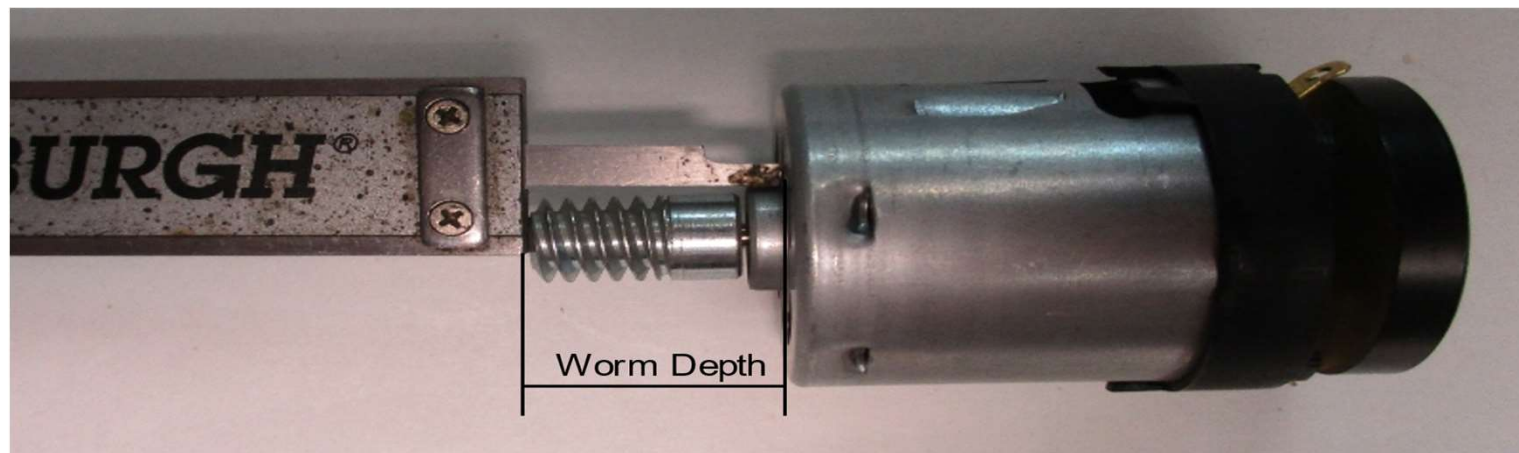


PREMIER DIESEL LOCOMOTIVE MOTOR & WORM GEAR CHART

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

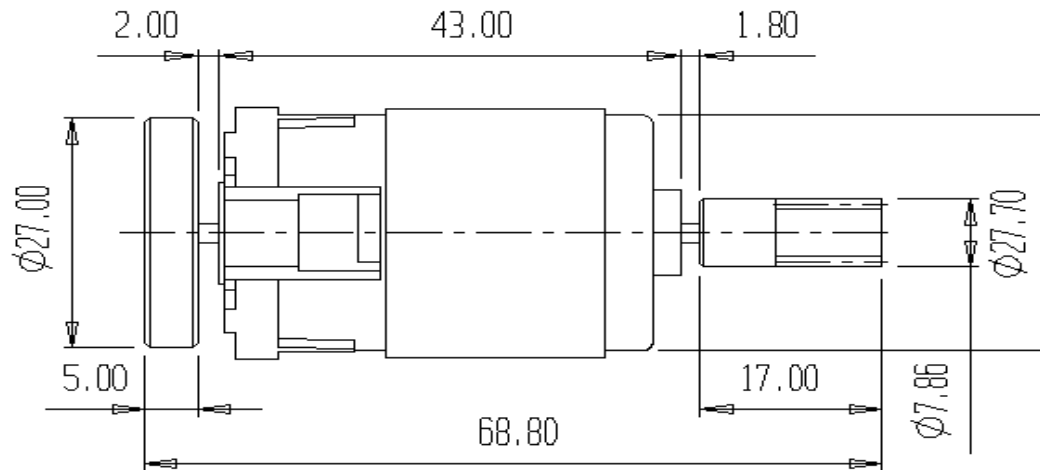
The part numbers shown below each category will all work on the Premier models shown on the left, they are segregated based on worm depth and flywheel/bracket combinations.



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:
RS385PH

Worm Gear:
MD001-M8



Fits the following Premier Diesels;

GP-30

F-3 A UNIT

GP-38

GP-40

C-Liner A UNIT

C-Liner A UNIT

FT A UNIT

FA-2 A UNIT

Genesis

GP-60M

F59PH

F-7 A unit

GP-9

F40PH

SHARK NOSE A UNIT

GP-35

EF-3 A UNIT

EF-3 B UNIT

SBB CE 6/8(CROCODILE ELECTRIC)

