



Manufacturers of Dynamic® and Adjusto Spede® Products

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## Clutch-Brake-Couplings

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**Models 305 to 315**

*Application Engineering ✦ Quality Products ✦ Total Solution*

**Model 305 Clutch-Brake-Coupling Inside Mounted Per FC-305016**  
**Model 305 Clutch-Brake-Coupling Outside Mounted Per FC-305017**

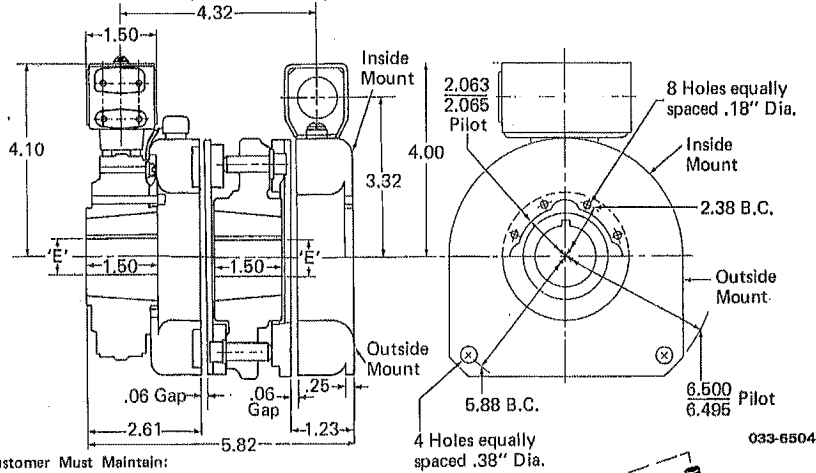
**Technical Data**

|                                 |            |   |                           |
|---------------------------------|------------|---|---------------------------|
| Static Torque .....             | 57 lb. ft. | (Outside Mtd.) .....                            | 3.36 lb.                  |
| Maximum Speed .....             | 4000 RPM   | Clutch & Brake Arm-<br>ature, Hub & Split Taper |                           |
| Coil Voltage .....              | 90 vdc     | Bushing .....                                   | 4.58 lb.                  |
| Rated Current .....             | .409 amp   | Inertia: Clutch Field, Slip Ring                |                           |
| Weight: Clutch Field, Slip Ring |            | Assy. & Split Taper                             |                           |
| Assy. & Split Taper             |            | Bushing .....                                   | .119 lb. ft. <sup>2</sup> |
| Bushing .....                   | 5.28 lb.   | Clutch & Brake Armature,<br>Hub & Split Taper   |                           |
| Brake Field                     |            | Bushing .....                                   | .108 lb. ft. <sup>2</sup> |
| (Inside Mtd.) .....             | 3.18 lb.   |   |                           |

**Model 305 - Torque at Various RPM Points – Clutch & Brake**

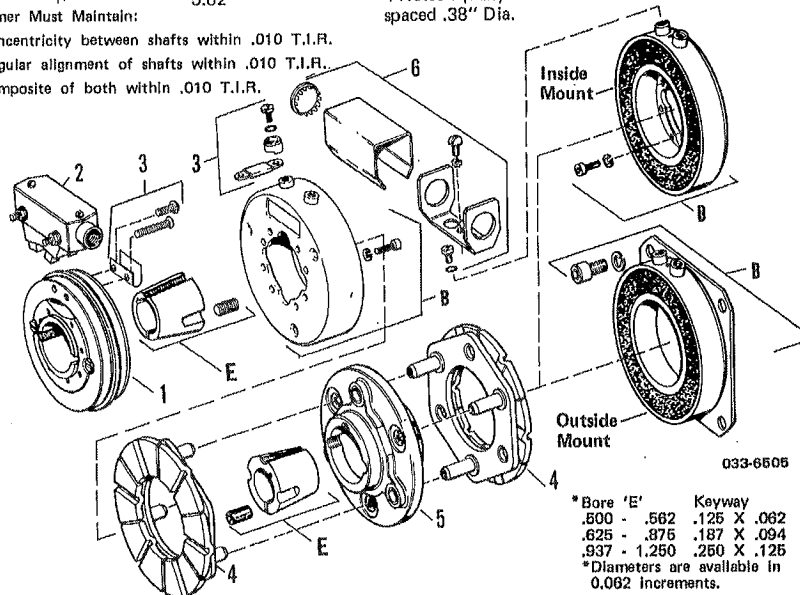
| RPM     | 0  | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 | 3000 | 3600 | 4000 |
|---------|----|-----|-----|-----|------|------|------|------|------|------|------|
| Lb. Ft. | 57 | 52  | 47  | 43  | 39   | 35   | 32   | 27   | 24   | 21   | 20   |

Refer to Section K for torque and heat dissipation curves.



**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.



\*Bore 'E' Keyway  
 .600 - .662 .125 X .062  
 .625 - .875 .187 X .094  
 .937 - 1.250 .250 X .125  
 \*Diameters are available in  
 0.062 increments.



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**Clutch-Brake-Coupling  
 Model 305/305**

- Primary Field
- Pin Drive

**Model 305 Clutch-Brake-Coupling Inside Mounted  
 Per FC-305016**

**Model 305 Clutch-Brake-Coupling Outside Mounted  
 Per FC-305017**

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    | 305461-1 | Slip Ring & Hub Assembly                |
| 2                    | 1    | 326019   | Brush Holder Assembly                   |
| 3                    | 1    | 326144   | Clutch Magnet Accessories               |
| 4                    | 2    | 305381   | Armature Plate Assembly                 |
| 5                    | 1    | 305450   | Armature Hub Assembly                   |
| 6                    | 1    | 326143   | Brake Magnet Accessories                |
| B                    | 1    |          | Field Magnet Assembly (Clutch)          |
| B-11                 |      | 305341   | 6 volts, inside mounted                 |
| B-14                 |      | 305344   | 90 volts, inside mounted                |
| B                    | 1    |          | Field Magnet Assembly (Brake)           |
| B-11                 |      | 305341   | 6 volts, inside mounted                 |
| B-14                 |      | 305344   | 90 volts, inside mounted                |
| B-21                 |      | 305351   | Field Magnet Assembly (Brake)           |
| B-24                 |      | 305354   | 6 volts, outside mounted                |
|                      |      |          | 90 volts, outside mounted               |
| E                    | 2    | 326058   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 2a                   | 4    | 326023   | Brush                                   |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bore of Items E
  3. Voltage of Items B
  4. Controller from Section H

**Example:**  
 Outside Mounted Clutch-Brake-Coupling per FC-305017  
 1" bores  
 90 volts  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Data subject to change without notice.

**Model 305 Clutch-Brake Coupling Inside Mounted Per FC-305166**  
**Model 305 Clutch-Brake Coupling Outside Mounted Per FC-305167**

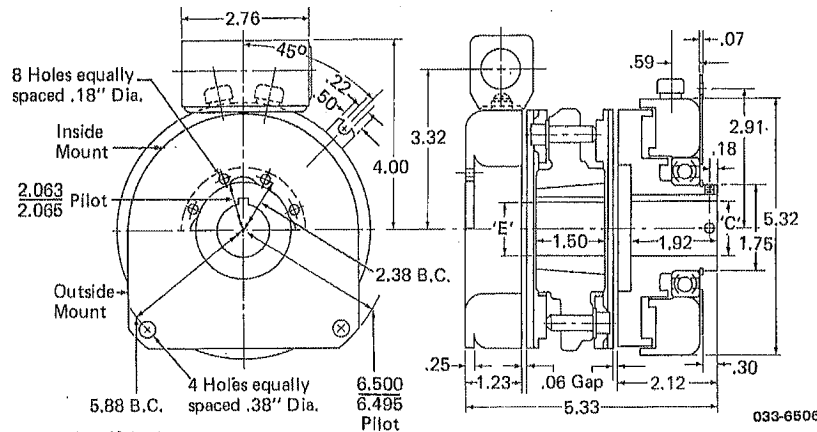
**Technical Data**

|                                  |            |                                 |                           |
|----------------------------------|------------|---------------------------------|---------------------------|
| Static Torque . . . . .          | 57 lb. ft. | Brake Field                     |                           |
| Maximum Speed . . . . .          | 4000 RPM   | (Inside Mtd.) . . . . .         | 3.18 lb.                  |
| Coil Voltage . . . . .           | 90 vdc     | (Outside Mtd.) . . . . .        | 3.36 lb.                  |
| Rated Current (Clutch) . . . . . | .523 amp   | Inertia: Clutch Rotor . . . . . | .040 lb. ft. <sup>2</sup> |
| Rated Current (Brake) . . . . .  | .409 amp   | Clutch & Brake Armature,        |                           |
| Weight: Clutch Rotor . . . . .   | 2.83 lb.   | Hub & Split Taper               |                           |
| Clutch & Brake Armature,         |            | Bushing . . . . .               | .108 lb. ft. <sup>2</sup> |
| Hub & Split Taper                |            |                                 |                           |
| Bushing . . . . .                | 4.58 lb.   |                                 |                           |

**Model 305 - Torque at Various RPM Points – Clutch & Brake**

| RPM     | 0  | 300 | 600 | 900 | 1200 | 1600 | 1800 | 2400 | 3000 | 3600 | 4000 |
|---------|----|-----|-----|-----|------|------|------|------|------|------|------|
| Lb. Ft. | 57 | 52  | 47  | 43  | 39   | 35   | 32   | 27   | 24   | 21   | 20   |

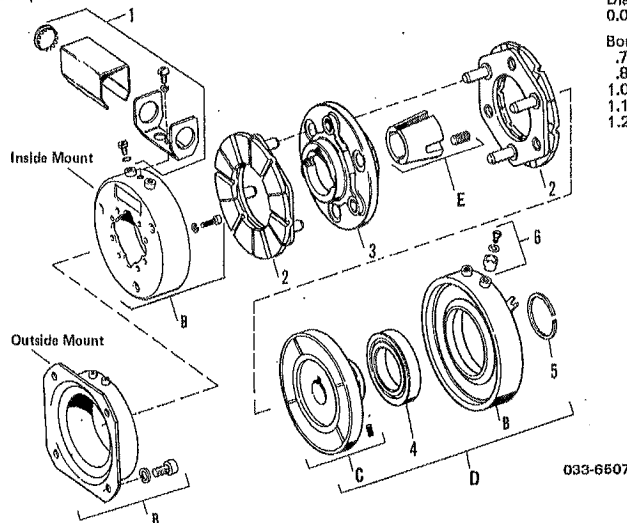
Refer to Section K for torque and heat dissipation curves.



