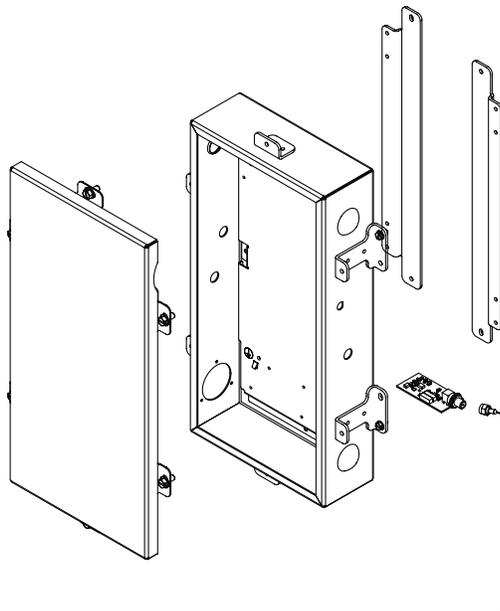


# GCL™



For use with GCL-T, GCL-J & GCL-H Model Operators.

## NEMA 4 & 4X Installation Supplement



This supplement instructions is to be used in combination with the standard accompanying GCL™ Installation Manual. This supplement contains NEMA 4 & 4X wiring instructions and illustrated parts breakdown which specifies parts included in the NEMA 4 & 4X GCL™ series of operators. When installing a NEMA 4 or 4X operator, liquid tight conduit and fittings must be used. Refer to NEC and local building codes for wiring and conduit requirements.

### NOT FOR RESIDENTIAL USE

**IMPORTANT: Prior to installing and operating a NEMA 4 or 4X operator, carefully read the GCL™ Installation Manual and any other instructions and warnings accompanying the unit.**

# NEMA 4 & 4X High Voltage Wiring



## WARNING

- DO NOT apply power to operator until instructed to do so.
- The Genie Company recommends that line voltage wiring be performed by a qualified electrician.
- Be sure that electrical power has been disconnected from the input power wires being connected to the operator prior to handling these wires. An appropriate lock-out /tag-out procedure is recommended.
- Line voltage wiring must meet all local building codes.
- Make sure operator voltage, phase and frequency nameplate ratings are identical to the job site line voltage ratings.
- Input power wiring must be properly sized for the operators amperage rating located on the nameplate.
- To reduce the risk of electric shock, make sure the chassis of this unit is properly grounded.



## AVERTISSEMENT

- NE PAS mettre l'opérateur sous tension avant d'y être invité.
- The Genie Company recommande que le câblage au secteur soit effectué par un électricien qualifié.
- Assurez-vous que l'alimentation électrique a été déconnectée des câbles d'alimentation d'entrée connectés à l'opérateur avant de manipuler ces câbles. Une procédure de verrouillage/étiquetage appropriée est recommandée.
- Le câblage au secteur doit satisfaire à tous les codes de construction locaux.
- Assurez-vous que les valeurs nominales de la plaque signalétique pour tension, phase et fréquence de l'opérateur correspondent à celles des tensions de l'alimentation sur site.
- La capacité du câblage d'entrée doit correspondre à la valeur nominale de l'ampérage des opérateurs indiquée sur la plaque signalétique.
- Pour réduire le risque de choc électrique, assurez-vous que le châssis de l'unité est correctement mis à la terre.

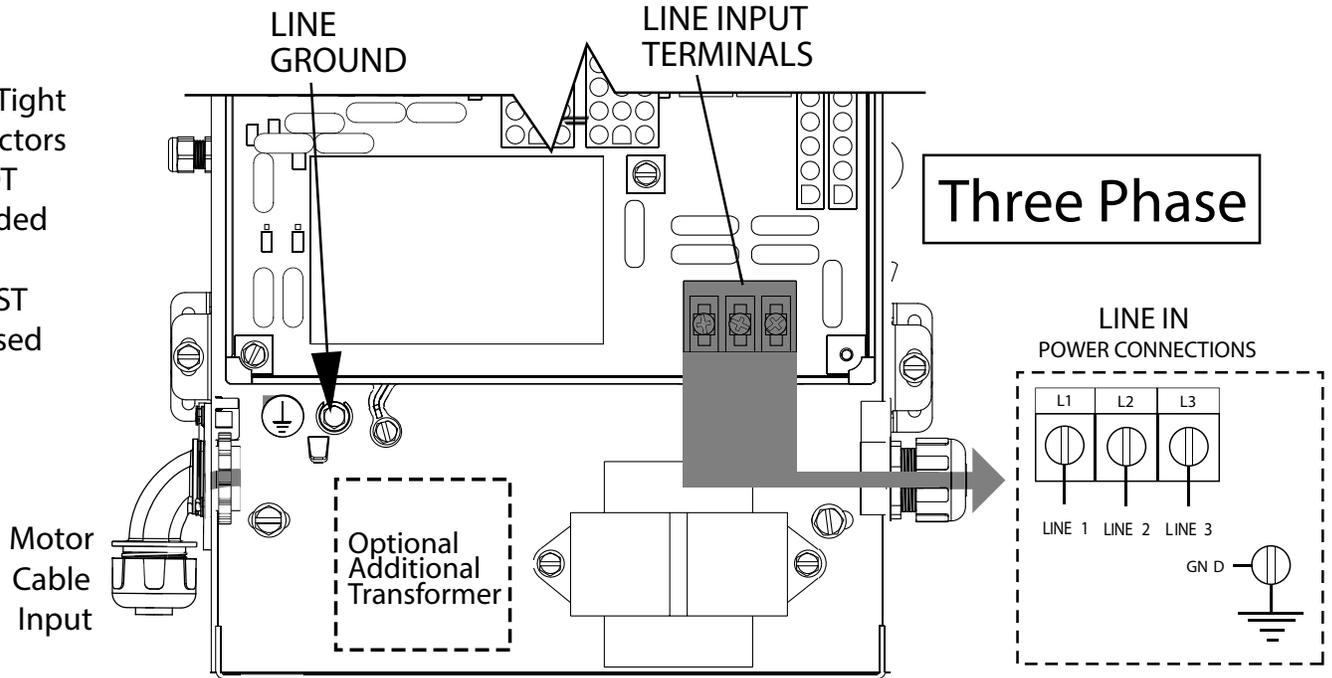
1. Remove LINE VOLTAGE INPUT PLUG and install proper liquid tight fittings and 1/2" conduit.
2. Route proper LINE VOLTAGE wires into operator.
3. Locate LINE INPUT terminals on circuit board. Using correct connectors, attach wires to LINE INPUTS, and GROUND terminal. • Keep low voltage and line voltage wires separate.
  - Route all line voltage wires as shown.
  - Plug all unused conduit holes.