WEED SPRAY SET-WEED SPRAYER

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

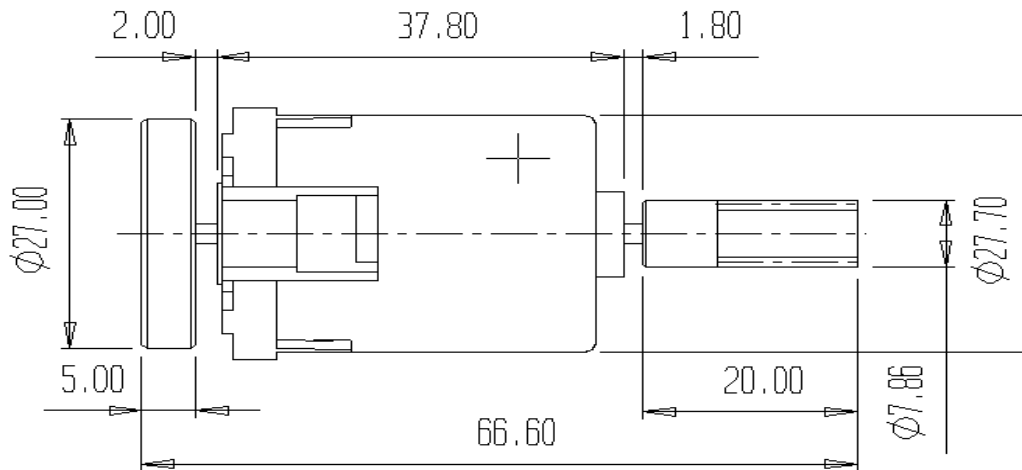
BE2100120	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 21mm TO 21.35mm / STRIPED / PS 2 BKT
BE2200003	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.93mm TO 21.46mm / STRIPED / PS 3 BKT
BE2240001	DC MOTOR / RS385PH / MD001-M8 / F/W 27mm D x 5mm THICK / 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:
RS365SH

Worm Gear:
MD008-M15



Fits the following Premier Locomotives;

R-32 Graffiti Powered
R 1/9 Subway Powered
Zephy Powered
Zephy Slave
BMT Subway Powered

R11/34 Subway Powered
R40 Subway Powered
Turbo Train Master
Turbo Train Slave

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

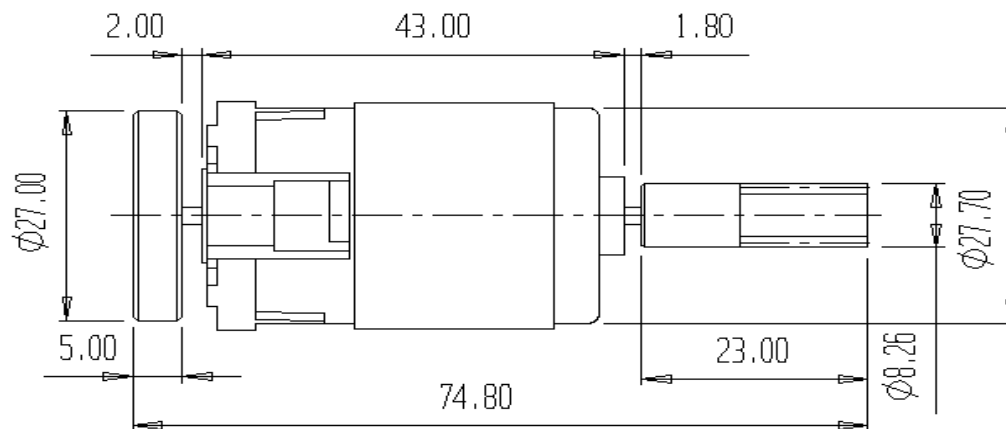
BE0000152	DC MOTOR / RS365SH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.4mm TO 24.82mm / STRIPED / PS 2 BKT
BE2240009	DC MOTOR / RS365SH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 27mm / STRIPED / PS 2 BKT
BE0000225	DC MOTOR / RS365SH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.11mm TO 23.74mm / STRIPED / PS 3 BKT
BE3100002	DC MOTOR / RS365SH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM LENGTH 23.97mm / STRIPED / PS 2 BKT

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

BE0000043	DC MOTOR / RS365SH / MD008-M15 / F/W 30mm D x 8.25mm (TAPERED) THICK / WORM LENGTH 24.16mm / BLACK / PS 2
BE0000201	DC MOTOR / RS365SH / MD008-M15 / F/W 30mm D x 10mm (TAPERED) THICK / WORM LENGTH 24.22mm / BLACK / PS 2
BE2140008	DC MOTOR / RS365SH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.7mm TO 24.85mm / BLACK / PS 2 & PS 3

Motor:
RS385PH

Worm Gear:
MD105-M38



Fits the following Premier Locomotives;

Scale Dash-9

SD60M

SD70MAC

AC 6000

C-Liner A

2500HP

DD40AX

DL-109

DL-110 B-Unit

SD40-2

SD-90 MAC

Centipede A unit

Centipede A unit Trail

Alco PA A unit

FM Erie Built A unit

SD-80 MAC

U50C

SD-60E

SD-45T-2

SD-24

SD-70 Ace

AC4000 CW

SD 70 Mac

UP 80 COAL TURBINE A UNIT

UP 80 COAL TURBINE B UNIT

U30C

DASH8-40C

ES44AC(DC)