**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

|   |               |
|---|---------------|
| <b>*Bore 'E'</b>                              | <b>Keyway</b> |
| .500 - .562                                   | .125 X .062   |
| .625 - .875                                   | .187 X .094   |
| .937 - 1.250                                  | .250 X .125   |
| *Diameters are available in .0062 increments. |               |
| <b>Bore 'C'</b>                               | <b>Keyway</b> |
| .750/.751                                     | .187 X .094   |
| .875/.876                                     | .187 X .094   |
| 1.000/1.001                                   | .250 X .125   |
| 1.125/1.126                                   | .250 X .125   |
| 1.250/1.261                                   | .250 X .125   |





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**Clutch-Brake-Coupling  
 Model 305-S/305**

- Stationary Field
- Bearing Mounted
- Pin Drive

**Model 305 Clutch-Brake Coupling Inside Mounted  
 Per FC-305166**

**Model 305 Clutch-Brake Coupling Outside Mounted  
 Per FC-305167**

| Item                 | Qty. | Part No. | Description  |
|----------------------|------|----------|--|
| <b>Major Parts</b>   |      |          |  |
| 1                    | 1    | 326143   | Brake Magnet Accessories                               |
| 2                    | 2    | 305381   | Armature Plate Assembly                                |
| 3                    | 1    | 305450   | Armature Hub Assembly                                  |
| B                    | 1    |          | Field Magnet Assembly (Brake)                          |
| B-11                 |      | 305341   | 6 volts, inside mounted                                |
| B-14                 |      | 305344   | 90 volts, inside mounted                               |
|                      |      |          | Field Magnet Assembly (Brake)                          |
| B-21                 |      | 305351   | 6 volts, outside mounted                               |
| B-24                 |      | 305354   | 90 volts, outside mounted                              |
| D                    | 1    |          | Bearing Mounted Rotor & Field Magnet Assembly (Clutch) |
| D-9                  |      | 305771-1 | 6 volts, .750/.751 bore                                |
| D-11                 |      | 305771-2 | 6 volts, .875/.876 bore                                |
| D-13                 |      | 305771-4 | 6 volts, 1.000/1.001 bore                              |
| D-14                 |      | 305771-5 | 6 volts, 1.125/1.126 bore                              |
| D-15                 |      | 305771-6 | 6 volts, 1.250/1.251 bore                              |
| D-69                 |      | 305774-1 | 90 volts, .750/.751 bore                               |
| D-71                 |      | 305774-2 | 90 volts, .875/.876 bore                               |
| D-73                 |      | 305774-4 | 90 volts, 1.000/1.001 bore                             |
| D-74                 |      | 305774-5 | 90 volts, 1.125/1.126 bore                             |
| D-75                 |      | 305774-6 | 90 volts, 1.250/1.251 bore                             |
| E                    | 1    | 326058   | Split Taper Bushing<br>(See note below)                |
| <b>Service Parts</b> |      |          |  |
| 4 <sup>a</sup>       | 1    | DY 7959  | Bearing  |
| 5                    | 1    | DY 12712 | Retaining Ring (external)                              |
| 6                    | 1    | 326146   | Magnet Accessories                                     |
| B                    | 1    |          | Field Magnet Assembly (Clutch)                         |
| B-1                  |      | 305331   | 6 volts  |
| B-4                  |      | 305334   | 90 volts   |
| C                    | 1    |          | Rotor Assembly   |
| C-9                  |      | 305556-1 | .750/.751 bore   |
| C-10                 |      | 305556-2 | .875/.876 bore   |
| C-12                 |      | 305556-4 | 1.000/1.001 bore                                       |
| C-13                 |      | 305556-5 | 1.125/1.126 bore                                       |
| C-14                 |      | 305556-6 | 1.250/1.251 bore                                       |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bore of Items D & E
  3. Voltage of Items B & D
  4. Controller from Section H

**Example:**  
 Inside Mounted Clutch-Brake-Coupling  
 per FC-305166  
 1" bore  
 90 volts  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other bores and voltages.  
 Data subject to change without notice.

**Model 308 Clutch-Brake-Coupling Inside Mounted Per FC-308016**  
**Model 308 Clutch-Brake-Coupling Outside Mounted Per FC-308017**

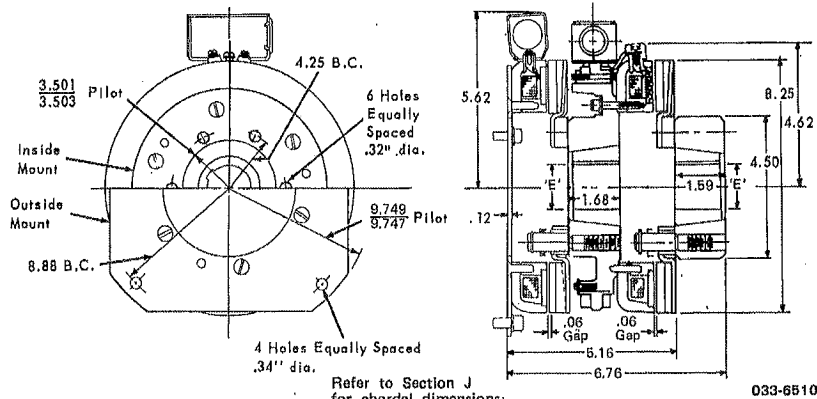
**Technical Data**

|                              |             |                               |                            |
|------------------------------|-------------|-------------------------------|----------------------------|
| Static Torque . . . . .      | 125 lb. ft. | Assy., Brake Arma. &          |                            |
| Maximum Speed . . . . .      | 3600 RPM    | Split Taper Bushing . . . .   | 18.978 lb.                 |
| Coil Voltage . . . . .       | 90 vdc      | Inertia: Clutch Arma. w/Drive |                            |
| Rated Current . . . . .      | .59 amp     | Pins, Hub & Split Taper       |                            |
| Weight: Clutch Arma. w/Drive |             | Bushing . . . . .             | .378 lb. ft. <sup>2</sup>  |
| Pins, Hub & Split Taper      |             | Clutch Field, Slip Ring       |                            |
| Bushings . . . . .           | 8.528 lb.   | Assy., Brake Arma. &          |                            |
| Clutch Field, Slip Ring      |             | Split Taper Bushing . . . .   | 1.165 lb. ft. <sup>2</sup> |

**Model 308 - Torque at Various RPM Points**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 | 3000 | 3600 |
|---------|-----|-----|-----|-----|------|------|------|------|------|------|
| Lb. Ft. | 125 | 110 | 95  | 85  | 80   | 75   | 67   | 53   | 43   | 35   |

Refer to Section K for torque and heat dissipation curves.

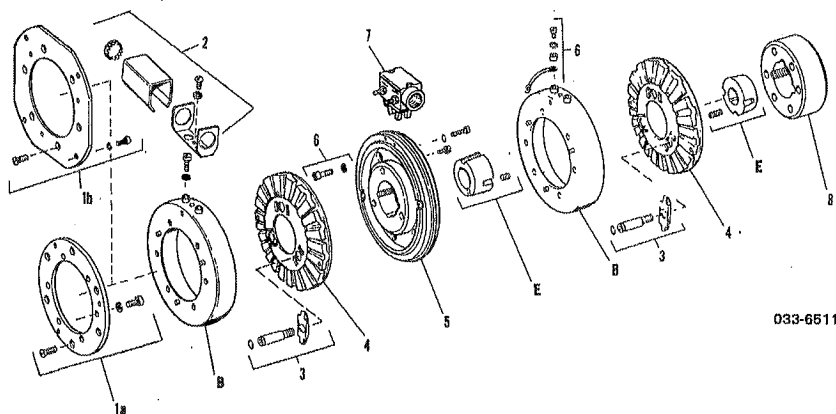


Customer Must Maintain:

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

| *Bore 'E'     | Keyway      |
|---------------|-------------|
| .500 - .562   | .125 x .062 |
| .625 - .875   | .187 x .094 |
| .937 - 1.250  | .250 x .125 |
| 1.312 - 1.375 | .312 x .156 |
| 1.437 - 1.500 | .375 x .187 |
| 1.562 - 1.625 | .375 x .187 |

\*Diameters are available in .0062" increments.





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**Clutch-Brake-Coupling  
 Model 308/308**

- Primary Field
- Pin Drive

**Model 308 Clutch-Brake-Coupling Inside  
 Mounted Per FC-308016**

**Model 308 Clutch-Brake-Coupling Outside  
 Mounted Per FC-308017**

| Item                 | Qty. | Part.No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories            |
| 1a                   |      | 308481   | Inside mounted                          |
| 1b                   |      | 308491   | Outside mounted                         |
| 2                    | 1    | 326078   | Brake Magnet Accessories                |
| 3                    | 2    | 326075   | Adjustable Gap Accessories              |
| 4                    | 2    | 308380   | Armature Plate Assembly                 |
| 5                    | 1    |          | Slip Ring & Hub Assembly                |
| 5a                   |      | 308461   | Right hand                              |
| 5b                   |      | 308471   | Left hand (shown)                       |
| 6                    | 1    | 326076   | Clutch Magnet Accessories               |
| 7                    | 1    | 326019   | Brush Holder Assembly                   |
| 8                    | 1    | 308450   | Armature Hub                            |
| B                    | 2    |          | Field Magnet Assembly                   |
| B-1                  |      | 308371   | 6 volts                                 |
| B-4                  |      | 308374   | 90 volts                                |
| E                    | 2    | 326015   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 3    | 326008   | Drive Pin                               |
| 3b                   | 3    | 326149   | Spring                                  |
| 3c                   | 3    | DY 10572 | Retaining Ring                          |
| 7a                   | 4    | 326023   | Brush                                   |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bores of Item E
  3. Voltage of Item B
  4. Right or Left Hand of Item 5
  5. Inside or Outside Mounting Plate
  6. Controller from Section H

**Example:**  
 Outside Mounted Clutch-Brake-Coupling  
 per FC-308017  
 1½" bores  
 90 volts  
 Left hand  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
 Data subject to change without notice.

