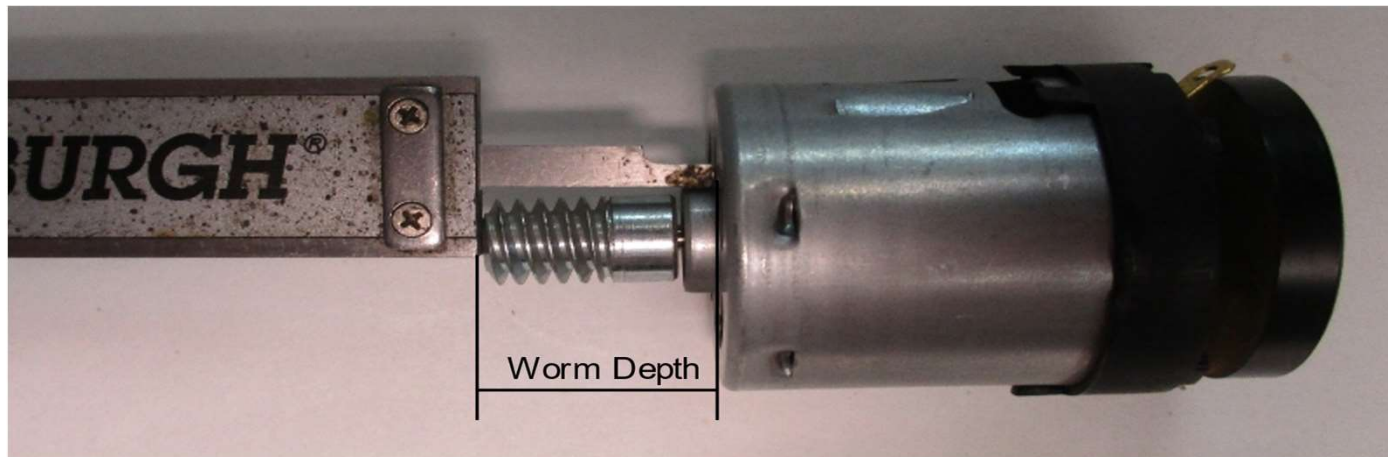


## RAILKING DIESEL LOCOMOTIVE MOTOR & WORM GEAR CHART

The following list shows which motor and worm gear combinations are used in each specific model. Each motor description identifies the motor type, the worm gear, the overall flywheel diameter and thickness (if it is not denoted as tapered, then the flywheel is flat). It also lists the depth of the worm gear (from the face of the end of the worm gear to the bottom of the motor case (where it sits on the motor mount)). The diagram below shows how this dimension is taken. We recommend you measure the "worm depth" on the motor you are replacing BEFORE ordering a new replacement motor

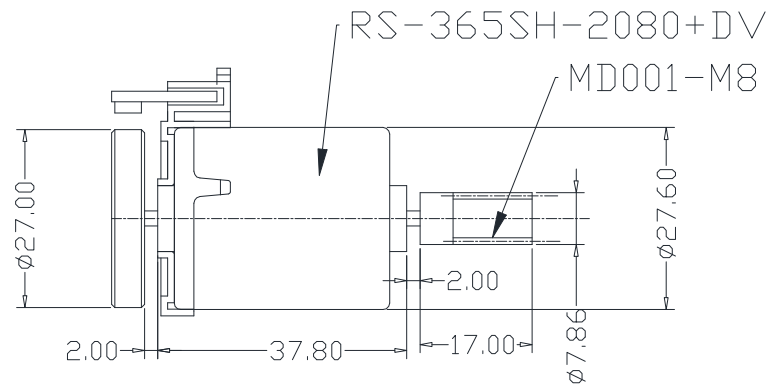
*The part numbers shown below each category will all work on the RailKing models shown, they are segregated based on worm depth and flywheel/bracket combinations.*



**NOTE: The helical gear in the trucks have remained the same from Protosound 1 through Protosound 3.0. Hence the worm gears are the same from the earliest models to the most recently shipped models.**

