

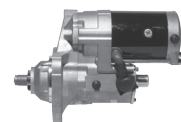
FLYWHEEL HOUSING CHART

CASE STARTER APPLICATIONS

| No. | Flywheel Housing | Flywheel | Ring Gear | Engine | Used with DP = 8/10 Ring Gear | | |
|-----|------------------|----------|--------------------|--------|-----------------------------------|----------------------------------|--|
| | | | | | R2.5 kW | R4.0 kW | R7.5 kW |
| 1 | 222365A2 | J930780 | J905427 (Z=127) | 6B | | 228000-561* (223900A1) | |
| 2 | -- | J916634 | J901774(Z=159) | 4B | 128000-021* (1987559C1) | | |
| 3 | -- | J910684 | | | | | |
| 4 | -- | J902569 | | | | | |
| 5 | -- | J910283 | | | | | |
| 6 | -- | J910284 | | | | | |
| 7 | -- | J905927 | | | | | |
| 8 | -- | J910284 | | | | | |
| 9 | -- | J911304 | | | | | |
| 10 | -- | J908530 | | | | J901774 | 4B |
| 11 | -- | J908530 | J905427 | 6B | | | |
| 12 | J908799 | J919548 | | 6C | | | 228000-561* (223900A1) (DSCA 228000-7381) |

CAT STARTER APPLICATIONS

| No | Flywheel Housing | Flywheel | Ring Gear | Engine | Starter | | | | | | | |
|----|----------------------------------|-------------------|-----------------------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------|----------------------------------|-----------|----------------------------------|
| | | | | | RA1.2 kW | RA2.0 kW | RA2.2 kW | RA2.7 kW | RA3.0 kW | RA4.5 kW | IIF5.0 kW | |
| 1 | SAE 5 Short | -- | 1153761300 (Z=96) | 3003 | 228000-7520 (160-4648) | | | | | | | |
| 2 | SAE 4 Short 110446650 | Light | 1153760400 (Z=109) | 3013 | | 228000-7530 (144-9966) | | | | | | |
| 3 | SAE 4 Long | Light | 1153761600 (Z=126) | 3024 | | | 228000-8450 (155-9849) | | | | | |
| 4 | SAE 4 LHS | -- | 31161147 (Z=112) | 3034 | | | | 228000-7500 (144-9955) | | | | |
| 5 | AC102 | 3121H042 | 0410236 (Z=115) | 3054 | | | | 228000-1352 (143-0538) | | | | |
| 6 | 3713M031 3713K021 3713W013 | 3122E134 | 31162121 (Z=126) | 3054 | | | | 228000-1422 (143-0539) | | | | |
| 7 | 3713M031 3713K021 3713W013 | 3122E134 | 31162121 (Z=126) | 3054 | | | | | | 228000-1832 (143-0541) | | |
| 8 | -- | -- | 2N1599 (Z=126) | 3046 | | | | | | 228000-3700 (105-3133) | | |
| 9 | 7C3535 | 9Y9314 1129842 | 9L8113 (Z=134) | 3208 | | | | | | | | 228000-5360 (122-6032) |