**NOTE:** LIQUID-TIGHT CONDUIT AND FITTINGS ARE NOT PROVIDED

**NOTE:** ONLY USE HOLES PROVIDED IN ELECTRIC BOX. DO NOT DRILL HOLES IN BOX OR COVER.

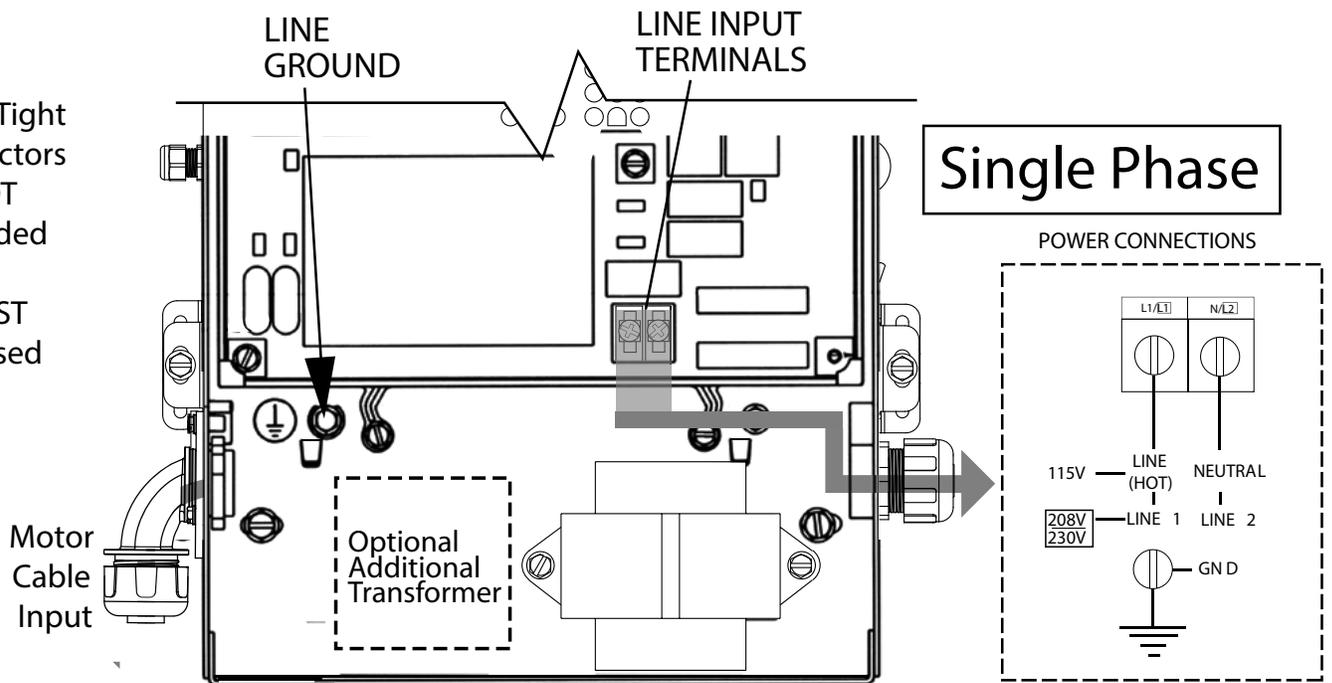
# NEMA 4 & 4X High Voltage Wiring

Water Tight  
Connectors  
NOT  
Included  
&  
MUST  
Be Used



**ROUTE HIGH VOLTAGE WIRING  
IN THE SHADED AREA AS SHOWN**

Water Tight  
Connectors  
NOT  
Included  
&  
MUST  
Be Used



**ROUTE HIGH VOLTAGE WIRING  
IN THE SHADED AREA AS SHOWN**

# NEMA 4 and 4X Low Voltage Wiring

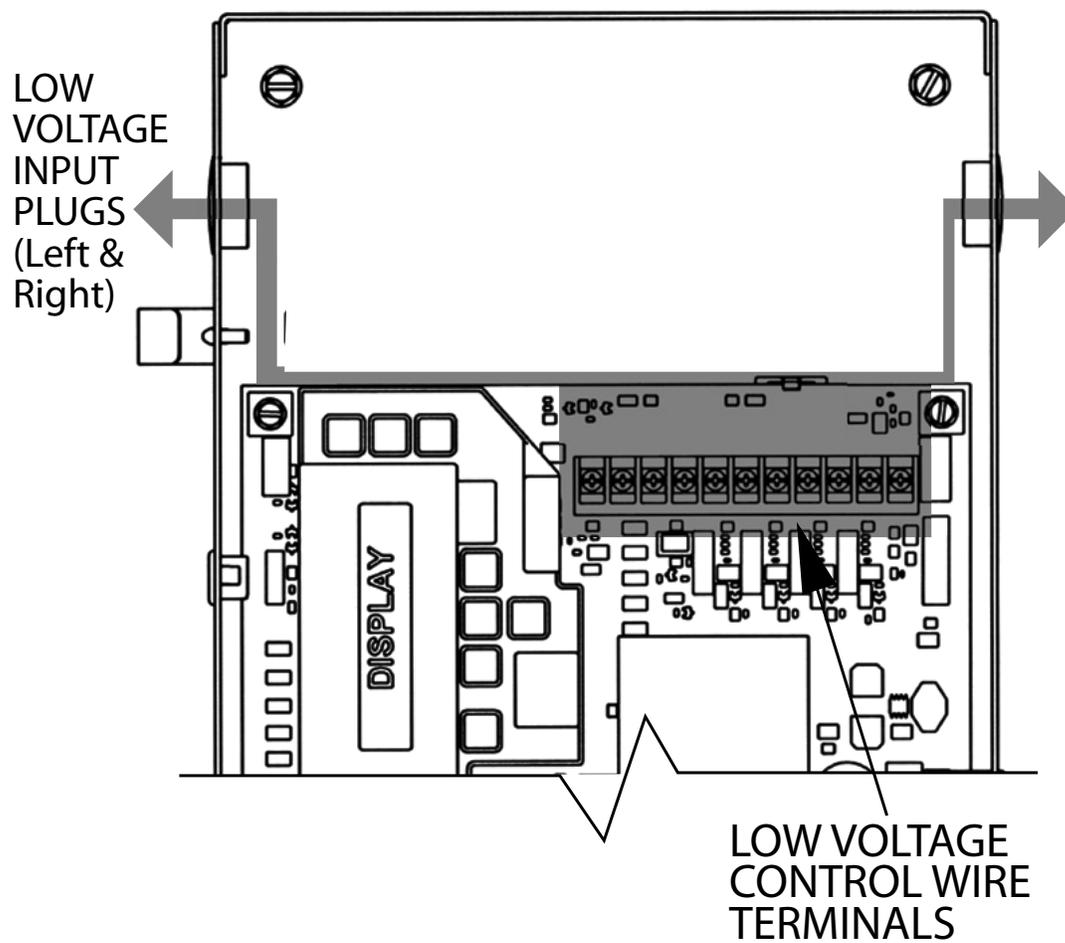
1. Connect all LOW VOLTAGE control circuit wires to side shown using liquid tight 1/2" conduit and connectors.
  - Keep low voltage and line voltage wires separate.
  - Route all low voltage control wiring as shown. This includes all control circuit wires such as wall controls, timers and single button input devices as well as radio control and safety circuit wiring.
  - Plug all unused conduit holes with liquid tight plugs.

**NOTE:** *LIQUID-TIGHT CONDUIT AND FITTINGS ARE NOT PROVIDED*

**NOTE:** *ONLY USE HOLES PROVIDED IN ELECTRIC BOX. DO NOT DRILL HOLES IN BOX OR COVER.*

# NEMA 4 and 4X Low Voltage Wiring

**ROUTE LOW VOLTAGE WIRING  
IN THE SHADED AREA AS SHOWN**



# NEMA 4 and 4X Exclusive Parts And Options

## PLATED PARTS PER MODEL:

PLATED PARTS			SIDEMOUNT/ROLLING STEEL MODELS		
ITEM	PART NUMBER	DESCRIPTION	HOIST	RELEASE	HOIST & RELEASE
A	110877.2070	CHAIN, #35X70P	1	1	1
B	110877.2072	CHAIN, #35X72P	1	1	1
C	110877.2068	CHAIN, #35X68P	1	1	1
D	111392.1001	SHAFT ASSY, OUTPUT	1	1	1
E	111438.1001	SHAFT ASSY, CLUTCH	1		
	111437.1001	SHAFT ASSY, CLUTCH		1	
	111388.1001	SHAFT ASSY, CLUTCH			1

