | 1-1/2-10 SAE Spline           | Vertical or<br>Horizontal | 8, 9                       | 10 10      | N/A        |  |
| CTK-4                                   | Separable from<br>Transmission | 1-1/2-10 SAE Spline           | Vertical or<br>Horizontal | 10, 11                     | 12, 13     | N/A<br>N/A |  |

#### 1-1/2-10 SAE Spline Input Shaft (1410 Series End Yoke) – Vertical Mounting

| REF.<br>NO. | DESCRIPTION  |
|-------------|--|
| T2          | Serial Plate   |
| Т3          | Driven Gear  |
| T4          | Oil Seal Housing Gasket  |
| Т8          | Gear Case Gasket   |
| T10         | Oil Seal Housing   |
| T11         | Drive Shaft  |
| T13         | Gear Case Subassembly  |
| T14         | Dowel Pin, 3/8 x 1 in.   |
| T15         | Drive Gear   |
| T17         | Breather, 1/2 NPT  |
| T18         | Magnetic Drain Plug, 1/2 NPT   |
| T19         | Hex Head Screw, 3/8-16 x 1-3/4 in.   |
| T21         | Hex Head Screw, 1/2-13 x 1-1/2 in., Grade 5 (Used Prior to October 26, 2018) |
| T24         | Oil Seal, 2 x 2-5/8 in.  |
| T25         | Lock Washer, 3/8 in.   |
| T27         | Lock Washer, 1/2 in.   |
| T29         | Square Key, 3/8 x 3/8 x 2-3/16 in.   |
| T31         | Pipe Plug, 1/2 NPT   |
| T32         | Drive Screw, No. 6 x 1/4 in.   |
| T37         | Impeller Shaft Spacer (.245 in. Wide)  |
| T38         | Impeller Shaft Spacer (.115 in. Wide)  |
| T39         | Oil Seal Sleeve  |
| T41         | Bearing Locknut  |
| T46         | Shaft Nut, 1-20  |
| T47         | Bearing Lockwasher   |
| T49         | O-ring, 3-1/4 x 3-1/2 in.  |

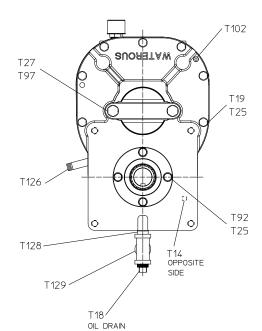
| REF.<br>NO. | DESCRIPTION  |
|-------------|--|
| T50         | Oil Seal, 1-7/8 x 2-3/4 in.  |
| T53         | Single Row Impeller Shaft Ball Bearing                                     |
| T54         | Drive Shaft Ball Bearing   |
| T67         | Oil Level Plate  |
| T69         | Street Elbow, 45 Deg., 1/2 NPT   |
| T82         | Drive Shaft Spacer   |
| T83         | Double Row Impeller Shaft Ball Bearing                                     |
| T86         | Bearing Retainer   |
| T92         | Hex Head Screw, 3/8-16 x 1 in.   |
| T95         | Hex Head Screw, 1/2-13 x 1-1/4 in.   |
| T96         | Driven Shaft   |
| T97         | Hex Head Screw, 1/2-13 x 1 in.   |
| T98         | V-Ring Flinger (Used Prior to August 26, 1993)                             |
| 190         | Sealing Boot (Used After August 26, 1993)                                  |
| Т99         | Square Key, 5/16 x 5/16 x 2-3/16 in.                                       |
| T102        | Dowel Pin, 3/8 x 1-1/2 in.   |
| T113        | Cooling Plate  |
| T114        | Cooling Plate Gasket   |
| T115        | Hex Head Screw, 7/16-14 x 1-1/2 in.  |
| T116        | Lock Washer, 7/16 in.  |
| T117        | Socket Head Screw, 7/16-14 x 7/8 in.                                       |
| T118        | O-ring, 2-1/4 x 3 in.  |
| T119        | Yoke, 1410 Series<br>(After October 28, 2013 Now a Line-Item on the Order) |
| T124        | Stud, 1/2-13 x 2-1/4 in. (Used After October 26, 2018)                     |
| T125        | Hex Nut, 1/2-13 (Used After October 26, 2018)                              |