SD-35

SD-45

SCALE DASH 8-40CW

SCALE FM TRAINMASTER

SCALE LITTLE JOE ELECTRIC

SD-50

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

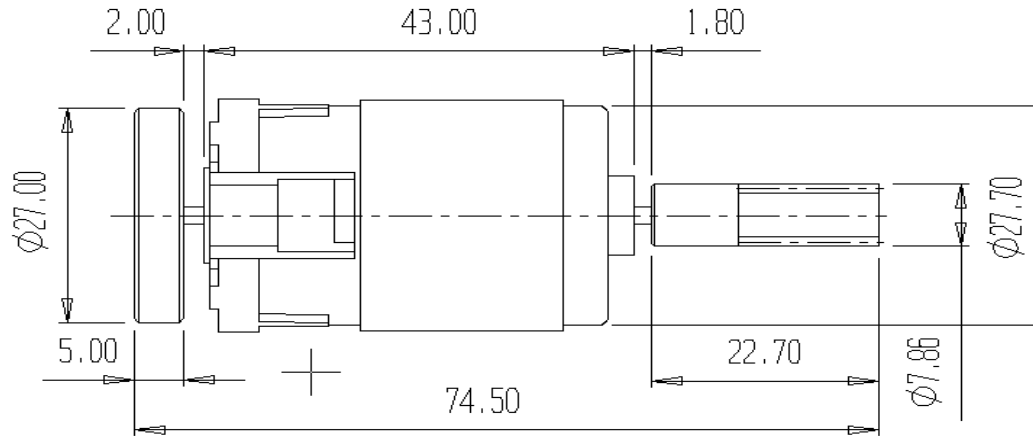
BE0000247	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.13mm TO 27.27mm / STRIPED / PS 3 TACH BKT
BE2200001	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.16 TO 27.61mm / STRIPED / PS 2 TACH BKT
BE0000190	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.6mm TO 27.75mm / STRIPED / PS 2 BKT
BE2100126	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.15mm TO 27.22mm / STRIPED / PS 3 BKT
BE0000118	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 9mm THICK / WORM LENGTH 27.08mm TO 27.45mm / STRIPED / PS 2 BKT
BE2140001	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.47mm TO 27.71mm / STRIPED / PS 2 BKT

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

BE2230010	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 25.73mm / BLACK / PS 2 & PS 3
BE0000107	DC MOTOR / RS385PH / MD105-M38 / F/W 30mm D x 5mm THICK / WORM LENGTH 27.23mm TO 27.68mm / BLACK / PS 2 & PS 3
BE2200000	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.85mm TO 27.31mm / BLACK / PS 2 & PS 3
BE0000189	DC MOTOR / RS385PH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.25mm TO 27.47mm / BLACK / PS 2 & PS 3
BE0000059	DC MOTOR / RS385PH / MD105-M38 / F/W 30mm D x 9mm THICK / WORM LENGTH 27mm TO 27.44mm / BLACK / PS 2

Motor:
RS385PH

Worm Gear:
MD107-M36



Fits the following Premier Locomotives;

E-6 A UNIT
E-8 A UNIT

Gas Turbine A unit Powered
Gas Turbine B unit Slave

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

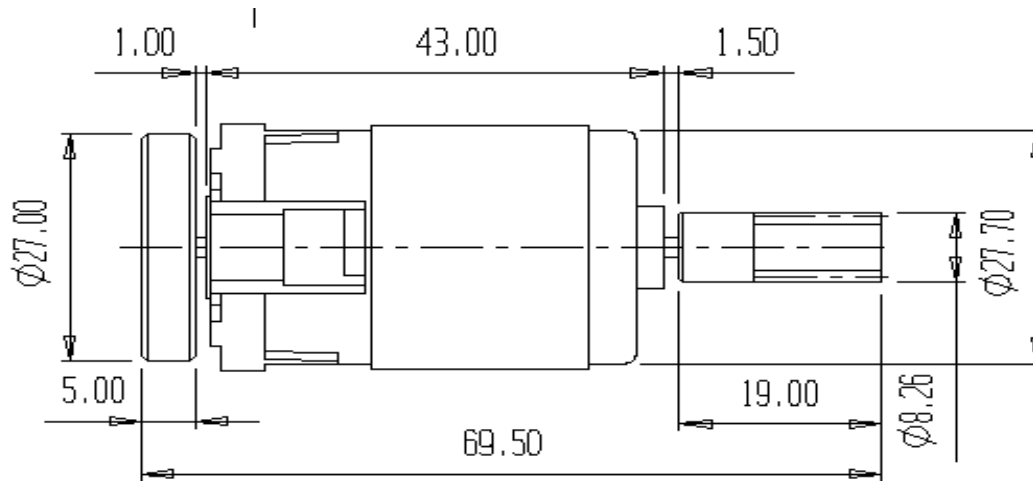
BE2240007	DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.05mm TO 27.2mm / STRIPED / PS 2 BKT
BE2200004	DC MOTOR / RS385PH / MD107-M36 / F/W 27mm D x 5mm THICK / WORM LENGTH 26.68mm TO 26.83mm / STRIPED / PS 3 BKT
BE2100005	DC MOTOR / RS385PH / MD107-M36 / F/W 30mm D x 7mm THICK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

Worm Gear:
MD115-M29



Fits the following Premier Locomotives;

EP-5 Electric

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

BE3100006 DC MOTOR / RS385PH / MD115-M29 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.37mm / STRIPED / PS 2