Motor:  
RS365SH

Worm Gear:  
MD001-M8



**Fits the following RailKing Diesels;**

DOODLEBUG	RS-27 (RKS)
F-3A	RS-3
FA-2	SW-1500
GENESIS	SW-1500
MP-15	SW-8
NW-2	SW-9
RDC BUDD	VO-1000
RS-1	RS-11

**BE2240006 STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

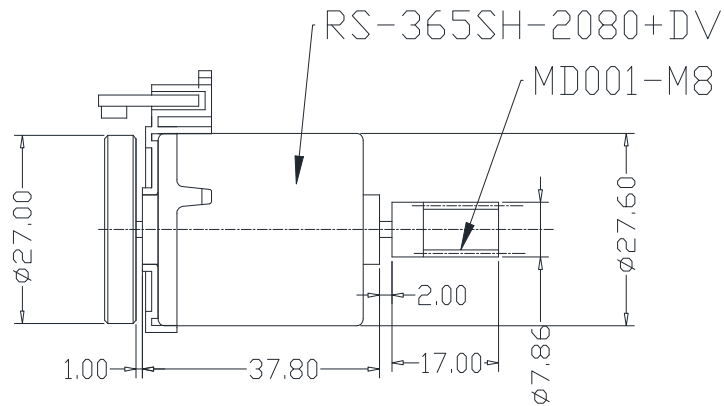
BE2240006	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.29mm TO 21.66mm / STRIPED / PS 2 BKT
BE0000243	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.76mm TO 21.72mm / STRIPED / PS 3 BKT
BE0000060	DC MOTOR / RS365SH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 21.45mm TO 21.79mm / STRIPED / PS 2 BKT
BE0000142	DC MOTOR / RS365SH / MD001-M8 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 21.63 / STRIPED / PS 2 BKT
BE0000093	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 22mm / STRIPED / PS 2 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE1240003	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.46mm TO 21.84mm / BLACK / PS 2 & PS 3
BE0000120	DC MOTOR / RS365SH / MD001-M8 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 21.49mm TO 21.79mm / BLACK / PS 2

Motor:  
RS365SH

Worm Gear:  
MD012-M30



**Fits the following RailKing Diesels;**

6200 SUBWAY  
E-6  
LO-V SUBWAY  
Q CAR  
R12

R-17 SUBWAY  
R-26 SUBWAY  
R-36 SUBWAY  
R-62 SUBWAY

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

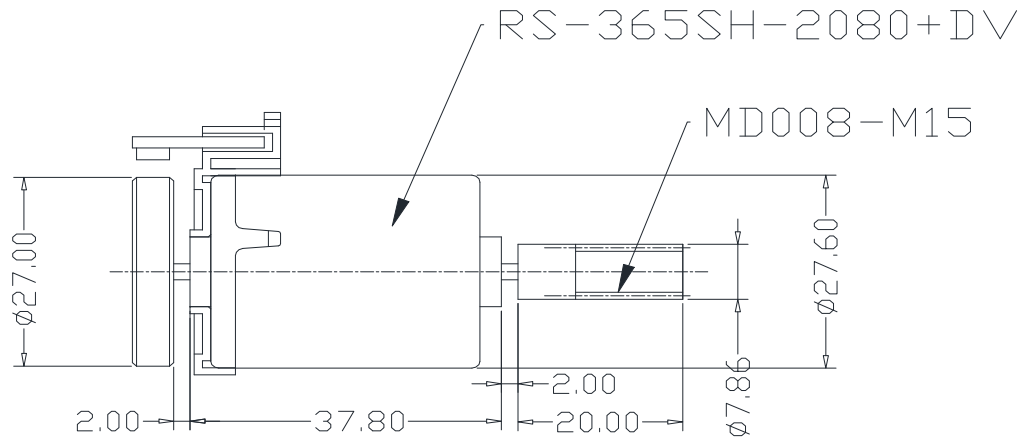
BE2130002 DC MOTOR / RS365SH / MD012-M30 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.86mm TO 24.7mm / STRIPED / PS 2 BKT  
BE2240013 DC MOTOR / RS365SH / MD012-M30 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.43mm / STRIPED / PS 3 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE0000231 DC MOTOR / RS365SH / MD012-M30 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.4mm TO 23.89mm / BLACK / PS 2 & PS 3  
BE2140000 DC MOTOR / RS365SH / MD012-M30 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.59mm TO 24.99mm / BLACK / PS 2 & PS 3  
BE0000149 DC MOTOR / RS365SH / MD012-M30 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 24.26mm / BLACK / PS 2