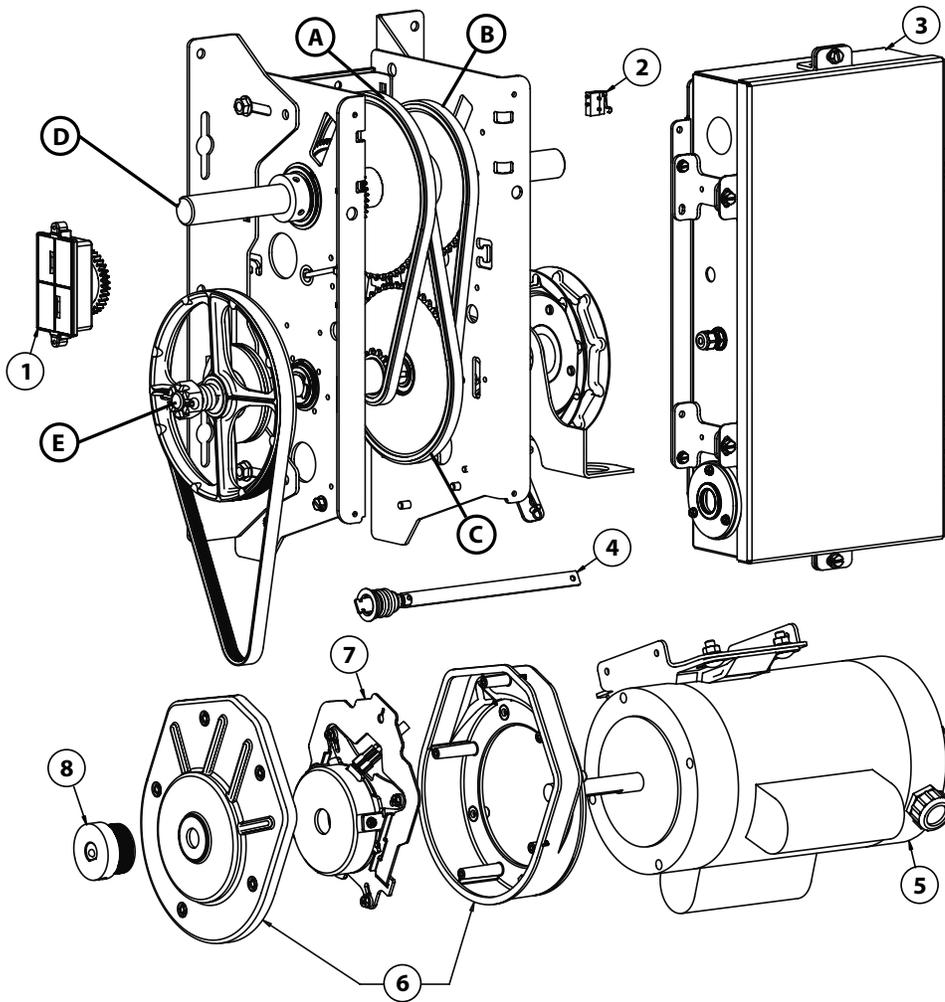
PLATED PARTS			TROLLEY MODELS
ITEM	PART NUMBER	DESCRIPTION	TROLLEY
F	110877.2060	CHAIN, #35X60P	1
G	111394.1001	SHAFT ASSY, OUTPUT	1 (#41 CHAIN)
	111394.1002	SHAFT ASSY, OUTPUT	1 (#65 CHAIN)
H	111391.1001	SHAFT ASSY, CLUTCH	1

## NEMA 4 & 4X OPERATOR PARTS ALL MODELS:

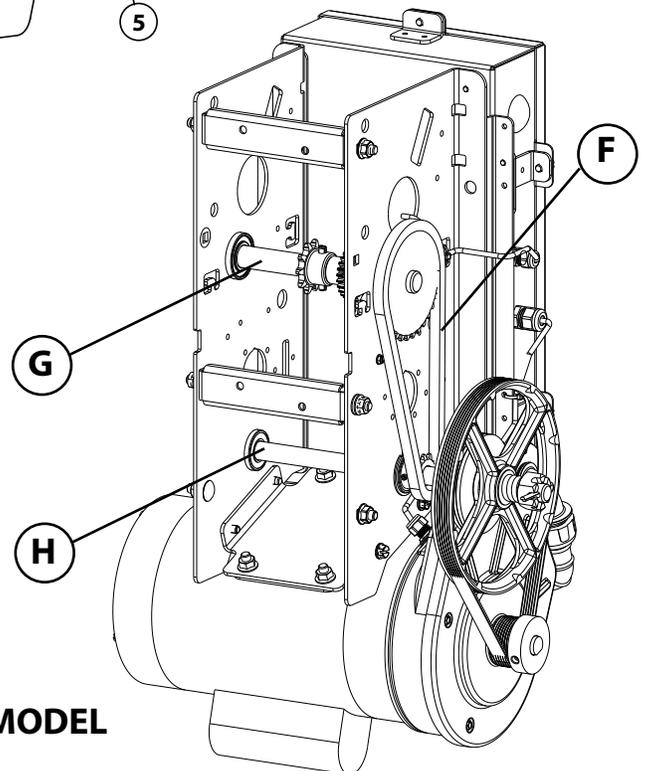
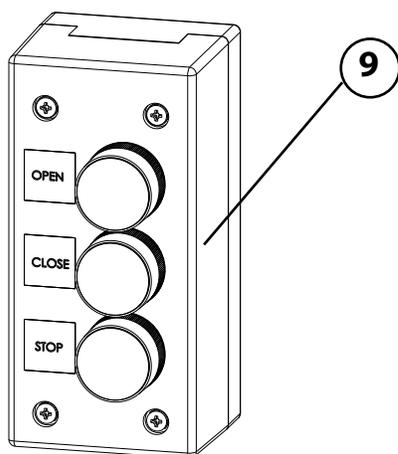
ITEM	PART NUMBER	DESCRIPTION
1	111421.0004	NEMA 4/4X LIMIT MODULE
2	111420.0002	NEMA 4/4X INTERLOCK SWITCH (HOIST ONLY)
3	SEE EBOX PAGE	ELECTRIC BOX, SEE NEXT PAGE
4	111168.0001	LINK ASSY, HOIST ONLY
5	111131.0001	MOTOR, NEMA 4 TENV, - 1/2HP, 1PHASE
	111131.0002	MOTOR, NEMA 4 TENV, - 3/4HP, 1PHASE
	111131.0003	MOTOR, NEMA 4 TEFC, - 1HP, 1PHASE
	111131.0004	MOTOR, NEMA 4 TENV, - 1/2HP, 3PHASE
	111131.0005	MOTOR, NEMA 4 TENV, - 3/4HP, 3PHASE
	111313.0006	MOTOR, NEMA 4 TENV, - 1HP, 3PHASE
	111131.0009	MOTOR, NEMA 4 TENV, - 1HP, 3PHASE -575VAC
6	111145.0001	BRAKE COVER ASSY.
7	111396.0003	BRAKE ASSY.
8	111404.0002	MOTOR PULLEY & SEAL ASSY.
9	075394.0000	PUSHBUTTON, WEATHER PROOF

