

2015 RAIL SWITCH CATALOG

STRONGER BY DESIGN

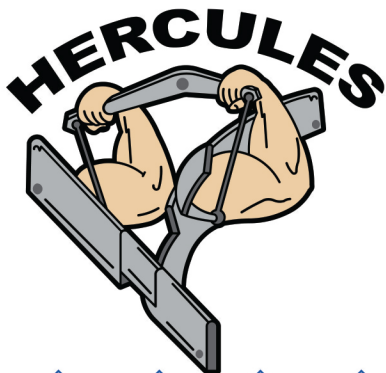


Table Of Contents

INTRODUCTION	1
INSTALLATION AND SAFETY	2
SWITCH MAINTENANCE	3
SWITCH OPERATION PROCEDURE	4
SWITCH SAFETY	5
WARRANTY	6
IDFI SWITCH ORDERING IDENTIFICATION GUIDE SHEET 1	7
IDFI SWITCH IDENTIFICATION GUIDE SHEET 2	8
IDFI SWITCH STANDARD DIMENSION GUIDE SHEET 3	9
IDFI SWITCH STANDARD DIMENSION GUIDE SHEET 4	10
BRIDGE HEIGHT AND ELEVATION CHANGE GUIDE SHEET 5	11
GEAR SWITCH	13
G1R*L	14
G1R*D	15
G1L*L	16
G1L*D	17
G2R*L	18
G2R*D	19
G2L*L	20
G2L*D	21
G3R*L	22
G3L*L	23
G4R*L	24
G4L*L	25
AUTOMATIC AND FEEDOUT SWITCH	27
A1R*L - F1R*L	29
A1R*U - F1R*U	30
A1L*L - F1L*L	31
A1L*U - F1L*U	32
A2R*L - F2R*L	33
A2R*U - F2R*U	34
A2L*L - F2L*L	35
A2L*U - F2L*U	36
A3R*L - F3R*L	37
A3L*L - F3L*L	38
AUTOMATIC POWER CORNER SWITCH	27
AC1R*L - FC1R*L	39
AC1L*L - FC1L*L	40
DIVERT SWITCH	41
D1R*L	42
D1R*D	43
D1R*U	44
D1L*L	45
D1L*D	46
D1L*U	47
D2R*L	48
D2R*D	49
D2R*U	50
D2L*L	51
D2L*D	52
D2L*U	53
SINGLE GATE FEEDOUT SWITCH	55
S1R*L	56
S1L*L	57
S2R*L	58
CUT THROUGH SWITCH	59
COX*L	60
TROLLEY TURN AROUND	61
TROLLEY TURN AROUND	62
SWITCH TURNBUCKLE CHART	63

NOTES

IDFI Inc.

Industrial Design Fabrication and Installation Inc.

Our highly professional design, build, and installation team offers a unique opportunity for your business. We offer the latest in innovation and state-of-the-art Hercules® rail switches. This is the newest switch on the market and we are confident you will like our new design. If what we currently have doesn't meet your needs, we will custom design and create the switches that will work best in your operation.

A few of the unique advantages of Hercules® switches that you won't find anywhere else:

- New simple design to minimize the number of moving parts and potential issues in the switching mechanism.
- Replacement parts are precision CNC machined and laser cut to ensure precise repeatability.
- Upright/Bridge assembly features a new technique to significantly increase strength of the weld.
- Rails are laser cut from abrasive resistant material that is stronger than standard rail.*
- Innovative design with extra reinforcement at the gate location, and heavier and thicker parts and components, reinforce the strength of the Hercules® Switch.
- Heavier standard load rating compared to other switches on the market.
- Removable, replaceable pin and pin assembly featured on all automatic and similar gates.
- One or more products in this catalog may be covered by United States Patents or Pending Patent Applications, including U.S. Patent Nos. 7,992,828; 8,011,304;

The HERCULES[®] Rail Switch

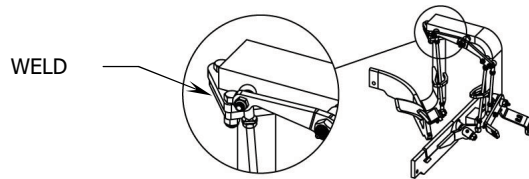
INSTALLATION SAFETY INSTRUCTIONS

FAILURE TO READ AND FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH

The first step in switch installation is to ensure the switch operates correctly before it is installed. The next step is to ensure the opening in the rail system is at the proper dimension to accept the switch and that the hangers are square and level so not to twist switch when bolted to rail hangers. **NOTE: Switch should fit to rail hangers without any force. Never force switch to hangers. Always move hangers to switch. Failure to do this will cause switch gates to function incorrectly and potentially be unsafe.**

All welds on steel switches shall be made with E70 electrodes by certified welders in accordance with A.W.S. D.1.1.— latest edition. All welds on stainless steel switches shall be welded with ER308 electrodes by certified welders in accordance with A.W.S. D.1.1— latest edition.

Switches with bolt on bridge plates must be bolted and welded together prior to operation.



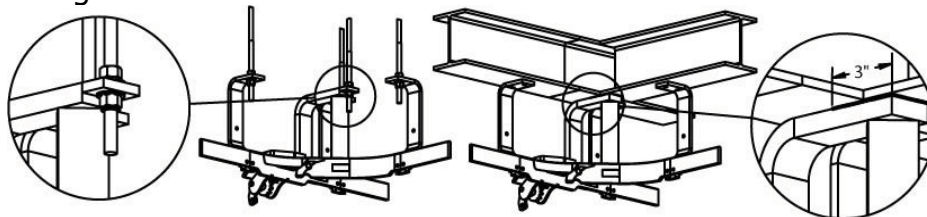
Once installed, the switch should be examined to ensure the gates move easily and that they are properly aligned. The gates should move freely and the alignment should be as good as before the installation process.

If necessary, lubricate all pivot points with any food-safe lubricant available. Remove any excess with rag to avoid contact with product.

WARNING: Never exceed load rating of switch. Exceeding load rating could result in switch failure, death, or serious injury.

LOAD RATING:

All HERCULES[®] Rail Switches have a standard 2000 Lb load rating. To achieve a 3000 Lb load rating on all switches, the bridge must be attached and supported to structure in location shown. Ways of attachment include, but not limited to, welding or bolting. Hangers attached to switch must have a load rating of 3000 Lbs. or more.



MANUFACTURED BY:  .COM
PHONE: 1-877-873-5858 FAX: 1-712-224-5604

The HERCULES[®] Rail Switch

SWITCH MAINTENANCE

Develop and follow a program to train all employees and contractors in contact with the switches in safe operation and maintenance requirements.

Inspect operation of switches weekly to determine that all parts are in good condition, all fasteners are properly tightened, and all moving parts are properly lubricated, and operating freely.

Immediately replace all parts that become even slightly worn or damaged. Failure to follow this requirement could cause excessive wear to non-replaceable parts.

If necessary, lubricate all pivot points weekly with small amounts of food-safe lubricant. Remove excess lubricant with rag.

The **HERCULES**[®] *Rail Switch*

SWITCH OPERATION PROCEDURE

Before operating any switch, operator should visually inspect switch to ensure it appears to be in normal operating condition and gates set into their pockets and align with rail. Product should be moved into and through the switch no faster than a normal walking pace. Never allow more than one trolley at a time to move across any switch.

Automatic, Feedout, and Single Gate Feedout Switches should only have product converging from two rails to one rail. It is never recommended to run product in a diverging direction (from one rail to two separate rails).

Gear operated switches are not recommended for powered conveying systems as they could cause product to drop and potential injury to operator or others in the area. Gear operated switches are recommended for manually moving trolley across the switch. Gear switches may be operated in a converging or diverging direction. Only switch gates before trolley is introduced to the gear switch. Never switch gates with trolley on the gear switch.

Divert switches are designed to move trolleys in a diverging direction. Only switch gates before trolley is introduced to the divert switch. Never switch gates with trolley on the divert switch.

- One trolley at a time should be moved over a switch at a normal walking speed. Always push trolleys through a switch, DO NOT pull a trolley through a switch.
- When approaching the switch with a loaded trolley from the diverging direction, visually determine that lift pieces are positioned to allow trolley to move in the desired direction and that the down piece is properly seated. If necessary, move operating arm to reposition lift pieces to accommodate desired trolley travel.
- The automatic switch eliminates the manual operation in gathering to a common headrail (converging). The weight and forward motion of an approaching trolley along either rail activates the switch, if necessary, closing one rail and opening another.
- Never push or convey a trolley onto or over a raised lift track piece of a switch while a trolley is resting on or moving over the other lift track piece of the same switch.
- If gear operated conveyor switches (not recommended for conveyORIZED systems) are used, special care must be taken if the switch is activated while conveyor is moving so drop finger will not come into contact with lifting track piece.

The **HERCULES**[®] *Rail Switch*

SWITCH SAFETY

IDFI Inc. Hercules[®] switches will operate safely when installed properly and used for their designed purpose. If not installed by the manufacturer, purchaser must ensure the switch is correctly installed for its intended use. The purchaser is responsible for training operators in the safe and effective operation and maintenance of all Hercules[®] switches. Purchaser is responsible for reviewing the operator's performance periodically to ensure safe operation of the switches. The purchaser must periodically review operation of equipment to ensure it is functioning normally and safely. IDF Inc. recommends a weekly inspection by a competent person of both equipment and its operation.

All employees, contractors, or anyone working in and around the areas where track and switches are used, **MUST** be properly trained in the safe operation and maintenance of switches prior to their use.

Follow these important safety rules to protect employees from injury and avoid loss of product or manufacturing down time:

- **WARNING: Never exceed load rating of switch. Exceeding load rating could result in switch failure, death, or serious injury.**
- Always wear eye and head protection when working under and around switches.
- To avoid metal particles coming loose or trolleys leaving the track, product should never move faster than a walking pace across switch. Product must hang directly under the rail and should never be pushed, pulled or swung excessively.
- Trolley stops are designed to stop one trolley rated load at a walking pace. Never push product into stops with powered buggy or other power pushers.
- No person should ever swing from switches, or use overhead switches to support or transport people.
- Before working on switches, always ensure any overhead power conveyors, air or hydraulic cylinders, or any other power sources attached to or around switches are locked out.
- Switching gates must only be done with no trolleys on the switch.
- Only allow one trolley on a switch at a time.

The **HERCULES**[®] *Rail Switch*

WARRANTY

Hercules[®] switches manufactured by Industrial Design Fabrication & Installation Inc. Also known as IDFI Inc. are warranted against defects in material and workmanship for a period of 1 year commencing with the date the switch is shipped or installed by IDFI Inc. There are no warranties beyond this date.

Purchaser must notify IDFI Inc. during the one year period to receive warranty benefits. After purchaser notifies IDFI Inc. and upon confirmation by IDFI Inc. representative, this warranty will apply only if the equipment fails to function properly under normal use, including but not limited to:

- Proper storage
- Proper installation (if not installed by IDFI Inc.)
- Proper maintenance
- No unauthorized repairs
- Proper operation

Only persons specifically authorized by IDFI Inc. shall perform warranty work on the switch. Any work performed by unauthorized persons shall void the warranty. At the discretion of IDFI Inc., said equipment will either be repaired or replaced at our expense.

This warranty will be void if, in the sole opinion of IDFI Inc. the defect or malfunction was caused by an accident, abuse or misuse, neglect or improper modifications or other causes not attributable to defects in material or workmanship.

Consequential damages, lost productive hours, inconvenience and contingent liabilities are not covered under this warranty. IDFI Inc.'s sole liability under this warranty shall be to replace or repair defects in materials and workmanship. IDFI Inc. will not be liable for special, consequential damages, including but not limited to loss, injury or damage to persons or property caused by failure or defective operation of any equipment or material furnished hereunder, damage or loss of any property or equipment, loss of revenue or profits, loss of use of power system, capital cost, purchase or replacement cost or claims of customers for service interruption. Warranty will not exceed the price of the equipment or part on which such liability is based. This document constitutes the entire agreement between IDFI Inc. and customer and no other agreements shall be binding unless in writing and signed by an officer of Industrial Design Fabrication and Installation Inc.

The HERCULES® Rail Switch

IDFI SWITCH ORDERING IDENTIFICATION GUIDE Sheet 1

A 1 R 4 U 25 1 Z 105 B 00 00 00

Length of Extension X
See Rail Extensions on Sheet 2
Give in 1" increments
(ex. 1" is 01, 17" is 17)

Length of Extension Z
See Rail Extensions on Sheet 2
Give in 1" increments
(ex. 1" is 01, 17" is 17)

Length of Extension Y
See Rail Extensions on Sheet 2
Give in 1" increments
(ex. 1" is 01, 17" is 17)

Type of Bridge
B = Bolt On (Hangers on outside of curved rail only)
W = Weld On

Bridge Height
See Calculating Bridge Height on Sheet 4
Range from 10" to 21" in 1/2" Increments
(Ex. 13 1/2" = 135, 13" = 130)

Finish
Z = Zinc, **S** = Stainless, **B** = Black **M** = SS Rail Zinc Frame

Rail Size
See Sheet 2
1 = 1/2" x 2 1/2", 2 = 1/2" x 3", 3 = 5/8" x 2 1/2", 4 = 5/8" x 3"

Distance of Curved Rail Elevation Change
See Sheet 2
(Ex. 1" = 10, 2 1/2" = 25)

Curved Rail Elevation Change
L = Level, **U** = Up, **D** = Down

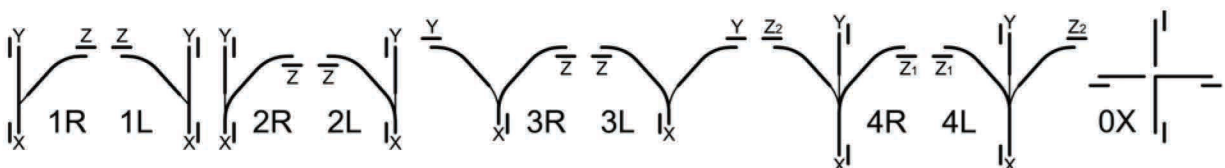
Degree of Curve*
See Sheet 2
4 = 45° 9 = 90°, 0 = Parallel with 10" offset

Direction of Curve
R = Right, **L** = Left, **X** = Cut Through (only with prior selection of "C,0")

Location of Hanger in Relation to Curved Rail
1 = Outside of Curved Rail, 2 = Inside of Curved Rail 3 = Double curve 0 = Cut Through
4 = 4 Way Switch

Switch Type

A = Automatic, **D** = Divert **S** = Single Gate Feed Out **C** = Cut Through
F = Feed Out (non spring load auto-switch) **G** = Gear **L** = 2nd Legger



Visit us at www.idfi.com for more information about our rail switches and the latest technology in sanitary conveyors.

*When degree of bend is different on 3, 4, type switches full rail described first and short rail second.

EXAMPLE: A3R94L001Z105W-90 Degree full rail 45 degree short rail

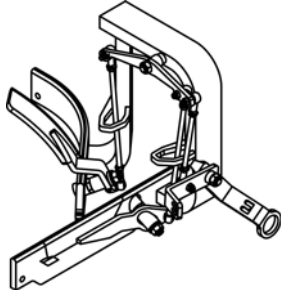
l=Hanger Location On above Symbols

MANUFACTURED BY: **IDFI**.COM
PHONE: 1-877-873-5858 FAX: 1-712-224-5604

The HERCULES[®] Rail Switch

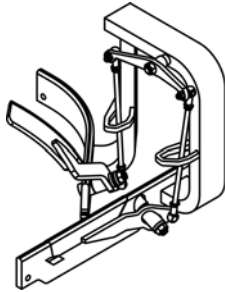
IDFI SWITCH IDENTIFICATION GUIDE Sheet 2

Automatic Switch



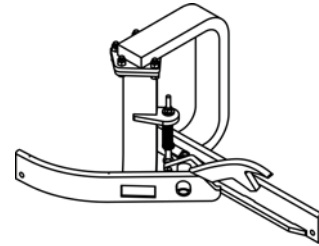
If product flows from the curve onto the straight rail (converging rails) and a selecting lever is required, an automatic switch is recommended.

Feedout Switch



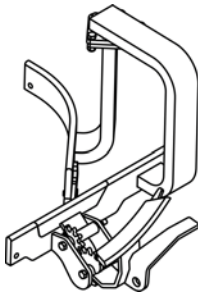
If a product flows from the curve onto the straight rail (converging rails), and no selecting levers are required, a feedout switch is recommended.

Single Gate Feedout Switch



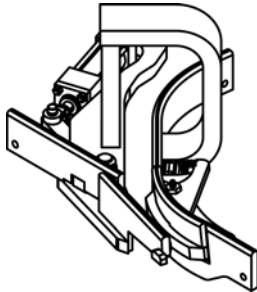
If a product flows from the curve onto the straight rail (converging rails), or in a second legger application, a single gate feedout switch is recommended.

Gear Switch



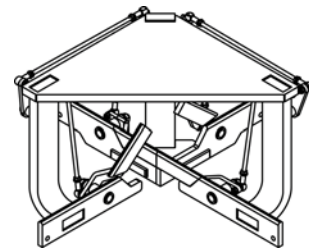
When product comes from the straight rail and flows onto the curve (diverting rails) a gear switch is recommended.

Divert Switch



When product comes from the straight rail and flows onto the curve (diverting rails) in an automated rail system a divert switch is recommended.

Cut Through Switch

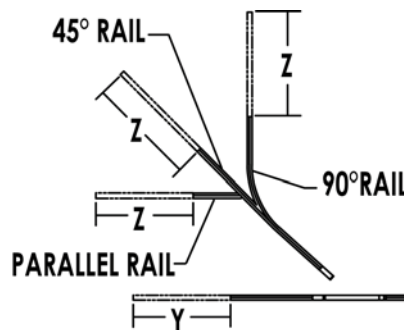


When two rails cross each other a cut through switch is recommended.

Rail Extensions

Y = Length of Extension of Straight Rail

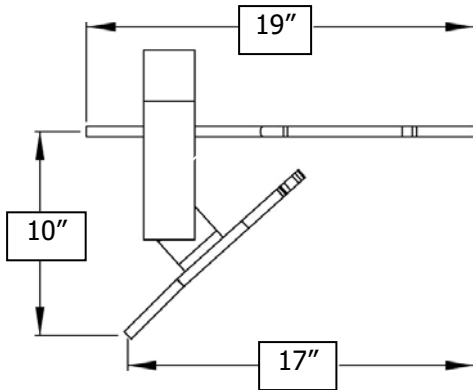
Z = Length of Extension of Curved Rail



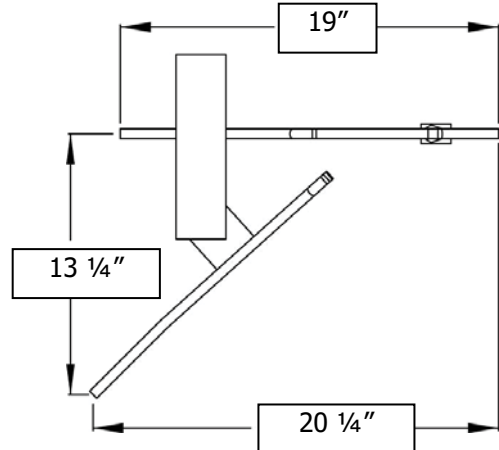
The HERCULES[®] Rail Switch

IDFI SWITCH STANDARD DIMENSION GUIDE Sheet 3

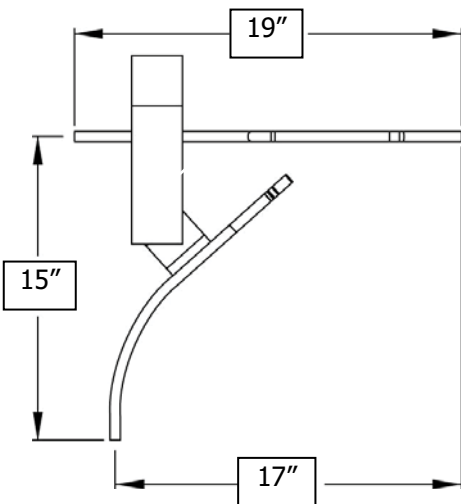
LEVEL 45° SWITCHES



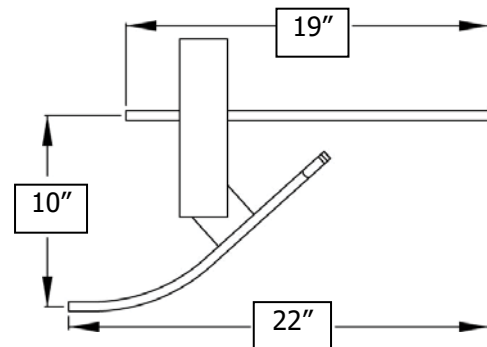
CURVED END UP CURVED END DOWN 45° SWITCHES



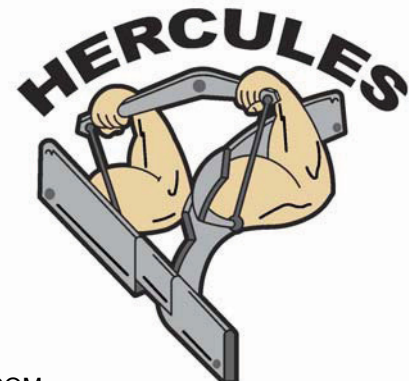
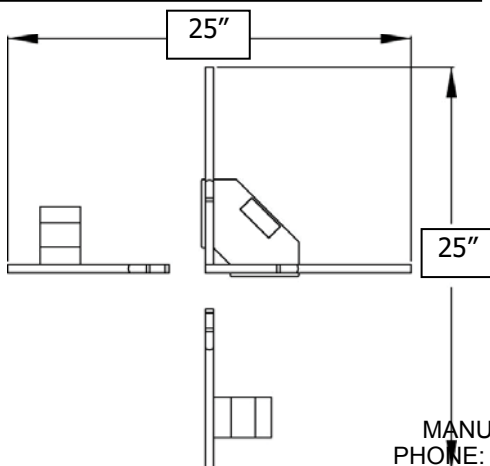
90° SWITCHES



PARALLEL SWITCHES



CUT THRU SWITCHES

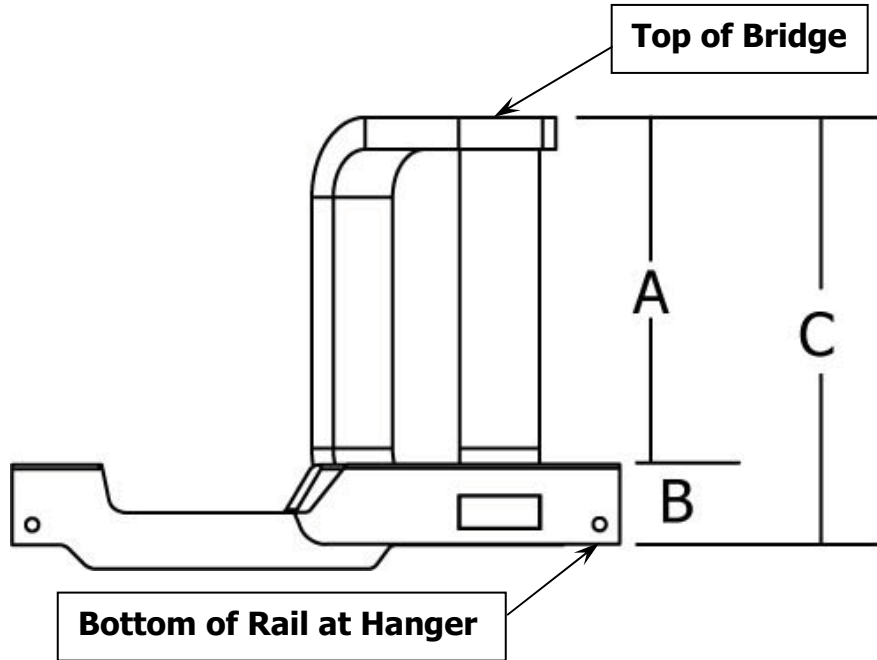


MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

The HERCULES[®] Rail Switch

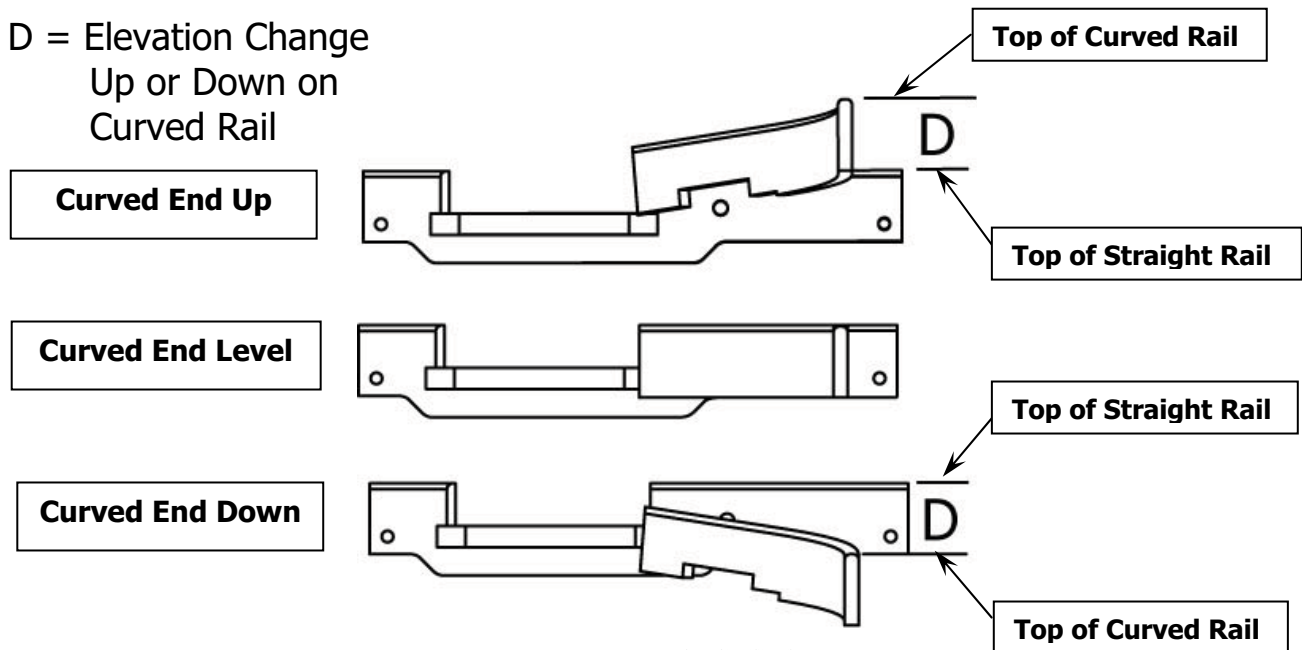
HOW TO CALCULATE BRIDGE HIEGHT Sheet 4

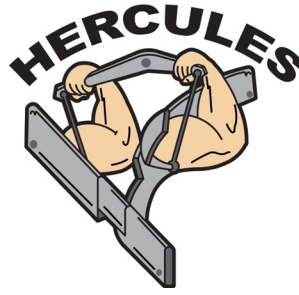
- A + B = C (Bridge Height)
- A = Top of Bridge to Top of Rail
- B = Rail Height
- C = Bridge Height



HOW TO DETERMINE ELEVATION CHANGE

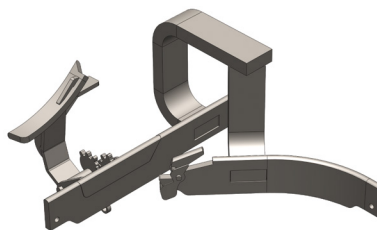
D = Elevation Change
Up or Down on
Curved Rail