**Model 308 Clutch-Brake-Coupling Inside Mounted Per FC-308166**  
**Model 308 Clutch-Brake-Coupling Outside Mounted Per FC-308167**

**Technical Data**

|  |             |   |                           |
|--|-------------|---|---------------------------|
| Static Torque (Clutch) . . . . .                         | 225 lb. ft. | Armatures, Hub w/Drive                            |                           |
| (Brake) . . . . .  | 125 lb. ft. | Pins & Split Taper                                |                           |
| Maximum Speed . . . . .                                  | 3600 RPM    | Bushing . . . . .                                 | 13.996 lb.                |
| Coil Voltage . . . . .                                   | 90 vdc      | Brake Field . . . . .                             | 7.65 lb.                  |
| Rated Current (Clutch) . . . . .                         | .937 amp    | Inertia: Clutch Rotor, Hub & Split                |                           |
| (Brake) . . . . .  | .59 amp     | Taper Bushing . . . . .                           | .784 lb. ft. <sup>2</sup> |
| Weight: Clutch Rotor, Hub w/<br>Drive Pins & Split Taper |             | Armatures, Hub & Split<br>Taper Bushing . . . . . | .703 lb. ft. <sup>2</sup> |
| Bushing . . . . .  | 14.36 lb.   |   |                           |

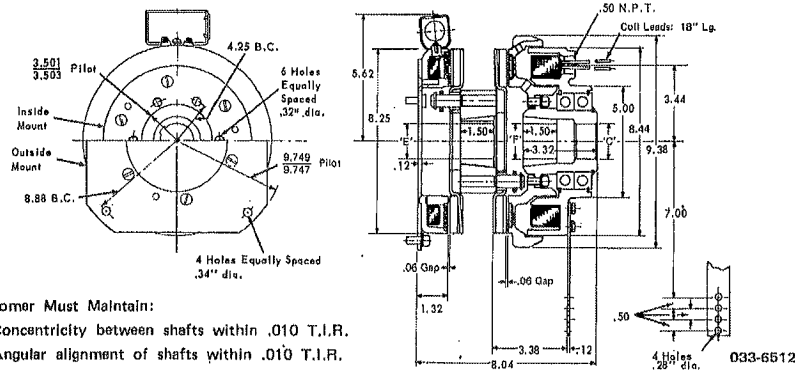
**Model 308 - Torque at Various RPM Points - Clutch**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 | 3000 | 3600 |
|---------|-----|-----|-----|-----|------|------|------|------|------|------|
| Lb. Ft. | 225 | 129 | 105 | 96  | 90   | 81   | 73   | 62   | 52   | 42   |

**Model 308 - Torque at Various RPM Points - Brake**

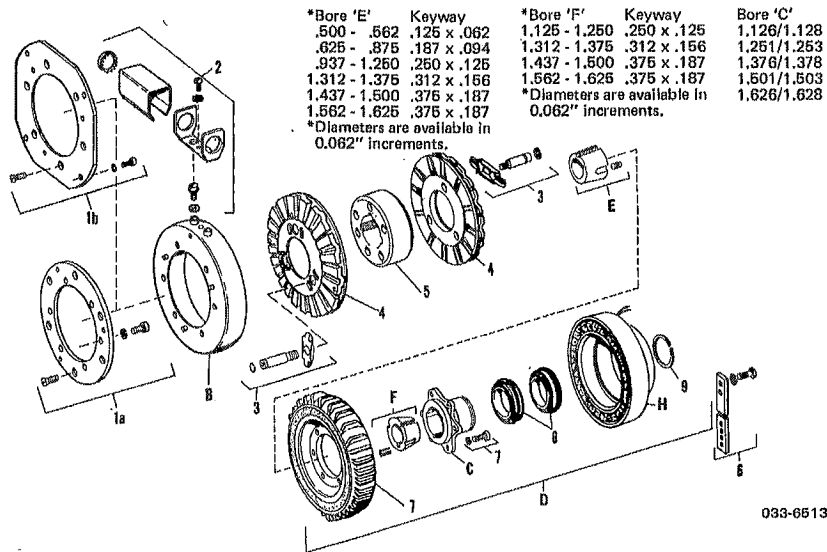
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 | 3000 | 3600 |
|---------|-----|-----|-----|-----|------|------|------|------|------|------|
| Lb. Ft. | 125 | 110 | 95  | 85  | 80   | 75   | 67   | 53   | 43   | 35   |

Refer to Section K for torque and heat dissipation curves.



**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.





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**Clutch-Brake-Coupling  
 Model 308-S/308**

- Stationary Field
- Bearing Mounted
- Pin Drive

**Model 308 Clutch-Brake-Coupling  
 Inside Mounted Per FC-308166  
 Model 308 Clutch-Brake-Coupling  
 Outside Mounted Per FC-308167**

| Item                 | Qty. | Part No. | Description                                   |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories                  |
| 1a                   |      | 308481   | Inside mounted                                |
| 1b                   |      | 308491   | Outside mounted                               |
| 2                    | 1    | 326078   | Brake Magnet Accessories                      |
| 3                    | 2    | 326075   | Adjustable Gap Accessories                    |
| 4                    | 2    | 308380   | Armature Plate Assembly                       |
| 5                    | 1    | 308450   | Armature Hub                                  |
| 6                    | 1    | 326246-1 | Field Support Arm w/Accessories               |
| B                    | 1    |          | Field Magnet Assembly                         |
| B-1                  |      | 308371   | 6 volts                                       |
| B-4                  |      | 308374   | 90 volts                                      |
| D                    | 1    |          | Bearing Mounted Rotor & Field Magnet Assembly |
| D-14                 |      | 308761-1 | 6 volts, 1.126/1.128 bore                     |
| D-15                 |      | 308761-2 | 6 volts, 1.251/1.253 bore                     |
| D-16                 |      | 308761-3 | 6 volts, 1.376/1.378 bore                     |
| D-17                 |      | 308761-4 | 6 volts, 1.501/1.503 bore                     |
| D-18                 |      | 308761-5 | 6 volts, 1.626/1.628 bore                     |
| D-74                 |      | 308764-1 | 90 volts, 1.126/1.128 bore                    |
| D-75                 |      | 308764-2 | 90 volts, 1.251/1.253 bore                    |
| D-76                 |      | 308764-3 | 90 volts, 1.376/1.378 bore                    |
| D-77                 |      | 308764-4 | 90 volts, 1.501/1.503 bore                    |
| D-78                 |      | 308764-5 | 90 volts, 1.626/1.628 bore                    |
| E, F                 | 2    | 326015   | Split Taper Bushing (See note below)          |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 3    | 326008   | Drive Pin                                     |
| 3b                   | 3    | 326149   | Spring  |
| 3c                   | 3    | DY 10572 | Retaining Ring                                |
| 7                    | 1    | 308825   | Rotor Assembly w/Accessories                  |
| 8                    | 2    | DY 11272 | Bearing                                       |
| 9                    | 1    | DY 11271 | Retaining Ring (external)                     |
| C                    | 1    |          | Rotor Hub                                     |
| C-13                 |      | 308751   | 1.126/1.128 bore                              |
| C-14                 |      | 308751-1 | 1.251/1.253 bore                              |
| C-15                 |      | 308751-2 | 1.376/1.378 bore                              |
| C-16                 |      | 308751-3 | 1.501/1.503 bore                              |
| C-17                 |      | 308751-4 | 1.626/1.628 bore                              |
| H                    | 1    |          | Field Magnet Assembly                         |
| H-1                  |      | 308731   | 6 volts                                       |
| H-4                  |      | 308734   | 90 volts                                      |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bore of Items D & E
  3. Voltage of Items B & D
  4. Inside or Outside Mounting Plate
  5. Controller from Section H

**Example:**  
 Outside Mounted Clutch-Brake-Coupling  
 per FC-308167  
 1½" bores  
 90 volts  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores. Consult the factory for other voltages.  
 Data subject to change without notice.

**Model 310 Clutch-Brake-Coupling Inside Mounted Per FC-310016**  
**Model 310 Clutch-Brake-Coupling Outside Mounted Per FC-310017**

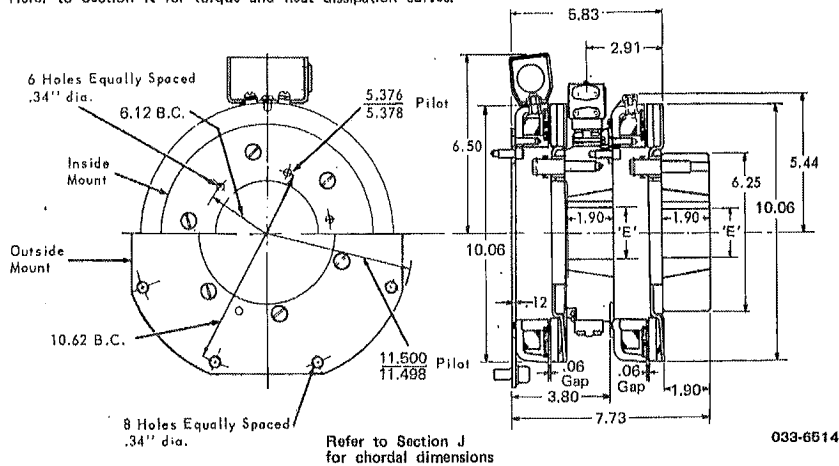
**Technical Data**

|                                |             |                                  |                            |
|--------------------------------|-------------|----------------------------------|----------------------------|
| Static Torque . . . . .        | 240 lb. ft. | Split Taper Bushing . . . .      | 14.968 lb.                 |
| Maximum Speed . . . . .        | 3000 RPM    | Brake Field . . . . .            | 10.90 lb.                  |
| Coil Voltage . . . . .         | 90 vdc      | Inertia: Clutch Field, Slip Ring |                            |
| Rated Current . . . . .        | .584 amp    | Assy., Brake Armature &          |                            |
| Weight: Clutch Field Slip Ring |             | Split Taper Bushing . . . .      | 2.467 lb. ft. <sup>2</sup> |
| Assy., Brake Arma. & Split     |             | Clutch Armature, Hub &           |                            |
| Taper Bushing . . . . .        | 28.268 lb.  | Split Taper Bushing . . . .      | .967 lb. ft. <sup>2</sup>  |
| Clutch Armature, Hub &         |             |                                  |                            |

**Model 310 - Torque at Various RPM Points**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 | 3000 |
|---------|-----|-----|-----|-----|------|------|------|------|------|
| Lb. Ft. | 240 | 200 | 165 | 140 | 115  | 98   | 88   | 72   | 61   |

Refer to Section K for torque and heat dissipation curves.



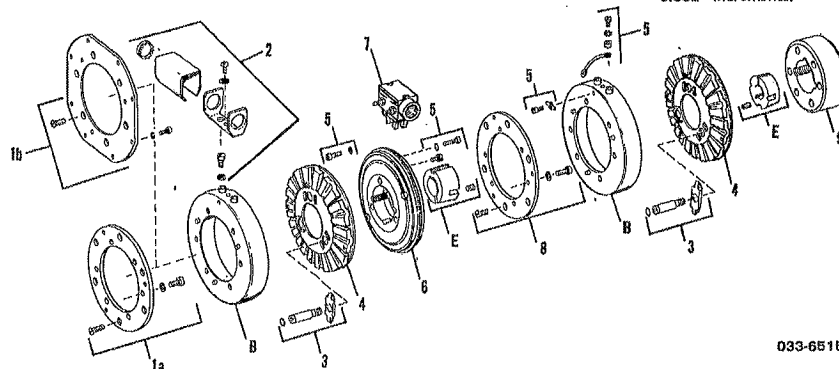
**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

**\*Bore 'E' Keyway**

|               |             |
|---------------|-------------|
| .500 - .562   | .125 x .062 |
| .625 - .875   | .187 x .094 |
| .937 - 1.250  | .250 x .125 |
| 1.312 - 1.375 | .312 x .156 |
| 1.437 - 1.750 | .375 x .187 |
| 1.812 - 2.250 | .500 x .250 |
| 2.312 - 2.500 | .625 x .312 |

\*Diameters are available in 0.062" increments.