# NEMA 4 and 4X Exclusive Parts And Options

**HOIST MODEL SHOWN, Jackshaft Release & Hoist-Release models also represented.**



\*See shaft assembly breakdowns on the following pages



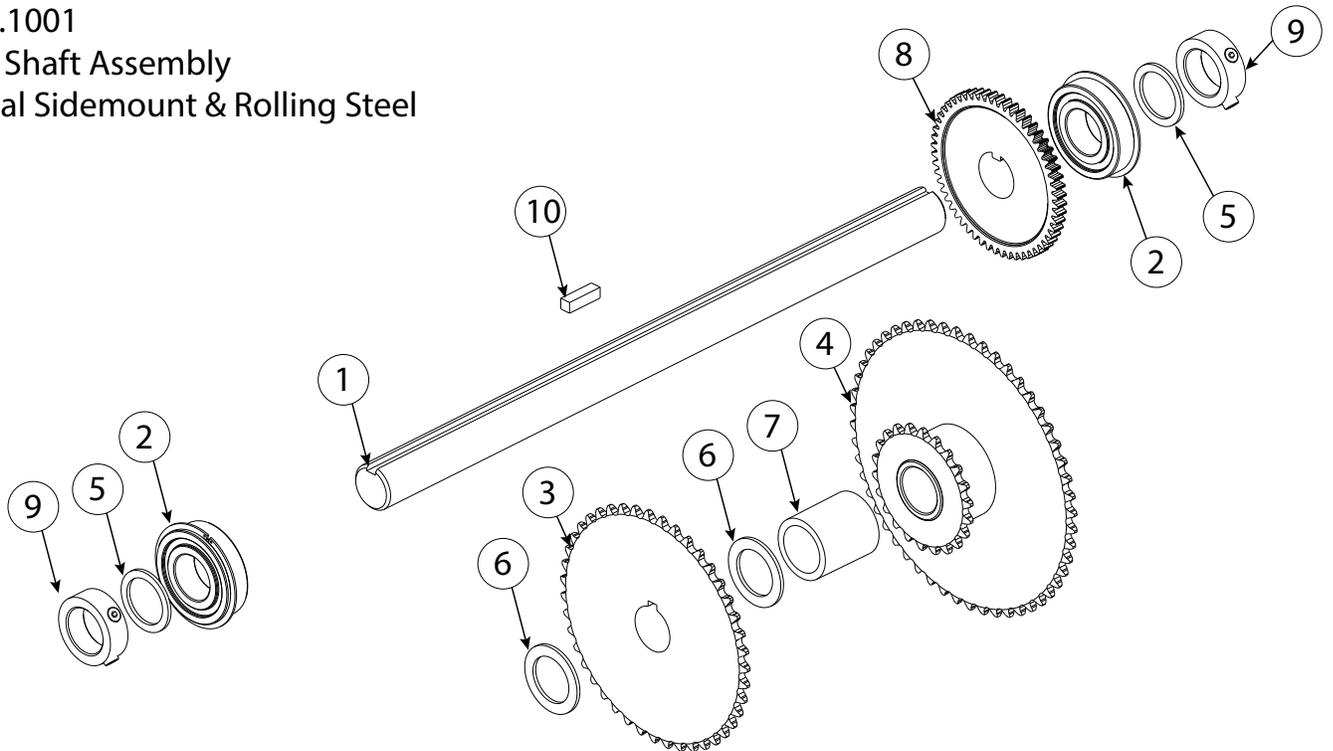
**TROLLEY MODEL**

# Shaft Assemblies

111392.1001

Output Shaft Assembly

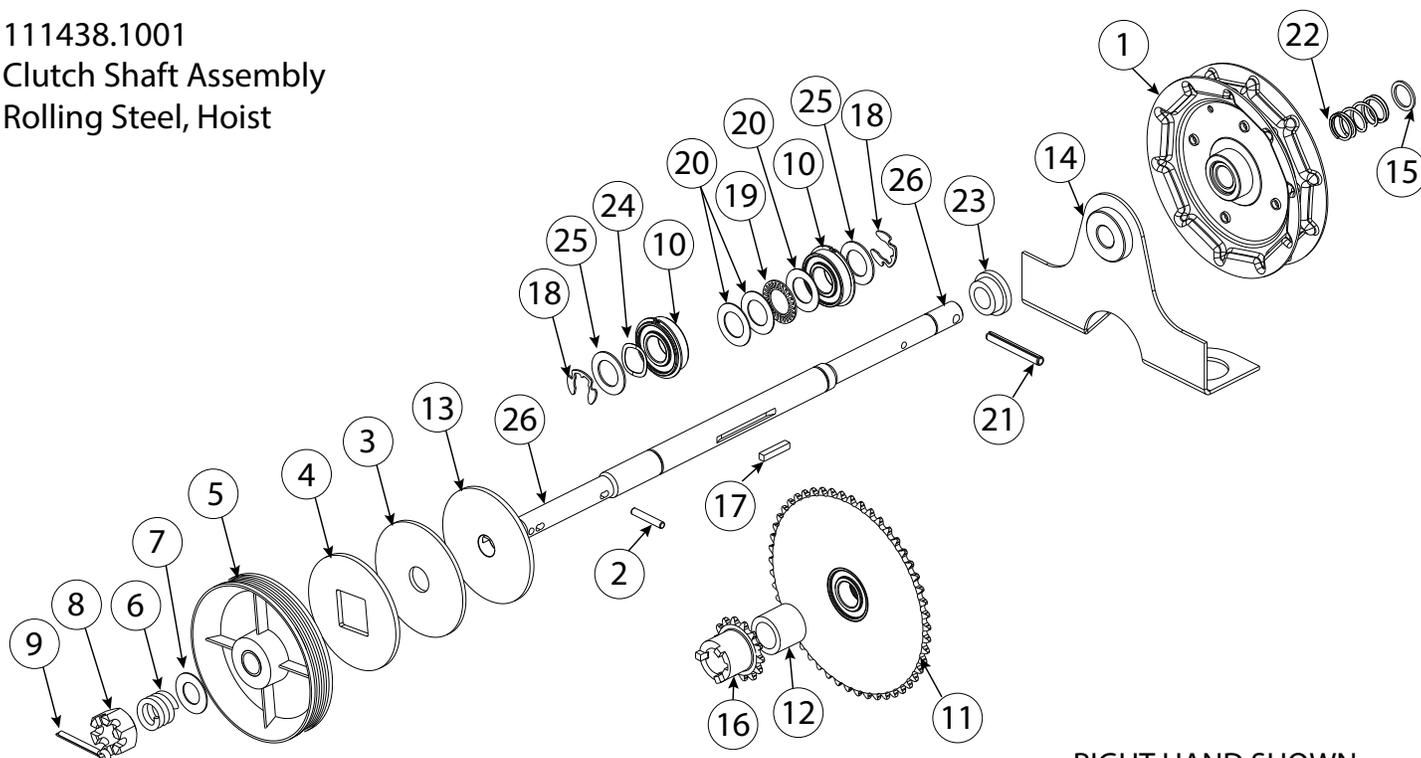
Sectional Sidemount & Rolling Steel



Item	Part Number	Description	QTY
	111392.1001.S	KIT,OUTPUT SHAFT,SDMT,GCL,N4	1
1	110644.0002	SHAFT,OUTPUT,1.00,OD ZINC	1
2	110694.0001	BEARING,1.000 ID	2
3	110663.0013	SPRKT,43T,#35,3/8P,OD ZINC	1
4	111013.1001	SPRKT ASSY,22T-52T,OD ZINC	1
5	110819.0002	WASHER,PLAIN 1.026 I.D.	2
6	110393.0001	WASHER,SPACER,OUTPUT SHAFT	2
7	111044.0001	SPACER,OUTPUT SHAFT	1
8	111074.0001	GEAR,LIMIT,56T,SIDEMOUNT	1
9	112884.0001	COLLAR,SET,1"ID, W/SET SCREW	2
10	080340.0074	KEY,STD,SQ,1/4 X 7/8"L	1
N/S	111412.0001	INSTR SHT,OUTPUT SHAFT,SDMT/RS	1