GEAR SWITCH SECTION

Switch Description	Page	Switch Layout
G1R*L*****	14	
G1R*D*****	15	
G1L*L*****	16	
G1L*D*****	17	
G2R*L*****	18	
G2R*D*****	19	
G2L*L*****	20	
G2L*D*****	21	
G3R*L*****	22	
G3L*L*****	23	
G4R*L*****	24	
G4L*L*****	25	

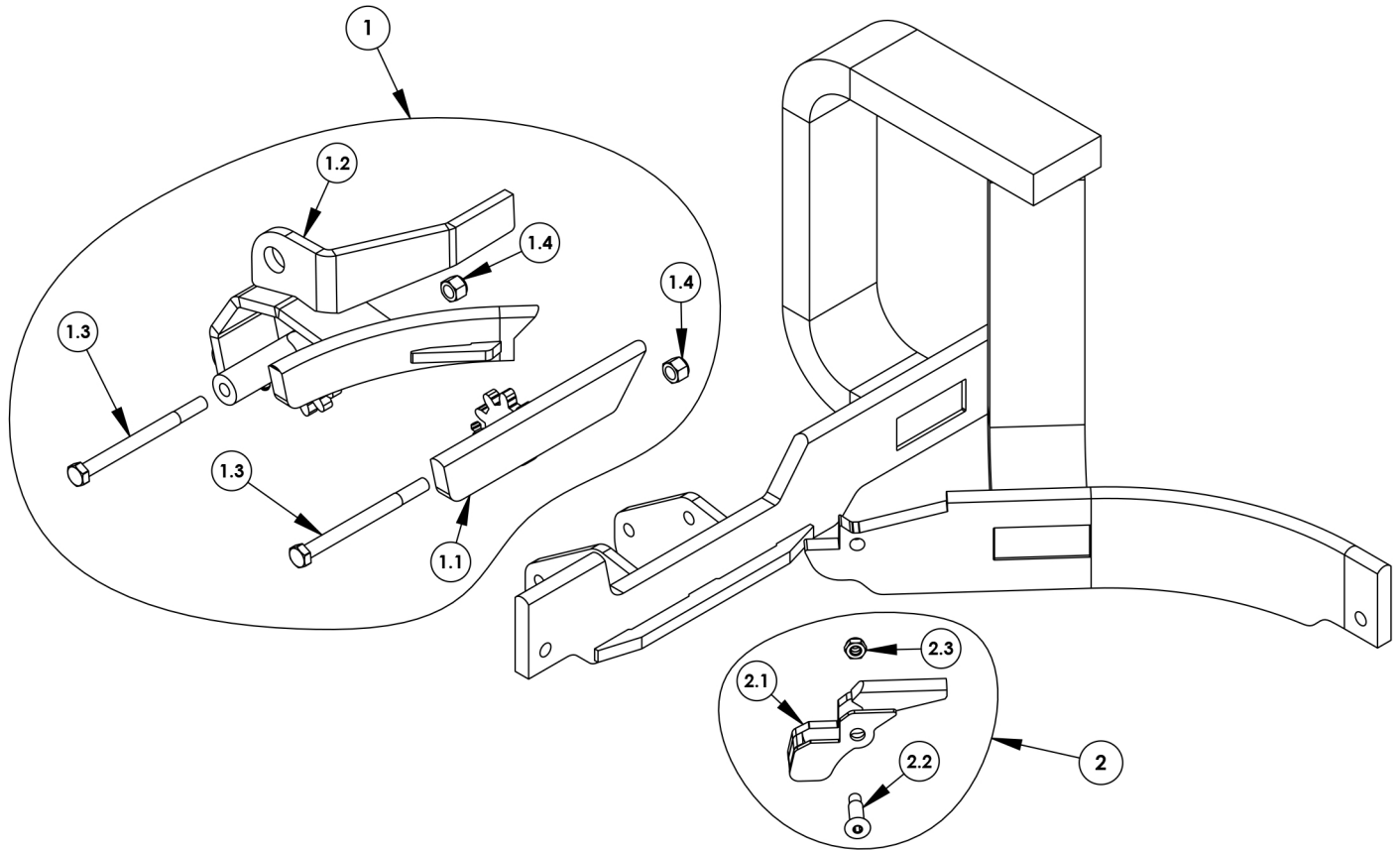


HERCULES®

GEAR 1R LEVEL RAIL SWITCH

G1R*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 1R LVL COM KIT	1	1122093	1128599
1.1	GEAR 1R LVL STRAIGHT GATE ASSY	1	1114724	1126218
1.2	GEAR 1R LVL CURVED GATE ASSY	1	1126815	1114262
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

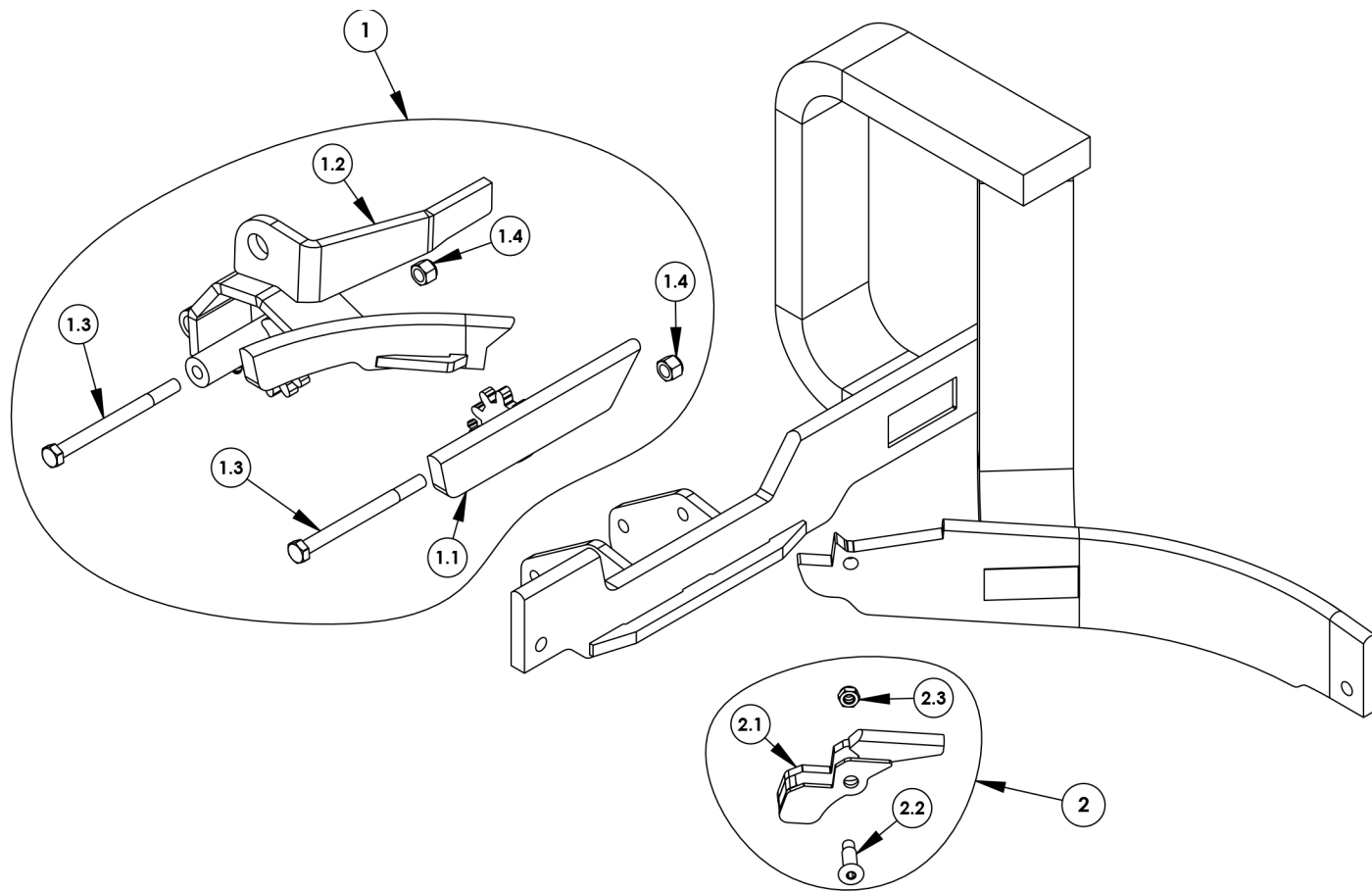
Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

HERCULES[®]

GEAR 1R CED RAIL SWITCH

G1R*D*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 1R CED COM KIT	1	1118139	1127702
1.1	GEAR 1R LVL STRAIGHT GATE ASSY	1	1114724	1126218
1.2	GEAR 1R CED CURVED GATE ASSY	1	1120016	1123809
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918



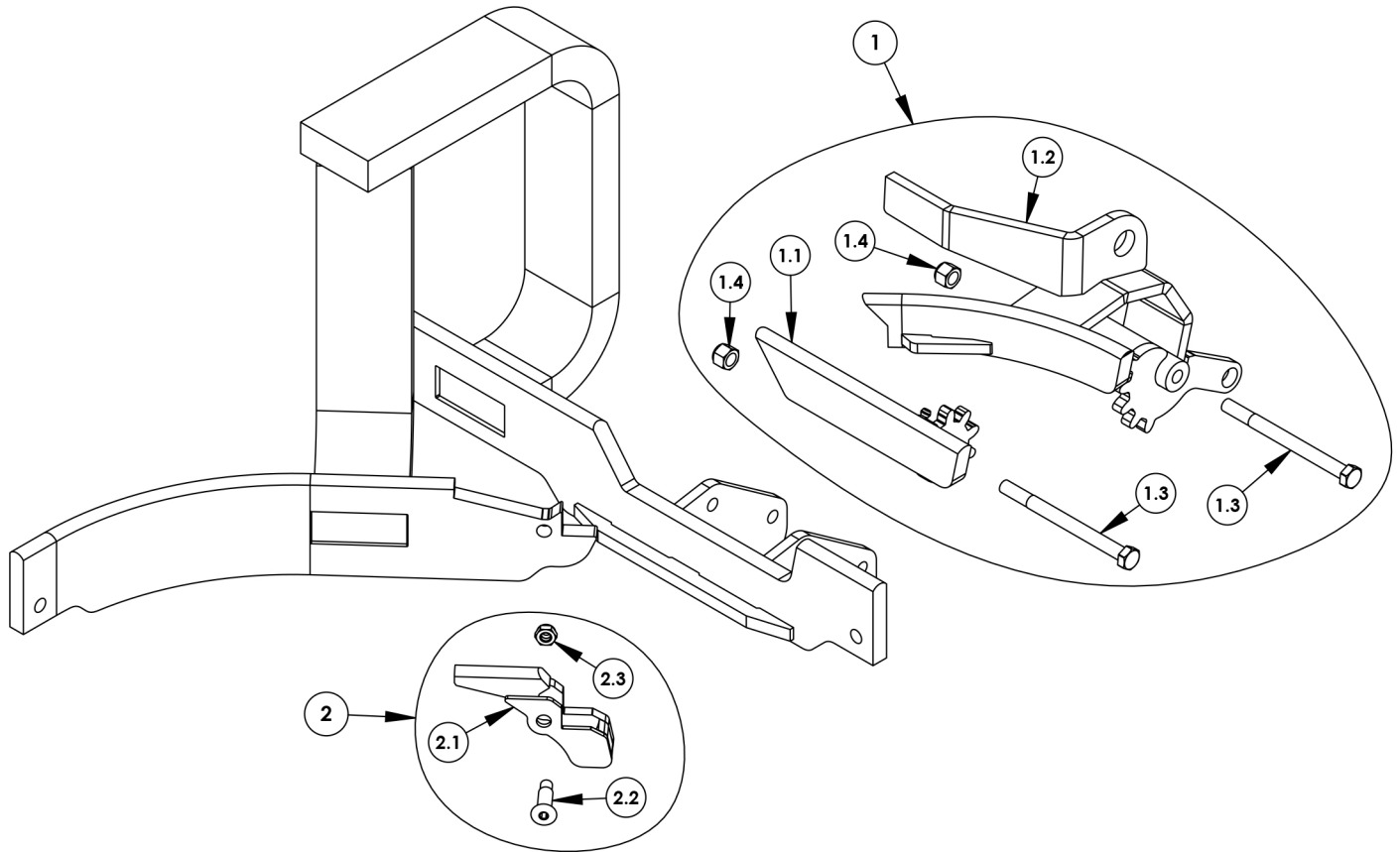
MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

GEAR 1L LEVEL RAIL SWITCH

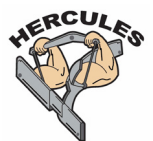
G1L*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 1L LVL COM KIT	1	1123551	1117793
1.1	GEAR 1L LVL STRAIGHT GATE ASSY	1	1121176	1117390
1.2	GEAR 1L LVL CURVED GATE ASSY	1	1126785	1111835
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

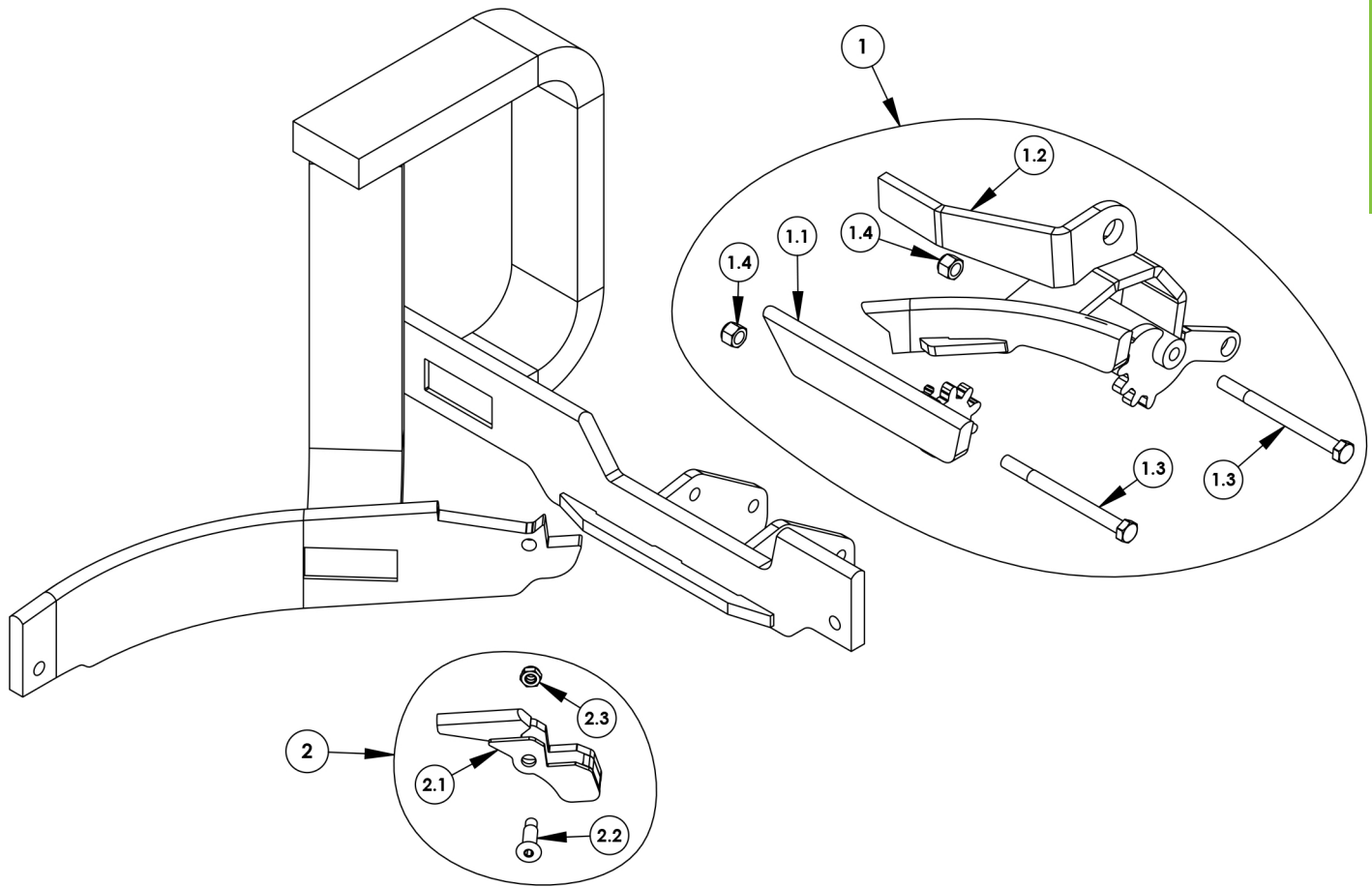


HERCULES®

GEAR 1L CED RAIL SWITCH

G1L*D*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 1L CED COM KIT	1	1112509	1121557
1.1	GEAR 1L LVL STRAIGHT GATE ASSY	1	1121176	1117390
1.2	GEAR 1L CED CURVED GATE ASSY	1	1116742	1114103
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918



03/03/17

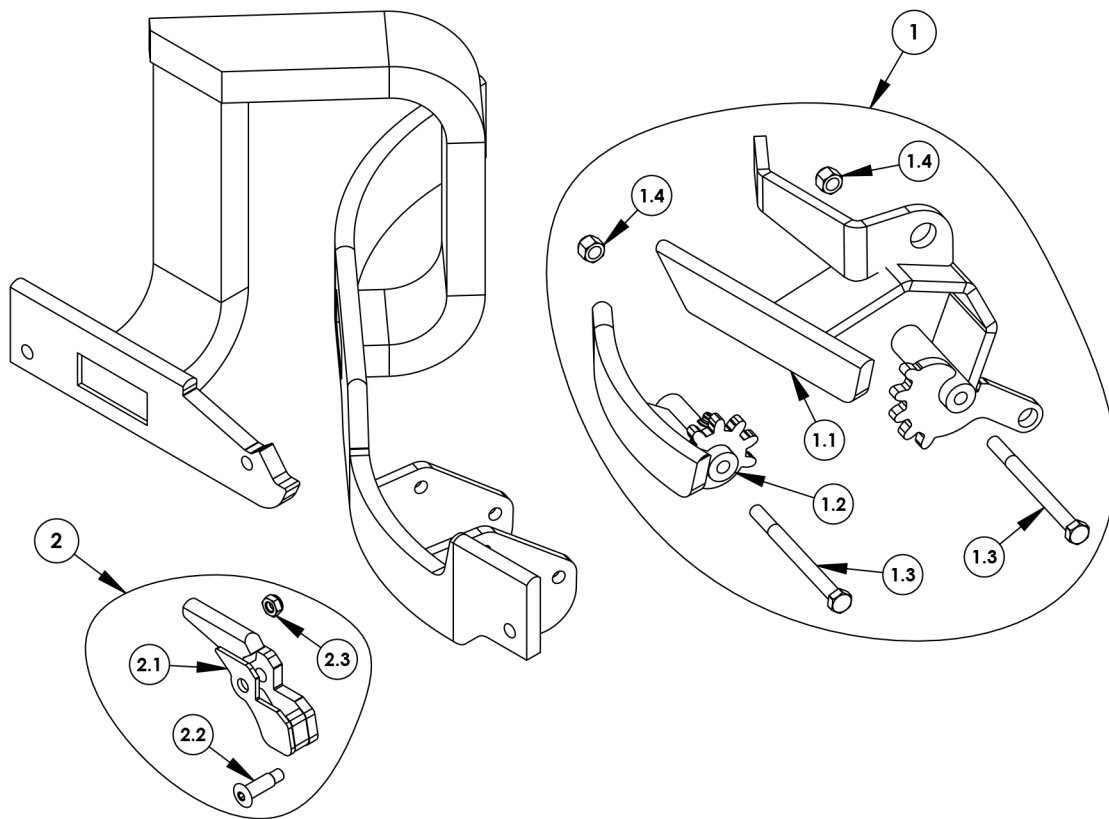
MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

GEAR 2R LEVEL RAIL SWITCH

G2R*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 2R LVL COM KIT	1	1118787	1113570
1.1	GEAR 2R LVL STRAIGHT GATE ASSY	1	1122328	1114119
1.2	GEAR 2R LVL CURVED GATE ASSY	1	1127350	1118330
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

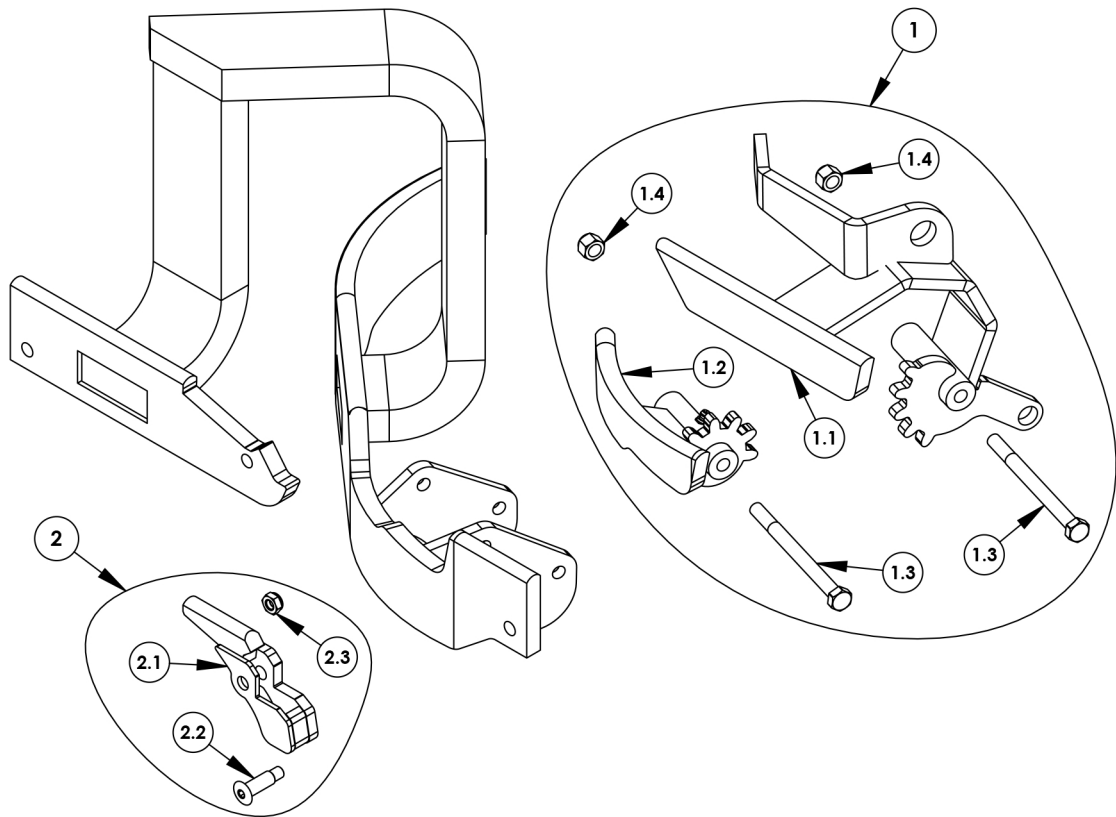


HERCULES®

GEAR 2R CED RAIL SWITCH

G2R*D*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 2R CED COM KIT	1	1126542	1122191
1.1	GEAR 2R LVL STRAIGHT GATE ASSY	1	1122328	1114119
1.2	GEAR 2R CED CURVED GATE ASSY	1	1123070	1126826
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918



03/03/17

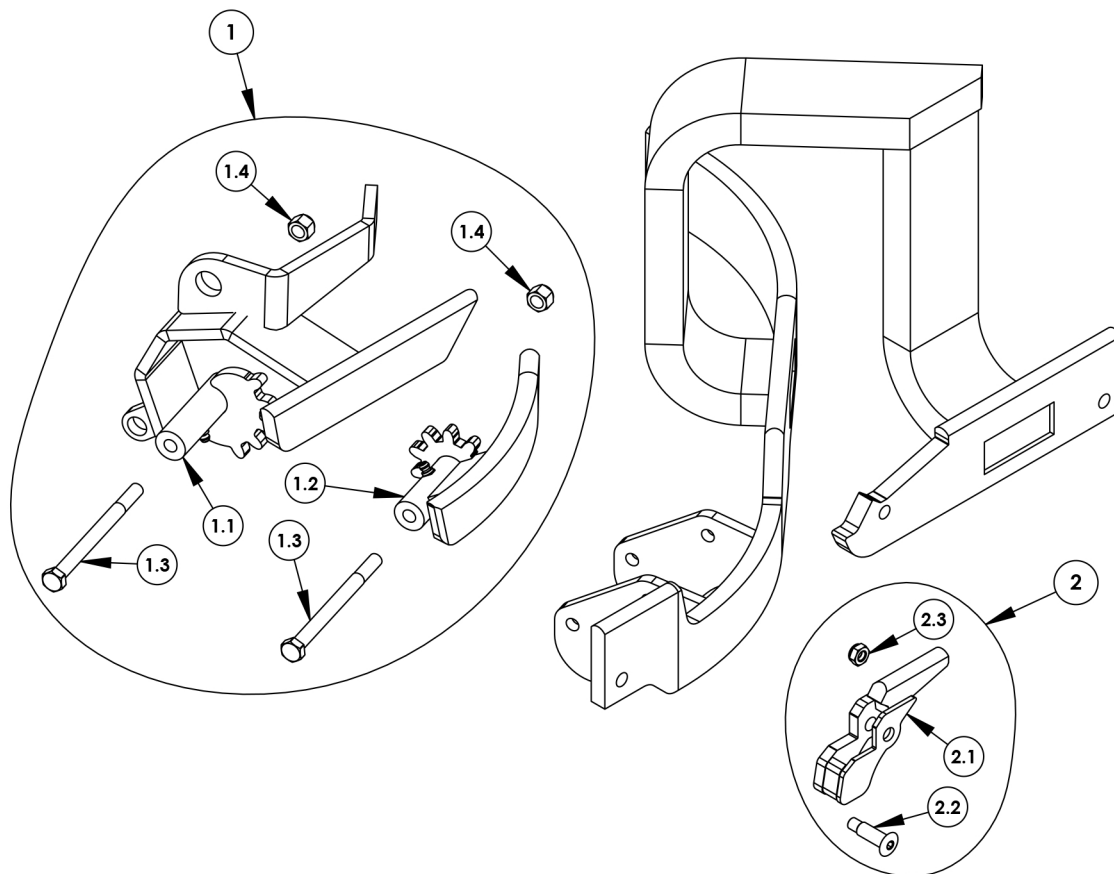
MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

GEAR 2L LEVEL RAIL SWITCH

G2L*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 2L LVL COM KIT	1	1125333	1120806
1.1	GEAR 2L LVL STRAIGHT GATE ASSY	1	1115943	1121170
1.2	GEAR 2L LVL CURVED GATE ASSY	1	1112308	1124632
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