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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 310/310**

- Primary Field
- Pin Drive

**Model 310 Clutch-Brake-Coupling Inside  
 Mounted Per FC-310016  
 Model 310 Clutch-Brake-Coupling Outside  
 Mounted Per FC-310017**

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories            |
| 1a                   |      | 310481   | Inside mounted                          |
| 1b                   |      | 310491   | Outside mounted                         |
| 2                    | 1    | 326078   | Brake Magnet Accessories                |
| 3                    | 2    | 326075   | Adjustable Gap Accessories              |
| 4                    | 2    | 310380   | Armature Plate Assembly                 |
| 5                    | 1    | 326136   | Clutch Magnet Accessories               |
| 6                    | 1    |          | Slip Ring & Hub Assembly                |
| 6a                   |      | 310461   | Right hand                              |
| 6b                   |      | 310471   | Left hand (shown)                       |
| 7                    | 1    | 326019   | Brush Holder Assembly                   |
| 8                    | 1    |          | Mounting Plate w/Accessories            |
|                      |      | 310481   | Inside mounted                          |
| 9                    | 1    | 310450   | Armature Hub                            |
| B                    | 2    |          | Field Magnet Assembly                   |
| B-1                  |      | 310371   | 6 volts                                 |
| B-4                  |      | 310374   | 90 volts                                |
| E                    | 2    | 326039   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 3    | 326008   | Drive Pin                               |
| 3b                   | 3    | 326149   | Spring                                  |
| 3c                   | 3    | DY 10572 | Retaining Ring                          |
| 7a                   | 4    | 326023   | Brush                                   |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bores of Item E
  3. Voltage of Items B
  4. Right or Left Hand of Item 6
  5. Inside or Outside Mounting Plate
  6. Controller from Section H

- Example:**
- Outside Mounted Clutch-Brake-Coupling per FC-310017  
 2" bores  
 90 volts  
 Left hand  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
 Data subject to change without notice.

**Model 310 Clutch-Brake-Coupling Inside Mounted Per FC-310166**  
**Model 310 Clutch-Brake-Coupling Outside Mounted Per FC-310167**

**Technical Data**

|                                    |             |                               |                            |
|------------------------------------|-------------|-------------------------------|----------------------------|
| Static Torque (Clutch) . . . . .   | 370 lb. ft. | Pins & Split Taper            |                            |
| (Brake) . . . . .                  | 240 lb. ft. | Bushing . . . . .             | 22.686 lb.                 |
| Maximum Speed . . . . .            | 2000 RPM .  | Brake Field . . . . .         | 10.9 lb.                   |
| Coil Voltage . . . . .             | 90 vdc      | Inertia: Clutch Rotor, Hub &  |                            |
| Rated Current (Clutch & Brake) . . | .584 amp    | Split Taper Bushing . . . . . | 1.16 lb. ft. <sup>2</sup>  |
| Weight: Clutch Rotor, Hub & Split  |             | Armature, Hub & Split         |                            |
| Taper Bushing . . . . .            | 13.5 lb.    | Taper Bushing . . . . .       | 1.699 lb. ft. <sup>2</sup> |
| Armatures, Hub w/Drive             |             |                               |                            |

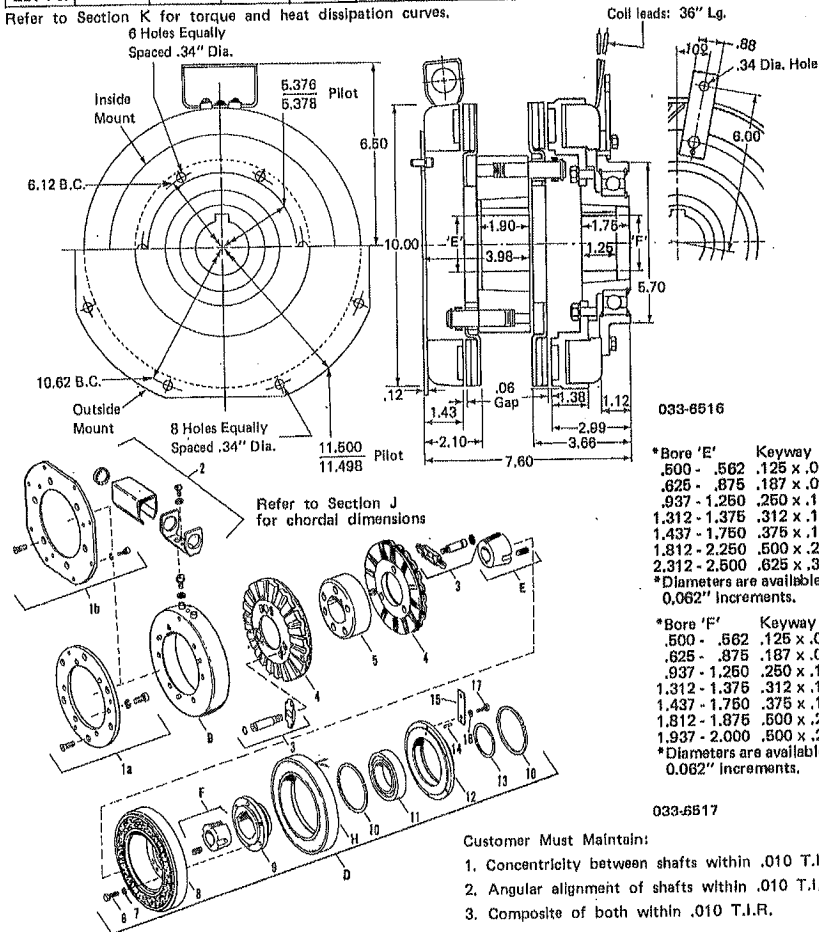
**Model 310 - Torque at Various RPM Points - Clutch**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|-----|-----|-----|-----|------|------|------|
| Lb. Ft. | 370 | 245 | 200 | 180 | 175  | 170  | 165  |

**Model 310 - Torque at Various RPM Points - Brake**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|-----|-----|-----|-----|------|------|------|
| Lb. Ft. | 240 | 200 | 165 | 140 | 115  | 98   | 88   |

Refer to Section K for torque and heat dissipation curves.





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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 310-S/310**

- Stationary Field
- Bearing Mounted
- Pin Drive

**Model 310 Clutch-Brake-Coupling Inside Mounted Per FC-310166**  
**Model 310 Clutch-Brake-Coupling Outside Mounted Per FC-310167**

| Item                 | Qty. | Part No. | Description                                   |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate                                |
| 1a                   |      | 310481   | Inside Mounted                                |
| 1b                   |      | 310491   | Outside Mounted                               |
| 2                    | 1    | 326078   | Brake Magnet Accessories                      |
| 3                    | 2    | 326075   | Adjustable Gap Assembly                       |
| 4                    | 2    | 310380   | Armature Plate Assembly                       |
| 5                    | 1    | 310450   | Armature Hub                                  |
| B                    | 1    |          | Field Magnet Assembly                         |
| B-1                  |      | 310371   | 6 volts                                       |
| B-4                  |      | 310374   | 90 volts                                      |
| D                    | 1    |          | Bearing Mounted Rotor & Field Magnet Assembly |
| D-81                 |      | 310771   | 6 volts                                       |
| D-84                 |      | 310774   | 90 volts                                      |
| E                    | 1    | 326039   | Split Taper Bushing (See note below)          |
| F                    | 1    | 326167   | Split Taper Bushing (See note below)          |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 3    | 326008   | Drive Pin                                     |
| 3b                   | 3    | 326149   | Spring  |
| 3c                   | 3    | DY 10572 | Retaining Ring                                |
| 6                    | 6    | DY 211   | Hex Head Cap Screw                            |
| 7                    | 6    | DY 18    | Lockwasher                                    |
| 8                    | 1    | 310820-2 | Rotor Assembly                                |
| 9                    | 1    | 310753   | Rotor Hub                                     |
| 10                   | 2    | DY 11574 | Retaining Ring (internal)                     |
| 11                   | 1    | DY 15269 | Bearing                                       |
| 12                   | 1    | 310752-1 | Field Mounting Hub                            |
| 13                   | 1    | DY 15270 | Retaining Ring (external)                     |
| 14                   | 1    | DY 13213 | Roll Pin                                      |
| 15                   | 1    | 326549   | Support Arm                                   |
| 16                   | 6    | DY 4366  | Lockwasher                                    |
| 17                   | 6    | DY 14764 | Hex Head Cap Screw                            |
| H                    | 1    |          | Field Magnet Assembly                         |
| H-1                  |      | 310731-3 | 6 volts                                       |
| H-4                  |      | 310734-3 | 90 volts                                      |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bore of Items E & F
  3. Voltage of Item D
  4. Inside or Outside Mounting Plate
  5. Controller from Section H

- Example:**
- Outside Mounted Clutch-Brake-Coupling per FC-310167  
 2" bores  
 90 volts  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Data subject to change without notice.

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**Model 312/310 Clutch-Brake-Coupling Inside  
 Mounted Per FC-312024  
 Model 312/310 Clutch-Brake-Coupling Outside  
 Mounted Per FC-312025**

**Technical Data**

|  |             |  |                            |
|--|-------------|--|----------------------------|
| Static Torque (Clutch) . . . . .   | 465 lb. ft. | Clutch Armature, Hub & Split Taper Bushing . . .                           | 27.624 lb.                 |
| (Brake) . . . . .  | 240 lb. ft. | Brake Field . . . . .  | 10.90 lb.                  |
| Maximum Speed . . . . .  | 2400 RPM    | Inertia: Clutch Field, Hub, Brake Armature & Split Taper Bushing . . . . . | 4.872 lb. ft. <sup>2</sup> |
| Coil Voltage . . . . .   | 90 vdc      | Clutch Armature, Hub & Split Taper Bushing . . . . .                       | 2.056 lb. ft. <sup>2</sup> |
| Rated Current (Clutch) . . . . .   | .520 amp    |  |                            |
| (Brake) . . . . .  | .562 amp    |  |                            |
| Weight: Clutch Field, Slip Ring Assy., Brake Armature, & Split Taper Bushing . . . . . | 43.578 lb.  |  |                            |

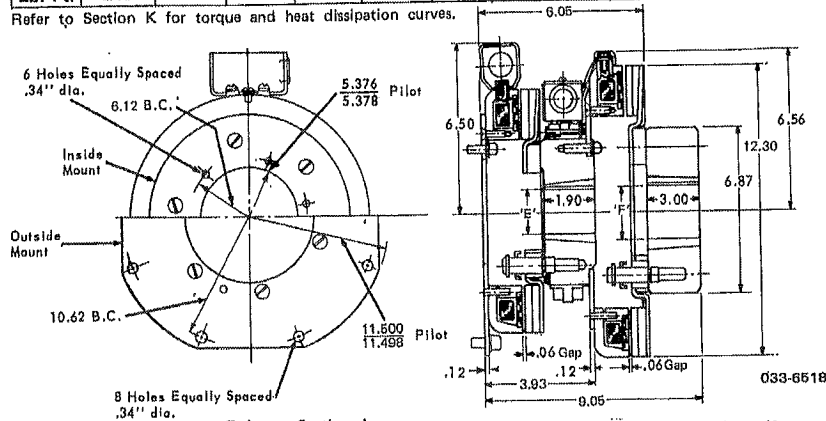
**Model 312 - Torque at Various RPM Points - Clutch**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
|---------|-----|-----|-----|-----|------|------|------|------|
| Lb. Ft. | 465 | 380 | 300 | 240 | 190  | 155  | 140  | 130  |

**Model 310 - Torque at Various RPM Points - Brake**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
|---------|-----|-----|-----|-----|------|------|------|------|
| Lb. Ft. | 240 | 200 | 165 | 140 | 115  | 98   | 88   | 72   |

Refer to Section K for torque and heat dissipation curves.