# Shaft Assemblies

111438.1001  
Clutch Shaft Assembly  
Rolling Steel, Hoist



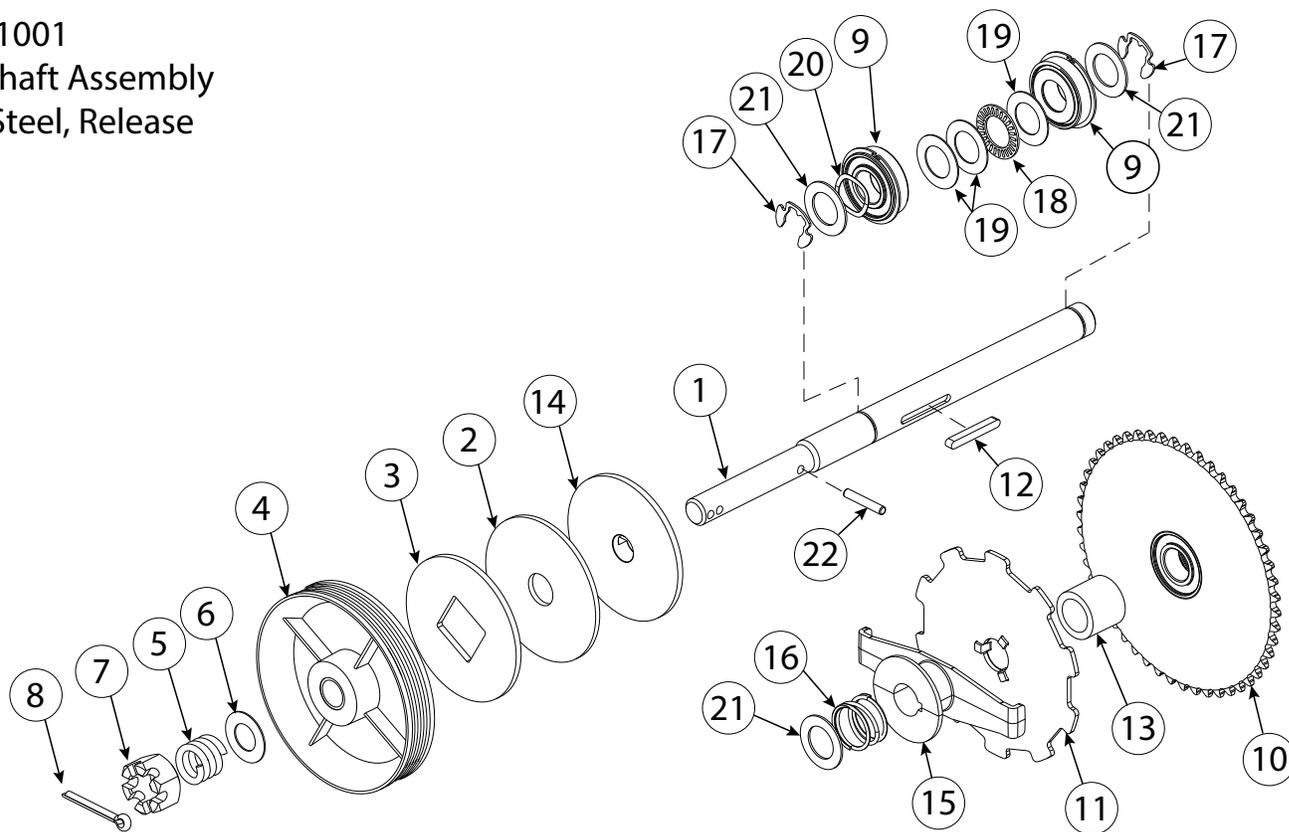
RIGHT HAND SHOWN  
Left hand assemblies:  
Flip shaft so clutch is on the  
right.  
Parts between bearings remain  
oriented as shown.

Item	Part Number	Description	QTY
	111438.1001.S	KIT,CLUTCH SHAFT,SXH,RS,N4	1
1	110872.0001	HANDWHEEL,STANDARD CHAIN	1
2	110881.0001	PIN,DOWEL,.188 X 1.13/1.00	1
3	075193.0000	LINING,CLUTCH	1
4	108015.0001	DISC,CLUTCH MOVABLE PLD	1
5	111433.0001	PULLEY ASSY,CLUTCH,4.65 DIA	1
6	075197.0000	SPR,CLUTCH	1
7	086649.0029	WASHER,THRUST .64	1
8	110472.0001	NUT,HEX,SLOTTED,5/8-11	1
9	080401.0624	PIN,COTTER,3/16 X 1-1/2"L	1
10	110695.0001	BEARING,.75 ID	2
11	111020.1001	SPRKT ASSY,22T-50T,OD ZINC	1
12	111045.0001	SPACER,CLUTCH SHAFT	1
13	111037.0002	DISC,CLUTCH,NICKLE PL	1
14	110411.0001	CHAIN GUARD ASSY	1

15	110819.0001	WASHER,PLAIN .651 I.D.	1
16	110709.0002	SPROCKET,14T,.75 ID,OD ZINC	1
17	111068.0001	KEY,SQUARE,3/16 X 1	1
18	111382.0001	RING,RTNG,HIGH GRIP STRENGTH	2
19	111402.0001	BEARING,THRUST	1
20	111403.0001	WASHER,THRUST	3
21	110313.0010	PIN,SPRING,.250 DIA X 2.00	1
22	112389.0001	SPRING,.796 OD X 1.50 LG	1
23	106062.0003	BUSHING,5/8"	1
24	110818.0004	WASHER,WAVE SPRING,.780 ID	1
25	110819.0003	WASHER,PLAIN,.770 ID	2
26	110669.0002	SHAFT,CLUTCH,.75,SXJ,OD ZINC	1
N/S	111413.503476	INSTR SHT,CLUTCH SHAFT,SXH	1
N/S	110996.0001	GREASE,SUPER LUBE,1CC PACKET	1