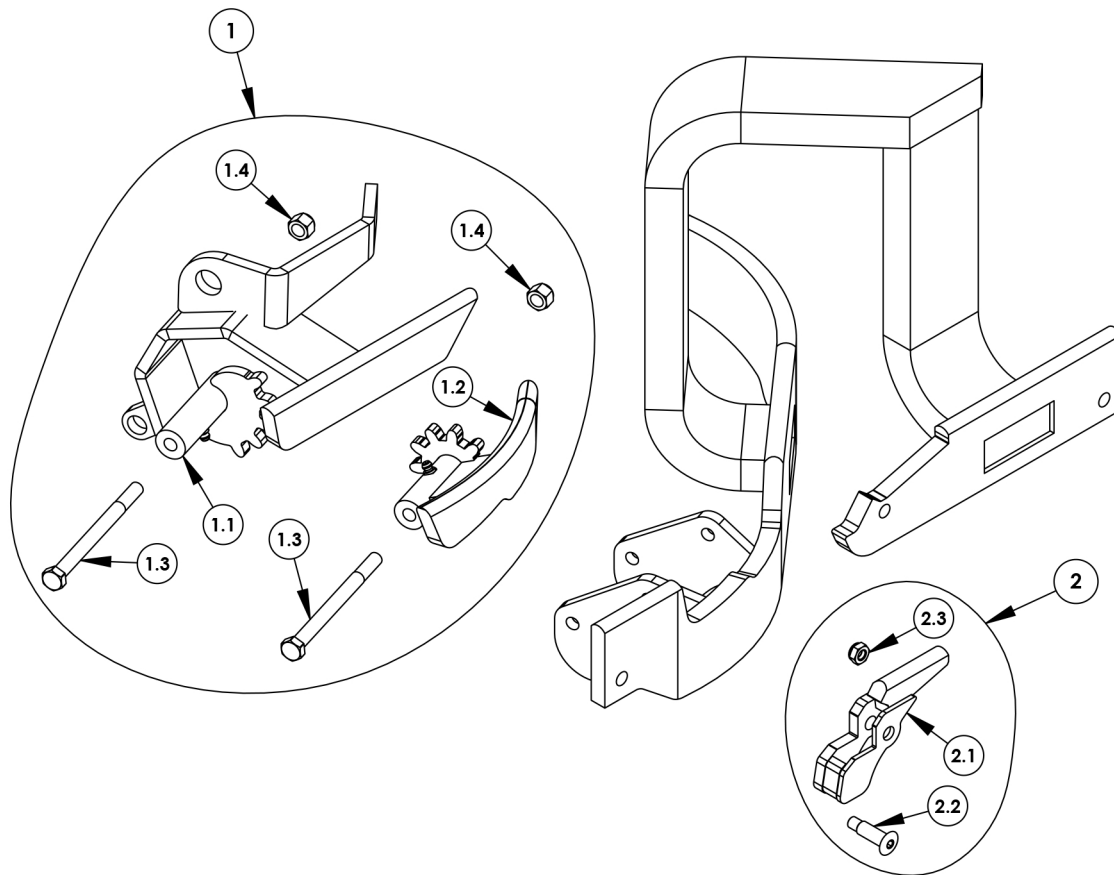


HERCULES®

GEAR 2L CED RAIL SWITCH

G2L * D*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 2L CED COM KIT	1	1123461	1122948
1.1	GEAR 2L LVL STRAIGHT GATE ASSY	1	1115943	1121170
1.2	GEAR 2L CED CURVED GATE ASSY	1	1119876	1127317
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918



03/03/17

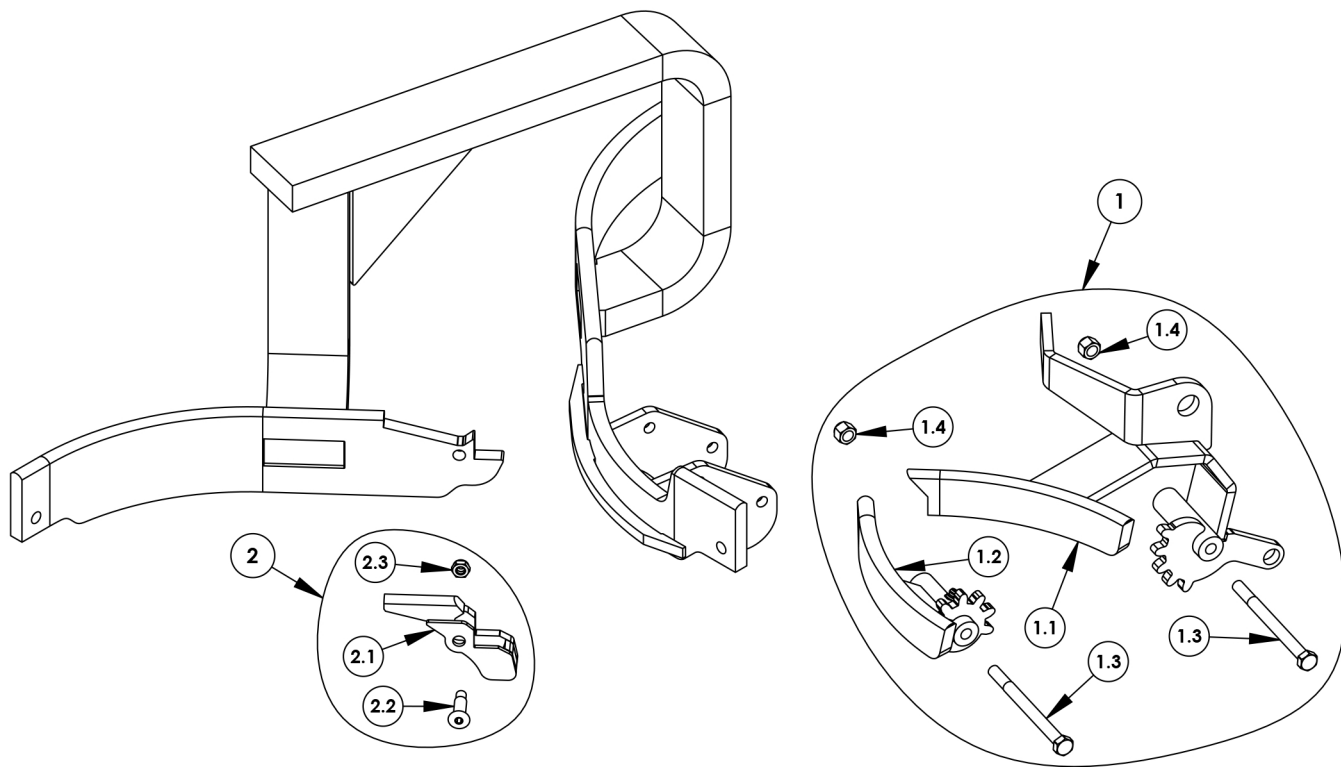
MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

GEAR 3R LEVEL RAIL SWITCH

G3R*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 3R LVL COM KIT	1	1125927	1126297
1.1	GEAR 3R LVL CURVED GATE ASSY	1	1116929	1123846
1.2	GEAR 2R LVL CURVED GATE ASSY	1	1127350	1118330
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

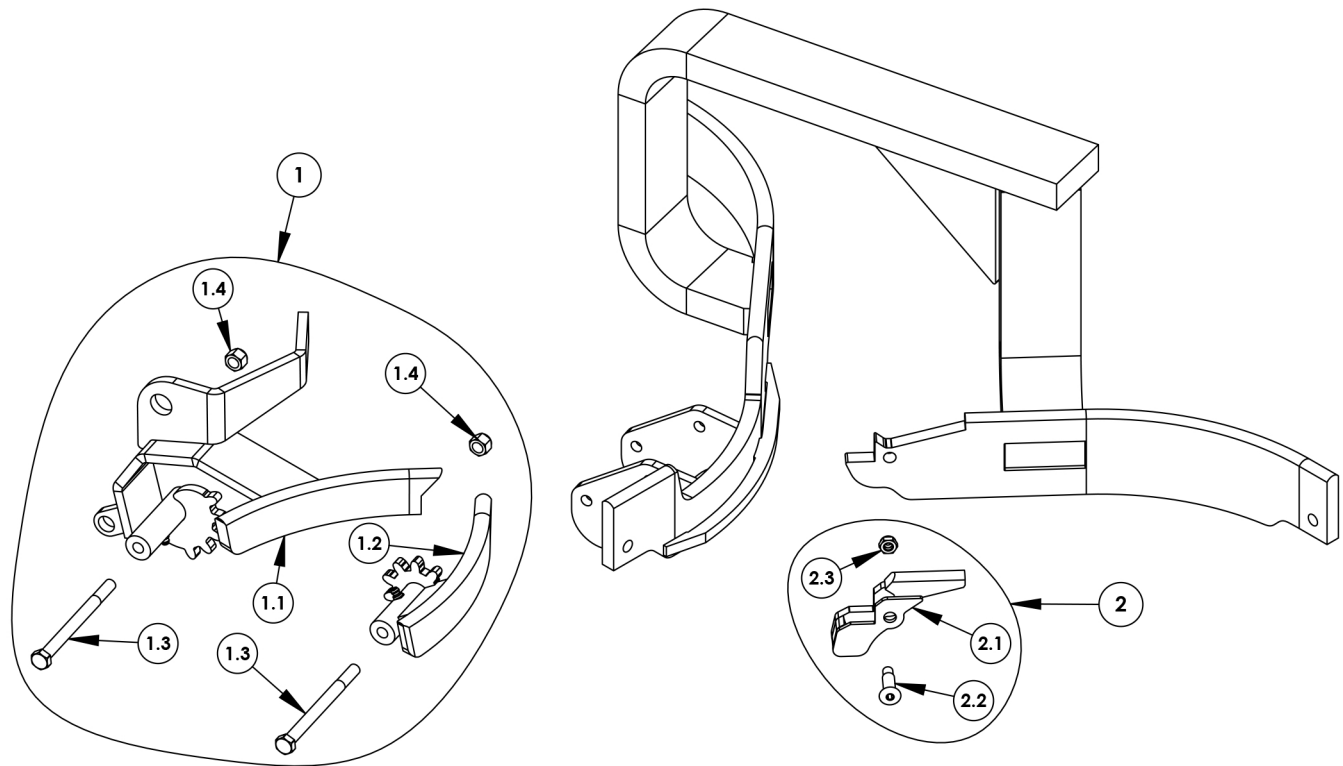
Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

HERCULES®

GEAR 3L LEVEL RAIL SWITCH

G3L*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 3L LVL COM KIT	1	1111896	1129047
1.1	GEAR 3L LVL CURVED GATE ASSY	1	1112219	1120352
1.2	GEAR 2L LVL CURVED GATE ASSY	1	1112308	1124632
1.3	3/8-16 x 4 1/2" HEX BOLT	2	1113360	1120672
1.4	3/8-16 NYLOCK NUT	2	1111266	1119766

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918



03/03/17

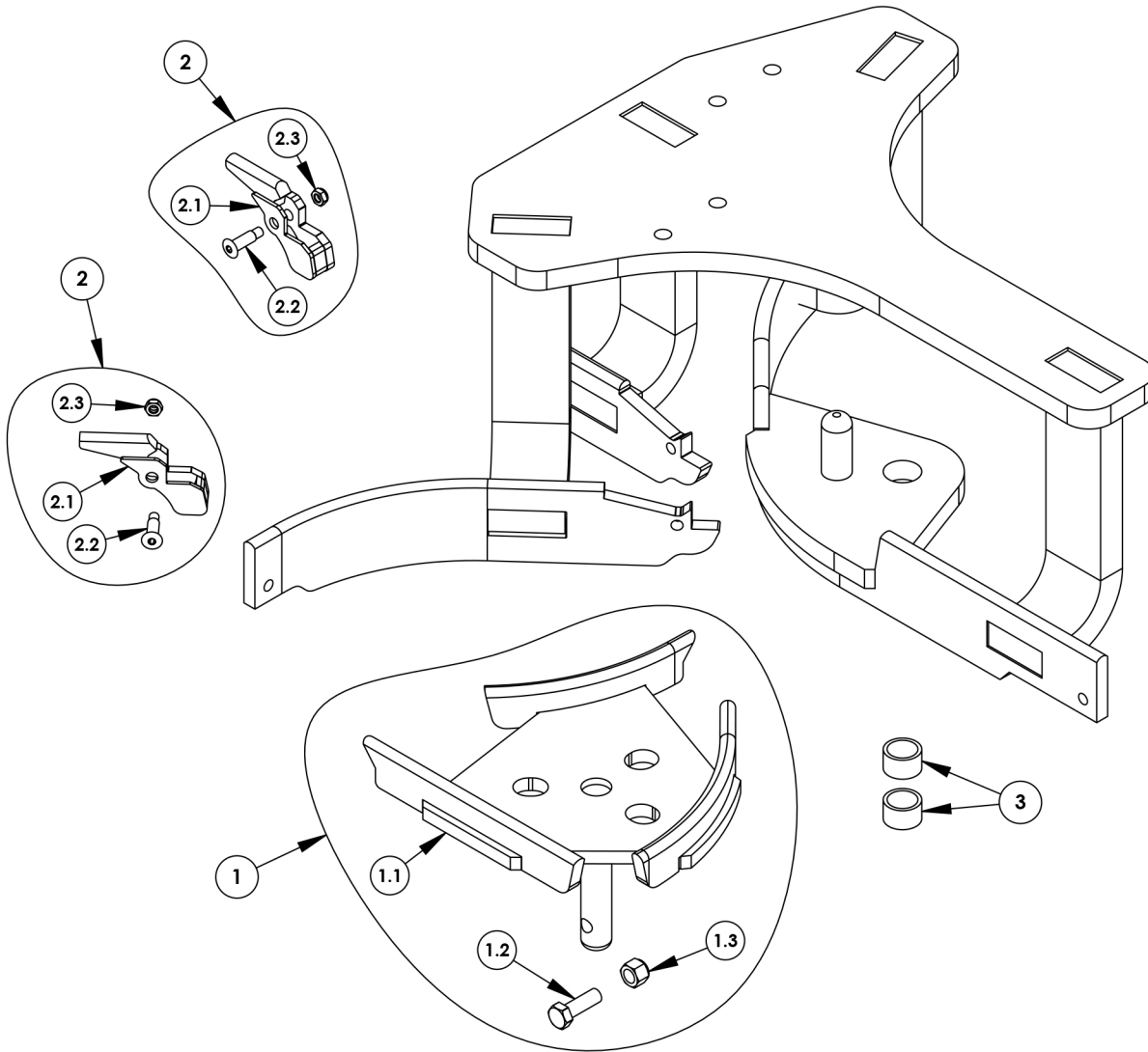
MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

GEAR 4R LEVEL RAIL SWITCH

G4R*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 4R LVL GATE COM KIT	1	1124703	1127694
1.1	GEAR 4R LVL GATE ASSY	1	1123041	1122699
1.2	1/2-13 x 1 1/2" HEX BOLT	2	1114890	1121495
1.3	1/2-13 NYLOCK NUT	2	1122583	1124318

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT LEFT	1	1125016	1112836
2.1	GEAR TROLLEY STOP ASSY LEFT	1	1119904	1125590
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

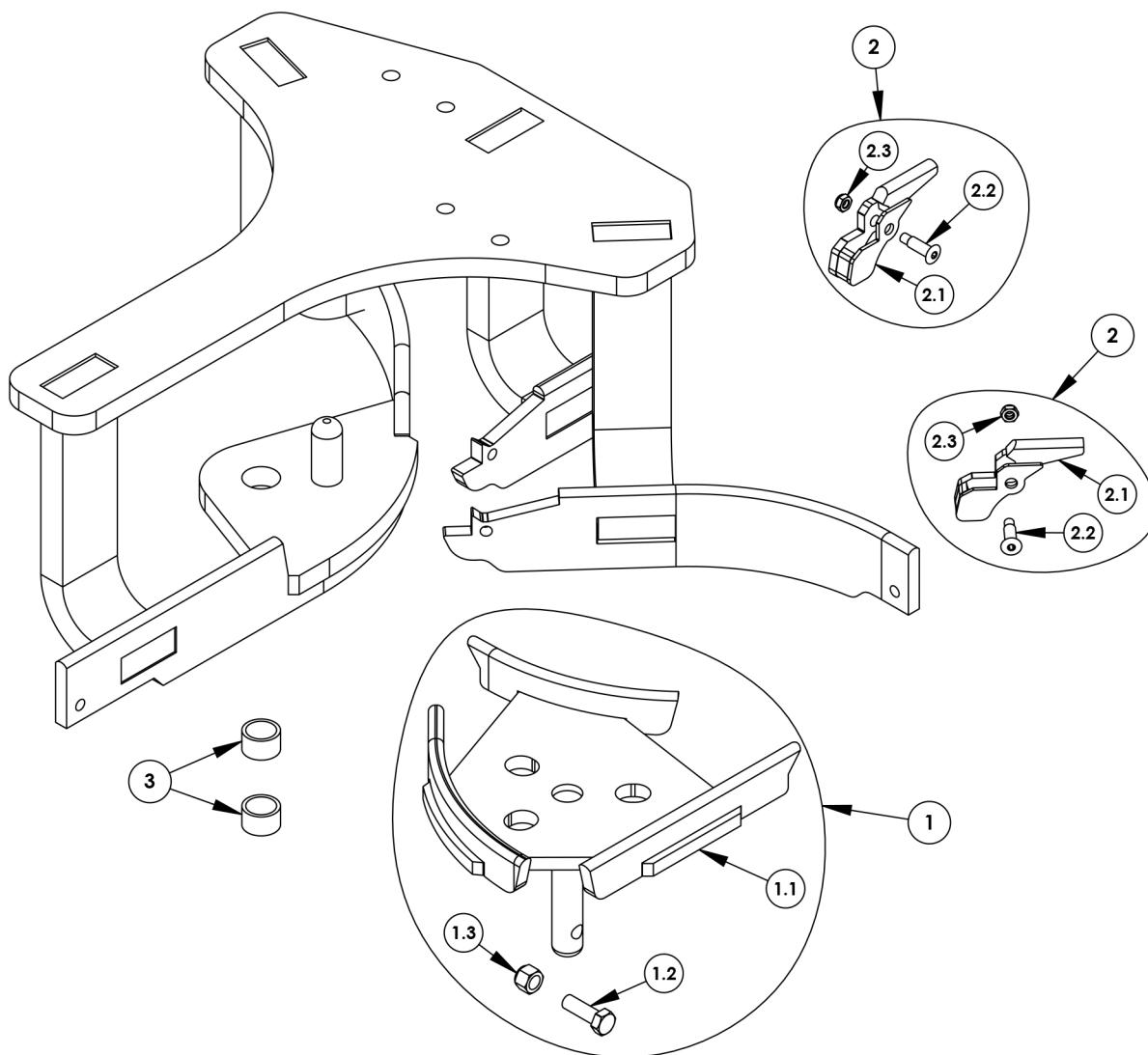
Item No.	Description	QTY	Zinc	Stainless
3	DIVERT BUSHING 2	2	1123456	1123456

HERCULES®

GEAR 4L LEVEL RAIL SWITCH

G4L*L*****

GEAR



Item No.	Description	QTY	Zinc	Stainless
1	GEAR 4L LVL GATE COM KIT	1	1127085	1117921
1.1	GEAR 4L LVL GATE ASSY	1	1116824	1129880
1.2	1/2-13 x 1 1/2" HEX BOLT	2	1114890	1121495
1.3	1/2-13 NYLOCK NUT	2	1122583	1124318

Item No.	Description	QTY	Zinc	Stainless
2	GEAR TROLLEY STOP KIT RIGHT	1	1127009	1120694
2.1	GEAR TROLLEY STOP ASSY RIGHT	1	1124423	1123292
2.2	GEAR TROLLEY STOP PIN 1	1	1126884	1126884
2.3	5/16-21 JAM NY-LOCK NUT	1	1117918	1117918

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT BUSHING 2	2	1123456	1123456

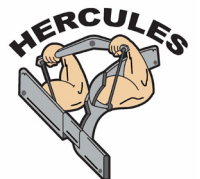


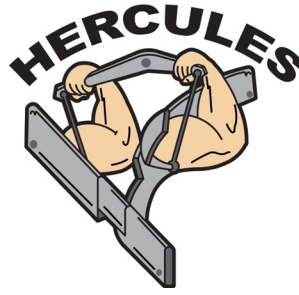
03/03/17

MANUFACTURED BY: **IDFI**.COM
 PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES[®]

NOTES

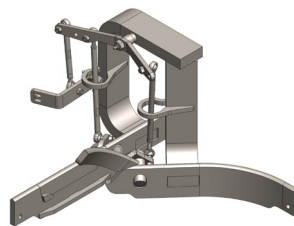




AUTOMATIC SWITCH SECTION

Switch Description	Page	Switch Layout
A1R*L*****	29	
A1R*U*****	30	
A1L*L*****	31	
A1L*U*****	32	
A2R*L*****	33	
A2R*U*****	34	
A2L*L*****	35	
A2L*U*****	36	
A3R*L*****	37	
A3L*L*****	38	
AC1R*L*****	39	
AC1L*L*****	40	

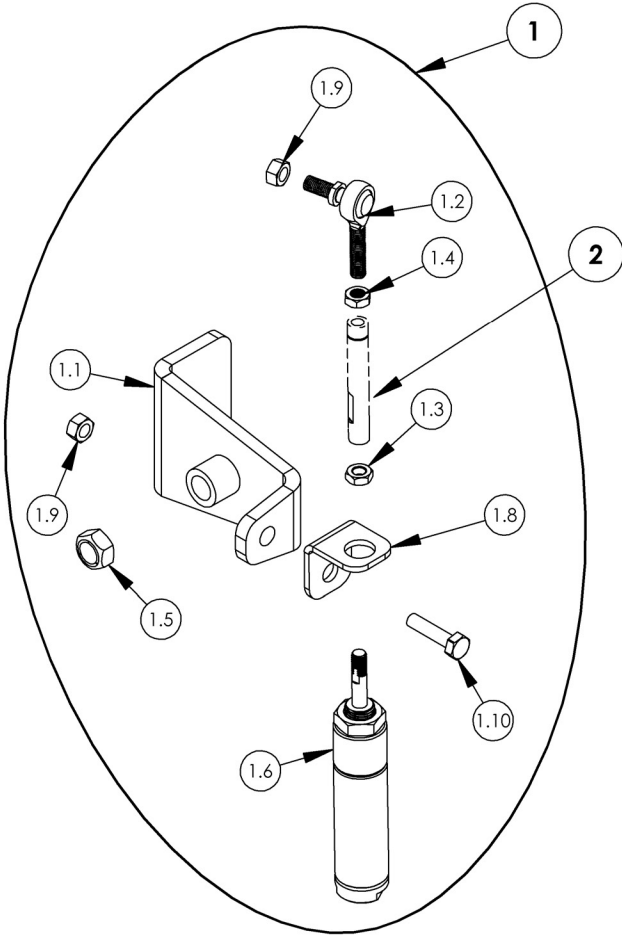
AUTOMATIC



HERCULES®

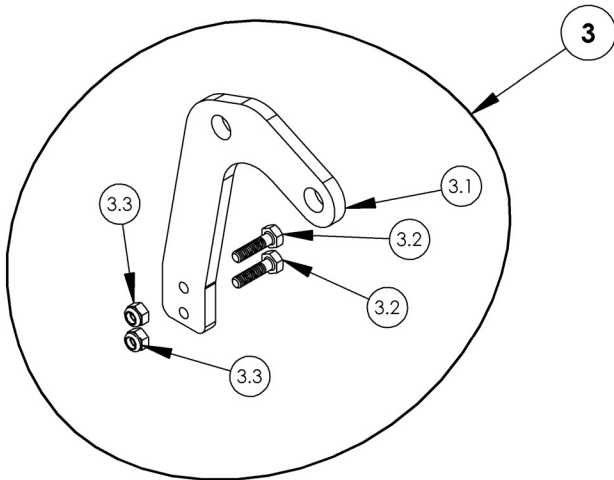
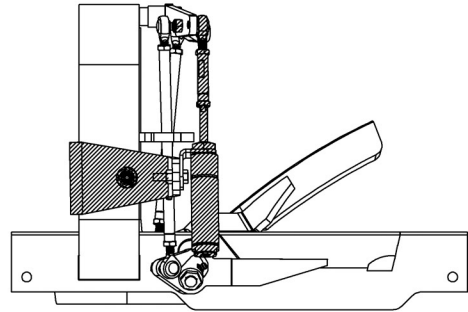
OPTIONS FOR AUTOMATIC SWITCHES

AUTOMATIC

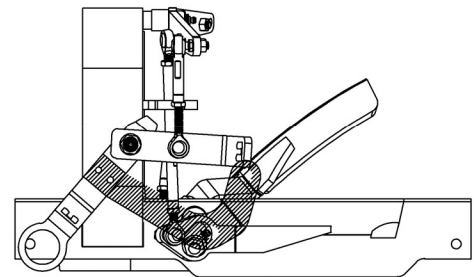


ITEM NO.	Description	QTY.	Stainless
1	AUTOMATIC AIR CYLINDER MOUNT COMPLETE KIT	1	1124185
1.1	AUTOMATIC AIR CYLINDER MOUNT ASSEMBLY	1	1116295
1.2	BALL JOINT ROD END LEFT	1	1112711
1.3	5/16-24 JAM NUT	1	1115681
1.4	5/16-24 JAM NUT LH	1	1129776
1.5	1/2-13 TOP LOCK NUT	1	1112691
1.6	AUTOMATIC SELECTOR ARM AIR CYLINDER 1.0625 BORE X 1.5 IN STROKE	1	1121922
1.7	AUTOMATIC AIR CYLINDER MOUNT 2	1	1119799
1.9	5/16-24 TOP LOCK JAM NUT	2	1125273
1.10	5/16"-18 X 1 1/4" HEX HEAD BOLT	1	1114503

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
ITEM NO.	Description	SEE LAST PAGE
2	SWITCH TURNBUCKLE ROD	1113071



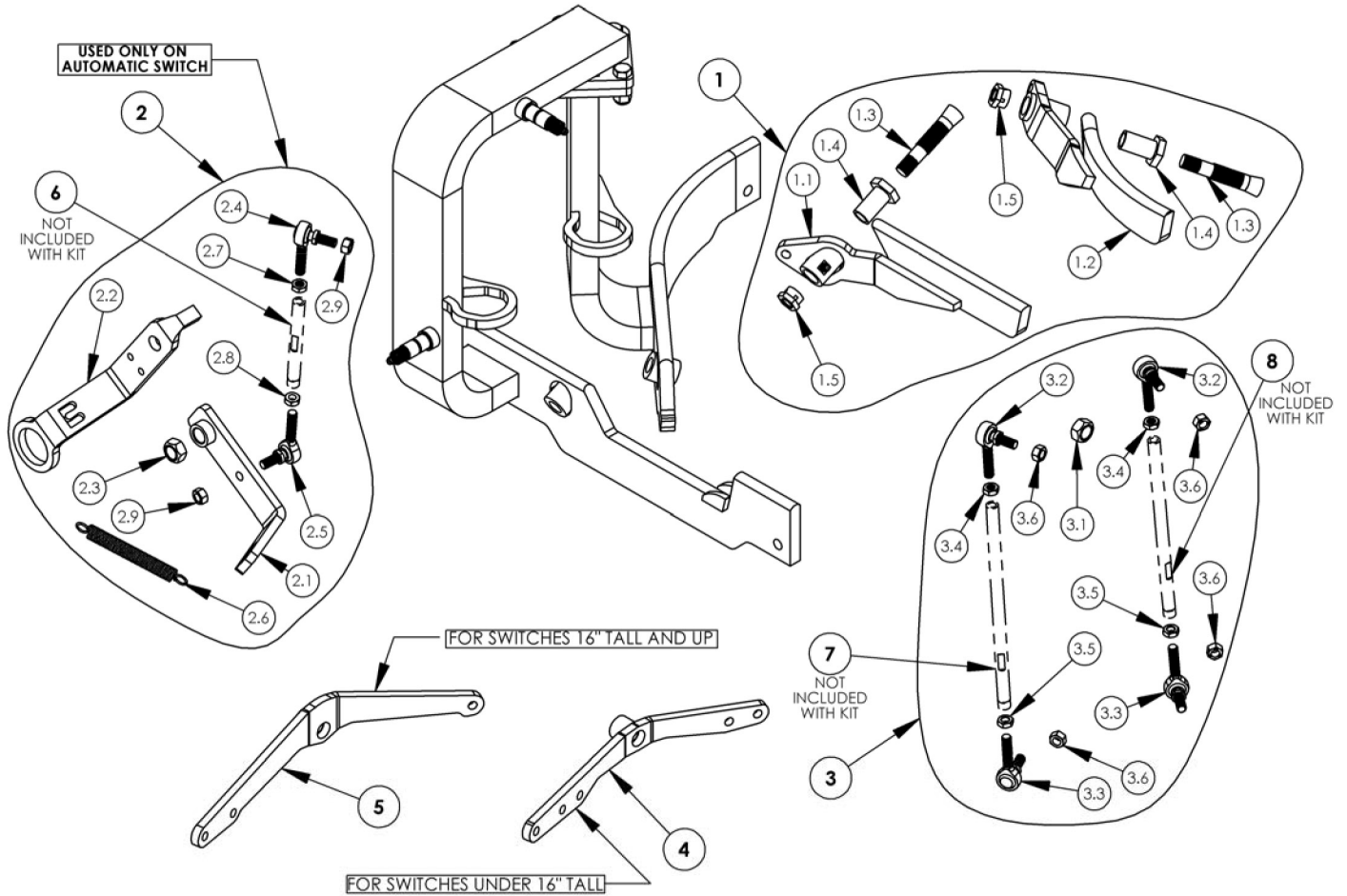
ITEM NO.	Description	QTY.	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM 2 COM KIT	1	1113462	1112109
3.1	AUTOMATIC SELECTOR ARM 2	1	1114046	1123318
3.2	1/4-20 X 1" HEX HEAD BOLT	2	1116092	1120793
3.3	1/4-20 NYLOCK NUT	2	1115658	1121682