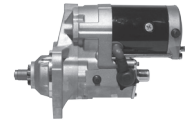


FLYWHEEL HOUSING CHART

CURRENT STARTER AVAILABILITY FOR ISB SERIES

| No. | Flywheel Housing * | Flywheel Housing Option | Used with DP = 8/10 Ring Gear | | | | | | |
|-----|----------------------------|--|--|--|---|--|---|------------------------|---|
| | | | R2.5 kW (12V) (Only for 4B Engine) | R2.7 kW (12V) (4B & 6B Engine) | R3.0 kW (12V) (4B & 6B Engine) | R4.5 kW (24V) (4B & 6B Engine) | | | |
| 1 | 3279071 3931629 | FH 9060, FH 9194, FH 9261 | | 3957586 (228000-0624) (Wet, Grd, JSPT, DP10/12) 3964427 (428000-1850) (Dry, Grd, DP10/12) 3971610 (428000-2870) (Wet, Grd, JSPT, DP8/10) 3971613 (428000-2920) (Dry, Grd, DP8/10) | 3957591 (228000-2672) (Grd, JSPT, DP10/12) 3971611 (428000-2880) (Grd, JSPT, DP8/10) | | | | |
| 2 | 3279471 | FH9084 | | | | | | | |
| 3 | 3904717 3931717 3933387 | FH9015, FH9152, FH9815 | | | | 3957592 (228000-0633) (Grd, JSPT) | | | |
| 4 | 3905373 3931715 | FH9021, FH9062, FH9098, FH9102, FH9189, FH9195 | | | | (UPS P/N 228000-6981) (Dry, Tungsten, DP10/12) (DSCA P/N 228000-7341) (Grd, Wet, DP10/12) | (DSCA P/N 228000-7290) (Grd, DP10/12) | (DSCA P/N 228000-6670) | |
| 5 | 3281739 3282060 | FH9116 | | | | 3957585 (128000-9504) (Wet, 2 bolt, Grd, JSPT, DP10/12) | (DSCA P/N 228000-9100) (Dry, Tungsten, DP10/12) | | (DSCA P/N 228000-3320) (DP10/12) |
| 6 | 3904172 3931716 | FH9017, FH9020, FH9119, FH9158, FH9187, FH9820 | | | | (DSCA P/N 228000-1953) (Wet, DP10/12) | (DSCA P/N 228000-7290) (Grd, DP10/12) | | |
| 7 | 3908005 | FH9041, FH9185 | | | | (DSCA P/N 428000-0190) | | | [All - Wet, 2 bolt] |
| 8 | 3908010 | FH9042, FH9192, FH9842 | | | | (Wet, Grd, Tungsten, DP10/12) | | | |
| 9 | 3912601 | FH9043, FH9843 | | | | [All - 2 bolt] | [All - Dry, 2 bolt] | | |
| 10 | 3916101 | FH9022, FH9822 | | | | | | | Not Available (No DP = 8/10 Ring Gear) |
| 11 | 3281289 | Obsolete | | | | | | | |
| 12 | 3353826 | FH9086, FH9190 | | 3964432 (4228000-1870) (Grd, JSPT, DP10/12) 3964428 (428000-1860) (Dry, Grd, DP10/12) 3971615 (428000-2920) (Grd, JSPT, DP8/10) 3971614 (428000-2910) (Dry, Grd, DP8/10) | 3957588 (128000-4222) (Grd, JSPT, DP10/12) 3971603 (428000-2860) (Grd, JSPT, DP8/10) | 3970101 (228000-1753) (Grd, JSPT, no Cummins label) | | | |
| 13 | 3354536 | FH9106 | | | | (DSCA P/N 228000-3310) (DP10/12) | 3957593 (228000-7902) (Grd, JSPT) | | |
| 14 | 3903282 3937426 3931627 | FH9002, FH9010, FH9085, FH9089, FH9182, FH9188, FH9197, FH9802, FH9810 | | | | 3957594 (128000-0545) (Wet, 2 bolt, Grd, JSPT, DP10/12) | (DSCA P/N 228000-4670) (DP10/12) | | (DSCA P/N 228000-7280) (Grd, DP10/12) |
| 15 | 3903287 3931714 | FH9001, FH9009, FH9083, FH9175, FH9801 | | | | (DSCA P/N 228000-7311) (Grd, DP10/12) | | | |
| 16 | 3912740 | FH9071, FH9871 | | | | [All - Wet, 2 bolt] | [All - Dry, 2 bolt] | [All - Wet, 2 bolt] | |
| 17 | 3914004 | FH9076 | | | | | | | |
| 18 | 3918780 3932037 | FH9094, FH9140, FH9203, FH9289, FH9297 | | | | New P/N is necessary | New P/N is necessary | New P/N is necessary | New P/N is necessary |
| 19 | 3921300 3925223 | FH9110, FH9123, FH9146, FH9184 | | | | New P/N is necessary | 3957587 (228000-4662) (Dry, Grd, JSPT, DP10/12) 3971612 (228000-2890) (Dry, Grd, JSPT, DP8/10) | New P/N is necessary | |
| 20 | 3354857 | FH9112, FH9155 | | | | | | | |
| 21 | 3921296 | | | | | | (DSCA P/N 228000-3810) (Dry, Tungsten, DP10/12) | | |
| 22 | 3931713 | FH9109, FH9124, FH9145, FH9161 | | | | | (DSCA P/N 228000-7301) (Grd, Dry, Tungsten, DP10/12) (Ford P/N F4HS-11001-HA 228000-4160) (Dry, Tungsten, DP10/12) | | |
| 23 | 3912184 | FH9061, FH9861 | R3.0 is released | R3.0 is released | 3935890 (128000-4911) (Dry, DP10/12) | | Not Available (No DP = 8/10 Ring Gear) | | |
| 24 | 3920381 | FH9113, FH9154, FH9243 | R2.7 will be released | 4090084 (428000-1190) (Dry, DP10/12) | R2.7 will be released | | | | |
| 25 | 3914425 | FH9078, FH9196 | New housing is required due to SAE #3 mounting. | New housing is required due to SAE #3 mounting. | New housing is required due to SAE #3 mounting. | New housing is required due to SAE #3 mounting. | | | |
| 26 | 3913592 | FH9073 | | | | | | | |