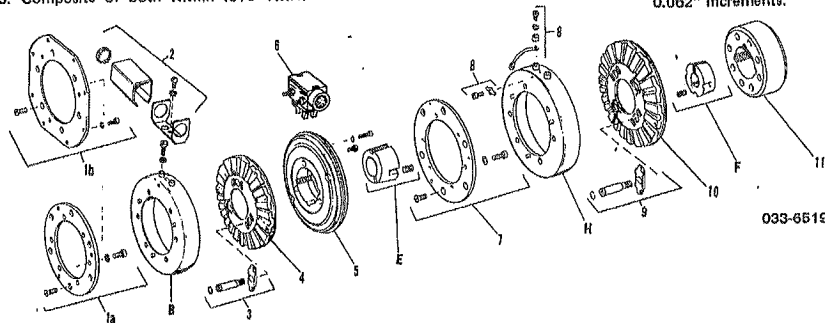
Refer to Section J for chordal dimensions

**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

|               |             |               |             |
|---------------|-------------|---------------|-------------|
| *Bore 'E'     | Keyway      | *Bore 'F'     | Keyway      |
| .500 - .562   | .125 x .062 | .937 - 1.250  | .250 x .125 |
| .625 - .875   | .187 x .094 | 1.312 - 1.375 | .312 x .156 |
| .937 - 1.250  | .250 x .125 | 1.437 - 1.750 | .375 x .187 |
| 1.312 - 1.375 | .312 x .156 | 1.812 - 2.250 | .500 x .250 |
| 1.437 - 1.750 | .375 x .187 | 2.312 - 2.750 | .625 x .312 |
| 1.812 - 2.250 | .500 x .250 | 2.812 - 3.000 | .750 x .375 |
| 2.312 - 2.500 | .625 x .312 |               |             |

\*Diameters are available in 0.062" increments.





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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 312/310**

- Primary Field
- Pin Drive

**Model 312/310 Clutch-Brake-Coupling Inside  
 Mounted Per FC-312024  
 Model 312/310 Clutch-Brake-Coupling Outside  
 Mounted Per FC-312025**

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories            |
| 1a                   |      | 310481   | Inside mounted                          |
| 1b                   |      | 310491   | Outside mounted                         |
| 2                    | 1    | 326078   | Brake Magnet Accessories                |
| 3                    | 1    | 326075   | Adjustable Gap Accessories (Brake)      |
| 4                    | 1    | 310380   | Armature Plate Assembly (Brake)         |
| 5                    | 1    |          | Slip Ring & Hub Assembly                |
| 5a                   |      | 310461   | Right hand                              |
| 5b                   |      | 310471   | Left hand (shown)                       |
| 6                    | 1    | 326019   | Brush Holder Assembly                   |
| 7                    | 1    | 312481-2 | Inside Mounting Plate w/Accessories     |
| 8                    | 1    | 326138   | Clutch Magnet Accessories               |
| 9                    | 1    | 326139   | Adjustable Gap Accessories (Clutch)     |
| 10                   | 1    | 312380   | Armature Plate Assembly (Clutch)        |
| 11                   | 1    | 312450   | Armature Hub                            |
| B                    | 1    |          | Field Magnet Assembly (Brake)           |
| B-1                  |      | 310371   | 6 volts                                 |
| B-4                  |      | 310374   | 90 volts                                |
| H                    | 1    |          | Field Magnet Assembly (Clutch)          |
| H-1                  |      | 312371   | 6 volts                                 |
| H-4                  |      | 312374   | 90 volts                                |
| E                    | 1    | 326039   | Split Taper Bushing<br>(See note below) |
| F                    | 1    | 326046   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 3    | 326008   | Drive Pin                               |
| 3b                   | 3    | 326149   | Spring                                  |
| 3c                   | 3    | DY 10572 | Retaining Ring                          |
| 6a                   | 4    | 326023   | Brush                                   |
| 9a                   | 4    | 326008   | Drive Pin                               |
| 9b                   | 4    | 326149   | Spring                                  |
| 9c                   | 4    | DY 10572 | Retaining Ring                          |

- |  |   |
|--|---|
| <b>To Order, Specify:</b>                          | <b>Example:</b>                                     |
| 1. Inside or Outside Mounted Clutch-Brake-Coupling | Outside Mounted Clutch-Brake-Coupling per FC-312025 |
| 2. Bore of Items E & F                             | 2" bores  |
| 3. Voltage of Items B & H                          | 90 volts  |
| 4. Right or Left Hand of Item 5                    | Left hand   |
| 5. Inside or Outside Mounting Plate                | Outside Mounted                                     |
| 6. Controller from Section H                       | Controller Model Number                             |

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
 Data subject to change without notice.

**Model 312 Clutch-Brake-Coupling Inside  
 Mounted Per FC-312016  
 Model 312 Clutch-Brake-Coupling Outside  
 Mounted Per FC-312017**

**Technical Data**

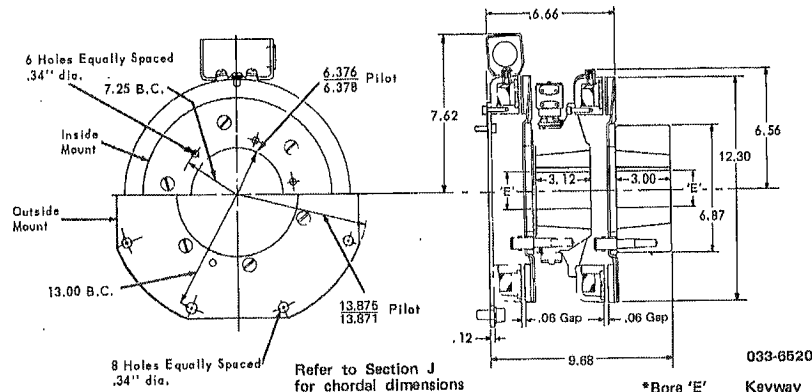
|   |             |
|---|-------------|
| Static Torque . . . . .   | 465 lb. ft. |
| Maximum Speed . . . . .   | 2400 RPM    |
| Coil Voltage . . . . .  | 90 vdc      |
| Rated Current . . . . .   | .520 amp    |
| Weight: Clutch Field, Slip Ring<br>Assy., Brake Arma., &<br>Split Taper Bushing . . . . . | 47.184 lb.  |

|  |                            |
|--|----------------------------|
| Clutch Armature, Hub &<br>Split Taper Bushing . . . . .                          | 27.624 lb.                 |
| Brake Field . . . . .  | 18.6 lb.                   |
| Inertia: Clutch Field, Hub, Brake<br>Armature & Split Taper<br>Bushing . . . . . | 5.675 lb. ft. <sup>2</sup> |
| Clutch, Armature, Hub &<br>Split Taper Bushing . . . . .                         | 2.056 lb. ft. <sup>2</sup> |

**Model 312 - Torque at Various RPM Points**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
|---------|-----|-----|-----|-----|------|------|------|------|
| Lb. Ft. | 465 | 380 | 300 | 240 | 190  | 155  | 140  | 130  |

Refer to Section K for torque and heat dissipation curves.



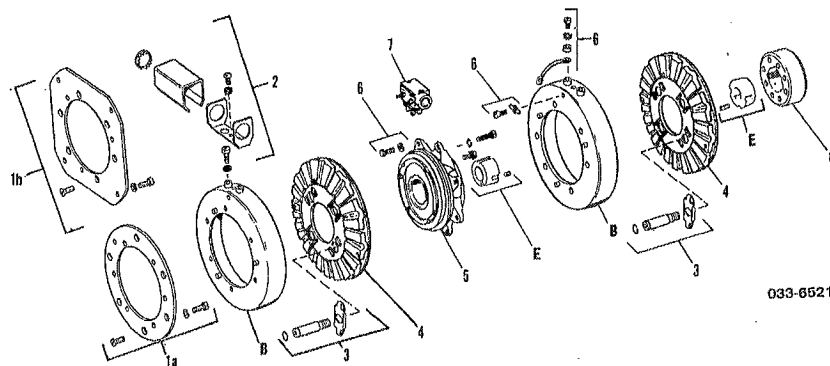
**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R..
3. Composite of both within .010 T.I.R.

\*Bore 'E' Keyway

|               |             |
|---------------|-------------|
| .937 - 1.250  | .250 x .125 |
| 1.312 - 1.375 | .312 x .156 |
| 1.437 - 1.750 | .375 x .187 |
| 1.812 - 2.250 | .500 x .250 |
| 2.312 - 2.750 | .625 x .312 |
| 2.812 - 3.000 | .750 x .375 |

\*Diameters are available in  
 0.062" increments





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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 312**

- Primary Field
- Pin Drive

**Model 312 Clutch-Brake-Coupling Inside Mounted Per FC-312016**  
**Model 312 Clutch-Brake-Coupling Outside Mounted Per FC-312017**

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories            |
| 1a                   |      | 312481   | Inside mounted                          |
| 1b                   |      | 312491   | Outside mounted                         |
| 2                    | 1    | 326078   | Brake Magnet Accessories                |
| 3                    | 2    | 326139   | Adjustable Gap Accessories              |
| 4                    | 2    | 312380   | Armature Plate Assembly                 |
| 5                    | 1    |          | Slip Ring & Hub Assembly                |
| 5a                   |      | 312461   | Right hand                              |
| 5b                   |      | 312471   | Left hand (shown)                       |
| 6                    | 1    | 326138   | Clutch Magnet Accessories               |
| 7                    | 1    | 326019   | Brush Holder Assembly                   |
| 8                    | 1    | 312450   | Armature Hub                            |
| B                    | 2    |          | Field Magnet Assembly                   |
| B-1                  |      | 312371   | 6 volts                                 |
| B-4                  |      | 312374   | 90 volts                                |
| E                    | 2    | 326046   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 4a                   | 4    | 326008   | Drive Pin                               |
| 4b                   | 4    | 326149   | Spring                                  |
| 4c                   | 4    | DY 10572 | Retaining Ring                          |
| 7a                   | 4    | 326023   | Brush                                   |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bores of Item E
  3. Voltage of Items B
  4. Right or Left Hand of Item 5
  5. Inside or Outside Mounting Plate
  6. Controller from Section H

- Example:**
- Outside Mounted Clutch-Brake-Coupling  
 per FC-312017  
 2" bores  
 90 volts  
 Left hand  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
 Data subject to change without notice.