HERCULES[®]

AUTOMATIC 1R LEVEL RAIL SWITCH FEEDOUT 1R LEVEL RAIL SWITCH

A1R*L *****
F1R*L *****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1R LVL GATE COM KIT	1	1111322	1114575
1.1	AUTOMATIC 1R LVL STRAIGHT GATE ASSY	1	1112456	1126419
1.2	AUTOMATIC 1R LVL CURVED GATE ASSY	1	1114639	1119931
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC 1 LINKAGE COM KIT	1	1126265	1118858
3.1	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.3	BALL JOINT ROD END LEFT	2	1129416	1112711
3.4	5/16-24 JAM NUT	2	1112039	1115681
3.5	5/16-24 JAM NUT LH	2	1126524	1129776
3.6	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

Item No.	Description	QTY	Zinc	Stainless
4	AUTOMATIC 1R ROCKER ARM ASSY	1	1122472	1129944
5	AUTOMATIC 1R WIDE ROCKER ARM ASSY	1	1127972	1117303

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



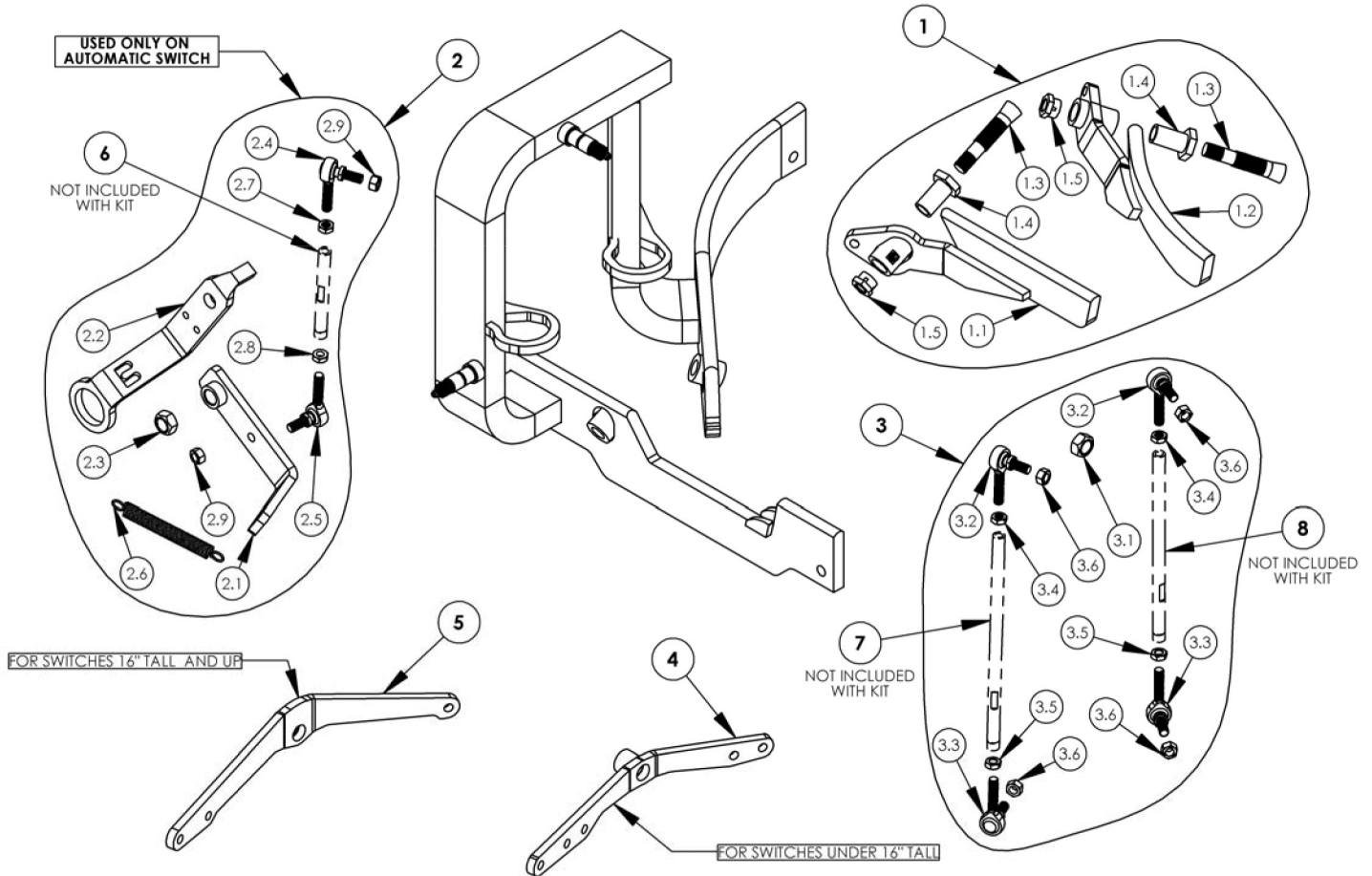
HERCULES®

AUTOMATIC 1R CEU RAIL SWITCH FEEDOUT 1R CEU RAIL SWITCH

A1R*U*****

F1R*U*****

AUTOMATIC



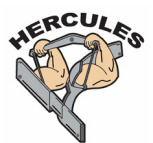
Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1R CEU GATE COM KIT	1	1115538	1127038
1.1	AUTOMATIC 1R LVL STRAIGHT GATE ASSY	1	1112456	1126419
1.2	AUTOMATIC 1R CEU CURVED GATE ASSY	1	1114083	1111992
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC 1 LINKAGE COM KIT	1	1126265	1118858
3.1	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.3	BALL JOINT ROD END LEFT	2	1129416	1112711
3.4	5/16-24 JAM NUT	2	1112039	1115681
3.5	5/16-24 JAM NUT LH	2	1126524	1129776
3.6	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

Item No.	Description	QTY	Zinc	Stainless
4	AUTOMATIC 1R ROCKER ARM ASSY	1	1122472	1129944
5	AUTOMATIC 1R WIDE ROCKER ARM ASSY	1	1127972	1117303

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

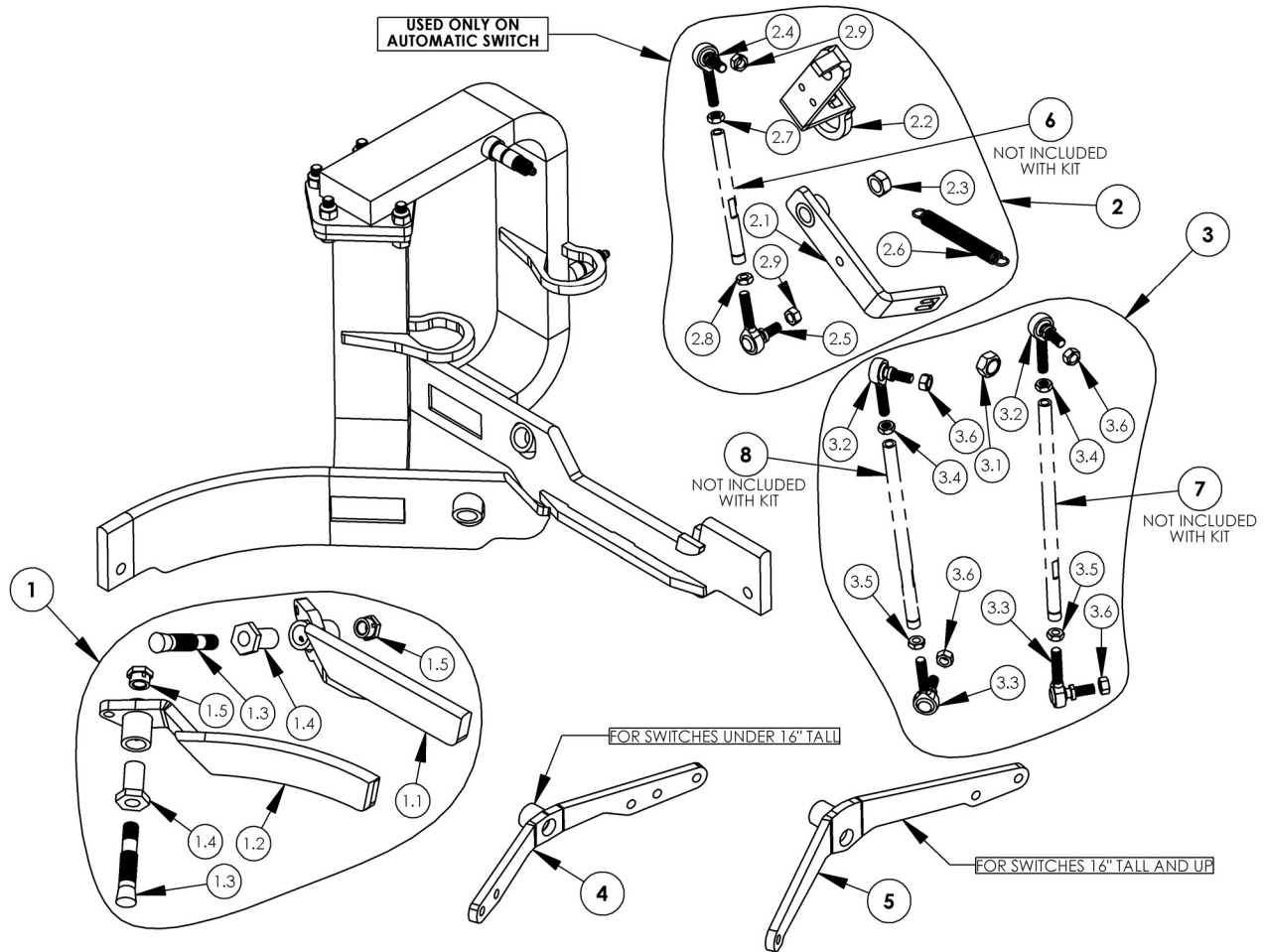


HERCULES®

**AUTOMATIC 1L LEVEL RAIL SWITCH
FEEDOUT 1L LEVEL RAIL SWITCH**

A1L*L*****

F1L*L*****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1L LVL GATE COM KIT	1	1123531	1115587
1.1	AUTOMATIC 1L LVL STRAIGHT GATE ASSY	1	1111453	1121304
1.2	AUTOMATIC 1L LVL CURVED GATE ASSY	1	1123517	1114771
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC 1 LINKAGE COM KIT	1	1126265	1118858
3.1	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.3	BALL JOINT ROD END LEFT	2	1129416	1112711
3.4	5/16-24 JAM NUT	2	1112039	1115681
3.5	5/16-24 JAM NUT LH	2	1126524	1129776
3.6	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

Item No.	Description	QTY	Zinc	Stainless
4	AUTOMATIC 1L ROCKER ARM ASSY	1	1119178	1111967
5	AUTOMATIC 1L WIDE ROCKER ARM ASSY	1	1125346	1111946

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



02/27/17

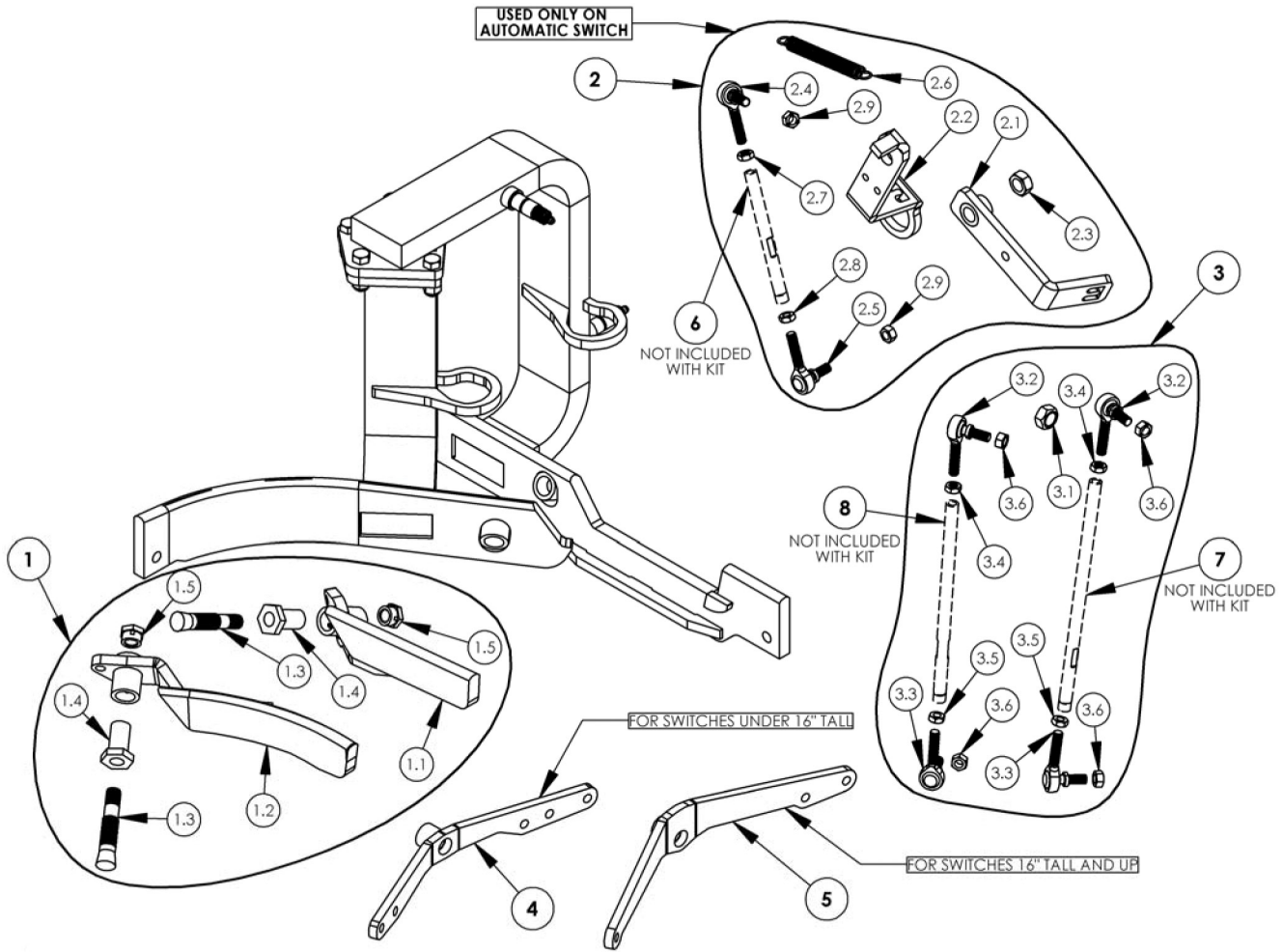
MANUFACTURED BY: **IDFI**.COM
PHONE: 1-877-873-5858 FAX: 1-712-224-5604

HERCULES®

AUTOMATIC 1L CEU RAIL SWITCH FEEDOUT 1L CEU RAIL SWITCH

A1L*U*****
F1L*U*****

AUTOMATIC



Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1L CEU GATE COM KIT	1	1113257	1128111
1.1	AUTOMATIC 1L LVL STRAIGHT GATE ASSY	1	1115496	1121304
1.2	AUTOMATIC 1L CEU CURVED GATE ASSY	1	1115496	1115645
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC 1 LINKAGE COM KIT	1	1126265	1118858
3.1	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.3	BALL JOINT ROD END LEFT	2	1129416	1112711
3.4	5/16-24 JAM NUT	2	1112039	1115681
3.5	5/16-24 JAM NUT LH	2	1126524	1129776
3.6	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

Item No.	Description	QTY	Zinc	Stainless
4	AUTOMATIC 1L ROCKER ARM ASSY	1	1119178	1111967
5	AUTOMATIC 1L WIDE ROCKER ARM ASSY	1	1125346	1111946

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

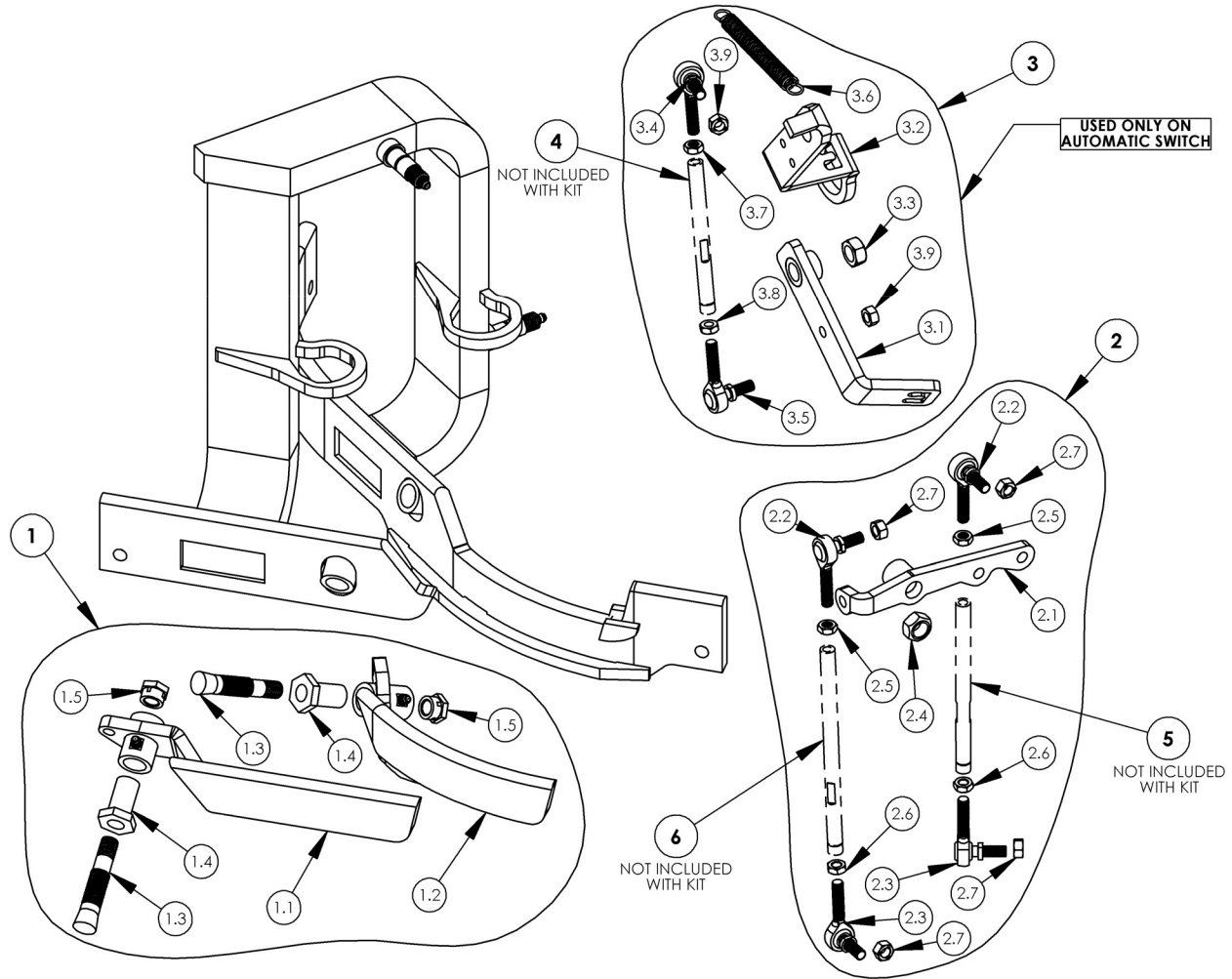


HERCULES®

AUTOMATIC 2R LEVEL RAIL SWITCH FEEDOUT 2R LEVEL RAIL SWITCH

A2R*L *****

F2R*L *****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 2R LVL GATE COM KIT	1	1123617	1128658
1.1	AUTOMATIC 2R LVL STRAIGHT GATE ASSY	1	1126463	1113107
1.2	AUTOMATIC 2R LVL CURVED GATE ASSY	1	1120679	1112034
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 2R LVL ROCKER ARM COM KIT	1	1122978	1127863
2.1	AUTOMATIC 2R ROCKER ARM ASSY 1	1	1123900	1119607
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



02/27/17

MANUFACTURED BY: **IDFI**.COM
PHONE: 1-877-873-5858 FAX: 1-712-224-5604

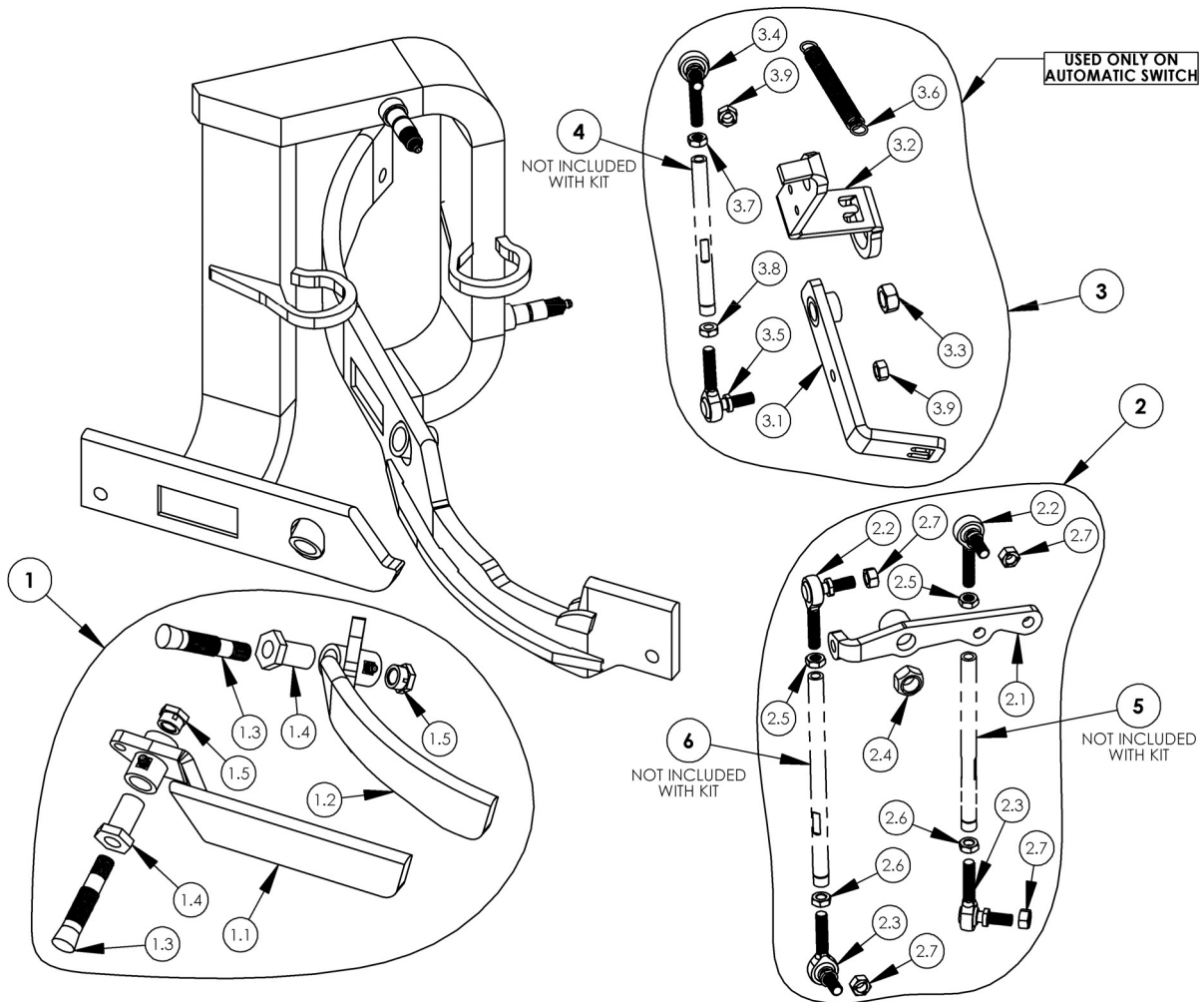
HERCULES®

AUTOMATIC 2R CEU RAIL SWITCH FEEDOUT 2R CEU RAIL SWITCH

A2R*U*****

F2R*U*****

AUTOMATIC



Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 2R CEU GATE COM KIT	1	1120187	1112737
1.1	AUTOMATIC 2R LVL STRAIGHT GATE ASSY	1	1126463	1113107
1.2	AUTOMATIC 2R CEU CURVED GATE ASSY	1	1124558	1116424
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 2R ROCKER ARM COM KIT	1	1122978	1127863
2.1	AUTOMATIC 2R ROCKER ARM ASSY 1	1	1123900	1119607
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