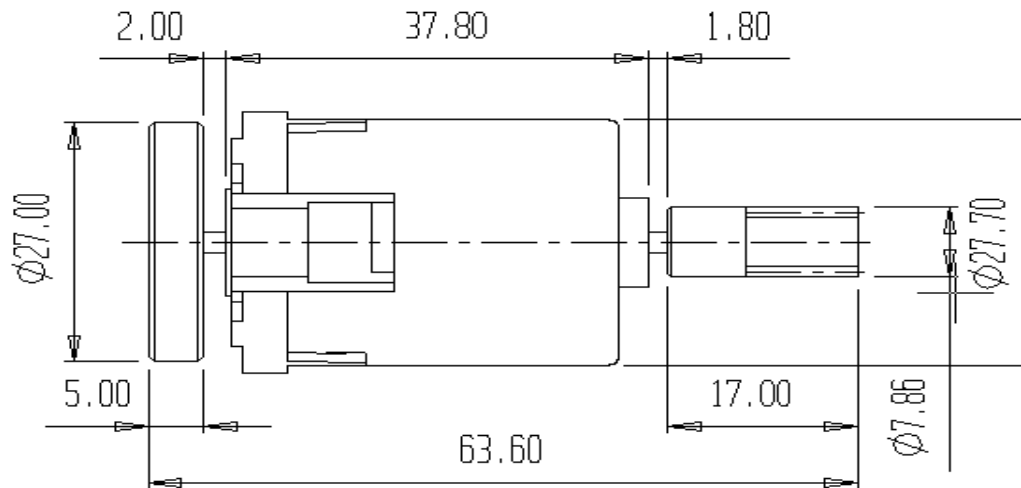
NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)

BE0000196 DC MOTOR / RS385PH / MD115-M29 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 22.6mm / BLACK / PS 2

BE3100005 DC MOTOR / RS385PH / MD115-M29 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.37mm / BLACK / PS 2 & PS 3

Motor:
RS365SH

Worm Gear:
MD001-M8



Fits the following Premier Locomotives;

Alco S-2

BL-2

SCALE 3GS-21B

SCALE U25B

SCALE VERANDA TURBINE

SCALE PROPANE TURBINE

TRAXX

NJ TRANSIT ALP-46

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

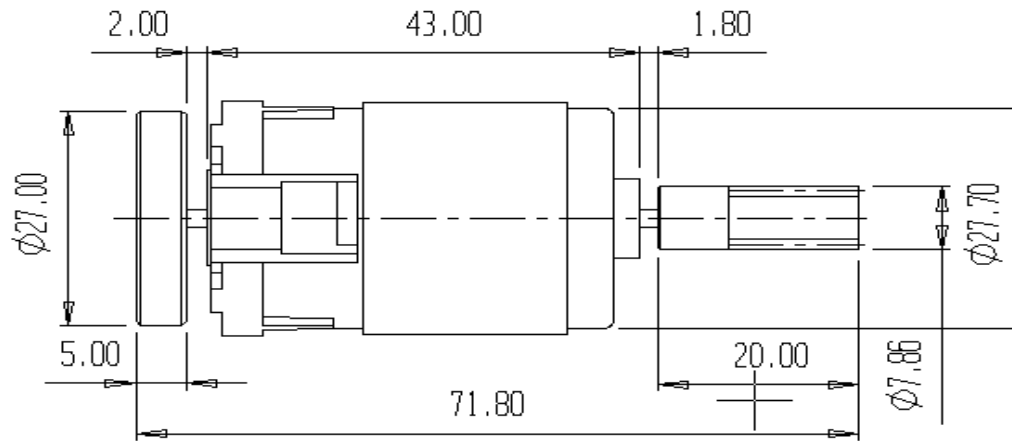
BE2240006	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.29mm TO 21.66mm / STRIPED / PS 2 BKT
BE0000243	DC MOTOR / RS365SH / MD001-M8 / F/W 27mm D x 5mm THICK / WORM LENGTH 20.76mm TO 21.72mm / STRIPED / PS 3 BKT
BE0000060	DC MOTOR / RS365SH / MD001-M8 / F/W 30mm D x 9mm THICK / 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 21.73mm / BLACK / PS 2

Motor:
RS385PH

Worm Gear:
MD012-M4



Fits the following Premier Locomotives;

Coors Light Silver Bullet

E-2 Bi-Polar

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

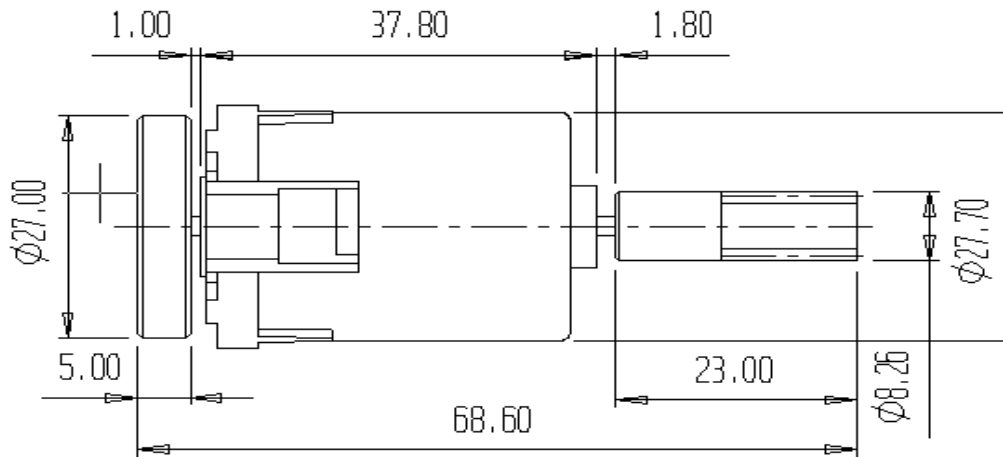
BE1200001 DC MOTOR / RS385PH / MD012-M4 / F/W 27mm D x 5mm THICK / WORM LENGTH 25.51mm / STRIPED / PS 2 BKT