# Shaft Assemblies

111437.1001  
Clutch Shaft Assembly  
Rolling Steel, Release

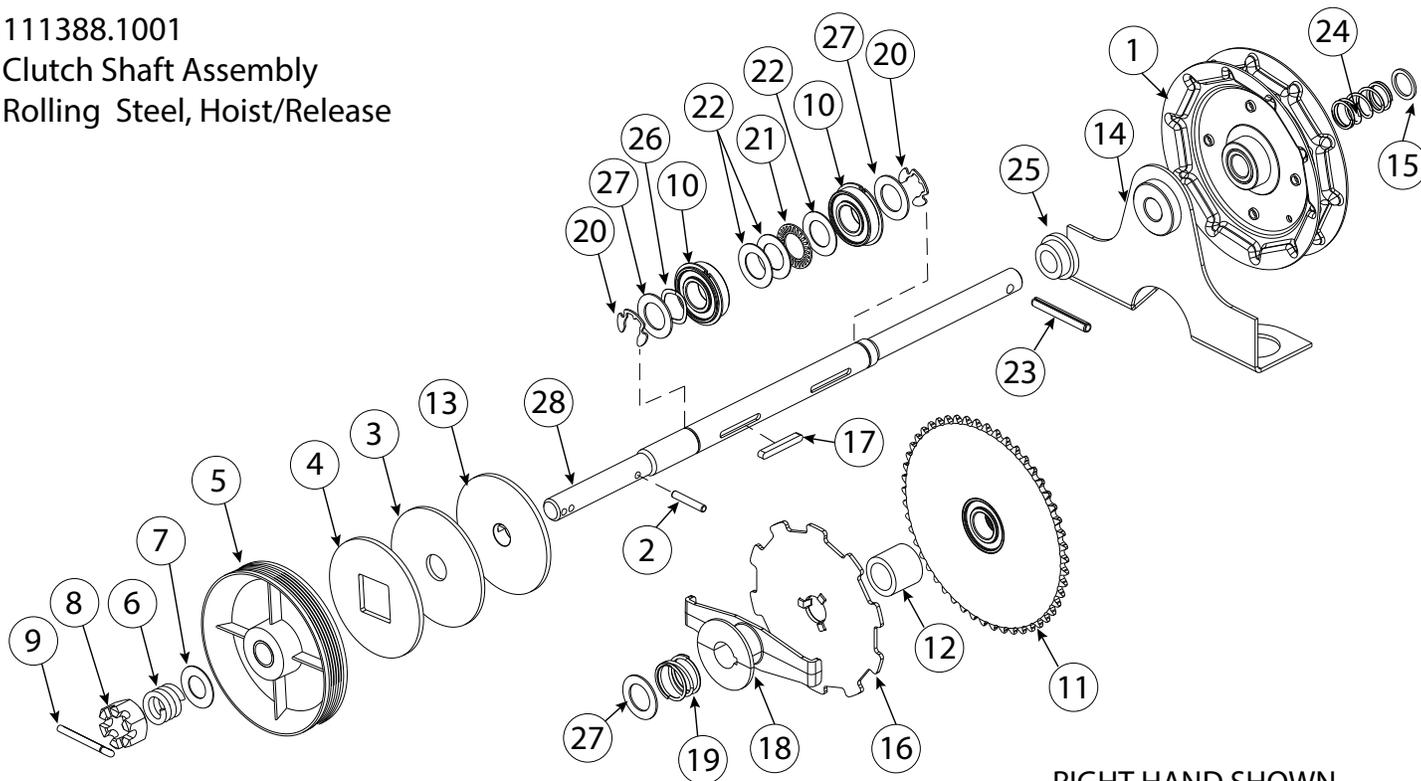


Item	Part Number	Description	QTY
	111437.1001.S	KIT,CLUTCH SHAFT,SXJ,RS,N4	1
1	111029.0002	SHAFT,CLUTCH,.,75,SXJ,OD ZINC	1
2	075193.0000	LINING,CLUTCH	1
3	108015.0001	DISC,CLUTCH MOVABLE PLD	1
4	111433.0001	PULLEY ASSY,CLUTCH,4.65 DIA	1
5	075197.0000	SPR,CLUTCH	1
6	086649.0029	WASHER,THRUST .64	1
7	110472.0001	NUT,HEX,SLOTTED,5/8-11	1
8	080401.0624	PIN,COTTER,3/16 X 1-1/2"L	1
9	110695.0001	BEARING,.,75 ID	2
10	111020.1001	SPRKT ASSY,22T-50T,OD ZINC	1
11	110610.0002	SPRKT AND ENGAGE PLATE,OD ZINC	1
12	110816.0001	KEY,ROUND END,.,188 X 1.500	1

13	111045.0001	SPACER,CLUTCH SHAFT	1
14	111037.0002	DISC,CLUTCH,NICKLE PL	1
15	110387.0003	SLIDER,JACKSHAFT,SX,OD ZINC	1
16	111175.0001	SPRING,1.10 O.D.	1
17	111382.0001	RING,RTNG,HIGH GRIP STRENGTH	2
18	111402.0001	BEARING,THRUST	1
19	111403.0001	WASHER,THRUST	3
20	110818.0004	WASHER,WAVE SPRING,.,780 ID	1
21	110819.0003	WASHER,PLAIN,.,770 ID	3
22	110881.0001	PIN,DOWEL,.,188 X 1.13/1.00	1
N/S	111415.503476	INSTR SHT,CLUTCH SHAFT,SXJ	1
N/S	110996.0001	GREASE,SUPER LUBE,1CC PACKET	1

# Shaft Assemblies

111388.1001  
Clutch Shaft Assembly  
Rolling Steel, Hoist/Release



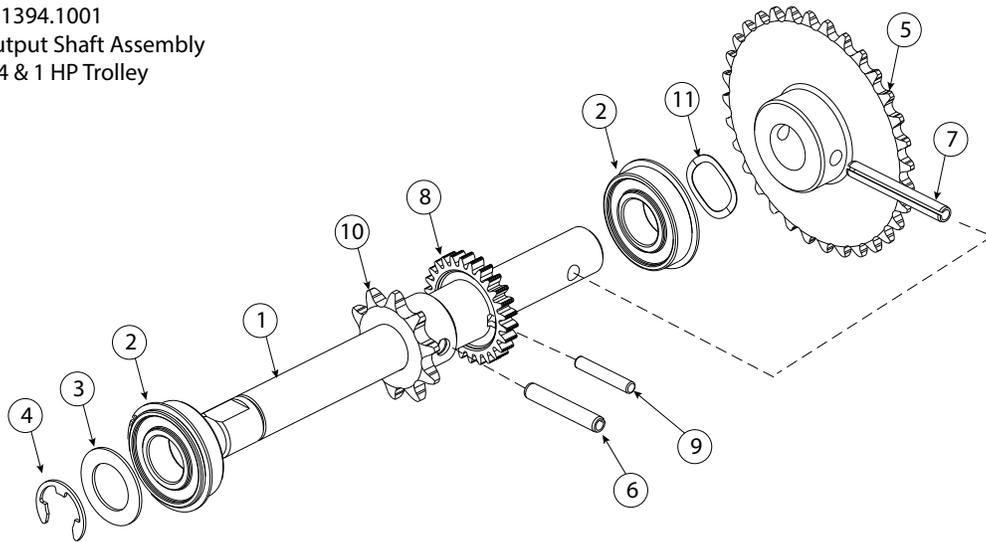
RIGHT HAND SHOWN  
Left hand assemblies:  
Flip shaft so clutch is on the  
right.  
Parts between bearings remain  
oriented as shown.

Item	Part Number	Description	QTY
	111388.1001.S	KIT,CLUTCH SHAFT,SXHJ,N4	1
1	110872.0001	HANDWHEEL,STANDARD CHAIN	1
2	110881.0001	PIN,DOWEL,.188 X 1.13/1.00	1
3	075193.0000	LINING,CLUTCH	1
4	108015.0001	DISC,CLUTCH MOVABLE PLD	1
5	111433.0001	PULLEY ASSY,CLUTCH,4.65 DIA	1
6	075197.0000	SPR,CLUTCH	1
7	086649.0029	WASHER,THRUST .64	1
8	110472.0001	NUT,HEX,SLOTTED,5/8-11	1
9	080401.0624	PIN,COTTER,3/16 X 1-1/2"L	1
10	110695.0001	BEARING,.75 ID	2
11	111020.1001	SPRKT ASSY,22T-50T,OD ZINC	1
12	111045.0001	SPACER,CLUTCH SHAFT	1
13	111037.0002	DISC,CLUTCH,NICKLE PL	1

14	110411.0001	CHAIN GUARD ASSY	1
15	110819.0001	WASHER,PLAIN .651 I.D.	1
16	110610.0002	SPRKT AND ENGAGE PLATE,OD ZINC	1
17	110816.0001	KEY,ROUND END,.188 X 1.500	1
18	110387.0003	SLIDER,JACKSHAFT,SX,OD ZINC	1
19	111175.0001	SPRING,1.10 O.D.	1
20	111382.0001	RING,RTNG,HIGH GRIP STRENGTH	2
21	111402.0001	BEARING,THRUST	1
22	111403.0001	WASHER,THRUST	3
23	110313.0010	PIN,SPRING,.250 DIA X 2.00	1
24	112389.0001	SPRING,.796 OD X 1.50 LG	1
25	106062.0003	BUSHING,5/8"	1
26	110818.0004	WASHER,WAVE SPRING,.780 ID	1
27	110819.0003	WASHER,PLAIN,.770 ID	3
28	111077.0002	SHAFT,CL,.75 DIA,SXHJ,OD ZINC	1
N/S	111414.503476	INSTR SHT,CLUTCH SHAFT,SXHJ	1
N/S	110996.0001	GREASE,SUPER LUBE,1CC PACKET	1