Motor:  
RS365SH

Worm Gear:  
MD031-M9



**Fits the following RailKing Diesels;**  
AEROTRAIN

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

BE0000169 DC MOTOR / RS365SH / MD031-M9 / F/W 9mm D x 5mm THICK / WORM LENGTH 21.06mm / STRIPED / PS 2 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

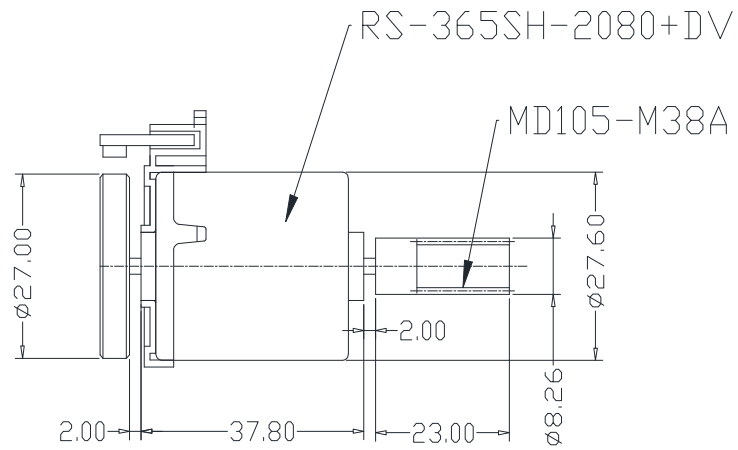
BE0000208 DC MOTOR / RS365SH / MD031-M9 / F/W 27mm D x 5mm THICK / WORM LENGTH 19.01mm / BLACK / PS 2 & PS 3

BE0000168 DC MOTOR / RS365SH / MD031-M9 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.2mm / BLACK / PS 2 & PS 3

BE2230003 DC MOTOR / RS365SH / MD031-M9 / F/W 27mm D x 5mm THICK / WORM LENGTH 17.88mm / BLACK / PS 2 & PS 3

Motor:  
RS365SH

Worm Gear:  
MD-M38A



**Fits the following RailKing Diesels;**  
RSD-4/5

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

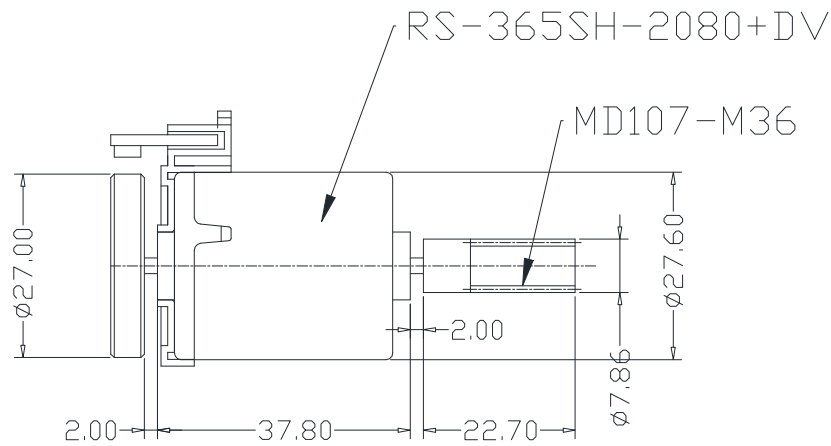
BE0000224 DC MOTOR / RS365SH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 25.91mm / STRIPED / PS 2

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE0000223 DC MOTOR / RS365SH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 26mm / BLACK / PS 2 & PS 3