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

BE3100003 DC MOTOR / RS385PH / MD012-M4 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.62mm / BLACK / PS 2 & PS 3

Motor:
RS365SH

Worm Gear:
MD105-M38



Fits the following Premier Locomotives;

E-33

E-44

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

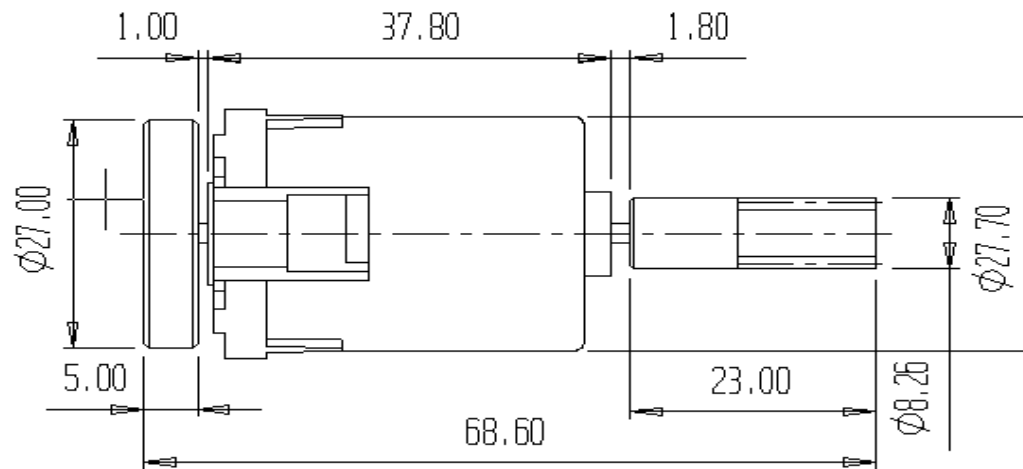
BE2200002	DC MOTOR / RS365SH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.08mm / STRIPED / PS 2 BKT
BE2100007	DC MOTOR / RS365SH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.84mm / STRIPED / PS 2 BKT

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

BE2100008	DC MOTOR / RS365SH / MD105-M38 / F/W 27mm D x 5mm THICK / WORM LENGTH 27.45mm TO 27.63mm / BLACK / PS 2 & PS 3
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Motor:
ORK-280DVAS-1716

Worm Gear:
MD204-M17



Fits the following Premier Locomotives;

44 Tonner

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

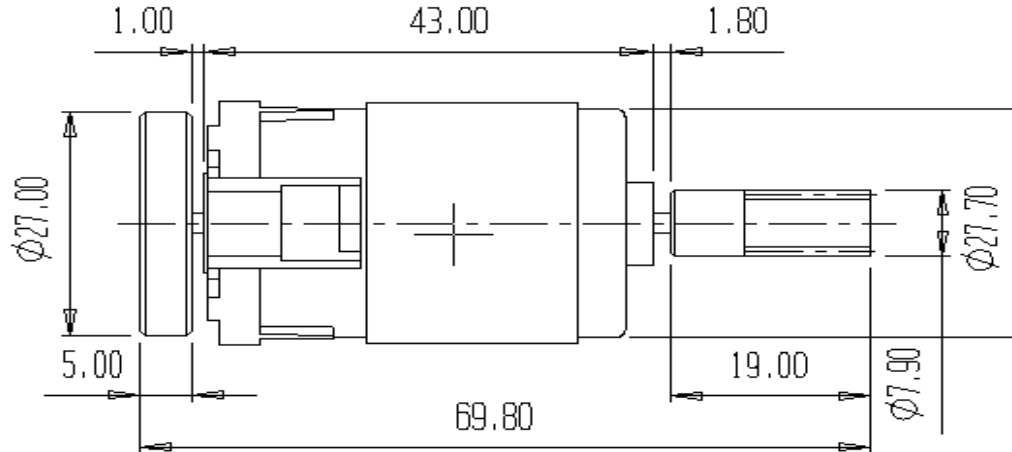
BE2100009 DC MOTOR / 17165 / MD204-M17 / F/W 23.1mm D x 4mm THICK / WORM LENGTH 22.05mm / STRIPED / PS 3 BKT