# Shaft Assemblies

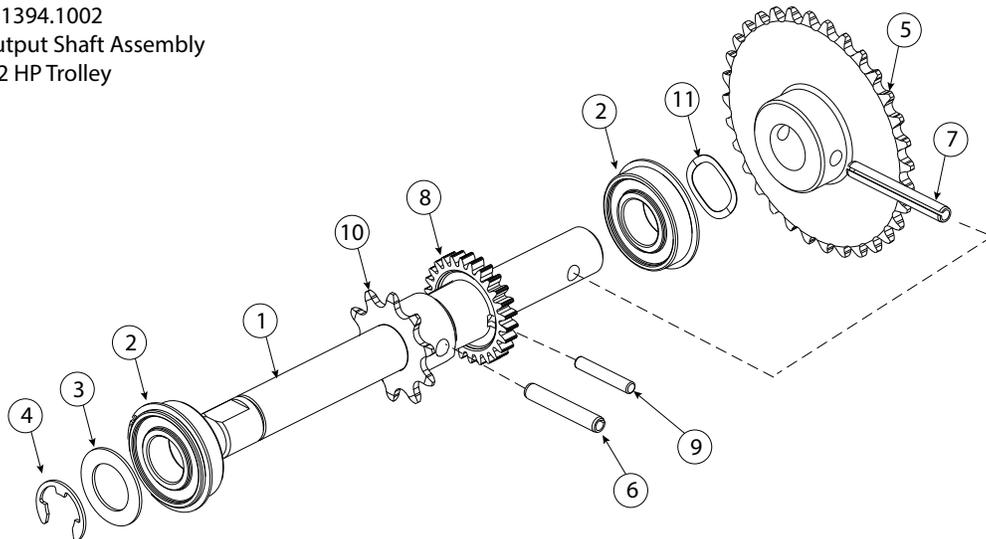
111394.1001  
Output Shaft Assembly  
3/4 & 1 HP Trolley



Item	Part Number	Description	QTY
	111394.1001.S	KIT,OUTPUT SHFT,3/4-1HP,SXT,N4	1
1	111027.0002	SHAFT,OUTPUT,.75,SXT,OD ZINC	1
2	110695.0001	BEARING,.75 ID	2
3	110819.0003	WASHER,PLAIN,.770 ID	1
4	080415.0022	RING,RTNG,EXT,"E",STL,.744"SFT	1
5	110738.0002	SPRKT,32T,#35CH,3/8P,OD ZINC	1
6	110313.0004	PIN,SPRING,.250 DIA X 1.50	1

7	110313.0010	PIN,SPRING,.250 DIA X 2.00	1
8	111073.0001	GEAR,LIMIT,26T,TROLLEY	1
9	110881.0001	PIN,DOWEL,.188 X 1.13/1.00	1
10	110739.0002	SPRKT,10T,#41CH,1/2P,OD ZINC	1
11	110818.0004	WASHER,WAVE SPRING,.780 ID	1
N/S	111410.0001	INSTR SHFT,OUTPUT SHAFT,SXT	1

111394.1002  
Output Shaft Assembly  
1/2 HP Trolley

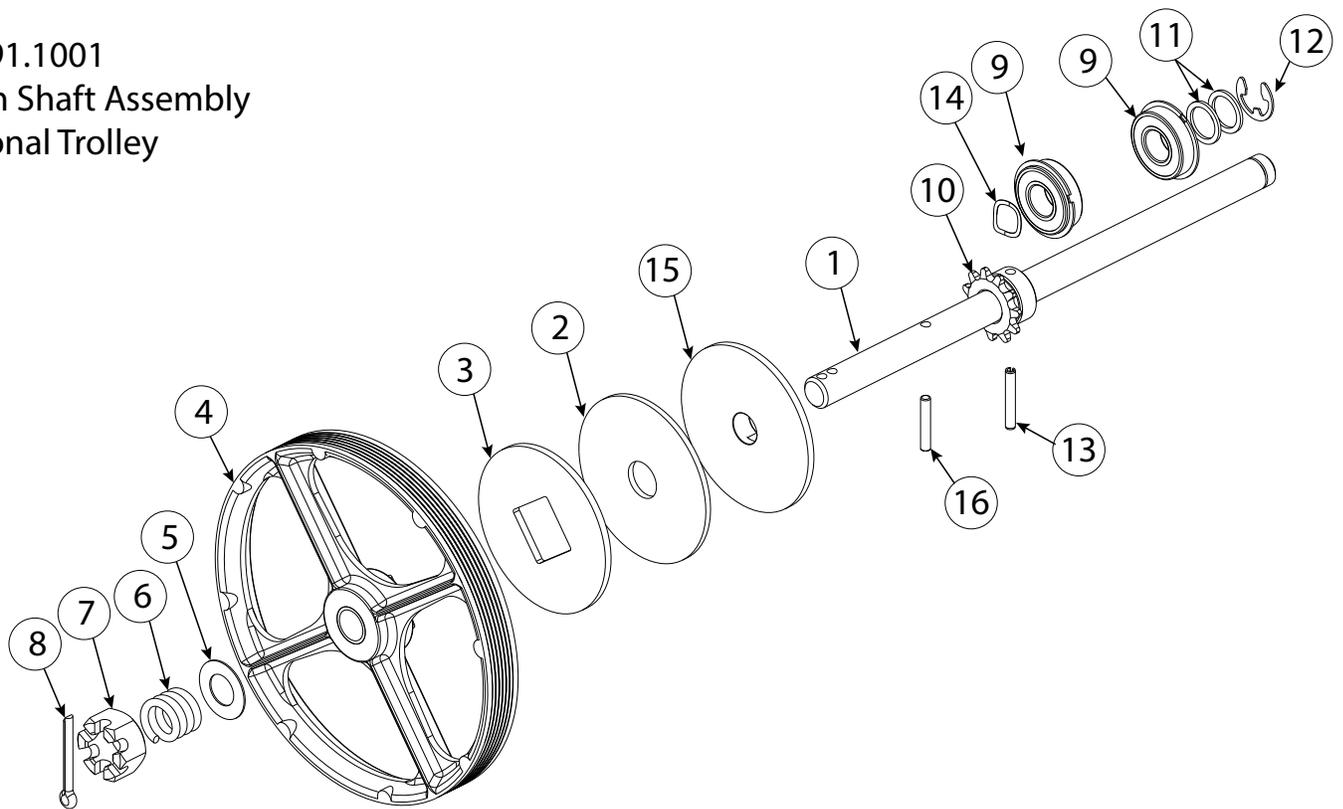


Item	Part Number	Description	QTY
	111394.1002.S	KIT,OUTPUT SHFT,1/2HP,SXT,N4	1
1	111027.0002	SHAFT,OUTPUT,.75,SXT,OD ZINC	1
2	110695.0001	BEARING,.75 ID	2
3	110819.0003	WASHER,PLAIN,.770 ID	1
4	080415.0022	RING,RTNG,EXT,"E",STL,.744"SFT	1
5	110738.0002	SPRKT,32T,#35CH,3/8P,OD ZINC	1
6	110313.0004	PIN,SPRING,.250 DIA X 1.50	1

7	110313.0010	PIN,SPRING,.250 DIA X 2.00	1
8	111073.0001	GEAR,LIMIT,26T,TROLLEY	1
9	110881.0001	PIN,DOWEL,.188 X 1.13/1.00	1
10	111348.0002	SPRKT,10T,#65,1/2P,OD ZINC	1
11	110818.0004	WASHER,WAVE SPRING,.780 ID	1
N/S	111410.0001	INSTR SHFT,OUTPUT SHAFT,SXT	1