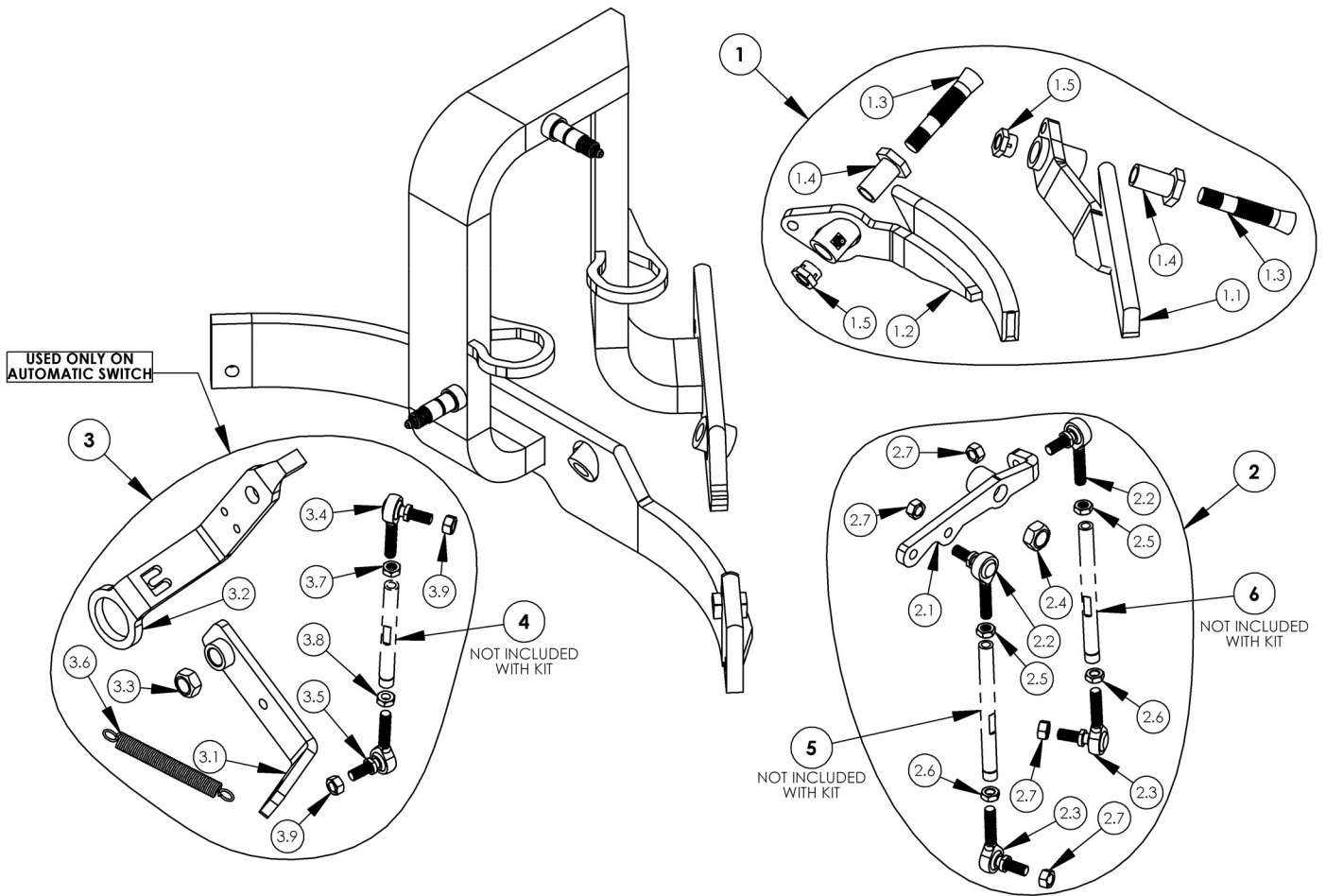


HERCULES®

AUTOMATIC 2L LEVEL RAIL SWITCH FEEDOUT 2L LEVEL RAIL SWITCH

A2L*L*****

F2L*L*****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 2L LVL GATE COM KIT	1	1122749	1115111
1.1	AUTOMATIC 2L LVL STRAIGHT GATE ASSY	1	1119184	1112466
1.2	AUTOMATIC 2L LVL CURVED GATE ASSY	1	1129823	1126499
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 2L LVL ROCKER ARM COM KIT	1	1124872	1111462
2.1	AUTOMATIC 2L ROCKER ARM ASSY 1	1	1127130	1118630
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



02/27/17

MANUFACTURED BY: **IDFI**.COM
PHONE: 1-877-873-5858 FAX: 1-712-224-5604

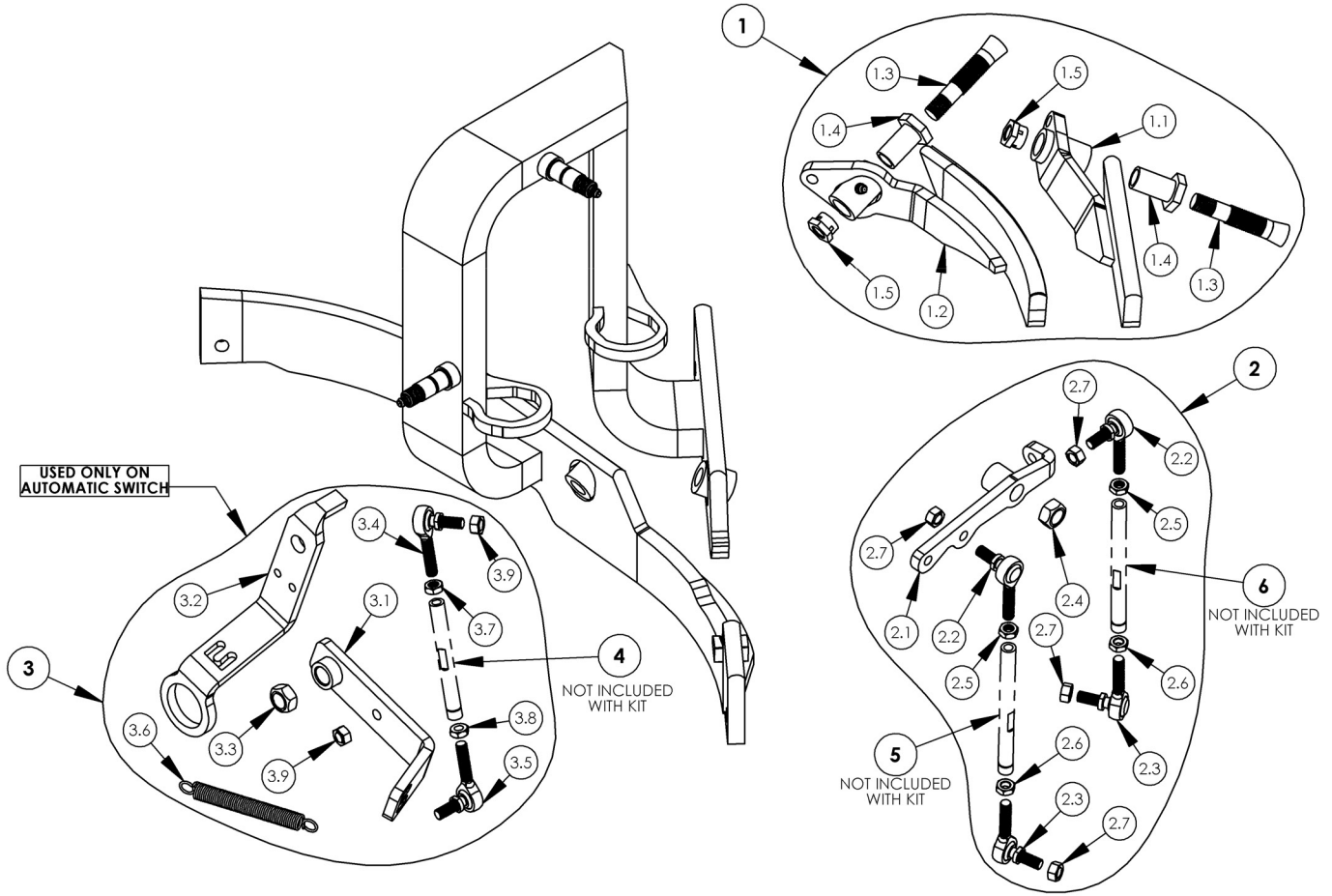
HERCULES®

AUTOMATIC 2L CEU RAIL SWITCH FEEDOUT 2L CEU RAIL SWITCH

A2L*U*****

F2L*U*****

AUTOMATIC



Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 2L CEU GATE COM KIT	1	1116942	1116709
1.1	AUTOMATIC 2L LVL STRAIGHT GATE ASSY	1	1119184	1112466
1.2	AUTOMATIC 2L CEU CURVED GATE ASSY	1	1114809	1112074
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 2L LVL ROCKER ARM COM KIT	1	1124872	1111462
2.1	AUTOMATIC 2L ROCKER ARM ASSY 1	1	1127130	1118630
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

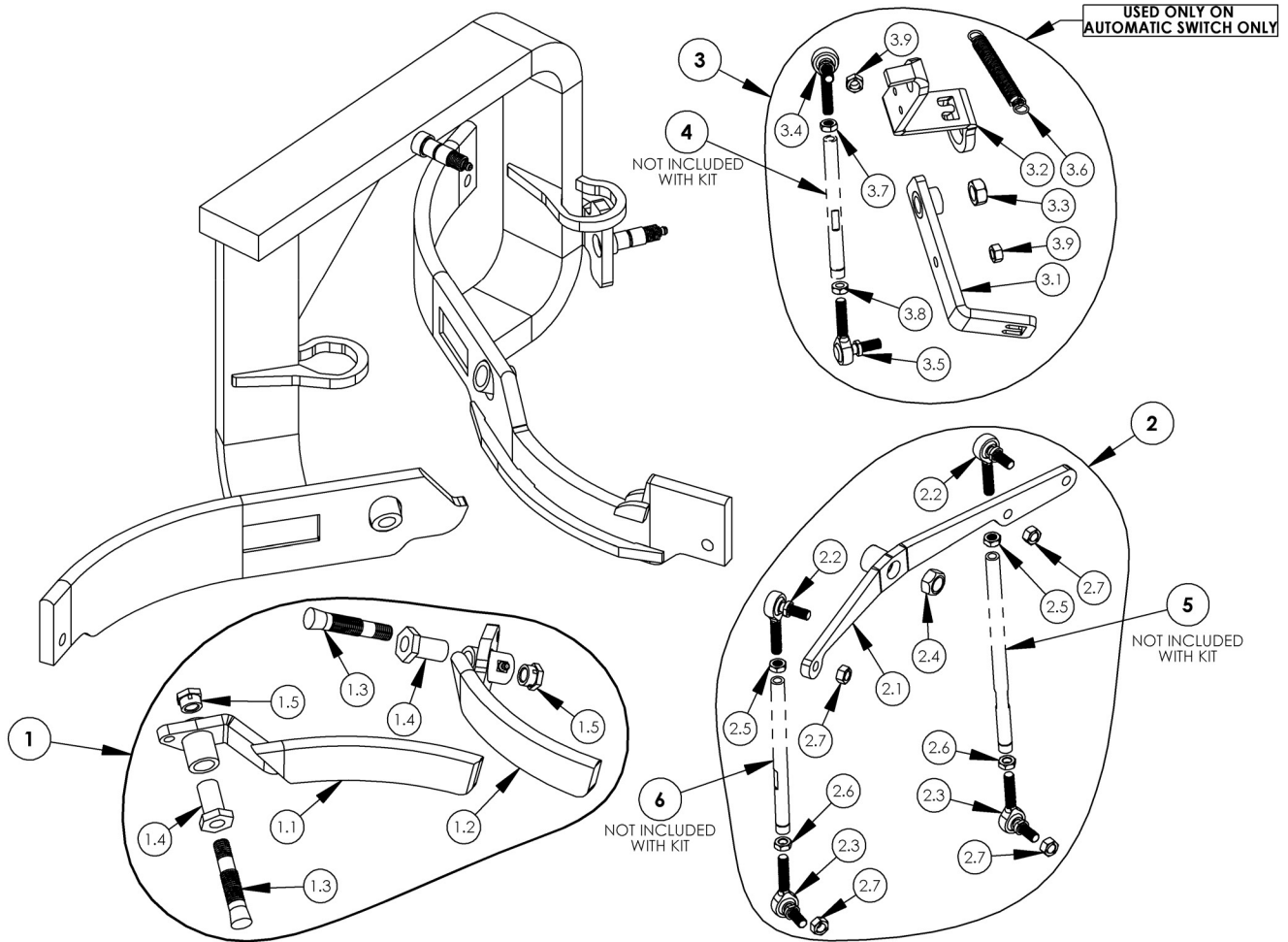


HERCULES[®]

AUTOMATIC 3R LEVEL RAIL SWITCH

FEEDOUT 3R LEVEL RAIL SWITCH

A3R*L *****
F3R*L *****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 3R LVL GATE COM KIT	1	1119415	1119174
1.1	AUTOMATIC 1L LVL CURVED GATE ASSY	1	1123517	1114771
1.2	AUTOMATIC 2R LVL CURVED GATE ASSY	1	1120679	1112034
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 3R LVL ROCKER ARM COM KIT	1	1128631	1112776
2.1	AUTOMATIC 3R ROCKER ARM ASSY 1	1	1125819	1118228
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

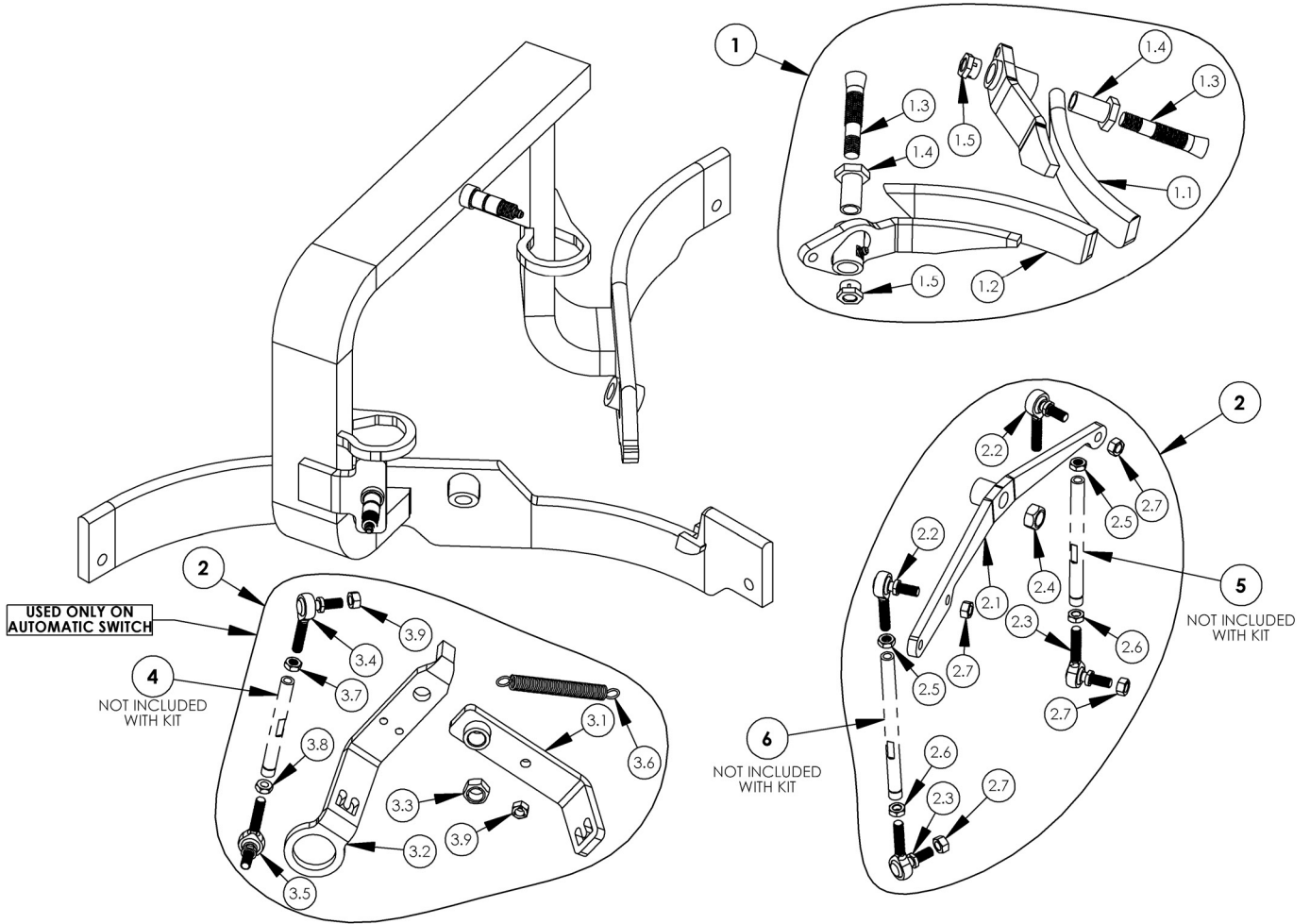


HERCULES[®]

AUTOMATIC 3L LEVEL RAIL SWITCH FEEDOUT 3L LEVEL RAIL SWITCH

A3L * L *****
F3L * L *****

AUTOMATIC

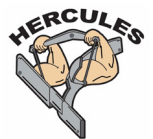


Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 3L LVL GATE COM KIT	1	1121801	1122351
1.1	AUTOMATIC 1R LVL CURVED GATE ASSY	1	1114639	1119931
1.2	AUTOMATIC 2L LVL CURVED GATE ASSY	1	1129823	1126499
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC 3L LVL ROCKER ARM COM KIT	1	1115135	1128627
2.1	AUTOMATIC 3L ROCKER ARM ASSY 1	1	1129072	1129539
2.2	BALL JOINT ROD END RIGHT	2	1120508	1128183
2.3	BALL JOINT ROD END LEFT	2	1129416	1112711
2.4	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.5	5/16-24 JAM NUT	2	1112039	1115681
2.6	5/16-24 JAM NUT LH	2	1126524	1129776
2.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
3.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
3.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
3.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
3.5	BALL JOINT ROD END LEFT	1	1129416	1112711
3.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
3.7	5/16-24 JAM NUT	1	1112039	1115681
3.8	5/16-24 JAM NUT LH	1	1126524	1129776
3.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

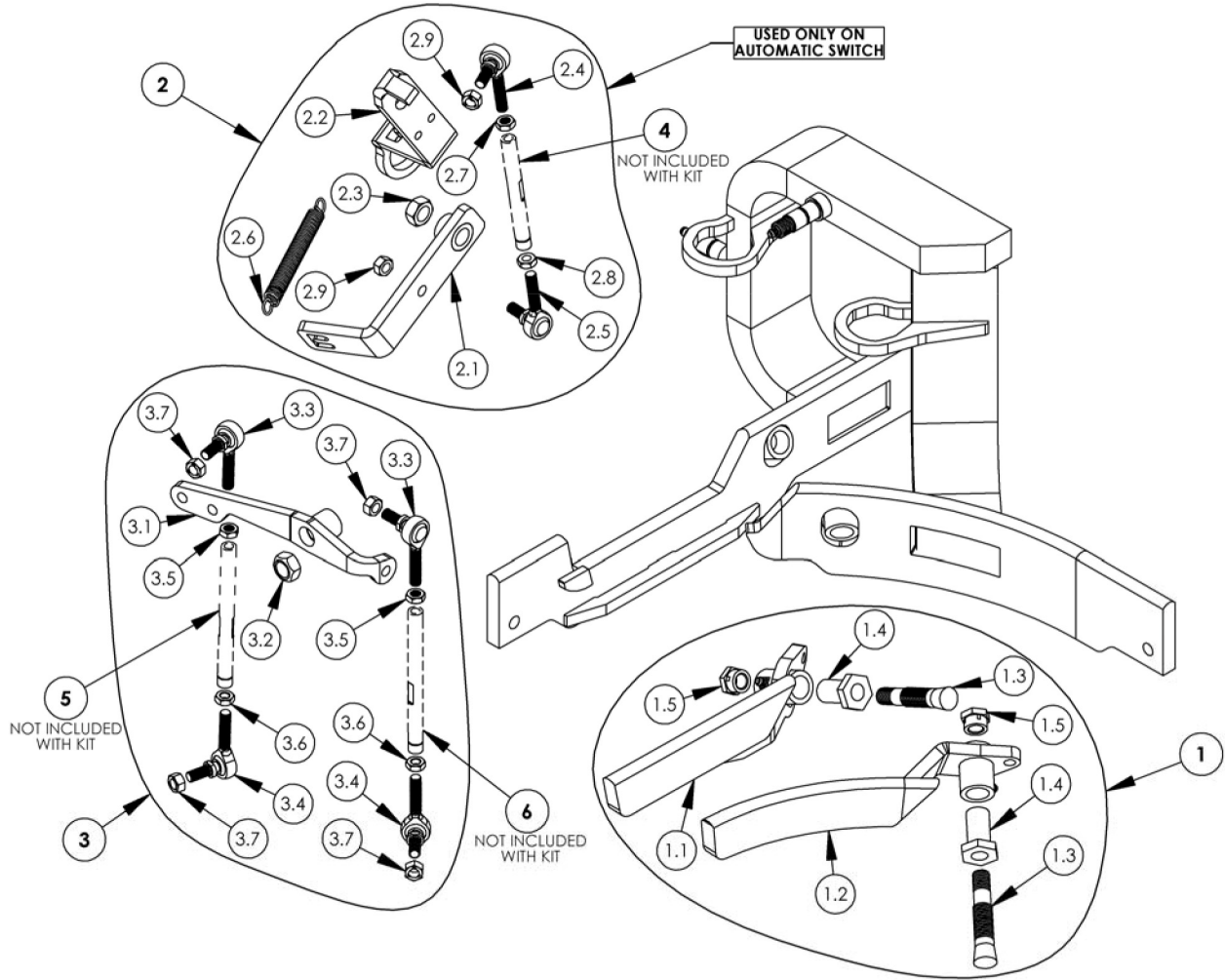
SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
5	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



HERCULES®

AUTOMATIC C1R LEVEL RAIL SWITCH FEEDOUT C1R LEVEL RAIL SWITCH

AC1R*L *****
FC1R*L *****



AUTOMATIC

Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1R LVL GATE COM KIT	1	1111322	1114575
1.1	AUTOMATIC 1R LVL STRAIGHT GATE ASSY	1	1112456	1126419
1.2	AUTOMATIC 1R LVL CURVED GATE ASSY	1	1114639	1119931
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC C1R LVL CORNER SWITCH ROCKER ARM 12 INCH RADIUS COM KIT	1	1127593	1122368
3.1	AUTOMATIC C1R LVL CORNER SWITCH ROCKER ARM 12INCH RADIUS	1	1124225	1126596
3.2	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.3	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.4	BALL JOINT ROD END LEFT	2	1129416	1112711
3.5	5/16-24 JAM NUT	2	1112039	1115681
3.6	5/16-24 JAM NUT LH	2	1126524	1129776
3.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"



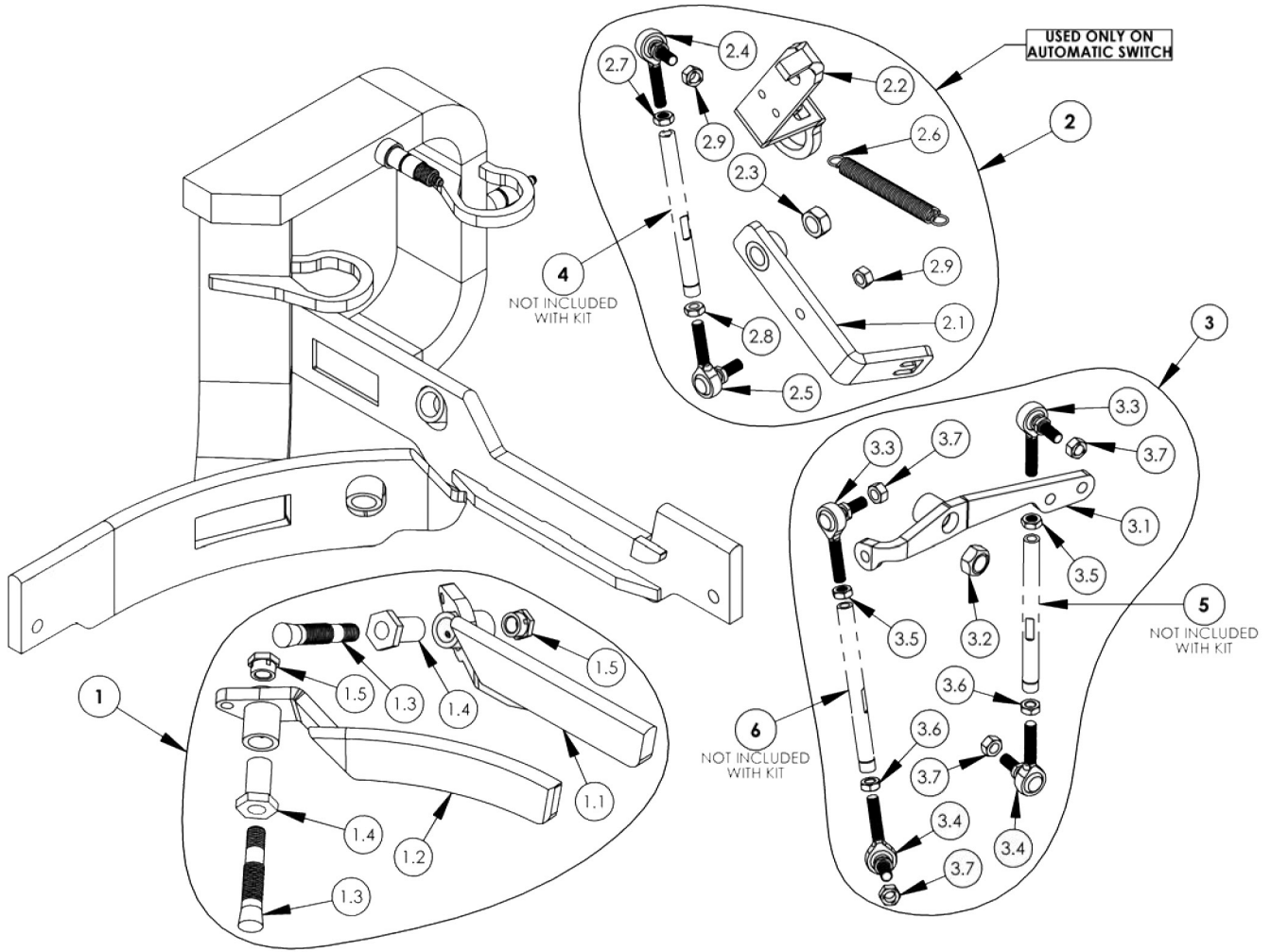
HERCULES[®]

AUTOMATIC C1L LEVEL RAIL SWITCH

FEEDOUT C1L LEVEL RAIL SWITCH

AC1L*L*****
FC1L*L*****

AUTOMATIC



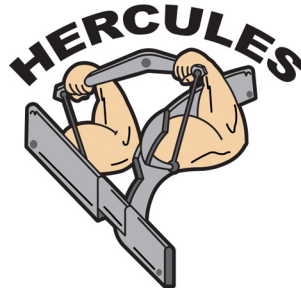
Item No.	Description	QTY	Zinc	Stainless
1	AUTOMATIC 1L LVL GATE COM KIT	1	1123531	1115587
1.1	AUTOMATIC 1L LVL STRAIGHT GATE ASSY	1	1111453	1121304
1.2	AUTOMATIC 1L LVL CURVED GATE ASSY	1	1123517	1114771
1.3	AUTOMATIC PIVOT PIN 1	2	1119153	1119153
1.4	AUTOMATIC HEX BUSHING 1	2	1112646	1112646
1.5	AUTOMATIC HEX BUSHING 2	2	1124514	1124514

Item No.	Description	QTY	Zinc	Stainless
3	AUTOMATIC C1L LVL CORNER SWITCH ROCKER ARM 12 INCH RADIUS COM KIT	1	1117746	1129003
3.1	AUTOMATIC C1L LVL CORNER SWITCH ROCKER ARM 12 INCH RADIUS	1	1117799	1117743
3.2	1/2-13 TOP LOCK NUT	1	1123390	1112691
3.3	BALL JOINT ROD END RIGHT	2	1120508	1128183
3.4	BALL JOINT ROD END LEFT	2	1129416	1112711
3.5	5/16-24 JAM NUT	2	1112039	1115681
3.6	5/16-24 JAM NUT LH	2	1126524	1129776
3.7	5/16-24 TOP LOCK JAM NUT	4	1128868	1124685