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

BE2100010 DC MOTOR / 17165 / MD204-M17 / F/W 23.1mm D x 4mm THICK / WORM LENGTH 22.2mm / BLACK / PS 3

Motor:
RS385PH

Worm Gear:
MD207-M37



Fits the following Premier Locomotives;
SCALE GG1 ELECTRIC

NYC P2 BOX CAR ELECTRIC

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

BE0000180 DC MOTOR / RS385PH / MD209-M37 / F/W 27mm D x 5mm THICK / WORM LENGTH 23/25mm / STRIPED / PS 2 BKT

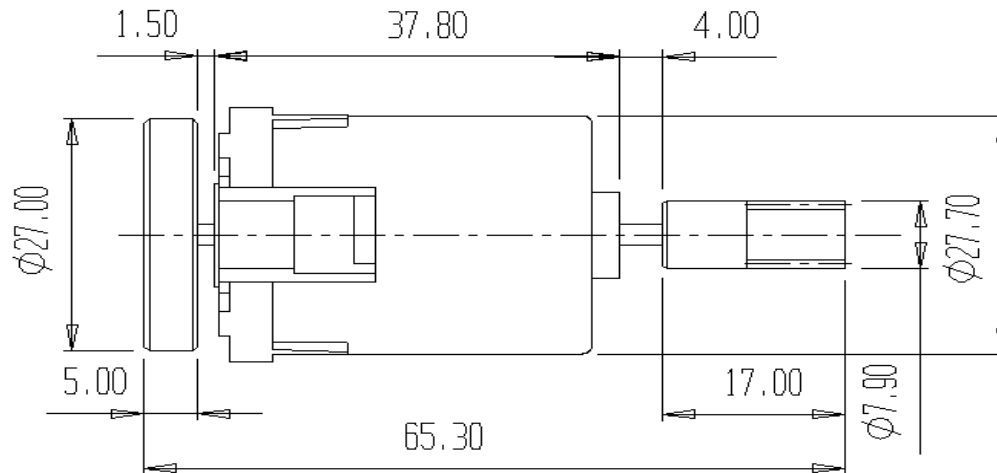
NON-STRIPED FLYWHEEL MOTOR (PS1, PS2 & PS3)

BE0000179 DC MOTOR / RS385PH / MD207-M37 / F/W 27mm D x mm THICK / WORM LENGTH 23.25 / BLACK / PS 2 & PS 3

BE0000161 DC MOTOR / RS385PH / MD207-M37 / F/W 30mm D x 11mm THICK / WORM LENGTH 23.07mm / BLACK / PS 2

Motor:
RS365SH

Worm Gear:
MD209-M23



Fits the following Premier Locomotives;

BB-1 Electric Lead

BB-1 Electric Trailing

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

BE0000203 DC MOTOR / RS365SH / MD209-M23 / F/W 30mm D x 9mm THICK / WORM LENGTH 22.21mm / BLACK / PS 2

** Use Flywheel tach tape to add stripes to these motors, if needed

BE0000073 FLYWHEEL TACH TAPE / (STRIPES) / 1.77mm WIDE / FOR 27mm DIAM. FLYWHEELS

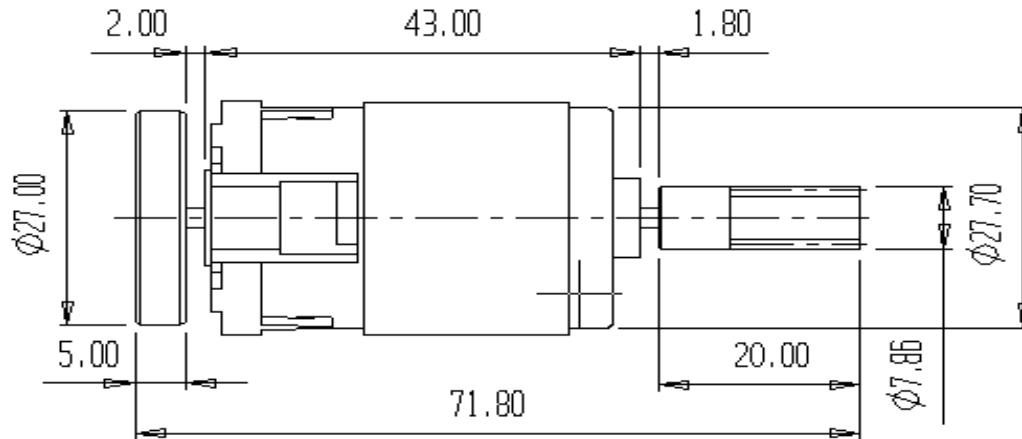
Tach Reader Brackets:

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

Motor:
RS385PH

Worm Gear:
MD008-M15



Fits the following Premier Locomotives;
OC-3 RAIL INSPECTION

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

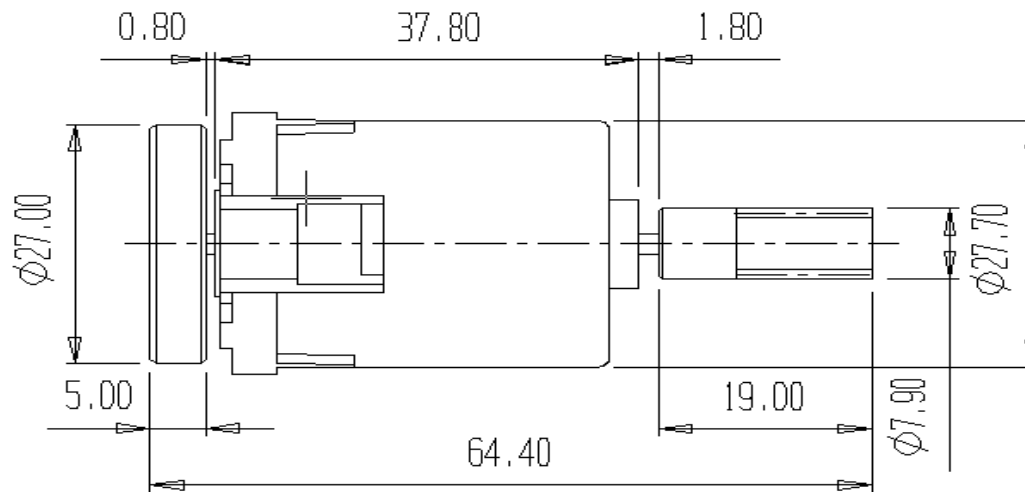
BE0000232	DC MOTOR / RS385PH / MD008-M15 / F/W 27mm D x 5mm THICK / WORM LENGTH 24.11mm TO 24.36mm / STRIPED / PS 3 BKT
BE2100003	DC MOTOR / RS385PH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM LENGTH 25.48mm / STRIPED / PS 2 BKT
BE0000186	DC MOTOR / RS385PH / MD008-M15 / F/W 30mm D x 9mm THICK / WORM 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
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Motor:
RS365SH