# Shaft Assemblies

111391.1001  
Clutch Shaft Assembly  
Sectional Trolley

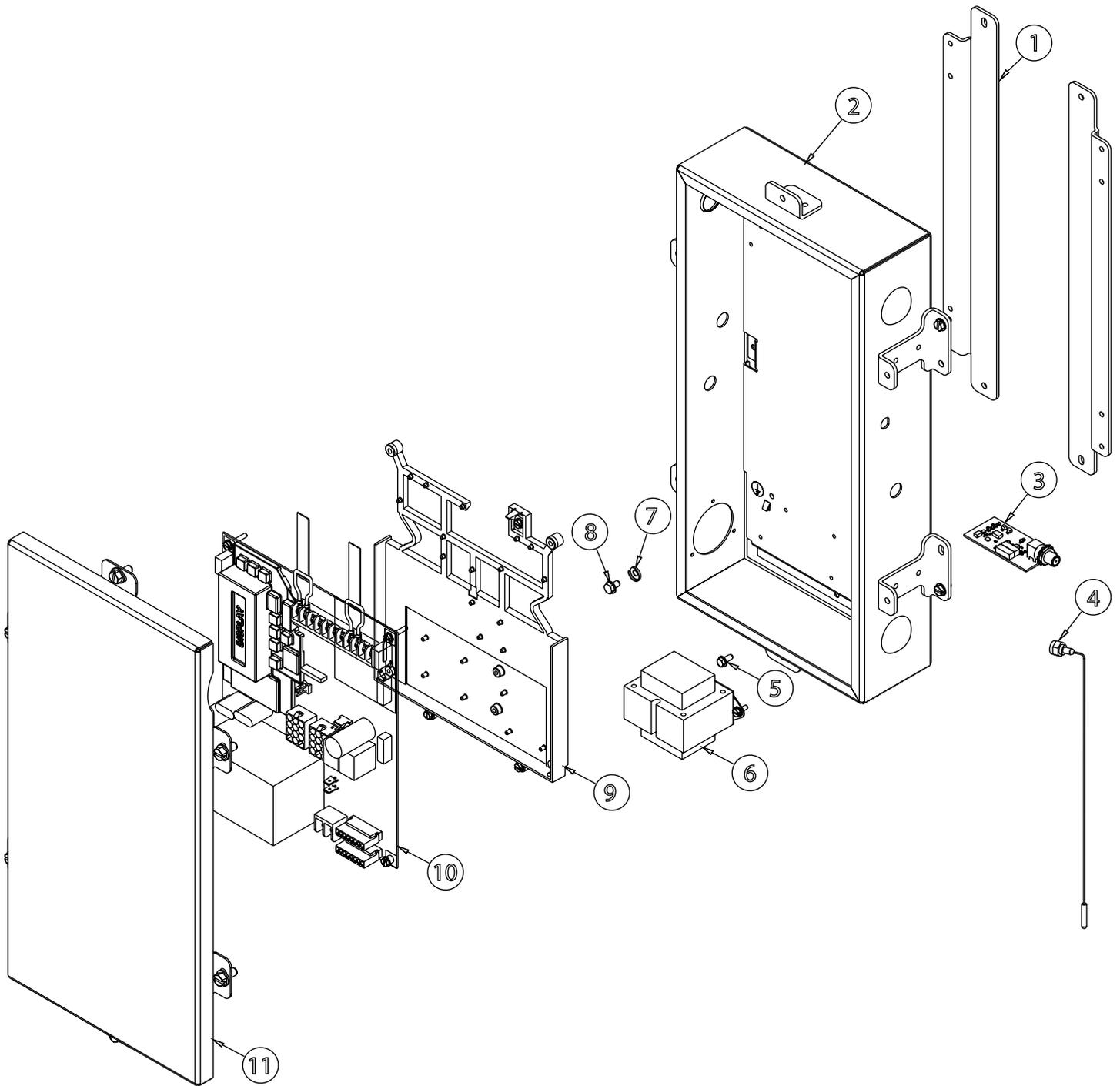


Item	Part Number	Description	QTY
	111391.1001.S	KIT,CLUTCH SHAFT,SXT,N4	1
1	110730.0002	SHAFT,CLUTCH,.625,SXT,OD ZINC	1
2	075193.0000	LINING,CLUTCH	1
3	108015.0001	DISC,CLUTCH MOVABLE PLD	1
4	111324.0001	PULLEY ASSY,CLUTCH	1
5	086649.0029	WASHER,THRUST .64	1
6	075197.0000	SPR,CLUTCH	1
7	110472.0001	NUT,HEX,SLOTTED,5/8-11	1
8	080401.0624	PIN,COTTER,3/16 X 1-1/2"L	1
9	110813.0001	BEARING,.625 I.D.	2
10	110465.0002	SPRKT,11T,#35,3/8P,OD ZINC	1
11	110819.0001	WASHER,PLAIN .651 I.D.	2
12	080415.0021	RING,RTNG,EXT,"E",STL,5/8"SFT	1
13	110313.0008	PIN,SPRING,.188 DIA X 1.38	1
14	110818.0001	WASHER,WAVE SPRING,.650 I.D.	1
15	111037.0002	DISC,CLUTCH,NICKLE PL	1
16	110881.0001	PIN,DOWEL,.188 X 1.13/1.00	1
N/S	111411.0001	INSTR SHT,CLUTCH SHAFT,SXT	1
N/S	110996.0001	GREASE,SUPER LUBE,1CC PACKET	1

# NEMA 4 and 4X Electric Box

ITEM	PART NUMBER	DESCRIPTION
1	111116.0001	BRACKET,MOUNTING,ELECTRIC BOX
2	111119.0001	ELECTRIC BOX, N4 (BLACK)
	111119.0002	ELECTRIC BOX, N4X (STAINLESS STEEL)
3	111397.0002	RECEIVER ASSY
4	111352.0001	ANTENNA ASSY
5	8706E29	SCREW,GROUND,8-32 X 3/8"
6	111087.0001	XFMR,120/208/240V,1 PHASE
	111087.0002	XFMR,208/240/480V,3 PHASE
	111087.0003	XFMR,575V
7	22634A	WASHER,CUP
8	8706F29	SCREW,GROUND,10-32 X 3/8"
9	111401.0001	INSULATOR BOARD ASSY
10	112357.0002	CIRCUIT BOARD, 1/2HP, 1 PHASE
	112357.0001	CIRCUIT BOARD, 3/4HP & 1HP, 1 PHASE
	112357.0003	CIRCUIT BOARD, ALL HP, 3 PHASE
	112357.0004	CIRCUIT BOARD, 575VAC, 3 PHASE
11	112401.0001	COVER ASSEMBLY, NEMA 4, 1 PHASE (BLACK)
	112401.0002	COVER ASSEMBLY, NEMA 4, 3 PHASE (BLACK)
	112401.0003	COVER ASSEMBLY, NEMA 4, 575V, (BLACK)
	111449.0004	COVER ASSEMBLY, NEMA 4X, 1 PHASE (STAINLESS STEEL)
	112401.0005	COVER ASSEMBLY, NEMA 4X, 3 PHASE (STAINLESS STEEL)
	112401.0006	COVER ASSEMBLY, NEMA 4X, 575V (STAINLESS STEEL)
N/S	111405.0001	FUSE KIT, 10PCS. EACH. 2.5A & .250A

# NEMA 4 and 4X Electric Box



# Notes

# Notes



The Genie Company  
1-800-843-4084