**Model 312 Clutch-Brake-Coupling Inside Mounted Per FC-312166**  
**Model 312 Clutch-Brake-Coupling Outside Mounted Per FC-312167**

**Technical Data**

|                                   |             |                                    |                            |
|-----------------------------------|-------------|------------------------------------|----------------------------|
| Static Torque (Clutch) . . . . .  | 525 lb. ft. | Armatures w/Drive Pins,            |                            |
| (Brake) . . . . .                 | 465 lb. ft. | Hub & Split Taper                  |                            |
| Maximum Speed . . . . .           | 2400 RPM    | Bushing . . . . .                  | 38.948 lb.                 |
| Coil Voltage . . . . .            | 90 vdc      | Brake Field . . . . .              | 18.6 lb.                   |
| Rated Current (Clutch) . . . . .  | 1.80 amp    | Inertia: Clutch Rotor, Hub & Split |                            |
| (Brake) . . . . .                 | .520 amp    | Taper Bushing . . . . .            | 3.856 lb. ft. <sup>2</sup> |
| Weight: Clutch Rotor, Hub & Split |             | Armatures, Hub & Split             |                            |
| Taper Bushing . . . . .           | 35.3 lb.    | Taper Bushing . . . . .            | 3.636 lb. ft. <sup>2</sup> |

**Model 312 - Torque at Various RPM Points - Clutch**

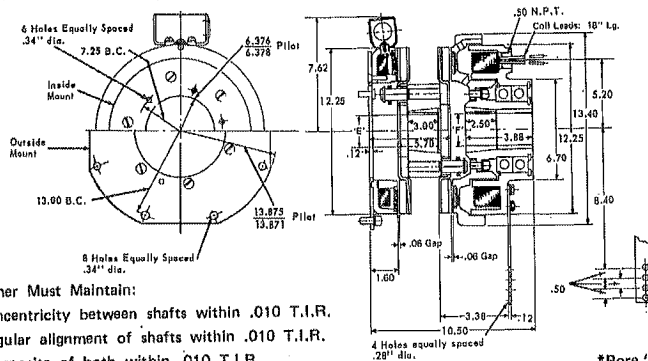
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
|---------|-----|-----|-----|-----|------|------|------|------|
| Lb. Ft. | 525 | 410 | 330 | 270 | 220  | 185  | 170  | 145  |

Refer to Section K for torque and heat dissipation curves.

**Model 312 - Torque at Various RPM Points - Brake**

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2400 |
|---------|-----|-----|-----|-----|------|------|------|------|
| Lb. Ft. | 465 | 380 | 300 | 240 | 190  | 155  | 140  | 130  |

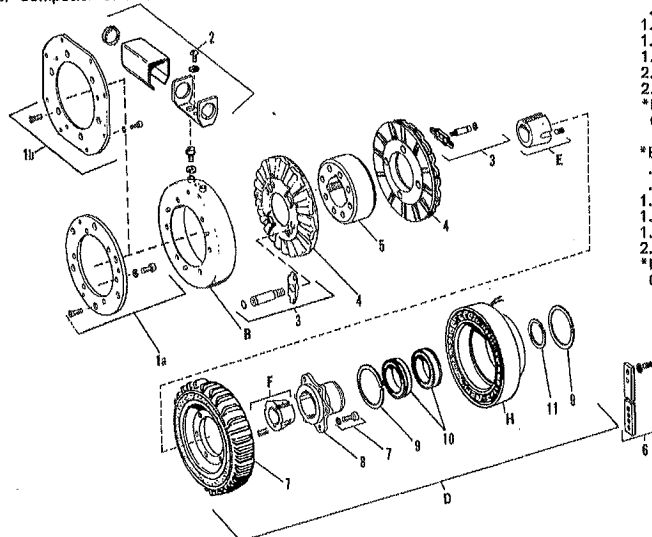
Refer to Section K for torque and heat dissipation curves.



**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

033-6522



**\*Bore 'E' Keyway**  
 .937 - 1.250 .250 x .125  
 1.312 - 1.375 .312 x .156  
 1.437 - 1.750 .375 x .187  
 1.812 - 2.250 .500 x .250  
 2.312 - 2.750 .625 x .312  
 2.812 - 3.000 .750 x .375  
 \*Diameters are available in 0.062" increments

**\*Bore 'F' Keyway**  
 .750 - .875 .187 x .094  
 .937 - 1.250 .250 x .125  
 1.312 - 1.375 .312 x .156  
 1.437 - 1.750 .375 x .187  
 1.812 - 2.250 .500 x .250  
 2.312 - 2.500 .625 x .312  
 \*Diameters are available in 0.062" increments.

033-6523



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## Clutch-Brake-Coupling Model 312-S/312

- Stationary Field
- Bearing Mounted
- Pin Drive

**Model 312 Clutch-Brake-Coupling Inside  
 Mounted Per FC-312166**  
**Model 312 Clutch-Brake-Coupling Outside  
 Mounted Per FC-312167**

| Item                 | Qty. | Part No. | Description                                   |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories                  |
| 1a                   |      | 312481   | Inside mounted                                |
| 1b                   |      | 312491   | Outside mounted                               |
| 2                    | 1    | 326078   | Brake Magnet Accessories                      |
| 3                    | 2    | 326139   | Adjustable Gap Accessories                    |
| 4                    | 2    | 312380   | Armature Plate Assembly                       |
| 5                    | 1    | 312460   | Armature Hub                                  |
| 6                    | 1    | 326246-1 | Field Support Arm w/Accessories               |
| B                    | 1    |          | Field Magnet Assembly                         |
| B-1                  |      | 312371   | 6 volts                                       |
| B-4                  |      | 312374   | 90 volts                                      |
| D                    | 1    |          | Bearing Mounted Rotor & Field Magnet Assembly |
| D-81                 |      | 312761   | 6 volts                                       |
| D-84                 |      | 312764   | 90 volts                                      |
| E                    | 1    | 326046   | Split Taper Bushing<br>(See note below)       |
| F                    | 1    | 326241   | Split Taper Bushing<br>(See note below)       |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 4    | 326008   | Drive Pin                                     |
| 3b                   | 4    | 326149   | Spring  |
| 3c                   | 4    | DY 10572 | Retaining Ring                                |
| 7                    | 1    | 312825   | Rotor Assembly w/Accessories                  |
| 8                    | 1    | 312751   | Rotor Hub                                     |
| 9                    | 2    | DY 11539 | Retaining Ring (internal)                     |
| 10                   | 2    | DY 11538 | Bearing                                       |
| 11                   | 1    | DY 11540 | Retaining Ring (external)                     |
| H                    | 1    |          | Field Magnet Assembly                         |
| H-1                  |      | 312731   | 6 volts                                       |
| H-4                  |      | 312734   | 90 volts                                      |

**To Order, Specify:**

1. Inside or Outside Mounted Clutch-Brake-Coupling
2. Bore of Items E & F
3. Voltage of Items B & D
4. Inside or Outside Mounting Plate
5. Controller from Section H

**Example:**

Outside Mounted Clutch-Brake-Coupling  
 per FC-312167  
 2" bores  
 90 volts  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Data subject to change without notice.

**Model 315/312 Clutch-Brake-Coupling Inside Mounted Per FC-315024**  
**Model 315/312 Clutch-Brake-Coupling Outside Mounted Per FC-315025**

**Technical Data**

|                                  |             |                                  |
|----------------------------------|-------------|----------------------------------|
| Static Torque (Clutch) . . . . . | 700 lb. ft. | Clutch Armature, Hub &           |
| (Brake) . . . . .                | 465 lb. ft. | Split Taper Bushing . . . . .    |
| Maximum Speed . . . . .          | 1800 RPM    | Brake Field . . . . .            |
| Coil Voltage . . . . .           | 90 vdc      | Inertia: Clutch Field, Slip Ring |
| Rated Current (Clutch) . . . . . | .332 amp    | Assy., Brake Armature &          |
| (Brake) . . . . .                | .520 amp    | Split Taper Bushing . . . . .    |
| Weight: Clutch Field, Slip Ring  |             | Clutch Armature, Hub &           |
| Assy., Brake Arma. &             |             | Split Taper Bushing . . . . .    |
| Split Taper Bushing . . . . .    | 58.474 lb.  |                                  |

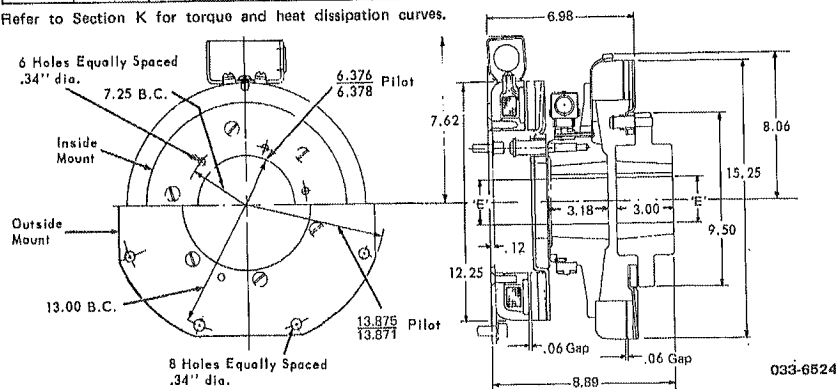
**Model 315 - Torque at Various RPM Points - Clutch**

|         |     |     |     |     |      |      |      |
|---------|-----|-----|-----|-----|------|------|------|
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1600 | 1800 |
| Lb. Ft. | 700 | 530 | 400 | 315 | 260  | 215  | 180  |

**Model 312 - Torque at Various RPM Points - Brake**

|         |     |     |     |     |      |      |      |
|---------|-----|-----|-----|-----|------|------|------|
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
| Lb. Ft. | 465 | 380 | 300 | 240 | 190  | 155  | 140  |

Refer to Section K for torque and heat dissipation curves.



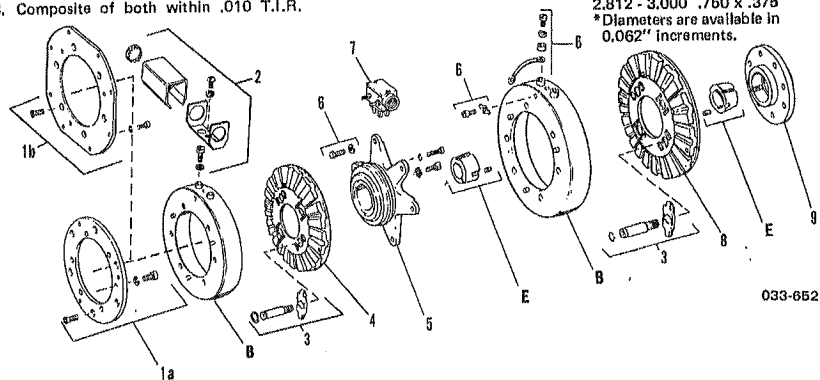
**Customer Must Maintain:**

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

Refer to Section J for chordal dimensions

|               |             |
|---------------|-------------|
| *Bore 'E'     | Keyway      |
| .937 - 1.250  | .250 x .125 |
| 1.312 - 1.375 | .312 x .156 |
| 1.437 - 1.750 | .375 x .187 |
| 1.812 - 2.250 | .500 x .250 |
| 2.312 - 2.750 | .625 x .312 |
| 2.812 - 3.000 | .750 x .375 |

\*Diameters are available in 0.062" increments.