Worm Gear:
MD207-M37



Fits the following Premier Locomotives;
EF-3 Class Electric

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

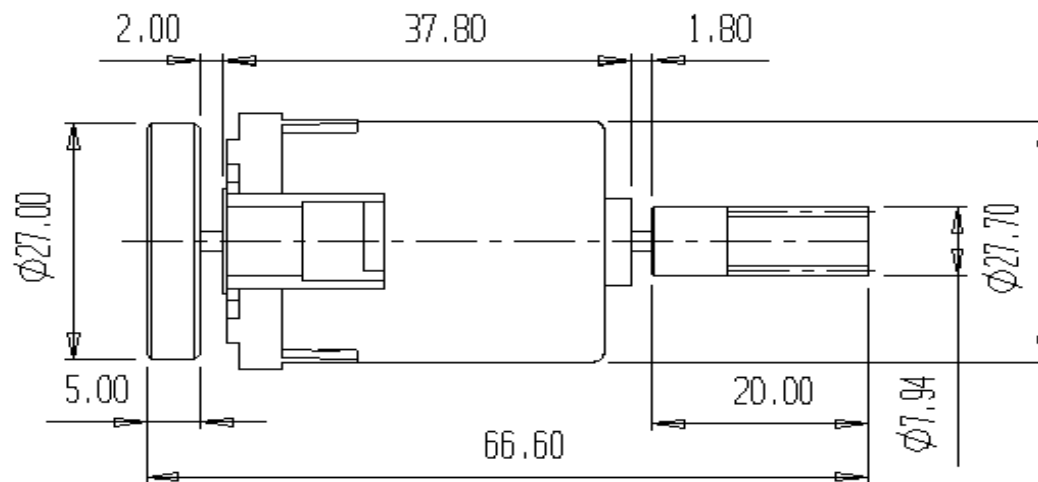
BE3130000 DC MOTOR / RS365SH / MD207-M37 / F/W 27mm D x 5mm THICK / WORM LENGTH 23.32mm / STRIPED / PS 2 BKT
BE7240000 DC MOTOR / RS365SH / MD207-M37 / F/W 30mm D x 9.4mm THICK / WORM LENGTH 23.23 / STRIPED / PS 2 BKT

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

BE7230000 DC MOTOR / RS365SH / MD207-M37 / F/W 30mm D x 9mm (TAPERED) THICK / WORM LENGTH 23.32mm / BLACK / PS 2

Motor:
RS365SH

Worm Gear:
MD008-M15A



Fits the following Premier Locomotives;

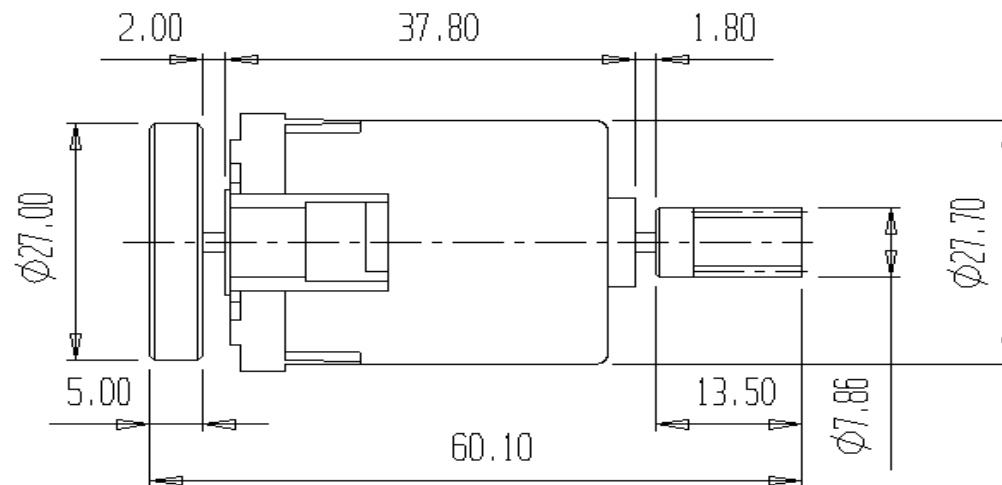
GE IR Boxcab Electric

Nothing identified at this time. You may need to pull flywheel & worm gear and press onto new motor.