USED ON AUTOMATIC SWITCH ONLY				
Item No.	Description	QTY	Zinc	Stainless
2	AUTOMATIC SELECTOR ARM COM KIT	1	1128339	1123650
2.1	AUTOMATIC LEVER ASSY 1	1	1125138	1117970
2.2	AUTOMATIC SELECTOR ARM 1	1	1116261	1125869
2.3	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.4	BALL JOINT ROD END RIGHT	1	1120508	1128183
2.5	BALL JOINT ROD END LEFT	1	1129416	1112711
2.6	AUTOMATIC EXTENSION SPRING	1	1114987	1127722
2.7	5/16-24 JAM NUT	1	1112039	1115681
2.8	5/16-24 JAM NUT LH	1	1126524	1129776
2.9	5/16-24 TOP LOCK JAM NUT	2	1128868	1124685

SWITCH TURNBUCKLE ROD NOT INCLUDED IN KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
6	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
7	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 4"
8	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

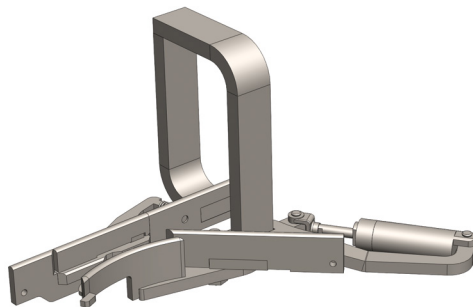




DIVERT SWITCH SECTION

Switch Description	Page	Switch Layout
D1R*L*****	42	
D1R*D*****	43	
D1R*U*****	44	
D1L*L*****	45	
D1L*D*****	46	
D1L*U*****	47	
D2R*L*****	48	
D2R*D*****	49	
D2R*U*****	50	
D2L*L*****	51	
D2L*D*****	52	
D2L*U*****	53	

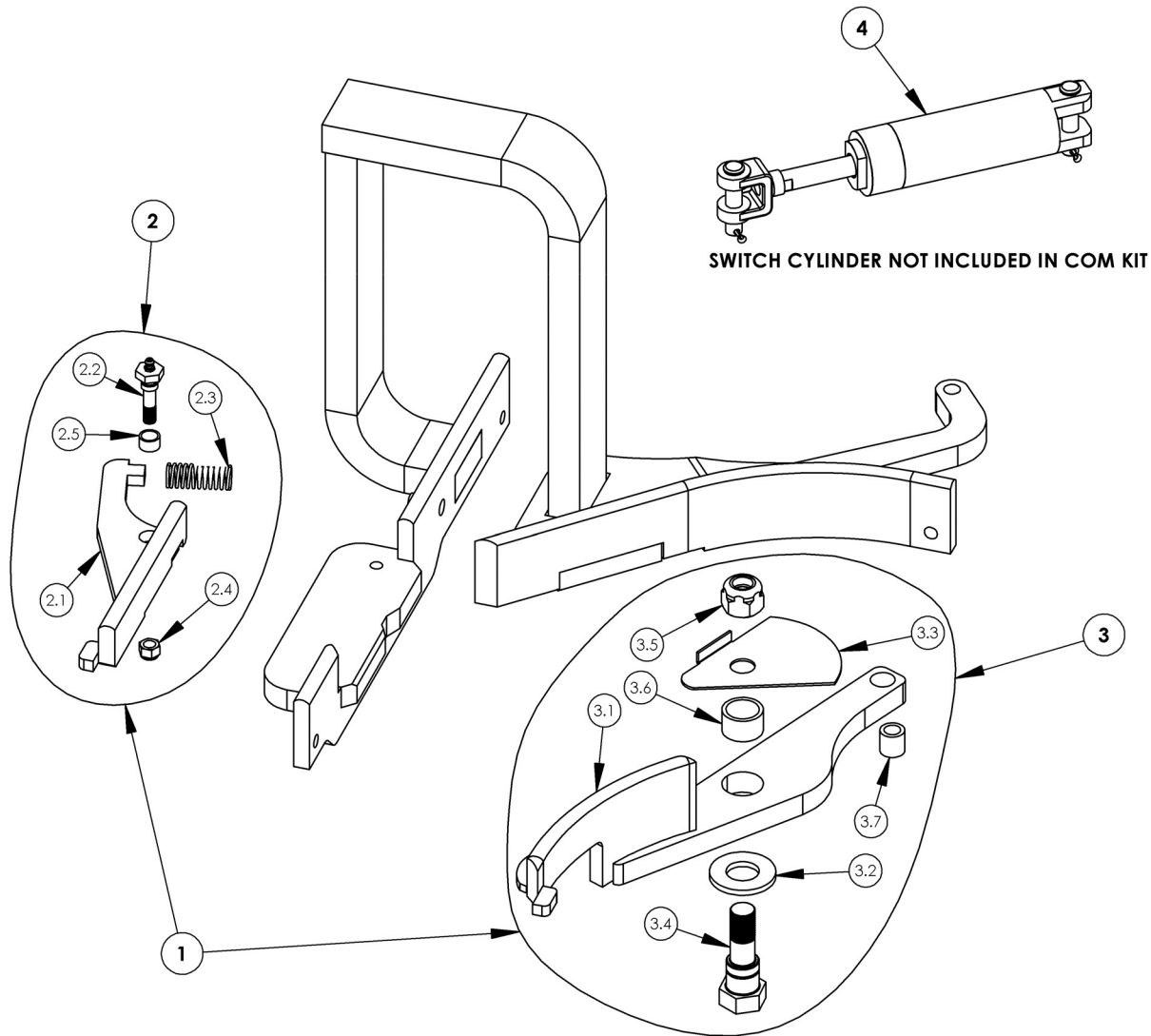
DIVERT



HERCULES®

DIVERT 1R LEVEL RAIL SWITCH

D1R*L*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1R LVL COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1116489	1123404

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1R LVL STRAIGHT GATE KIT	1	1116289	1125513
2.1	DIVERT 1R STRAIGHT GATE ASSY	1	1121904	1122813
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

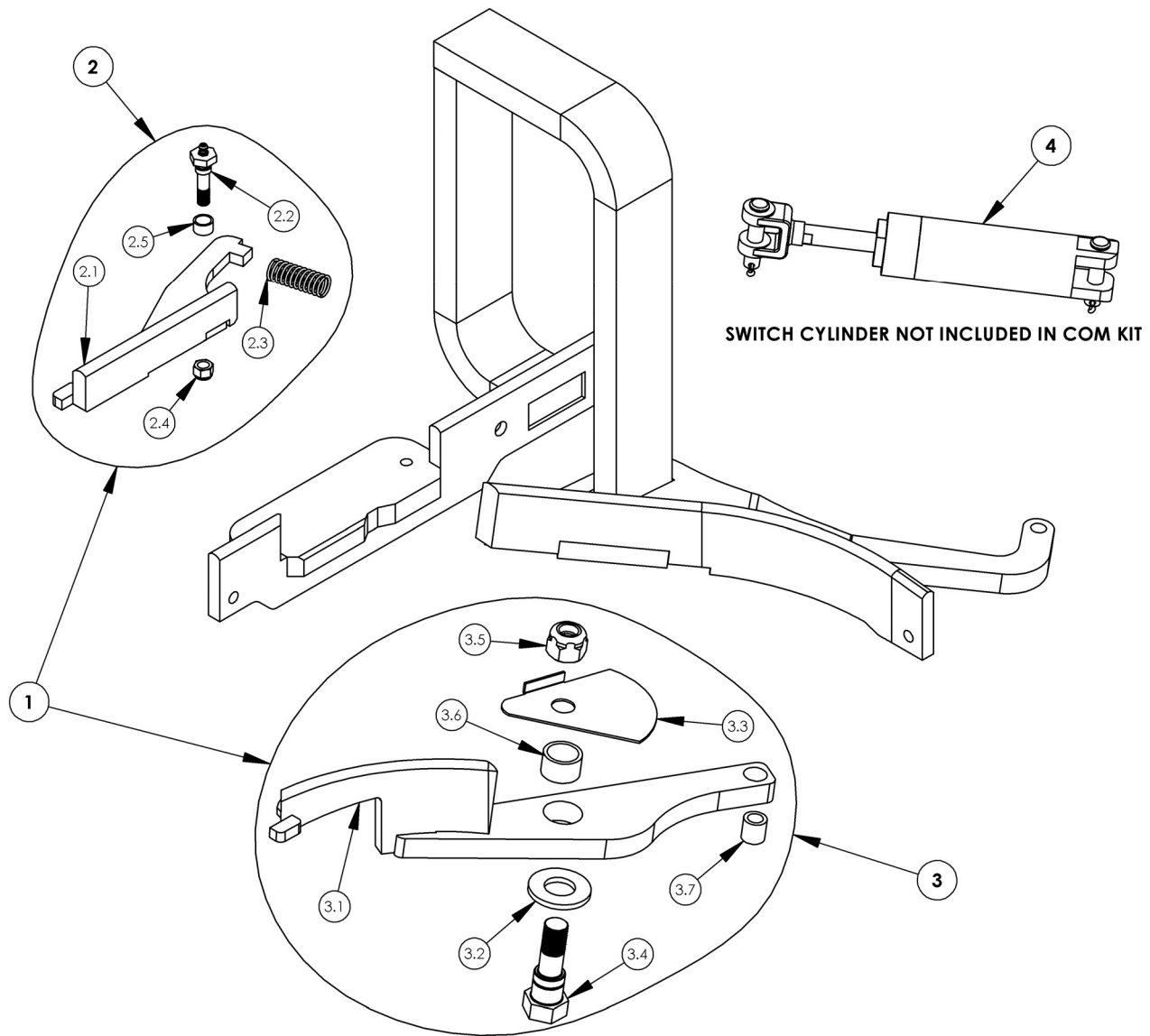
Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1R LVL CURVED GATE KIT	1	1114442	1119258
3.1	DIVERT 1R LVL CURVED GATE ASSY	1	1122518	1112142
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1R SPACER WASHER	1	1113255	1113255
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

HERCULES®

DIVERT 1R CED RAIL SWITCH

D1R*D*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1R CED COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1116189	1111529

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1R LVL STRAIGHT GATE KIT	1	1116289	1125513
2.1	DIVERT 1R STRAIGHT GATE ASSY	1	1121904	1122813
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1R CED CURVED GATE KIT	1	1125701	1117101
3.1	DIVERT 1R CED CURVED GATE ASSY	1	1128141	1127676
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1R SPACER WASHER	1	1113255	1113255
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

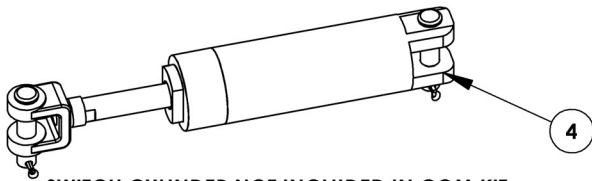
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



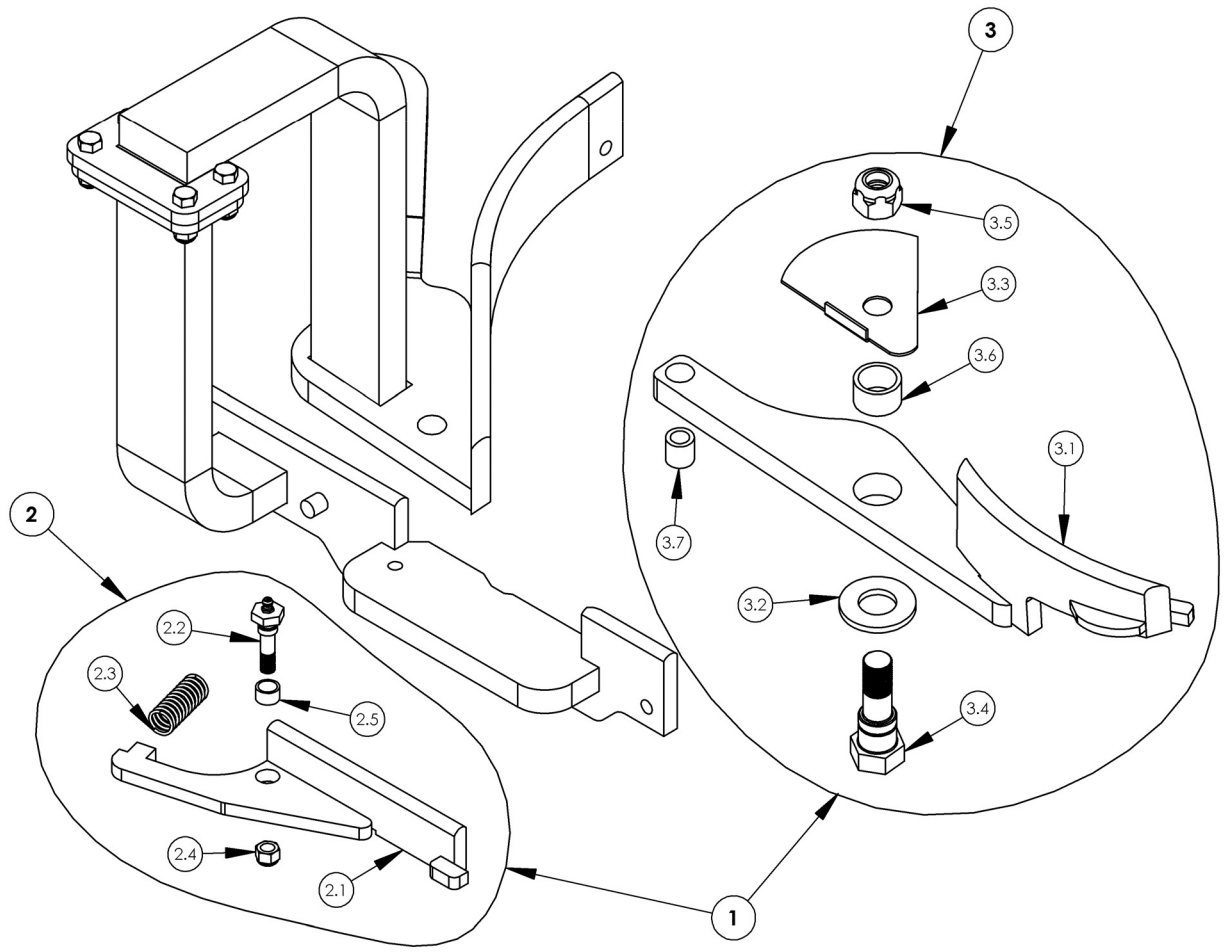
HERCULES®

DIVERT 1R CEU RAIL SWITCH

D1R*U*****



SWITCH CYLINDER NOT INCLUDED IN COM KIT



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1R CEU COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1125664	1125752

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1R LVL STRAIGHT GATE KIT	1	1116289	1125513
2.1	DIVERT 1R STRAIGHT GATE ASSY	1	1121904	1122813
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1R CEU CURVED GATE KIT	1	1121935	1120764
3.1	DIVERT 1R CEU CURVED GATE ASSY	1	1129298	1125177
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1R SPACER WASHER	1	1113255	1113255
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

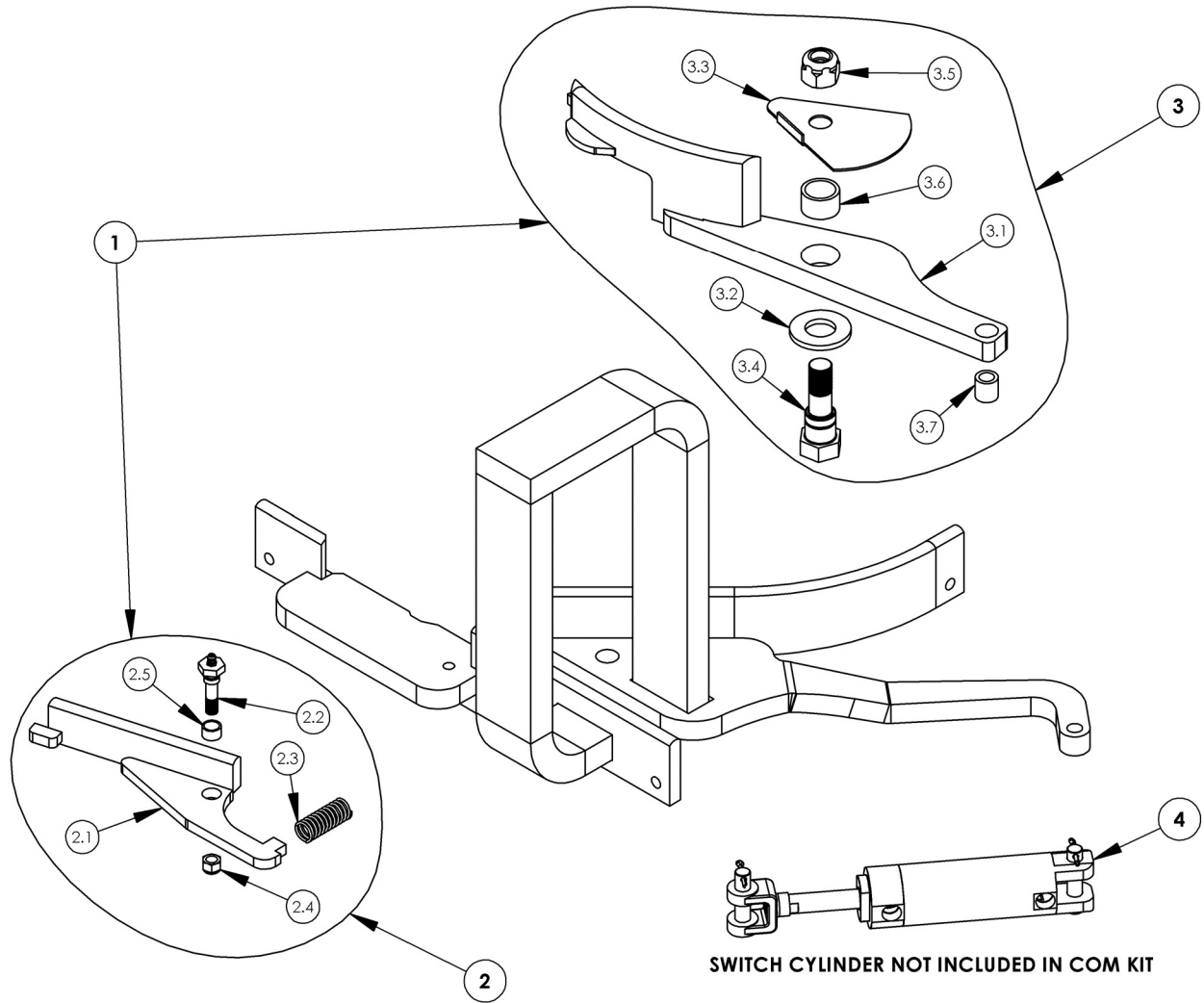
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



HERCULES®

DIVERT 1L LEVEL RAIL SWITCH

D1L*L*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1L LVL COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1128420	1117840

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1L LVL CURVED GATE KIT	1	1121103	1118208
3.1	DIVERT 1L LVL CURVED GATE ASSY	1	1112407	1111195
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1L SPACER WASHER	1	1129878	1129878
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1L LVL STRAIGHT GATE KIT	1	1120790	1127990
2.1	DIVERT 1L STRAIGHT GATE ASSY	1	1119681	1119346
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

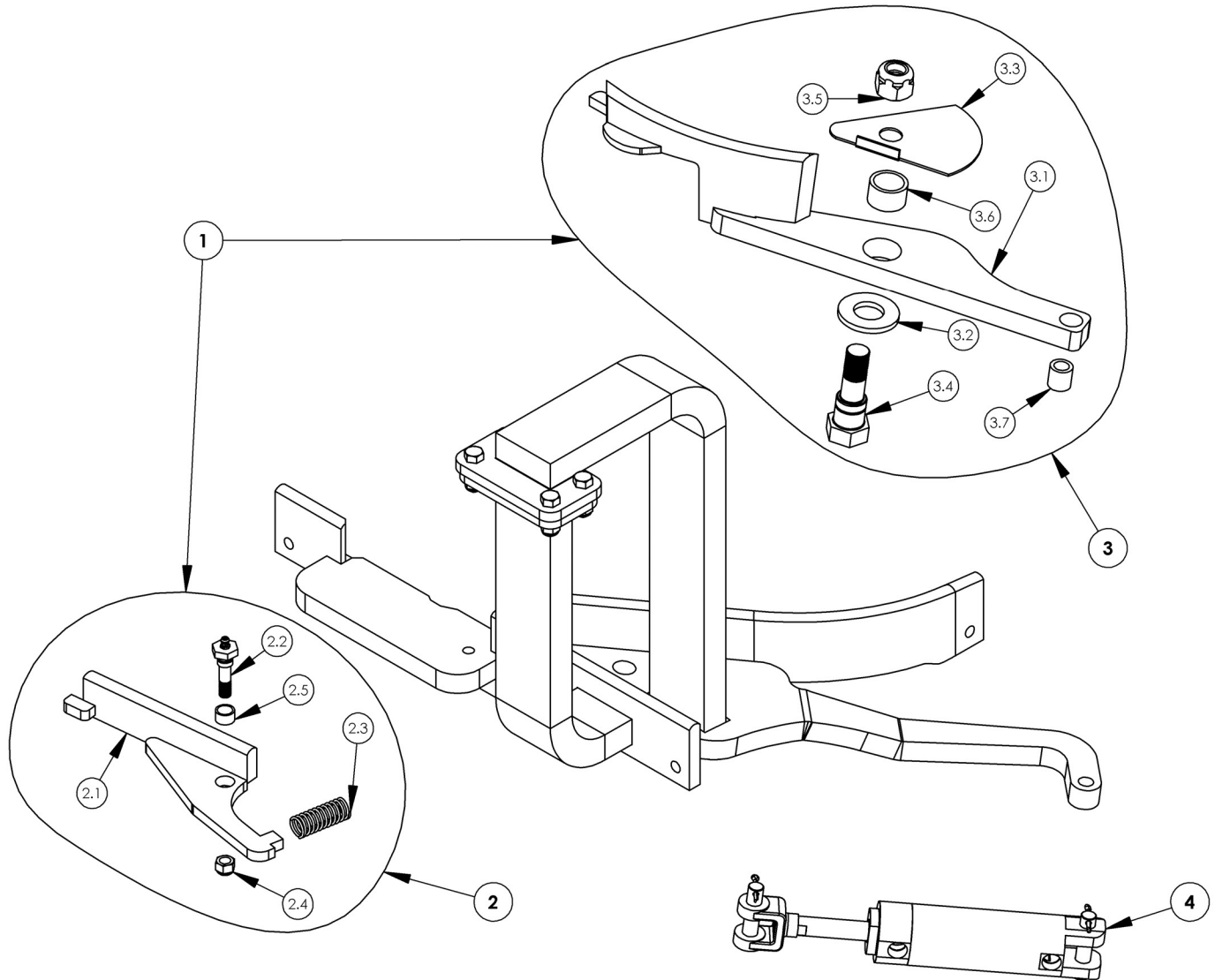


HERCULES®

DIVERT 1L CED RAIL SWITCH

D1L*D*****

DIVERT



SWITCH CYLINDER NOT INCLUDED IN COM KIT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1L CED COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1115867	1118979

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1L LVL STRAIGHT GATE KIT	1	1120790	1127990
2.1	DIVERT 1L STRAIGHT GATE ASSY	1	1119681	1119346
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1L CED CURVED GATE KIT	1	1121871	1113450
3.1	DIVERT 1L CED CURVED GATE ASSY	1	1129953	1123393
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1L SPACER WASHER	1	1129878	1129878
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

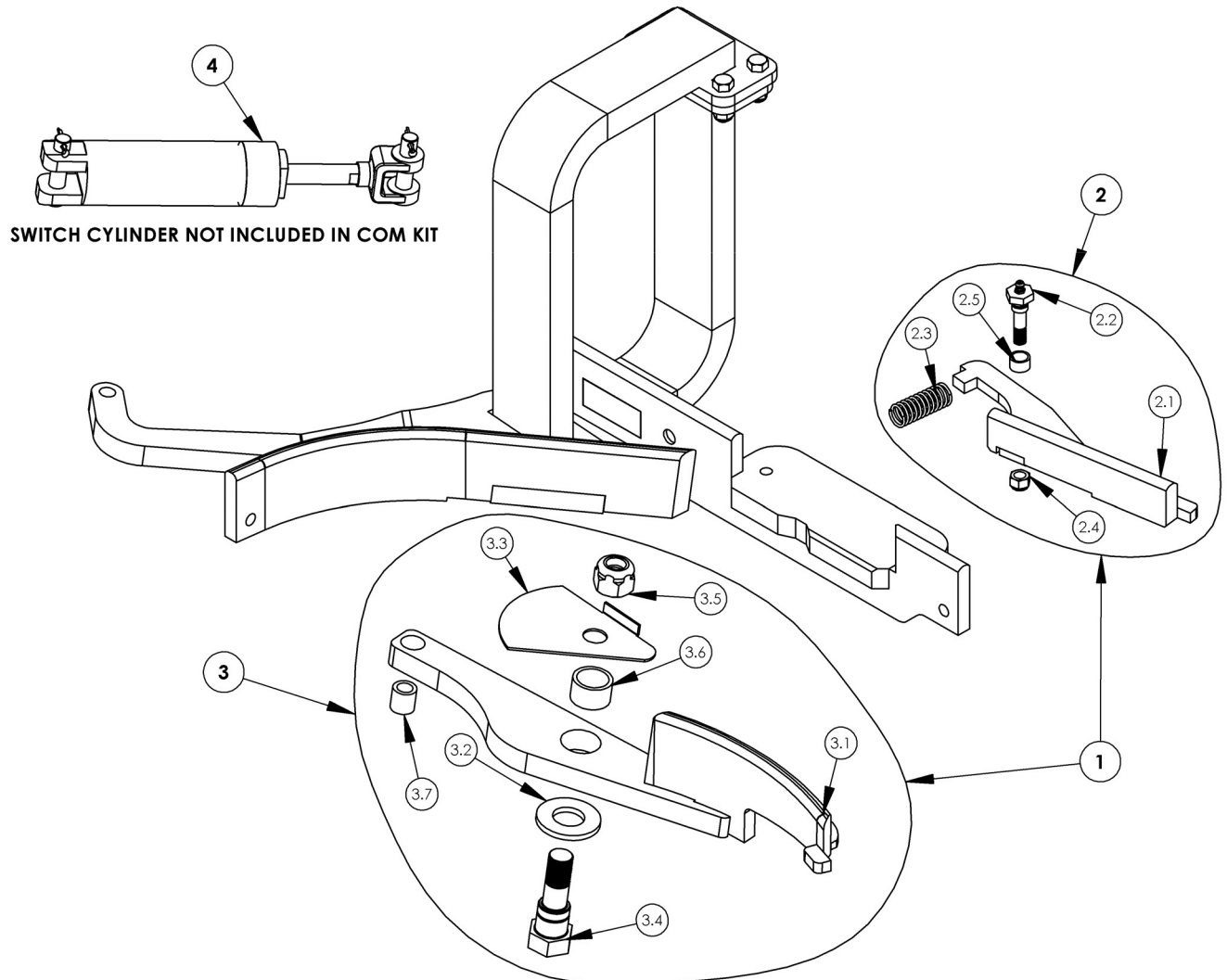
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