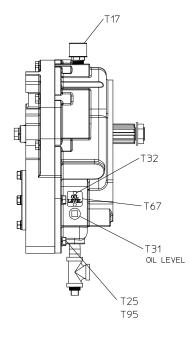


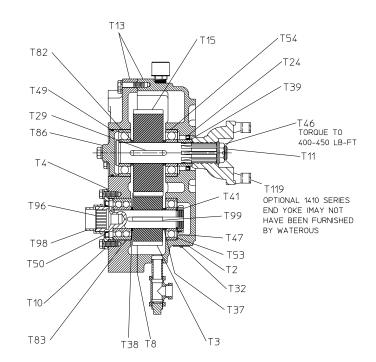
#### 1-1/2-10 SAE Spline Input Shaft (1410 Series End Yoke) – Inverted Mounting

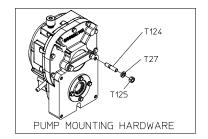
| REF.<br>NO. | DESCRIPTION                           |
|-------------|---------------------------------------|
| T2          | Serial Plate                          |
| Т3          | Driven Gear                           |
| T4          | Oil Seal Housing Gasket               |
| T8          | Gear Case Gasket                      |
| T10         | Oil Seal Housing                      |
| T11         | Drive Shaft                           |
| T13         | Gear Case Subassembly                 |
| T14         | Dowel Pin, 3/8 x 1 in.                |
| T15         | Drive Gear                            |
| T17         | Breather, 1/2 NPT                     |
| T18         | Magnetic Drain Plug, 1/2 NPT          |
| T19         | Hex Head Screw, 3/8-16 x 1-3/4 in.    |
| T24         | Oil Seal, 2 x 2-5/8 in.               |
| T25         | Lock Washer, 3/8 in.                  |
| T27         | Lock Washer, 1/2 in.                  |
| T29         | Square Key, 3/8 x 3/8 x 2-3/16 in.    |
| T31         | Pipe Plug, 1/2 NPT                    |
| T32         | Drive Screw, No. 6 x 1/4 in.          |
| T37         | Impeller Shaft Spacer (.245 in. Wide) |
| T38         | Impeller Shaft Spacer (.115 in. Wide) |
| T39         | Oil Seal Sleeve                       |
| T41         | Bearing Locknut                       |
| T46         | Shaft Nut, 1-20                       |
| T47         | Bearing Lockwasher                    |

| REF.<br>NO. | DESCRIPTION  |
|-------------|--|
| T49         | O-ring, 3-1/4 x 3-1/2 in.  |
| T50         | Oil Seal, 1-7/8 x 2-3/4 in.  |
| T53         | Single Row Impeller Shaft Ball Bearing                                     |
| T54         | Drive Shaft Ball Bearing   |
| T67         | Oil Level Plate  |
| T82         | Drive Shaft Spacer   |
| T83         | Double Row Impeller Shaft Ball Bearing                                     |
| T86         | Bearing Retainer   |
| T92         | Hex Head Screw, 3/8-16 x 1 in.   |
| T95         | Hex Head Screw, 1/2-13 x 1-1/4 in.   |
| T96         | Driven Shaft   |
| T97         | Hex Head Screw, 1/2-13 x 1 in.   |
| Т98         | V-Ring Flinger (Used Prior to August 26, 1993)                             |
| 190         | Sealing Boot (Used After August 26, 1993)                                  |
| Т99         | Square Key, 5/16 x 5/16 x 2-3/16 in.                                       |
| T102        | Dowel Pin, 3/8 x 1-1/2 in.   |
| T119        | Yoke, 1410 Series<br>(After October 28, 2013 Now a Line-Item on the Order) |
| T124        | Stud, 1/2-13 x 2-1/4 in.   |
| T125        | Hex Nut, 1/2-13  |
| T126        | Nipple Pipe, 1/4 x 2-1/2 in.   |
| T128        | Nipple Pipe, 1/2 x 1-1/2 in.   |
| T129        | Tee, 1/2 NPT   |