BE0000244 DC MOTOR / RS365SH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR

Motor:
RS365SH

Worm Gear:
MD305-M26



Fits the following Premier Locomotives;

Taurus

STRIPED FLYWHEEL MOTOR (PS2 & PS3)

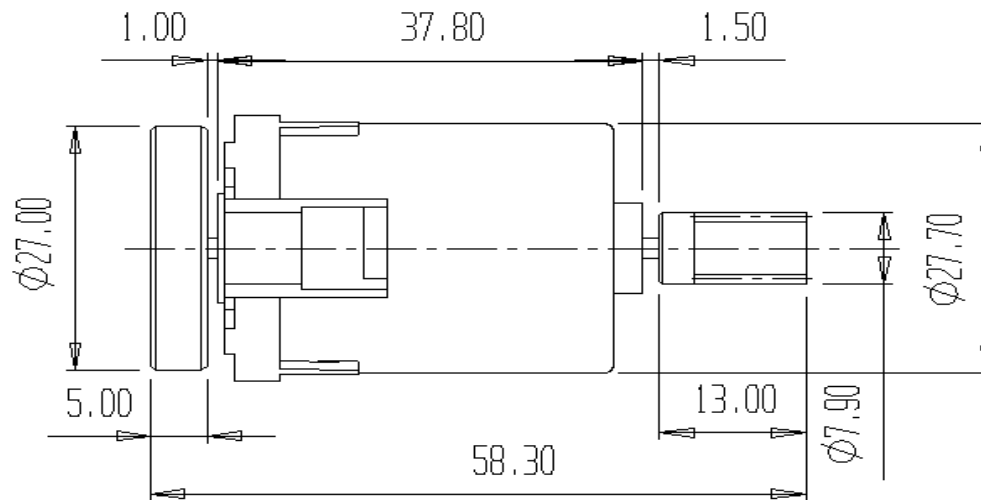
BE0000235 DC MOTOR / RS365SH / MD305-M26 / F/W 27mm D x 5mm THICK / WORM LENGTH 17.16mm / STRIPED / PS 3 BKT

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

BE0000234 DC MOTOR / RS365SH / MD305-M26 / F/W 27mm D x 5mm THICK / WORM LENGTH 17.14mm / BLACK / PS 3

Motor:
RS365SH

Worm Gear:
MD307-M41



Fits the following Premier Locomotives;

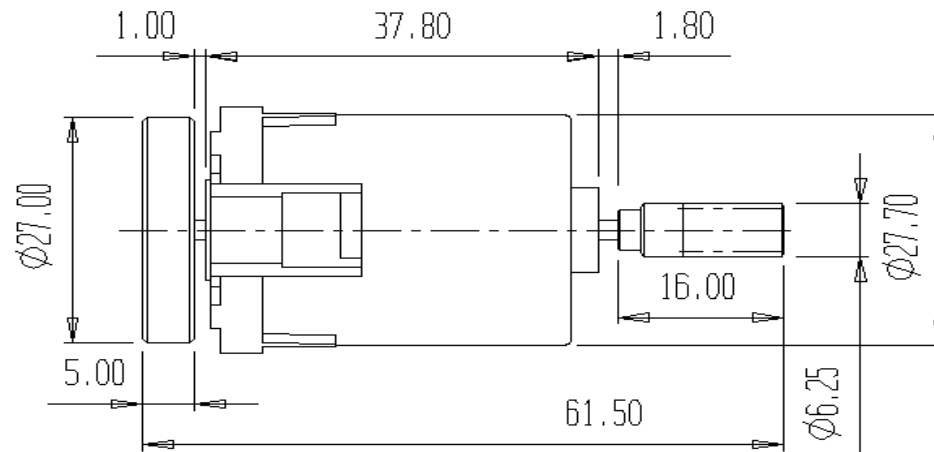
E-94

Nothing identified at this time. You may need to pull flywheel & worm gear and press onto new motor.

BE0000244 DC MOTOR / RS365SH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR

Motor:
RS365SH

Worm Gear:
MD194-M25



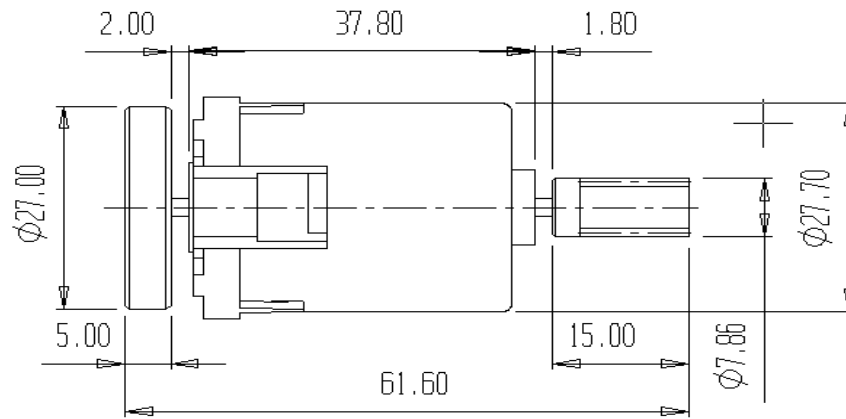
Fits the following Premier Locomotives;
PRR P-5a Modified Electric

Nothing identified at this time. You may need to pull flywheel & worm gear and press onto new motor.

BE0000244 DC MOTOR / RS365SH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR

Motor:
RS365SH

Worm Gear:
MD226-M17



Fits the following Premier Locomotives;

PRR P-5a Boxcab

Nothing identified at this time. You may need to pull flywheel & worm gear and press onto new motor.

BE0000244 DC MOTOR / RS365SH / DUAL SHAFT / NO FLYWHEEL / NO WORM GEAR