* T/C has drawings of italicized p/n's.



FLYWHEEL HOUSING CHART

STARTER AVAILABILITY FOR CUMMINS ISC ENGINE

| No. | Flywheel Housing | Flywheel Option | Used with DP = 8/10 Ring Gear | |
|-----|-------------------------------|--|---|--|
| | | | R4.0 kW | R7.5 kW |
| 1 | 3281199 | FH9100, FH9299 | | |
| 2 | 3281473 | FH9108, FH9202 | | |
| 3 | 3352374 | FH9064, FH9065, FH9221, FH9222 | | |
| 4 | 3352392 | FH9066, FH9067, FH9209, FH9223, FH9866 | | |
| 5 | 3354010 | OBSOLETE | | |
| 6 | 3906689 | FH9032, FH9033, FH9097, FH9170, FH9219, FH9230, FH9832, FH9833 | 3957589 (228000-5622) (DSCA 228000-6511) | 3283814 (228000-5631) 3957597 (428000-1340)(Grd) |
| 7 | 3908799 | FH9030, FH9031, FH9135, FH9207, FH9227, FH9306, FH9830, FH9831 | | |
| 8 | 3353675 | FH9079, FH9217 | | |
| 9 | 3906690 3922675 3926207 | FH9133, FH9136, FH9137, FH9183, FH9205, FH9834, FH9835 | 3957590 (228000-5902) (DSCA 228000-9300) (Grd) DSCA 228000-5310 | 3958033 (428000-0060) |
| 10 | 3906766 | FH9036, FH9037, FH9208, FH9218 | | |
| 11 | 3908548 | FH9051, FH9216, FH9851 | | |
| 12 | 3911604 | FH9057, FH9212 | | |
| 13 | 3913344 | FH9070 | | |
| 14 | 3913368 | FH9075, FH9229 | | |
| 15 | 3913593 | FH9074, FH9179 | | |
| 16 | 3917459 | FH9081, FH9224 | | |
| 17 | 3921629 3926238 3928490 | FH9138, FH9157 | | |
| 18 | 3921956 3926239 3928491 | FH9139, FH9163 | | |
| 19 | 3924581 | FH9118, FH9204, FH9259 | | |
| 20 | 3925338 | FH9126 | | |
| 21 | 3927779 | FH9141 | | |
| 22 | 3927780 | FH9142, FH9226, FH9295 | | |
| 23 | 3927876 | FH9114 | | |
| 24 | | | | 228000-5052 (3282626) |
| 25 | | | | 228000-2201 (3924466) 428000-1330 (3957598) (Grd) |
| 26 | | | | DSCA 228000-5001 |
| 27 | 3904717 3933387 | FH9015, FH9152, FH9815 | 3939012 228000-8520 | |