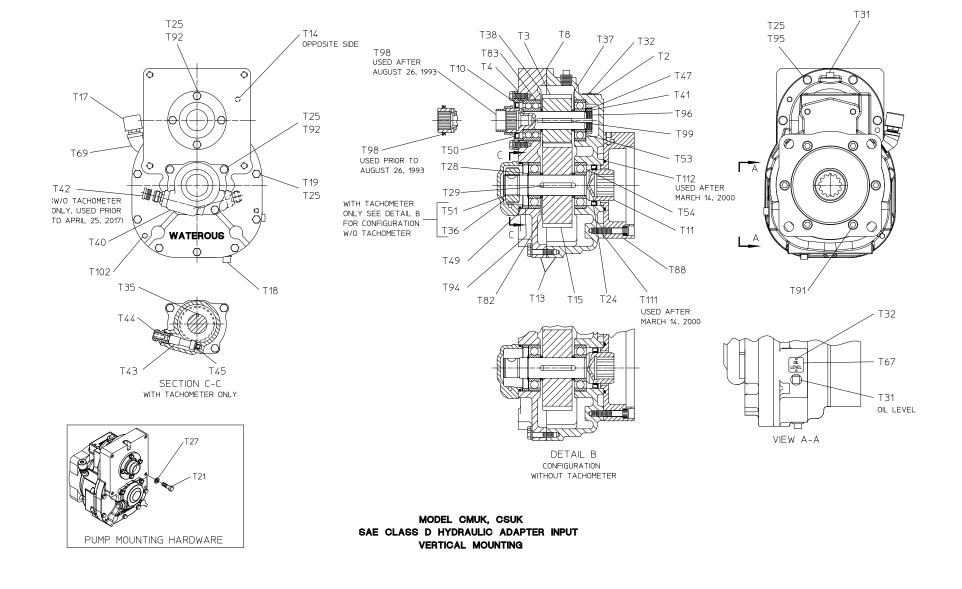
MODEL CMUK, CSUK 1—1/2—10 SAE SPLINE INPUT INVERTED MOUNTING

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SAE Class D Hydraulic Adapter Input

| REF.<br>NO. | DESCRIPTION                                  |
|-------------|--|
| T2          | Serial Plate                                 |
| Т3          | Driven Gear                                  |
| T4          | Oil Seal Housing Gasket                      |
| Т8          | Gear Case Gasket                             |
| T10         | Oil Seal Housing                             |
| T11         | Drive Shaft                                  |
| T13         | Gear Case Subassembly                        |
| T14         | Dowel Pin, 3/8 x 1 in.                       |
| T15         | Drive Gear                                   |
| T17         | Breather, 1/2 NPT                            |
| T18         | Magnetic Drain Plug, 1/2 NPT                 |
| T19         | Hex Head Screw, 3/8-16 x 1-3/4 in.           |
| T21         | Hex Head Screw, 1/2-13 x 1-1/2 in. , Grade 5 |
| T24         | Oil Seal, 2-3/8 x 3-1/8 in.                  |
| T25         | Lock Washer, 1/2 in.                         |
| T27         | Lock Washer, 1/2 in.                         |
| T28         | Retaining Ring                               |
| T29         | Square Key, 3/8 x 3/8 x 2-3/16 in.           |
| T31         | Pipe Plug, 1/2 in. NPT                       |
| T32         | Drive Screw, No. 6 x 1/4 in.                 |
| T35         | Woodruff Key, 406                            |
| T36         | Tachometer Drive Gear                        |
| T37         | Impeller Shaft Spacer (.245 in. Wide)        |
| T38         | Impeller Shaft Spacer (.115 in. Wide)        |
| T40         | Tachometer Gear Housing                      |
| T41         | Bearing Locknut                              |