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**Clutch-Brake-Coupling  
 Model 315/312**

- Primary Field
- Pin Drive

**Model 315/312 Clutch-Brake-Coupling Inside  
 Mounted Per FC-315024  
 Model 315/312 Clutch-Brake-Coupling Outside  
 Mounted Per FC-315025**

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Mounting Plate w/Accessories            |
| 1a                   |      | 312481   | Inside mounted                          |
| 1b                   |      | 312491   | Outside mounted                         |
| 2                    | 1    | 326078   | Brake Magnet Accessories                |
| 3                    | 2    | 326139   | Adjustable Gap Accessories              |
| 4                    | 1    | 312380   | Armature Plate Assembly                 |
| 5                    | 1    |          | Slip Ring & Hub Assembly                |
| 5a                   |      | 315461   | Right hand                              |
| 5b                   |      | 315471   | Left hand (shown)                       |
| 6                    | 1    | 326141   | Clutch Magnet Accessories               |
| 7                    | 1    | 326019   | Brush Holder Assembly                   |
| 8                    | 1    | 315380   | Armature Plate Assembly                 |
| 9                    | 1    | 315450   | Armature Hub                            |
| B                    | 1    |          | Field Magnet Assembly (Brake)           |
| B-1                  |      | 312371   | 6 volts                                 |
| B-4                  |      | 312374   | 90 volts                                |
| H                    | 1    |          | Field Magnet Assembly (Clutch)          |
| H-1                  |      | 315371   | 6 volts                                 |
| H-4                  |      | 315374   | 90 volts                                |
| E                    | 2    | 326046   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 4    | 326008   | Drive Pin                               |
| 3b                   | 4    | 326149   | Spring                                  |
| 3c                   | 4    | DY 10572 | Retaining Ring                          |
| 7a                   | 4    | 326023   | Brush                                   |

- To Order, Specify:**
1. Inside or Outside Mounted Clutch-Brake-Coupling
  2. Bores of Item E
  3. Voltage of Items B & H
  4. Right or Left Hand of Item 5
  5. Inside or Outside Mounting Plate
  6. Controller from Section H

- Example:**
- Outside Mounted Clutch-Brake-Coupling  
 per FC-315025  
 1½" bores  
 90 volts  
 Left hand  
 Outside Mounted  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
 Data subject to change without notice.

### Model 315 Clutch-Brake-Coupling Inside Mounted Per FC-315016

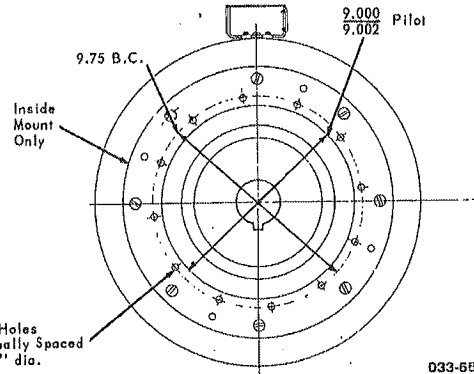
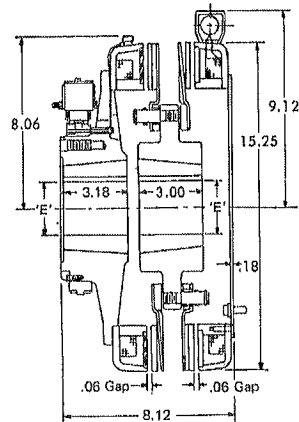
#### Technical Data

|                         |             |                                    |                            |
|-------------------------|-------------|------------------------------------|----------------------------|
| Static Torque . . . . . | 700 lb. ft. | Weight: Clutch Field, Hub & Split  |                            |
| Maximum Speed . . . . . | 1800 RPM    | Taper Bushing . . . . .            | 47.15 lb.                  |
| Coil Voltage . . . . .  | 90 vdc      | Armatures, Hub, & Split            |                            |
| Rated Current . . . . . | .332 amp    | Taper Bushing . . . . .            | 48.298 lb.                 |
|                         |             | Brake Field . . . . .              | 27.25 lb.                  |
|                         |             | Inertia: Clutch Field, Hub & Split |                            |
|                         |             | Taper Bushing . . . . .            | 9.337 lb. ft. <sup>2</sup> |
|                         |             | Armatures, Hub & Split             |                            |
|                         |             | Taper Bushings . . . . .           | 7.981 lb. ft. <sup>2</sup> |

#### Model 315 - Torque at Various RPM Points

| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|-----|-----|-----|-----|------|------|------|
| Lb. Ft. | 700 | 530 | 400 | 315 | 260  | 215  | 180  |

Refer to Section K for torque and heat dissipation curves.



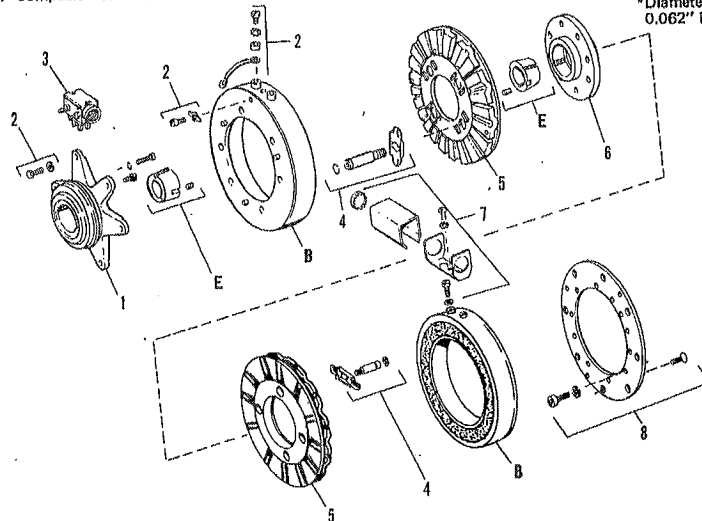
#### Customer Must Maintain:

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.

033-6526

|               |             |
|---------------|-------------|
| *Bore 'E'     | Keyway      |
| .937 - 1.250  | .250 x .125 |
| 1.312 - 1.375 | .312 x .156 |
| 1.437 - 1.750 | .375 x .187 |
| 1.812 - 2.250 | .500 x .250 |
| 2.312 - 2.750 | .625 x .312 |
| 2.812 - 3.000 | .750 x .375 |

\*Diameters are available in 0.062" increments.



033-6527



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Website: www.drivesourceusa.com

## Clutch-Brake-Coupling Model 315/315

- Primary Field
- Pin Drive

### Model 315 Clutch-Brake-Coupling Inside Mounted Per FC-315016

| Item                 | Qty. | Part No. | Description                             |
|----------------------|------|----------|---|
| <b>Major Parts</b>   |      |          |   |
| 1                    | 1    |          | Slip Ring & Hub Assembly                |
| 1a                   |      | 315461   | Right hand                              |
| 1b                   |      | 315471   | Left hand (shown)                       |
| 2                    | 1    | 326141   | Clutch Magnet Accessories               |
| 3                    | 1    | 326019   | Brush Holder Assembly                   |
| 4                    | 2    | 326139   | Adjustable Gap Accessories              |
| 5                    | 2    | 315380   | Armature Plate Assembly                 |
| 6                    | 1    | 315450   | Armature Hub                            |
| 7                    | 1    | 326078   | Brake Magnet Accessories                |
| 8                    | 1    | 315481   | Inside Mounting Plate<br>w/Accessories  |
| B                    | 2    |          | Field Magnet Assembly                   |
| B-1                  |      | 315371   | 6 volts                                 |
| B-4                  |      | 315374   | 90 volts                                |
| E                    | 2    | 326046   | Split Taper Bushing<br>(See note below) |
| <b>Service Parts</b> |      |          |   |
| 3a                   | 4    | 326023   | Brush                                   |
| 4a                   | 4    | 326008   | Drive Pin                               |
| 4b                   | 4    | 326149   | Spring                                  |
| 4c                   | 4    | DY 10572 | Retaining Ring                          |

**To Order, Specify:**

1. Inside Mounted Clutch-Brake-Coupling
2. Bores of Items E
3. Voltage of Items B
4. Right or Left Hand of Item 1
5. Controller from Section H

**Example:**

Inside Mounted Clutch-Brake-Coupling  
per FC-315016  
1½" bores  
90 volts  
Left hand  
Controller Model Number

**Note:**

Refer to Section J for split taper bushing bores.  
Consult the factory for other voltages.  
Bushing enters from the magnet side for left hand and from the hub side for right hand slip ring and hub assembly.  
Data subject to change without notice.

### Model 315 Clutch-Brake-Coupling Inside Mounted Per FC-315162

#### Technical Data

|                                   |              |                                    |                           |
|-----------------------------------|--------------|------------------------------------|---------------------------|
| Static Torque (Clutch) . . . . .  | 1000 lb. ft. | Armatures w/Drive Pins,            |                           |
| (Brake) . . . . .                 | 700 lb. ft.  | Hub & Split Taper                  |                           |
| Maximum Speed . . . . .           | 1800 RPM     | Bushing . . . . .                  | 48.30 lb.                 |
| Coil Voltage . . . . .            | 90 vdc       | Brake Field . . . . .              | 27.25 lb.                 |
| Rated Current (Clutch) . . . . .  | .632 amp     | Inertia: Clutch Rotor, Hub & Split |                           |
| (Brake) . . . . .                 | .332 amp     | Taper Bushing . . . . .            | 5.9 lb. ft. <sup>2</sup>  |
| Weight: Clutch Rotor, Hub & Split |              | Armatures, Hub & Split             |                           |
| Taper Bushing . . . . .           | 29.5 lb.     | Taper Bushing . . . . .            | 7.98 lb. ft. <sup>2</sup> |

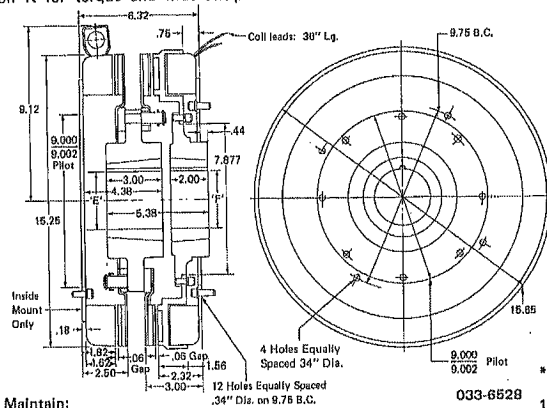
#### Model 315 - Torque at Various RPM Points - Clutch

| RPM     | 0    | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|------|-----|-----|-----|------|------|------|
| Lb. Ft. | 1000 | 680 | 590 | 530 | 480  | 430  | 400  |

#### Model 315 - Torque at Various RPM Points - Brake

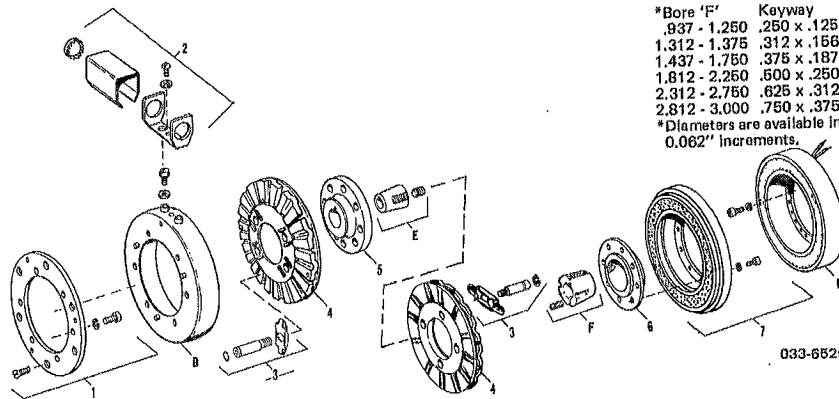
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|-----|-----|-----|-----|------|------|------|
| Lb. Ft. | 700 | 530 | 400 | 315 | 260  | 215  | 180  |

Refer to Section K for torque and heat dissipation curves.