HERCULES®

DIVERT 1L CEU RAIL SWITCH

D1L*U*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 1L CEU COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1119515	1114681

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 1L LVL STRAIGHT GATE KIT	1	1120790	1127990
2.1	DIVERT 1L STRAIGHT GATE ASSY	1	1119681	1119346
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 1L CEU CURVED GATE KIT	1	1114520	1111548
3.1	DIVERT 1L CEU CURVED GATE ASSY	1	1128691	1127549
3.2	DIVERT WASHER	1	1119976	1119976
3.3	DIVERT 1L SPACER WASHER	1	1129878	1129878
3.4	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

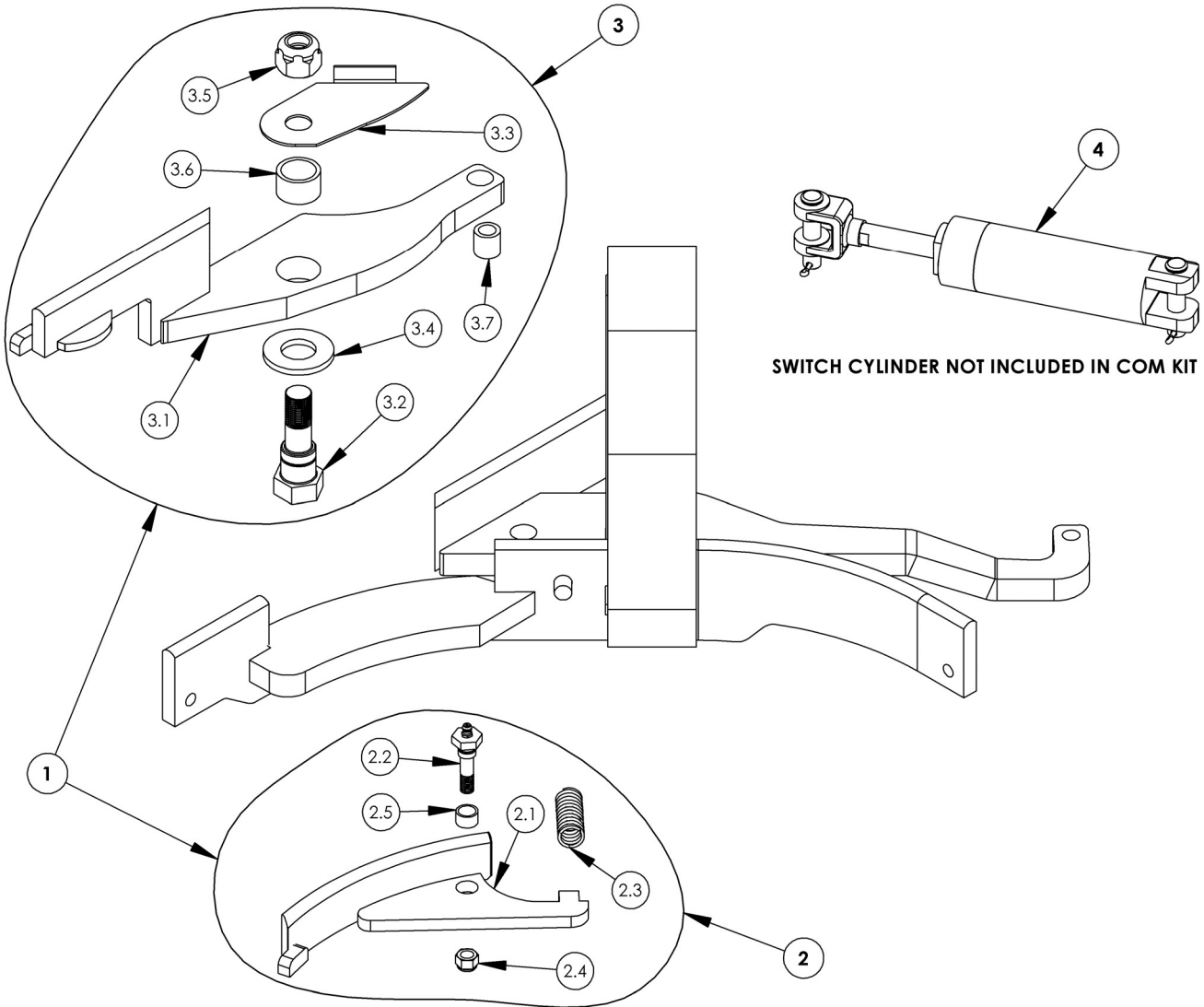
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



HERCULES®

DIVERT 2R LEVEL RAIL SWITCH

D2R*L*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2R LEVEL COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1118408	1129636

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2R LVL CURVED GATE GATE KIT	1	1116222	1121691
2.1	DIVERT 2R CURVED GATE ASSY	1	1127125	1116837
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

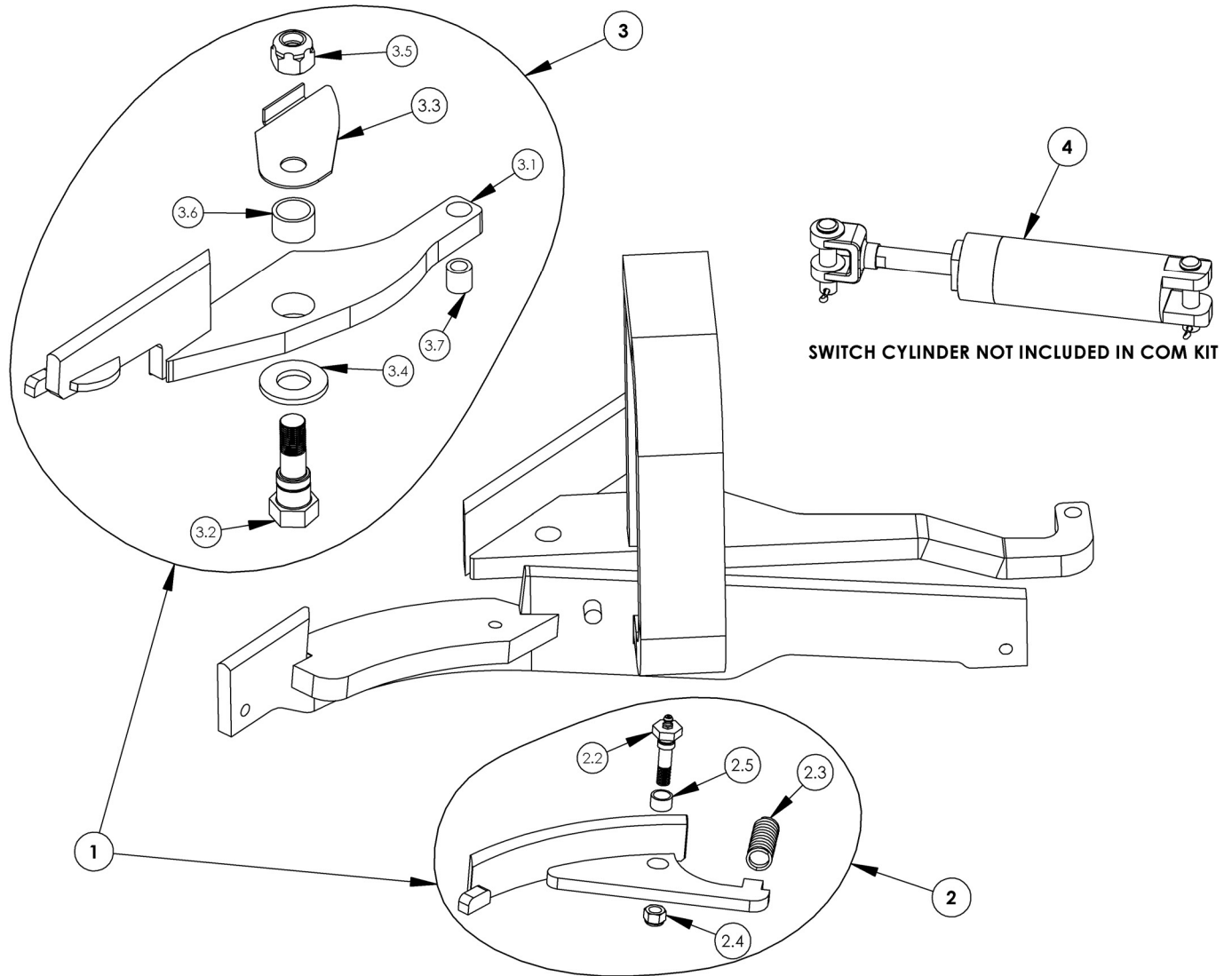
Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2R LVL STRAIGHT GATE KIT	1	1111619	1124744
3.1	DIVERT 2R LVL STRAIGHT GATE ASSY	1	1129843	1125032
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2R SPACER WASHER 2	1	1120938	1120938
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

HERCULES®

DIVERT 2R CED RAIL SWITCH

D2R*D*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2R CED COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1126075	1119202

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2R LVL CURVED GATE GATE KIT	1	1116222	1121691
2.1	DIVERT 2R CURVED GATE ASSY	1	1127125	1116837
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2R CED STRAIGHT GATE KIT	1	1128926	1119200
3.1	DIVERT 2R CED STRAIGHT GATE ASSY	1	1119426	1125244
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2R SPACER WASHER 2	1	1120938	1120938
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

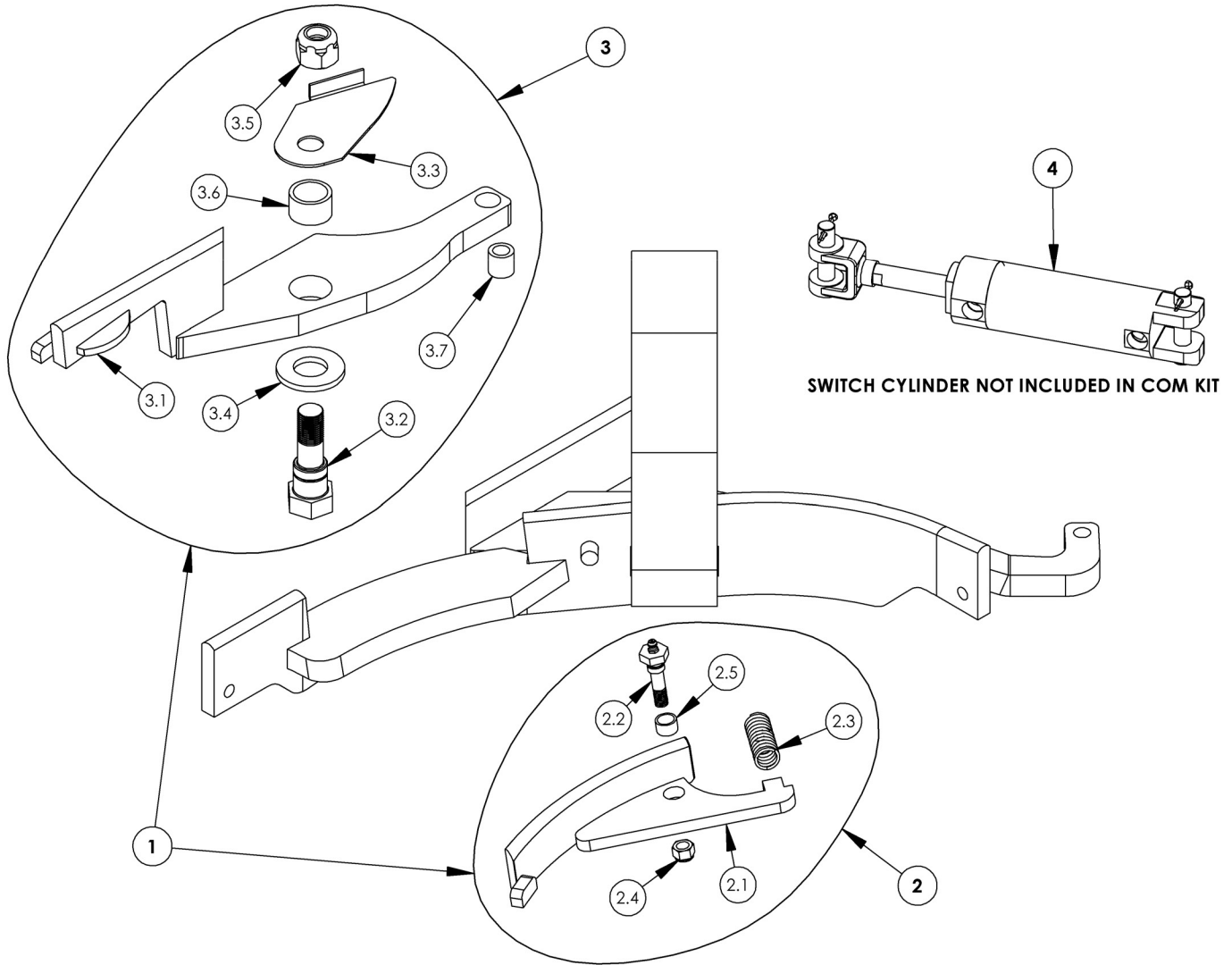


HERCULES®

DIVERT 2R CEU RAIL SWITCH

D2R*U*****

DIVERT



Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2R CEU COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1113037	1121415

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2R LVL CURVED GATE GATE KIT	1	1116222	1121691
2.1	DIVERT 2R CURVED GATE ASSY	1	1127125	1116837
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

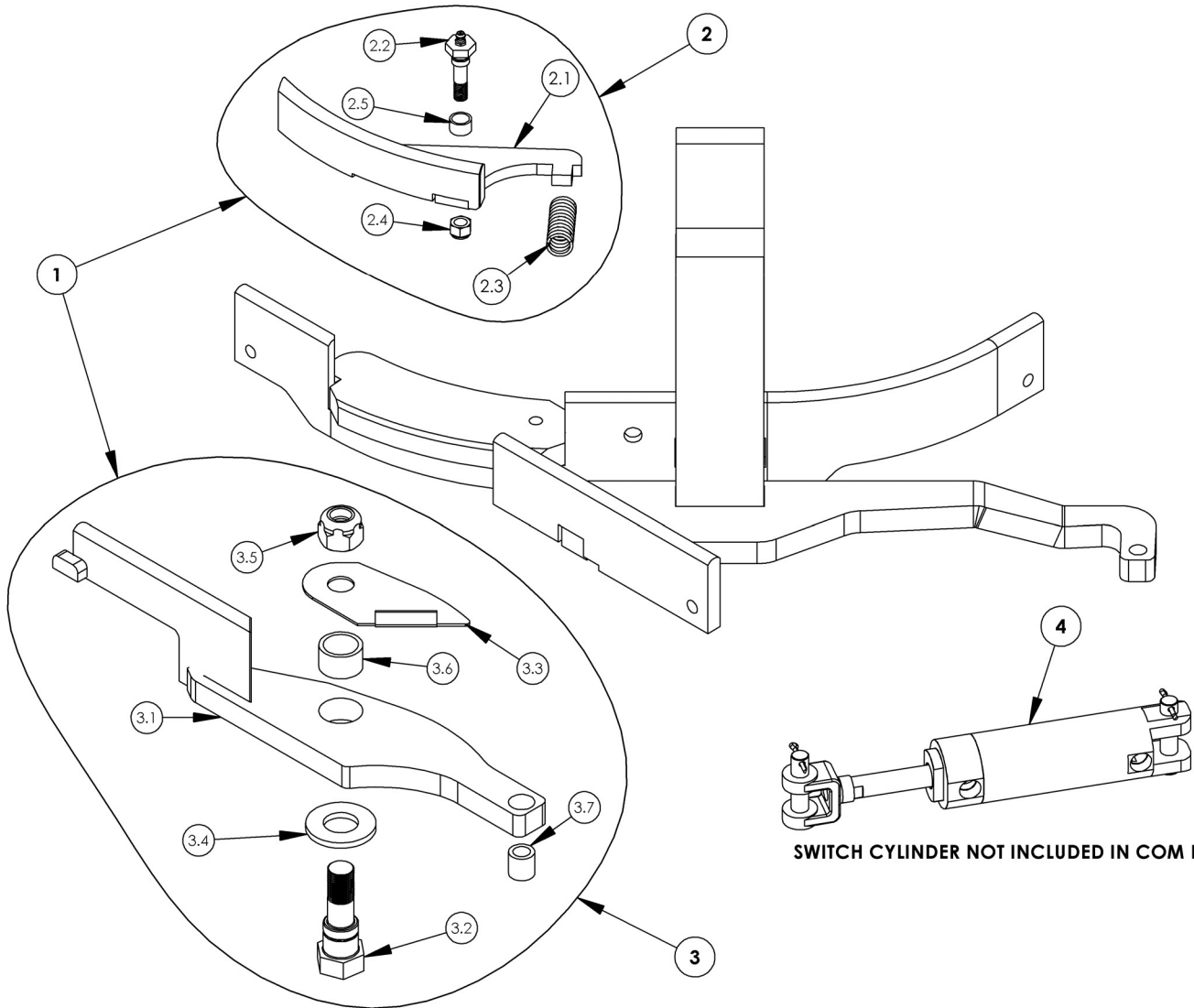
Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2R CEU STRAIGHT GATE KIT	1	1126734	1128906
3.1	DIVERT 2R CEU STRAIGHT GATE ASSY	1	1122493	1111890
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2R SPACER WASHER 2	1	1120938	1120938
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

HERCULES®

DIVERT 2L LEVEL RAIL SWITCH

D2L * L *****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2L LVL COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1114670	1114923

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2L LVL CURVED GATE GATE KIT	1	1114226	1129585
2.1	DIVERT 2L CURVED GATE ASSY	1	1118951	1118003
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2L LVL STRAIGHT GATE KIT	1	1117328	1125216
3.1	DIVERT 2L LVL STRAIGHT GATE ASSY	1	1123861	1129590
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2L SPACER WASHER 2	1	1122565	1122565
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

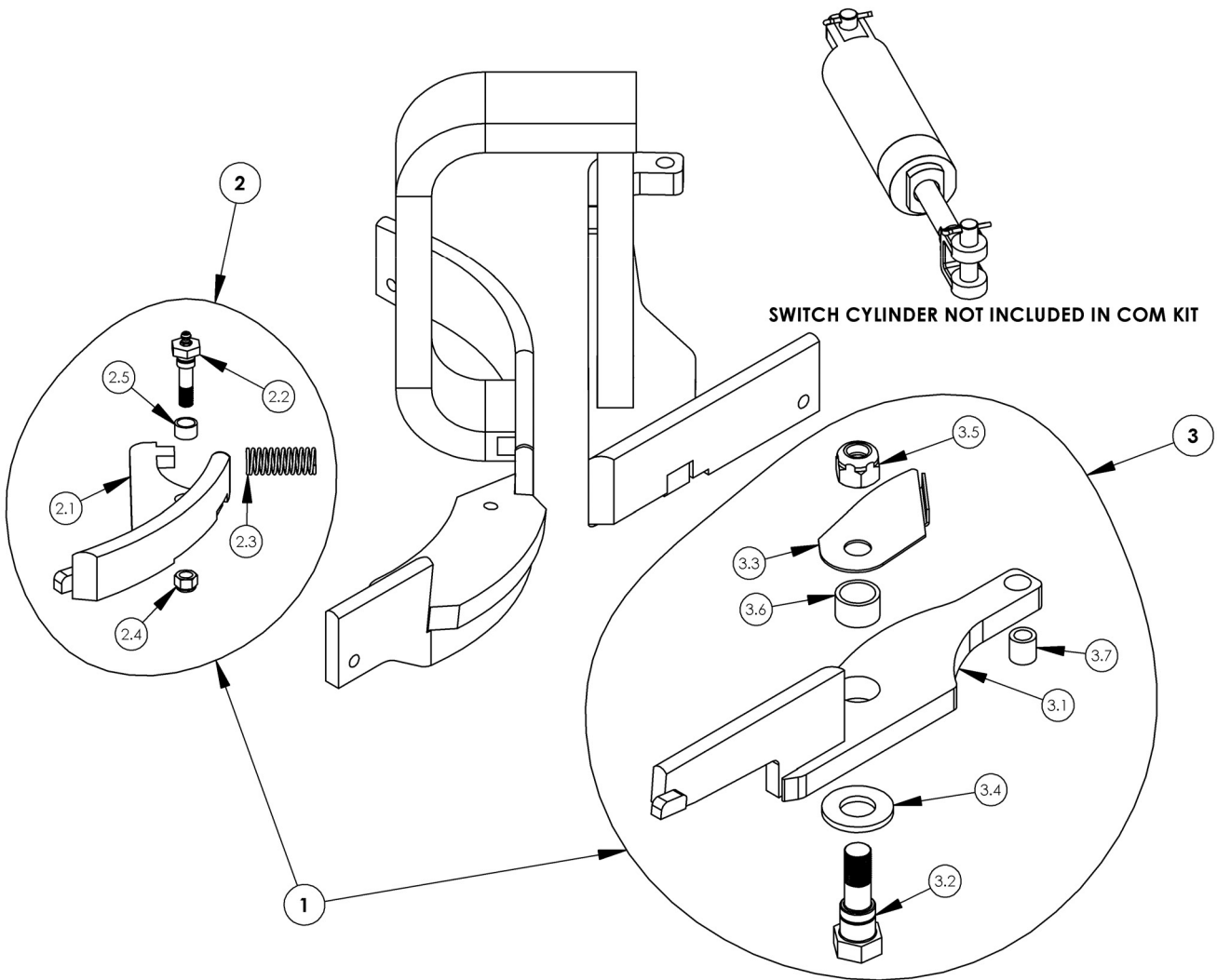
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



HERCULES®

DIVERT 2L CED RAIL SWITCH

D2L * D*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2L CED COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1113781	1126951

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2L LVL CURVED GATE GATE KIT	1	1114226	1129585
2.1	DIVERT 2L CURVED GATE ASSY	1	1118951	1118003
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2L CED STRAIGHT GATE KIT	1	1112209	1128605
3.1	DIVERT 2L CED STRAIGHT GATE ASSY	1	1123877	1117048
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2L SPACER WASHER 2	1	1122565	1122565
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

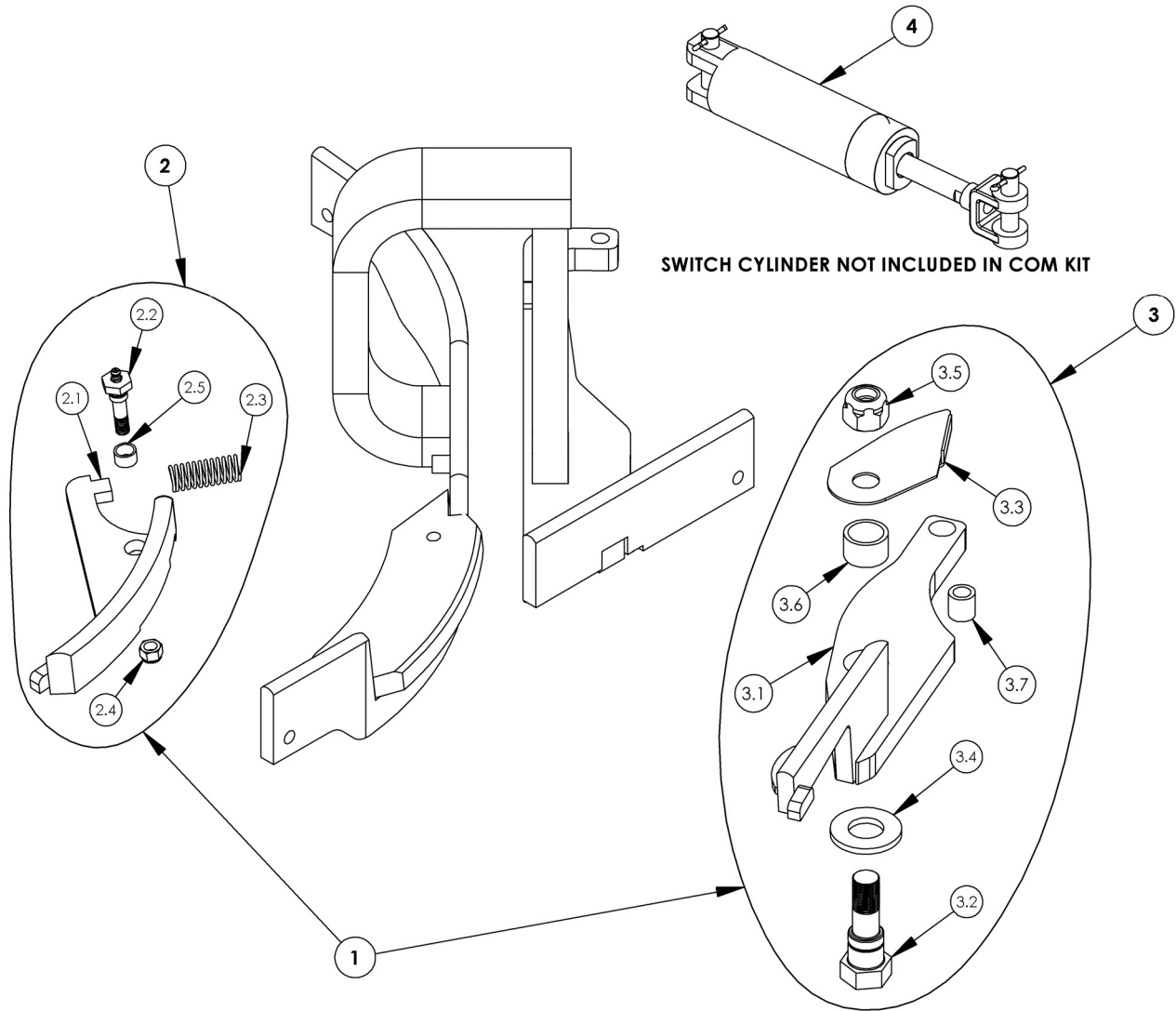
SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696



HERCULES®

DIVERT 2L CEU RAIL SWITCH

D2L*U*****



DIVERT

Item No.	Description	QTY	Zinc	Stainless
1	DIVERT 2L CEU COM KIT (CURVED GATE AND STRAIGHT GATE KITS) CYLINDER NOT INCLUDED	1	1112664	1115485

Item No.	Description	QTY	Zinc	Stainless
2	DIVERT 2L LVL CURVED GATE GATE KIT	1	1114226	1129585
2.1	DIVERT 2L CURVED GATE ASSY	1	1118951	1118003
2.2	DIVERT PIVOT PIN 1 ASSY	1	1123242	1123242
2.3	DIVERT SPRING 1	1	1129007	1129536
2.4	3/8-16 NYLOCK NUT	1	1111266	1119766
2.5	DIVERT BUSHING	1	1123894	1123894

Item No.	Description	QTY	Zinc	Stainless
3	DIVERT 2L CEU STRAIGHT GATE KIT	1	1124771	1128959
3.1	DIVERT 2L CEU STRAIGHT GATE ASSY	1	1128984	1123326
3.2	DIVERT PIVOT PIN 2 ASSY	1	1120039	1129143
3.3	DIVERT 2L SPACER WASHER 2	1	1122565	1122565
3.4	DIVERT WASHER	1	1119976	1119976
3.5	3/4-10 NYLOCK NUT	1	1114776	1111747
3.6	DIVERT BUSHING 2	1	1123456	1123456
3.7	DIVERT BUSHING 4	1	1111525	1111525

SWITCH CYLINDER NOT INCLUDED IN COM KIT				
Item No.	Description	QTY	Zinc	Stainless
4	SWITCH CYLINDER	1	1115696	1115696

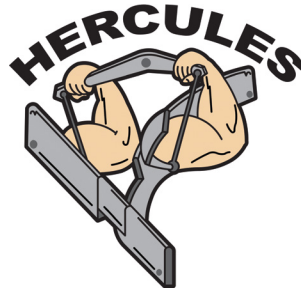


HERCULES[®]