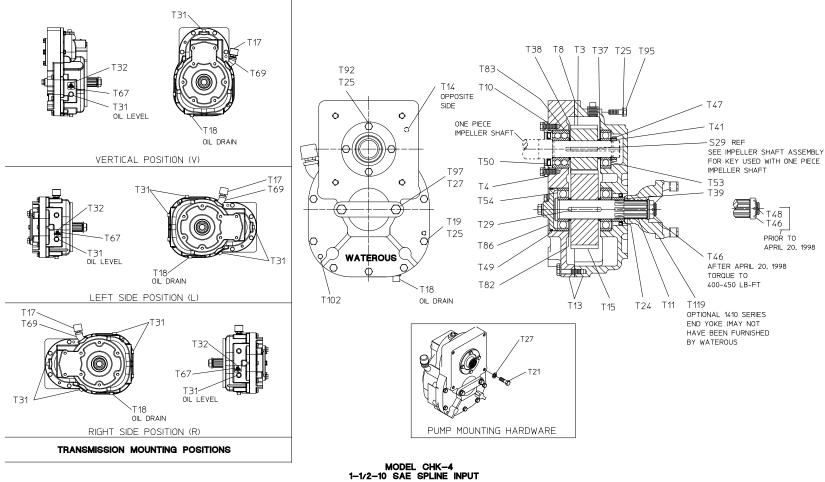
| REF.<br>NO. | DESCRIPTION                                    |
|-------------|--|
| T43         | Tachometer Driven Gear                         |
| T44         | Tachometer Sleeve                              |
| T45         | Tachometer Bushing                             |
| T47         | Bearing Lockwasher                             |
| T49         | O-ring, 3-1/4 x 3-1/2 in.                      |
| T50         | Oil Seal, 1-7/8 x 2-3/4 in.                    |
| T51         | Retaining Ring                                 |
| T53         | Single Row Impeller Shaft Ball Bearing         |
| T54         | Drive Shaft Ball Bearing                       |
| T67         | Oil Level Plate                                |
| T69         | Street Elbow, 45 Deg., 1/2 NPT                 |
| T82         | Drive Shaft Spacer                             |
| T83         | Double Row Impeller Shaft Ball Bearing         |
| T88         | Hydraulic Input Adapter                        |
| T91         | Socket Head Screw, 7/16-14 x 1-1/4 in.         |
| T92         | Hex Head Screw, 3/8-16 x 1 in.                 |
| T94         | Tachometer Housing Spacer                      |
| T95         | Hex Head Screw, 1/2-13 x 1-1/4 in.             |
| T96         | Driven Shaft                                   |
| T98         | V-Ring Flinger (Used Prior to August 26, 1993) |
| 190         | Sealing Boot (Used After August 26, 1993)      |
| T99         | Square Key, 5/16 x 5/16 x 2-3/16 in.           |
| T102        | Dowel Pin, 3/8 x 1-1/2 in.                     |
| T111        | Hydraulic Input Adapter Gasket                 |
| T112        | O-ring, 3-1/2 x 3-3/4 in.                      |



#### Model CHK-4 One-Piece (Non-Separable) Impeller Shaft Design

| REF.<br>NO. | DESCRIPTION                                 |
|-------------|---|
| Т3          | Driven Gear                                 |
| T4          | Oil Seal Housing Gasket                     |
| Т8          | Gear Case Gasket                            |
| T10         | Oil Seal Housing                            |
| T11         | Drive Shaft                                 |
| T13         | Gear Case Subassembly                       |
| T14         | Dowel Pin, 3/8 x 1 in.                      |
| T15         | Drive Gear                                  |
| T17         | Breather, 1/2 NPT                           |
| T18         | Magnetic Drain Plug, 1/2 NPT                |
| T19         | Hex Head Screw, 3/8-16 x 1-3/4 in.          |
| T21         | Hex Head Screw, 1/2-13 x 1-1/2 in., Grade 5 |
| T24         | Oil Seal, 2 x 2-5/8 in.                     |
| T25         | Lock Washer, 3/8 in.                        |
| T27         | Lock Washer, 1/2 in.                        |
| T29         | Square Key, 3/8 x 3/8 x 2-3/16 in.          |
| T31         | Pipe Plug, 1/2 in. NPT                      |
| T37         | Impeller Shaft Spacer (.245 in. Wide)       |

| REF.<br>NO. | DESCRIPTION                            |
|-------------|--|
| T39         | Oil Seal Sleeve                        |
| T41         | Bearing Locknut                        |
| T46         | Shaft Nut, 1-20                        |
| T47         | Bearing Lockwasher                     |
| T48         | Cotter Pin, 1/8 x 1-3/4 in. SS         |
| T49         | O-ring, 3-1/4 x 3-1/2 in.              |
| T50         | Oil Seal, 1-5/8 x 2-3/4 in.            |
| T53         | Single Row Impeller Shaft Ball Bearing |
| T54         | Drive Shaft Ball Bearing               |
| T67         | Oil Level Plate                        |
| T69         | Street Elbow, 45 Deg., 1/2 NPT         |
| T82         | Drive Shaft Spacer                     |
| T83         | Double Row Impeller Shaft Ball Bearing |
| T86         | Bearing Retainer                       |
| T92         | Hex Head Screw, 3/8-16 x 1 in.         |
| T95         | Hex Head Screw, 1/2-13 x 1-1/4 in.     |
| T97         | Hex Head Screw, 1/2-13 x 1 in.         |
| T102        | Dowel Pin, 3/8 x 1-1/2 in.             |