Motor:  
RS365SH

Worm Gear:  
MD107-M36



**Fits the following RailKing Diesels;**

ALCO PA-1

E-33

E-3A

EP-5

GAS TURBINE

MU CAR

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

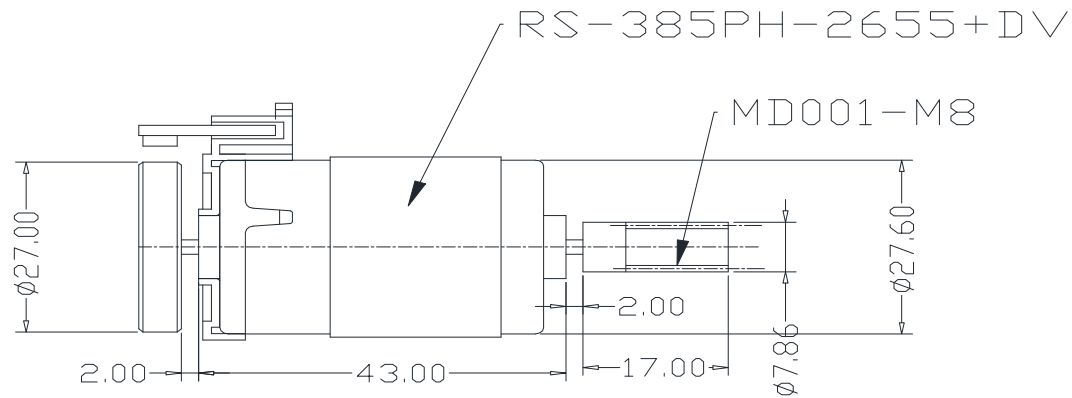
BE2240008	DC MOTOR / RS365SH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.89mm TO 26.89mm / STRIPED / PS 2 BKT
BE0000135	DC MOTOR / RS365SH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.71mm / STRIPED / PS 2 BKT
BE0000098	DC MOTOR / RS365SH / MD107-M36 / F/W 30mm D x 9mm THICK / WORM LENGTH 28.53mm / STRIPED / PS 2 BKT
BE0000202	DC MOTOR / RS365SH / MD107-M36 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 26.52mm / STRIPED / PS 2 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE2230007	DC MOTOR / RS365SH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.72mm TO 27.19mm / BLACK / PS 2 & PS 3
BE2230002	DC MOTOR / RS365SH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.45mm / BLACK / PS 2 & PS 3
BE0000097	DC MOTOR / RS365SH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 28.42mm / BLACK / PS 2 & PS 3

Motor:  
RS385PH

Worm Gear:  
MD001-M8



**Fits the following RailKing Diesels;**

DASH-8 (4-WHL TRK)	FM H10-44
DASH-8 (6-WHL TRK)	GP-20
F40PH	GP-7
F40PH (RKS)	GP-9
F59PH	

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

BE2100120	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 21mm TO 21.35mm / STRIPED / PS 2 BKT
BE2200003	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.93mm TO 21.46mm / STRIPED / PS 3 BKT
BE2240001	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 21.43mm TO 22mm / STRIPED / PS 2 BKT
BE0000122	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 7mm THICK / WORM LENGTH 21.5mm / STRIPED / PS 2 BKT
BE0000125	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 21.38mm / STRIPED / PS 2 BKT
BE0000110	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 20.75mm TO 21.29mm / STRIPED / PS 2 BKT
BE0000184	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 21.26mm TO 21.28mm / STRIPED / PS 2 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