#### Customer Must Maintain:

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.
4. Squareness of field mounting face with both shafts within .006 T.I.R.



|  |               |
|--|---------------|
| <b>*Bore 'E'</b>                               | <b>Keyway</b> |
| .937 - 1.250                                   | .250 x .125   |
| 1.312 - 1.375                                  | .312 x .156   |
| 1.437 - 1.750                                  | .375 x .187   |
| 1.812 - 2.250                                  | .500 x .250   |
| 2.312 - 2.750                                  | .625 x .312   |
| 2.812 - 3.000                                  | .750 x .375   |
| *Diameters are available in 0.062" increments. |               |
| <b>*Bore 'F'</b>                               | <b>Keyway</b> |
| .937 - 1.250                                   | .250 x .125   |
| 1.312 - 1.375                                  | .312 x .156   |
| 1.437 - 1.750                                  | .375 x .187   |
| 1.812 - 2.250                                  | .500 x .250   |
| 2.312 - 2.750                                  | .625 x .312   |
| 2.812 - 3.000                                  | .750 x .375   |
| *Diameters are available in 0.062" increments. |               |



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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 315-S/315**

- Stationary Field
- Flange Mounted
- Pin Drive

**Model 315 Clutch-Brake-Coupling Inside  
 Mounted Per FC-315162**

| Item                 | Qty. | Part No. | Description                          |
|----------------------|------|----------|--------------------------------------|
| <b>Major Parts</b>   |      |          |                                      |
| 1                    | 1    | 315481   | Inside Mounting Plate w/Accessories  |
| 2                    | 1    | 326078   | Brake Magnet Accessories             |
| 3                    | 2    | 326139   | Adjustable Gap Accessories           |
| 4                    | 2    | 315380   | Armature Plate Assembly              |
| 5                    | 1    | 315450   | Armature Hub                         |
| 6                    | 1    | 315750-3 | Rotor Hub                            |
| 7                    | 1    | 315826-3 | Rotor Assembly w/Accessories         |
| B                    | 1,   |          | Field Magnet Assembly                |
| B-1                  |      | 315371   | 6 volts                              |
| B-4                  |      | 315374   | 90 volts                             |
| E                    | 1    | 326046   | Split Taper Bushing (See note below) |
| F                    | 1    | 326232   | Split Taper Bushing (See note below) |
| H                    | 1    |          | Flange Mounted Field Magnet Assembly |
| H-1                  |      | 315711-3 | 6 volts                              |
| H-4                  |      | 315714-3 | 90 volts                             |
| <b>Service Parts</b> |      |          |                                      |
| 3a                   | 4    | 326008   | Drive Pin                            |
| 3b                   | 4    | 326149   | Spring                               |
| 3c                   | 4    | DY 10572 | Retaining Ring                       |

**To Order, Specify:**  
 1. Clutch-Brake-Coupling  
 2. Bore of Items E & F  
 3. Voltage of Items B & H  
 4. Controller from Section H

**Example:**  
 Clutch-Brake-Coupling per FC-315162  
 2" bores  
 90 volts  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Data subject to change without notice.

### Model 315 Clutch-Brake-Coupling Inside Mounted Per FC-315172

#### Technical Data

|                                   |              |                                    |                           |
|-----------------------------------|--------------|------------------------------------|---------------------------|
| Static Torque (Clutch) . . . . .  | 1000 lb. ft. | Armatures w/Drive Pins,            |                           |
| (Brake) . . . . .                 | 700 lb. ft.  | Hub & Split Taper                  |                           |
| Maximum Speed . . . . .           | 1800 RPM     | Bushing . . . . .                  | 48.30 lb.                 |
| Coil Voltage . . . . .            | 90 vdc       | Brake Field . . . . .              | 27.25 lb.                 |
| Rated Current (Clutch) . . . . .  | .632 amp     | Inertia: Clutch Rotor, Hub & Split |                           |
| (Brake) . . . . .                 | .332 amp     | Taper Bushing . . . . .            | 5.9 lb. ft. <sup>2</sup>  |
| Weight: Clutch Rotor, Hub & Split |              | Armatures, Hub & Split             |                           |
| Taper Bushing . . . . .           | 29.5 lb.     | Taper Bushing . . . . .            | 7.98 lb. ft. <sup>2</sup> |

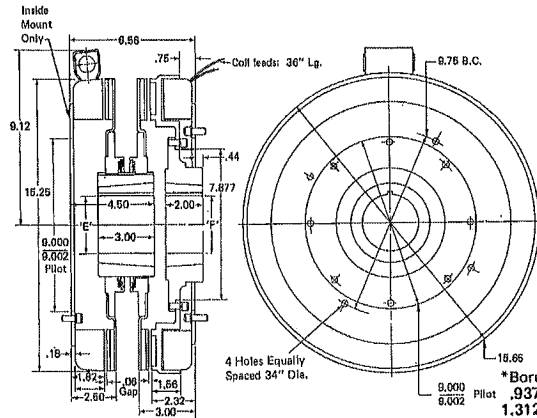
#### Model 315 - Torque at Various RPM Points - Clutch

| RPM     | 0    | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|------|-----|-----|-----|------|------|------|
| Lb. Ft. | 1000 | 680 | 590 | 530 | 480  | 430  | 400  |

#### Model 315 - Torque at Various RPM Points - Brake

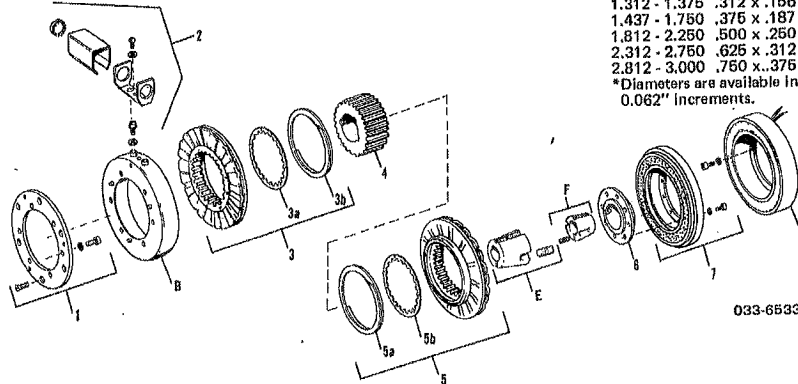
| RPM     | 0   | 300 | 600 | 900 | 1200 | 1500 | 1800 |
|---------|-----|-----|-----|-----|------|------|------|
| Lb. Ft. | 700 | 530 | 400 | 315 | 260  | 215  | 180  |

Refer to Section K for torque and heat dissipation curves.



#### Customer Must Maintain:

1. Concentricity between shafts within .010 T.I.R.
2. Angular alignment of shafts within .010 T.I.R.
3. Composite of both within .010 T.I.R.
4. Squareness of field mounting face with both shafts within .006 T.I.R.



\*Bore 'E' Keyway  
 .937 - 1.250 .250 x .125  
 1.312 - 1.375 .312 x .156  
 1.437 - 1.750 .375 x .187  
 1.812 - 2.250 .500 x .250  
 2.312 - 2.750 .625 x .312  
 2.812 - 3.000 .750 x .375  
 \*Diameters are available in 0.062" increments

\*Bore 'F' Keyway  
 .937 - 1.250 .250 x .125  
 1.312 - 1.375 .312 x .156  
 1.437 - 1.750 .375 x .187  
 1.812 - 2.250 .500 x .250  
 2.312 - 2.750 .625 x .312  
 2.812 - 3.000 .750 x .375  
 \*Diameters are available in 0.062" increments.



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 Website: www.drivesourceusa.com

**Clutch-Brake-Coupling  
 Model 315-S/315**

- Stationary Field
- Flange Mounted
- Spline Drive

**Model 315 Clutch-Brake-Coupling Inside  
 Mounted Per FC-315172**

| Item                 | Qty. | Part No. | Description                          |
|----------------------|------|----------|--------------------------------------|
| <b>Major Parts</b>   |      |          |                                      |
| 1                    | 1    | 315481   | Inside Mounting Plate w/Accessories  |
| 2                    | 1    | 326078   | Brake Magnet Accessories             |
| 3                    | 1    | 315382-4 | Armature Plate Assembly (Brake)      |
| 4                    | 1    | 312680-6 | Armature Hub                         |
| 5                    | 1    | 315382-2 | Armature Plate Assembly (Clutch)     |
| 6                    | 1    | 315750-3 | Rotor Hub                            |
| 7                    | 1    | 315826-3 | Rotor Assembly w/Accessories         |
| B                    | 1    |          | Field Magnet Assembly                |
| B-1                  |      | 315371   | 6 volts                              |
| B-4                  |      | 315374   | 90 volts                             |
| E                    | 1    | 326046   | Split Taper Bushing (See note below) |
| F                    | 1    | 326232   | Split Taper Bushing (See note below) |
| H                    | 1    |          | Flange Mounted Field Magnet Assembly |
| H-1                  |      | 315711-3 | 6 volts                              |
| H-4                  |      | 315714-3 | 90 volts                             |
| <b>Service Parts</b> |      |          |                                      |
| 3a                   | 1    | 326278   | Drag Spring                          |
| 3b                   | 1    | 326275   | Adjustable Gap Spring                |
| 5a                   | 1    | 326275   | Adjustable Gap Spring                |
| 5b                   | 1    | 326278   | Drag Spring                          |

- To Order, Specify:**
1. Clutch-Brake-Coupling
  2. Bore of Items E & F
  3. Voltage of Items B & H
  4. Controller from Section H

**Example:**  
 Clutch-Brake-Coupling per FC-315172  
 2" bores  
 90 volts  
 Controller Model Number

**Note:**  
 Refer to Section J for split taper bushing bores.  
 Consult the factory for other voltages.  
 Data subject to change without notice.  
 Above prices without a \* are subject to quantity discount.