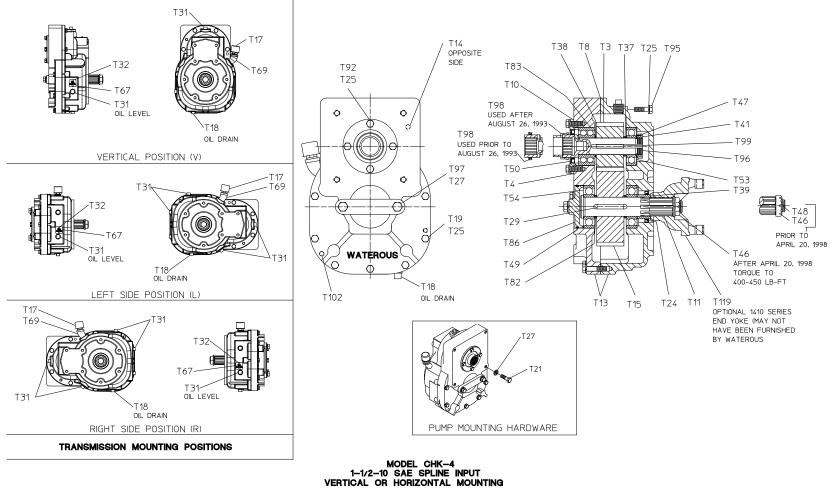
MODEL CHR-4 1-1/2-10 SAE SPLINE INPUT VERTICAL OR HORIZONTAL MOUNTING ONE-PIECE (NON-SEPARABLE IMPELLER SHAFT DESIGN)

# Model CHK-4

Separable Impeller Shaft Design

| REF.<br>NO. | DESCRIPTION                                |
|-------------|--|
| T2          | Serial Plate                               |
| Т3          | Driven Gear                                |
| T4          | Oil Seal Housing Gasket                    |
| Т8          | Gear Case Gasket                           |
| T10         | Oil Seal Housing                           |
| T11         | Drive Shaft                                |
| T13         | Gear Case Subassembly                      |
| T14         | Dowel Pin, 3/8 x 1 in.                     |
| T15         | Drive Gear                                 |
| T17         | Breather, 1/2 NPT                          |
| T18         | Magnetic Drain Plug, 1/2 NPT               |
| T19         | Hex Head Screw, 3/8-16 x 1-3/4 in.         |
| T21         | Hex Head Screw, 1/2-13 x 1-1/2 in, Grade 5 |
| T24         | Oil Seal, 2 x 2-5/8 in.                    |
| T25         | Lock Washer, 3/8 in.                       |
| T27         | Lock Washer, 1/2 in.                       |
| T29         | Square Key, 3/8 x 3/8 x 2-3/16 in.         |
| T31         | Pipe Plug, 1/2 in. NPT                     |
| T32         | Drive Screw, No. 6 x 1/4 in.               |
| T37         | Impeller Shaft Spacer (.245 in. Wide)      |
| T38         | Impeller Shaft Spacer (.115 in. Wide)      |
| T39         | Oil Seal Sleeve                            |
| T41         | Bearing Locknut                            |

| REF.<br>NO. | DESCRIPTION                                    |
|-------------|--|
| T46         | Shaft Nut, 1-20                                |
| T47         | Bearing Lockwasher                             |
| T48         | Cotter Pin, 1/8 x 1-3/4 in. S.S.               |
| T49         | O-ring, 3-1/4 x 3-1/2 in.                      |
| T50         | Oil Seal, 1-7/8 x 2-3/4 in.                    |
| T53         | Single Row Impeller Shaft Ball Bearing         |
| T54         | Drive Shaft Ball Bearing                       |
| T67         | Oil Level Plate                                |
| T69         | Street Elbow, 45 Degree, 1/2 NPT               |
| T82         | Drive Shaft Spacer                             |
| T83         | Double Row Impeller Shaft Ball Bearing         |
| T86         | Bearing Retainer                               |
| T92         | Hex Head Screw, 3/8-16 x 1 in.                 |
| T95         | Hex Head Screw, 1/2-13 x 1-1/4 in.             |
| T96         | Driven Shaft                                   |
| T97         | Hex Head Screw, 1/2-13 x 1 in.                 |
| T98         | V-Ring Flinger (Used Prior to August 26, 1993) |
| 190         | Sealing Boot (Used After August 26, 1993)      |
| Т99         | Square Key, 5/16 x 5/16 x 2-3/16 in.           |
| T102        | Dowel Pin, 3/8 x 1-1/2 in.                     |