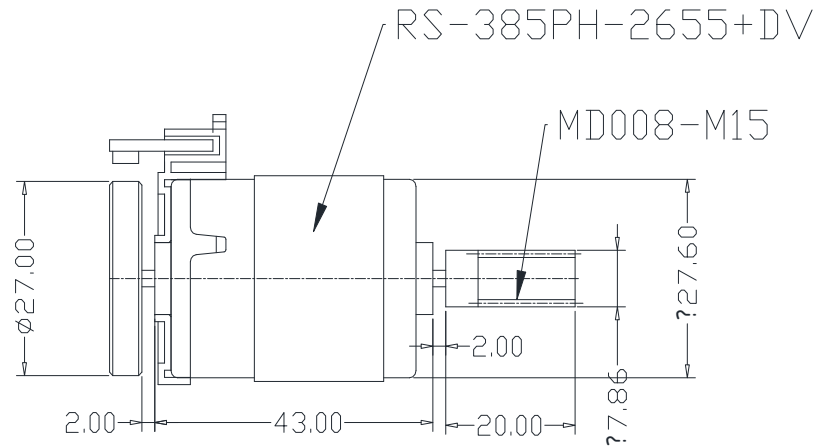
BE2230009	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.7mm TO 21.32mm / BLACK / PS 2 & PS 3
BE0000166	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 21.45mm TO 21.96mm / BLACK / PS 2 & PS 3
BE3100016	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 7mm THICK / WORM LENGTH 23.17mm / BLACK / PS 2
BE2100004	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 7mm THICK / WORM LENGTH 20.38mm / BLACK / PS 2
BE0000239	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 21.32mm / BLACK / PS 2
BE0000124	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 20.95mm / BLACK / PS 2
BE0000205	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm THICK / WORM LENGTH 21.07mm / BLACK / PS 2
BE0000183	DC MOTOR / RS385PH / MD001-M8 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 21.17mm / BLACK / PS 2

Motor:  
RS385PH

Worm Gear:  
MD008-M15

**Fits the following RailKing Diesels;**

ELECTROLINER	R142
GG-1	R142A



**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

BE0000232	DC MOTOR / RS385PH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.11mm TO 24.36mm / STRIPED / PS 3 BKT
BE2100003	DC MOTOR / RS385PH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM LENGTH 25.48mm / STRIPED / PS 2 BKT
BE0000186	DC MOTOR / RS385PH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM LENGTH 24.23mm / STRIPED / PS 2 BKT

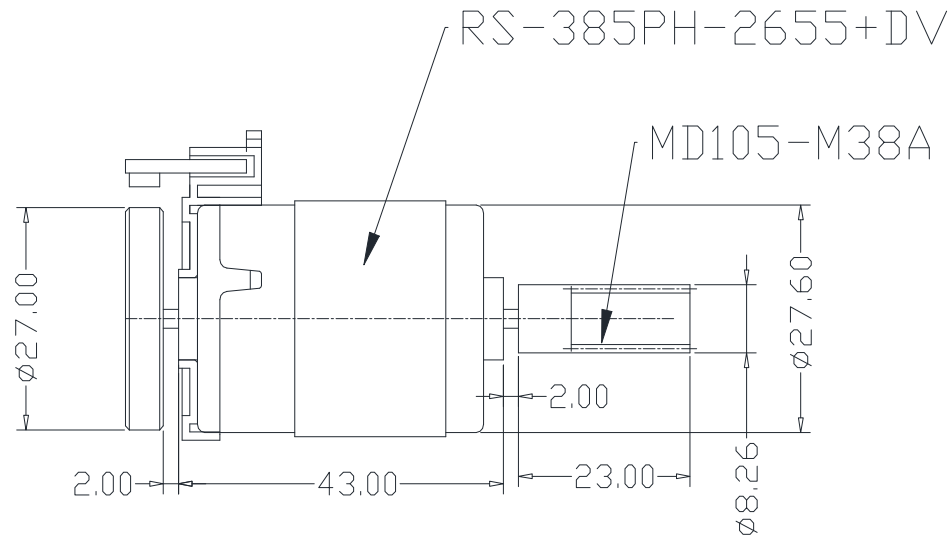
**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE0000185	DC MOTOR / RS385PH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM LENGTH 24.09mm / BLACK / PS 2
-----------	--