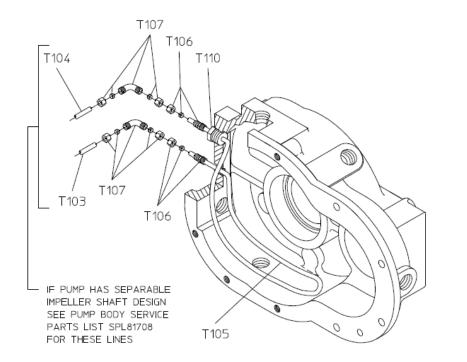
SEPARABLE IMPELLER DESIGN

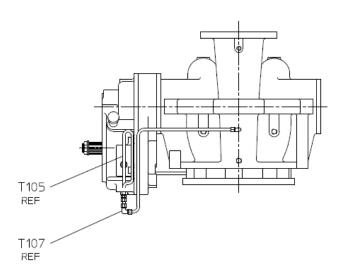
# Model CHK-4

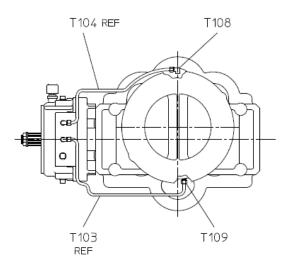
**Optional Internal Oil Cooler** 

| REF.<br>NO. | DESCRIPTION                        |
|-------------|------------------------------------|
| T103        | Copper Tube, 5/16 x 19 in.         |
| T104        | Copper Tube, 5/16 x 23 in.         |
| T105        | Copper Tube, 30 in.                |
| T106        | Tube Connector, 5/16 x 1/4 in. NPT |

| REF.<br>NO. | DESCRIPTION                             |
|-------------|---|
| T107        | Union Elbow, 90 Degrees, 5/16 in.       |
| T108        | Compression Elbow, 90 Degrees, 5/16 in. |
| T109        | Tube Connector, 5/16 x 1/4 in. NPT      |
| T110        | Reducing Bushing, 1/2 x 1/4 in. NPT     |







MODEL CHK-4 OPTIONAL INTERNAL OIL COOLER NOTE: REPLACEMENT TUBING MUST BE FORMED AT THE TIME OF INSTALLATION. THE TUBE INSIDE THE GEAR CASE MUST CLOSELY FOLLOW THE WALL TO PROVIDE CLEARANCE FOR THE

DRIVE GEAR.

T110 REF

T106 REF

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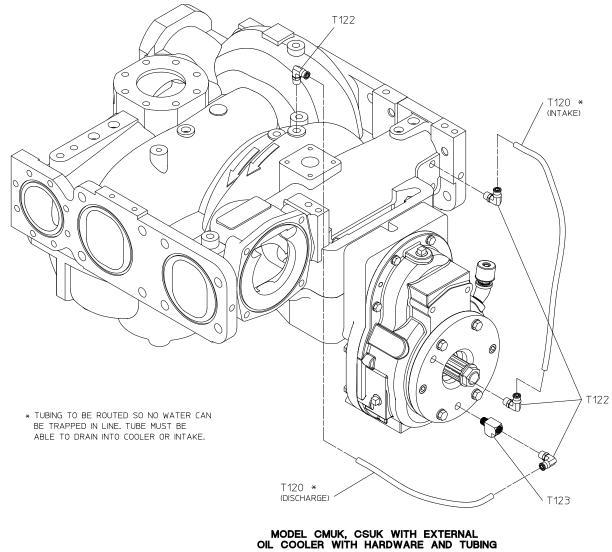
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**Optional External Oil Cooler** 

| REF.<br>NO. | DESCRIPTION                        |
|-------------|------------------------------------|
| T120        | Green Tubing, 3/8 x 72 in.         |
| T122        | 90 Degree Elbow, 3/8 PTC x 1/4 NPT |
|             |                                    |
|             |                                    |

| REF.<br>NO. | DESCRIPTION         |
|-------------|---------------------|
| T123        | Street Tee, 1/4 NPT |
|             |                     |
|             |                     |
|             |                     |



(CMUK SHOWN)