Motor:  
RS385PH

Worm Gear:  
MD105-M38A



**Fits the following RailKing Diesels;**

C-628  
AS-616  
C30-7

FM TRAINMASTER  
SD70ACE  
ES44AC GEVO

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

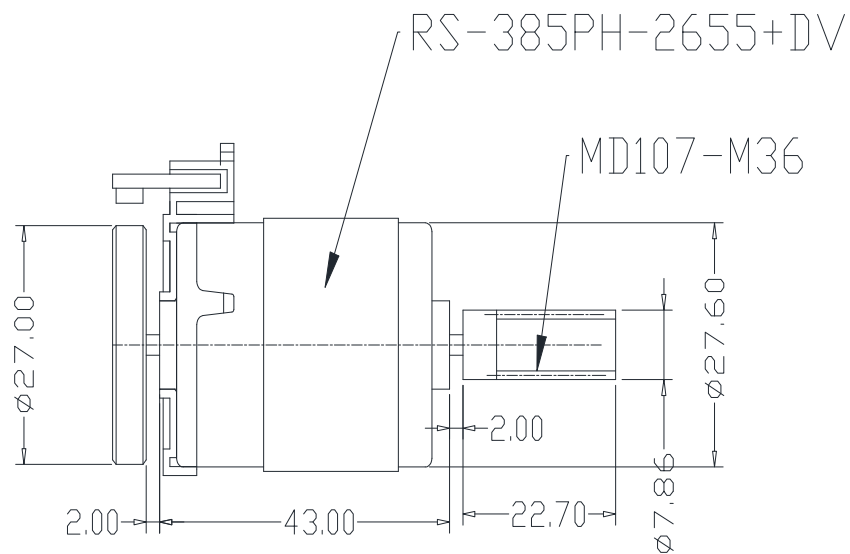
BE2240014 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 25.79mm / STRIPED / PS 2 BKT  
BE0000178 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 27.12mm / STRIPED / PS 2 BKT  
BE2140004 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 26.06mm / STRIPED / PS 3 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE2230012 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 25.8mm / BLACK / PS 2 & PS 3  
BE2230013 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 26.61mm / BLACK / PS 2 & PS 3  
BE0000177 DC MOTOR / RS385PH / MD105-M38A / F/W 27mm D x 5mm THICK / WORM LENGTH 27.3mm / BLACK / PS 2 & PS 3

Motor:  
RS385PH

Worm Gear:  
MD107-M36



**Fits the following RailKing Diesels;**

SD-45  
SD-60  
E-8A  
FP-45

SD-9  
SD90MAC  
RR DASH-8

**STRIPED FLYWHEEL MOTOR (PS2 & PS3)**

BE2240007 DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.05mm TO 27.2mm / STRIPED / PS 2 BKT  
BE2200004 DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.68mm TO 26.83mm / STRIPED / PS 3 BKT  
BE2100005 DC MOTOR / RS385PH / MD107-M36 / F/W 30mm D x 7mm THICK / WORM LENGTH 26.06mm / STRIPED / PS 2 BKT  
BE2240016 DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.75mm / STRIPED / PS 2 BKT

**NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)**

BE2230000 DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.7mm TO 27.05mm / BLACK / PS 2 & PS 3  
BE0000119 DC MOTOR / RS385PH / MD107-M36 / F/W 30mm D x 9mm THICK / WORM LENGTH 27.3mm / BLACK / PS 2

Motor:  
FK130SH-11340

Mechanical Drawing Unavailable

Gear:  
MD001-M1

**Fits the following RailKing Model;**

Bump-N-Go Trolley

BE0000042      DC MOTOR / FK130SH / NWD088-M10 / RAILKING TROLLEY

In instances where a motor is not available and you need to build a motor, the parts required are shown below:

BE0000245      DC MOTOR / RS385PH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR  
BE0000244      DC MOTOR / RS365SH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR  
IH0000389      BRACKET / TACH READER / PS 2 / PLASTIC / MABUCHI MOTORS  
IH0000475      BRACKET / TACH READER / PLASTIC / FOR 27mm FLYWHEELS / PS 3 ONLY / MABUCHI MOTORS / PS 3 UPGRADE KIT  
IH0000478      BRACKET / TACH READER / PLASTIC / FOR 30mm FLYWHEELS / PS 3 ONLY / MABUCHI MOTORS / PS 3 UPGRADE KIT  
BE0000069      FLYWHEEL TACH TAPE / (STRIPES) / 1.96mm WIDE / FOR 30mm DIAM. FLYWHEELS  
BE0000073      FLYWHEEL TACH TAPE / (STRIPES) / 1.77mm WIDE / FOR 27mm DIAM. FLYWHEELS  
BE0000151      FLYWHEEL TACH TAPE / FOR 33.7mm, 31.8mm, 30mm & 27mm DIAMETER FLYWHEELS / PS 3 UPGRADE KIT

