NOTES

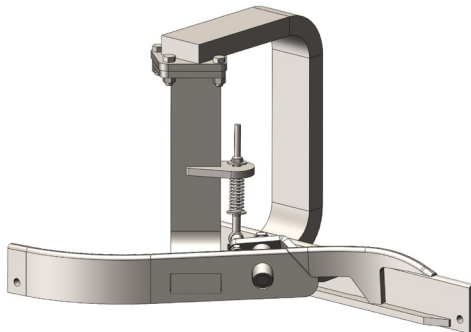
DIVERT





SINGLE GATE FEEDOUT SWITCH SECTION

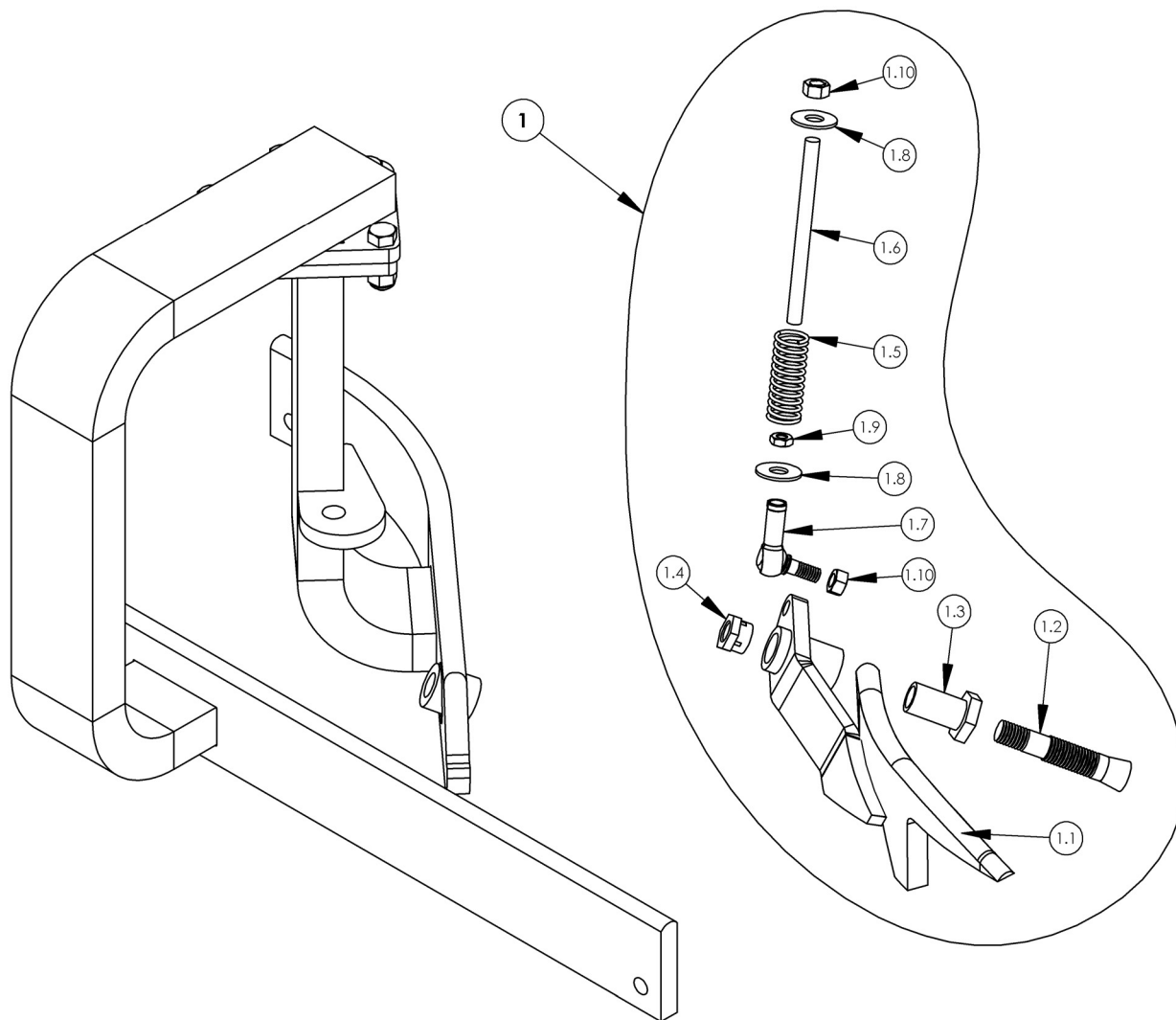
Switch Description	Page	Switch Layout
S1R*L*****	56	
S1L*L*****	57	
S2R*L*****	58	



HERCULES®

SINGLE GATE FEEDOUT 1R LEVEL RAIL SWITCH

S1R*L*****



SINGLE GATE

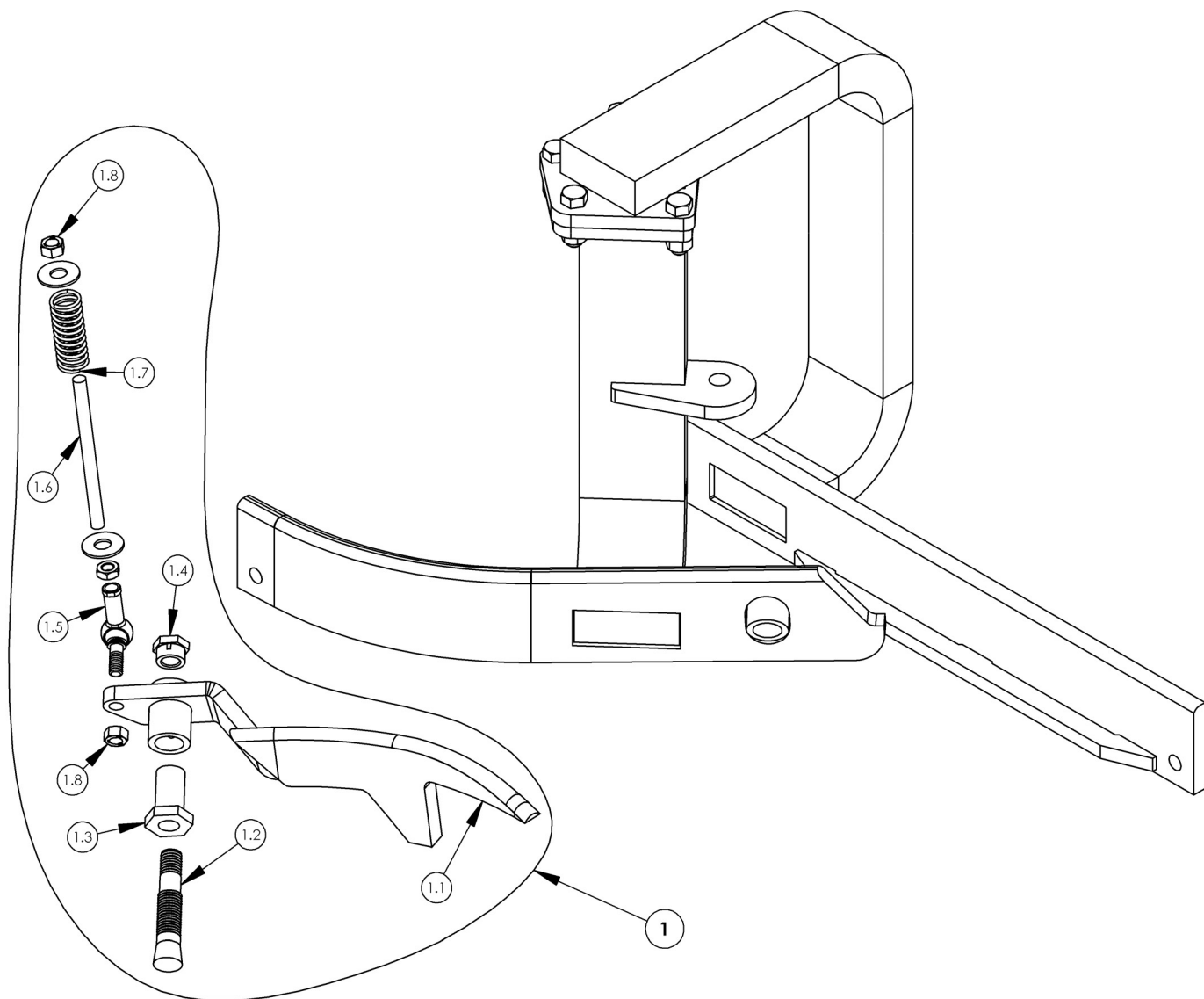
Item No.	Description	QTY	Zinc	Stainless
1	SINGLE GATE FEEDOUT 1R COM KIT	1	1127884	1125463
1.1	SINGLE GATE FEEDOUT 1R CURVED GATE ASSY	1	1113166	1114252
1.2	AUTOMATIC PIVOT PIN 1	1	1119930	1119153
1.3	AUTOMATIC HEX BUSHING 1	1	1125169	1112646
1.4	AUTOMATIC HEX BUSHING 2	1	1124514	1124514
1.5	DIVERT SPRING 1	1	1129007	1129536
1.6	SINGLE GATE FEEDOUT THREADED ROD	1	1113871	1118887
1.7	BALL JOINT ROD END	1	1114794	1111669
1.8	3/8" FLAT WASHER	1	1115907	1118130
1.9	5/16-24 JAM NUT	1	1112039	1115681
1.10	5/16-24 TOP LOCK JAM NUT	1	1128868	1124685



HERCULES®

SINGLE GATE FEEDOUT 1L LEVEL RAIL SWITCH

S1L*L*****



Item No.	Description	QTY	Zinc	Stainless
1	SINGLE GATE FEEDOUT 1L COM KIT	1	1123892	1123590
1.1	SINGLE GATE FEEDOUT 1L CURVED GATE ASSY	1	1126190	1112796
1.2	AUTOMATIC PIVOT PIN 1	1	1119930	1119153
1.3	AUTOMATIC HEX BUSHING 1	1	1125169	1112646
1.4	AUTOMATIC HEX BUSHING 2	1	1124514	1124514
1.5	DIVERT SPRING 1	1	1129007	1129536
1.6	SINGLE GATE FEEDOUT THREADED ROD	1	1113871	1118887
1.7	BALL JOINT ROD END	1	1114794	1111669
1.8	3/8" FLAT WASHER	1	1115907	1118130
1.9	5/16-24 JAM NUT	1	1112039	1115681
1.10	5/16-24 TOP LOCK JAM NUT	1	1128868	1124685

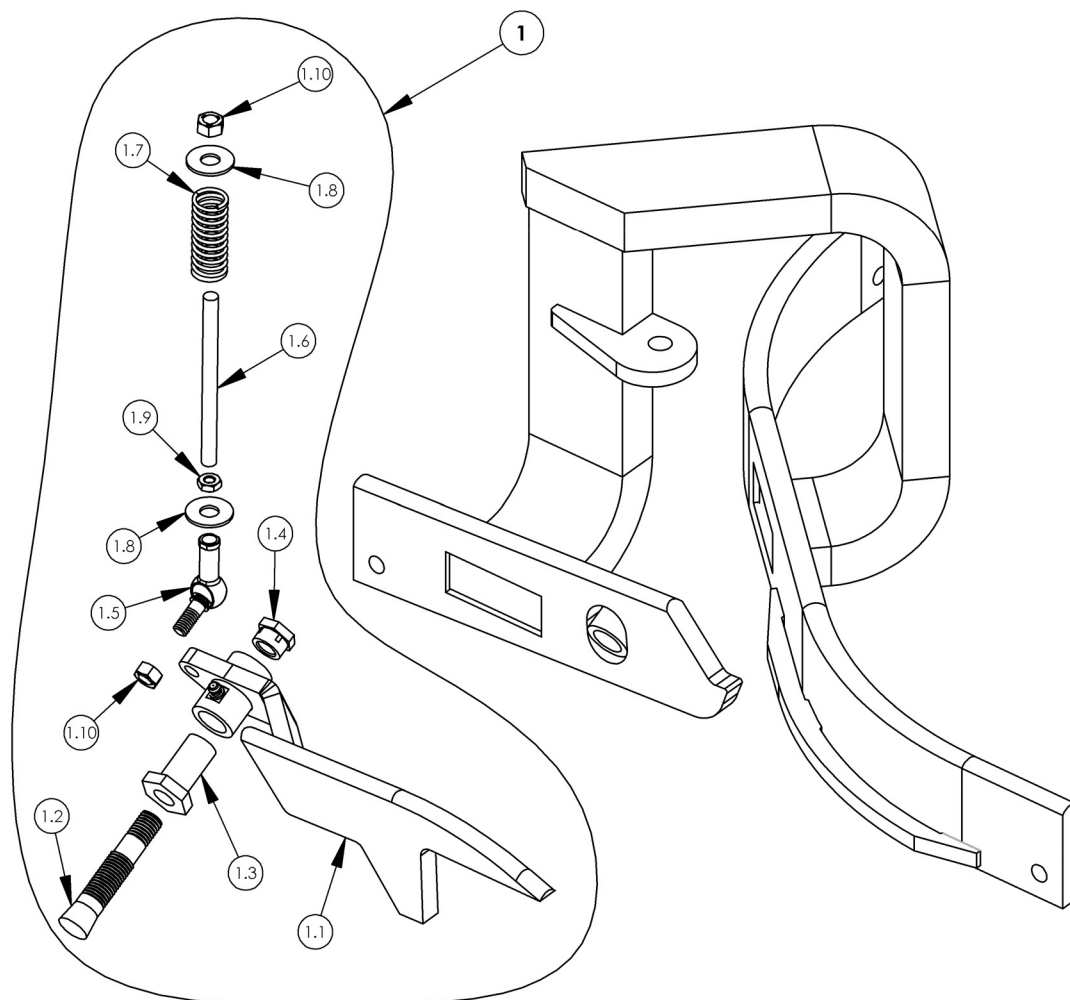
SINGLE GATE



HERCULES®

SINGLE GATE FEEDOUT 2R LEVEL RAIL SWITCH

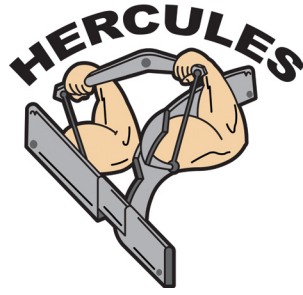
S2R*L*****



SINGLE GATE

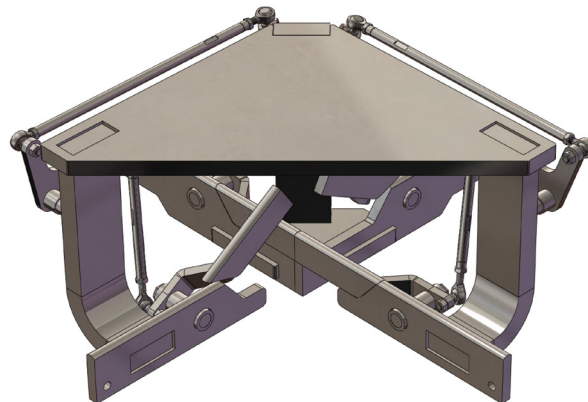
Item No.	Description	QTY	Zinc	Stainless
1	SINGLE GATE FEEDOUT 2R COM KIT	1	1116408	1119892
1.1	SINGLE GATE FEEDOUT 2R CURVED GATE ASSY	1	1126290	1121582
1.2	AUTOMATIC PIVOT PIN 1	1	1119930	1119153
1.3	AUTOMATIC HEX BUSHING 1	1	1125169	1112646
1.4	AUTOMATIC HEX BUSHING 2	1	1124514	1124514
1.5	DIVERT SPRING 1	1	1129007	1129536
1.6	SINGLE GATE FEEDOUT THREADED ROD	1	1113871	1118887
1.7	BALL JOINT ROD END	1	1114794	1111669
1.8	3/8" FLAT WASHER	1	1115907	1118130
1.9	5/16-24 JAM NUT	1	1112039	1115681
1.10	5/16-24 TOP LOCK JAM NUT	1	1128868	1124685





CUT THROUGH SWITCH SECTION

Switch Description	Page	Switch Layout
COX*L*****	60	

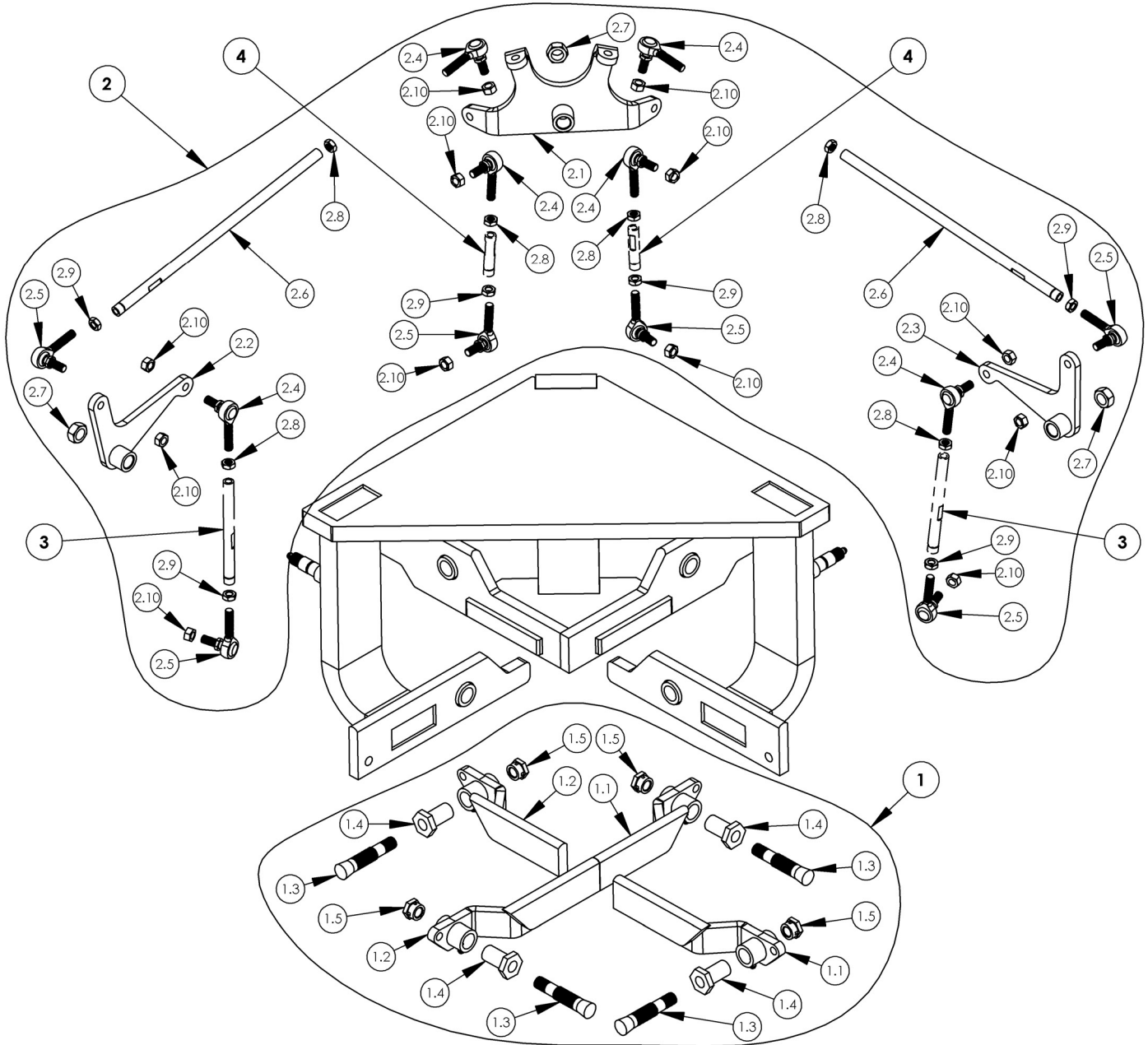


HERCULES[®]

CUT THROUGH OX LEVEL RAIL SWITCH

COX*L*****

CUT THROUGH

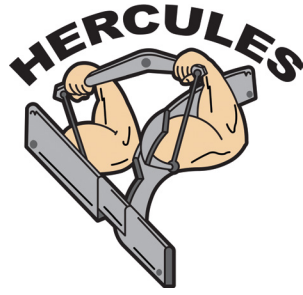


Item No.	Description	QTY	Zinc	Stainless
1	CUT THROUGH GATE ASSY KIT	1	1115730	1111240
1.1	CUT THROUGH ROCKER GATE RIGHT ASSY	1	1125423	1124844
1.2	CUT THROUGH ROCKER GATE LEFT ASSY	1	1121849	1129273
1.3	AUTOMATIC PIVOT PIN 1	1	1119930	1119153
1.4	AUTOMATIC HEX BUSHING 1	1	1125169	1112646
1.5	AUTOMATIC HEX BUSHING 2	1	1124514	1124514

SWITCH TURNBUCKLE ROD NOT INCLUDED WITH KIT		
Item No.	Description	SEE INSIDE OF BACK COVER FOR SWITCH TURNBUCKLE ROD LENGTH CHART
3	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 8"
4	SWITCH TURNBUCKLE ROD	"A" = BRIDGE HEIGHT MINUS 5"

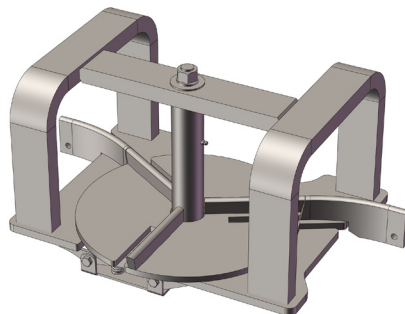
Item No.	Description	QTY	Zinc	Stainless
2	CUT THROUGH ROCKER ARM COM KIT	1	1111282	1121997
2.1	CUT THROUGH ROCKER ARM 2 ASSY	1	1128515	1112482
2.2	CUT THROUGH ROCKER ARM 1L ASSY	1	1119554	1115549
2.3	CUT THROUGH ROCKER ARM 1R ASSY	1	1125019	1129394
2.4	BALL JOINT END RIGHT	1	1120508	1128183
2.5	BALL JOINT END LEFT	1	1129416	1112711
2.6	SWITCH TURNBUCKLE ROD 12"	1	1124585	1124585
2.7	1/2-13 TOP LOCK NUT	1	1123390	1112691
2.8	5/16-24 JAM NUT	1	1112039	1124685
2.9	5/16-24 JAM NUT LH	1	1126524	1129776
2.10	5/16-24 TOP LOCK JAM NUT	1	1128868	1124685





TROLLEY TURN AROUND SWITCH SECTION

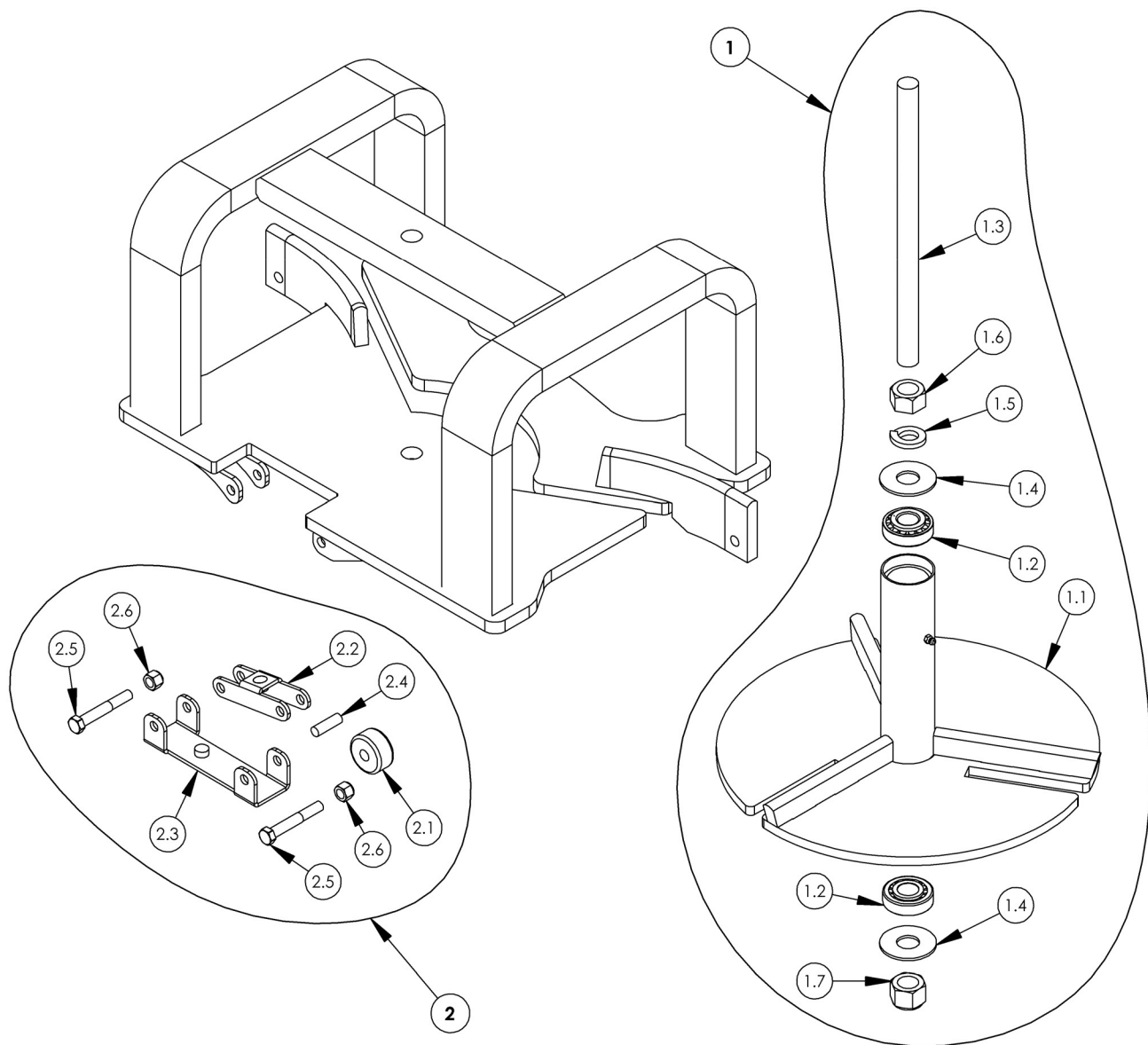
Switch Description	Page
TROLLEY TURN AROUND	62



HERCULES®

TROLLEY TURN AROUND

TROLLEY TURN AROUND



Item No.	Description	QTY	Zinc	Stainless
1	TROLLEY TURN AROUND GATE COM KIT	1	1126241	1120410
1.1	TROLLEY TURN AROUND GATE ASSY	1	1117230	1116148
1.2	TROLLEY TURN AROUND BEARING	2	1112480	1112480
1.3	TROLLEY TURN AROUND .75-10 x 12" THREADED ROD	1	1113291	1112809
1.4	3/4" FLAT WASHER	2	1123437	1125841
1.5	3/4" LOCK WASHER	1	1118237	1124383
1.6	3/4-10 HEX NUT	1	1120900	1121682
1.7	3/4-10 NYLOCK NUT	1	1114776	1124318

Item No.	Description	QTY	Zinc	Stainless
2	TROLLEY TURN AROUND TRACK ROLLER COM KIT	1	1120189	1120189
2.1	TROLLEY TURN AROUND TRACK ROLLER	1	1123999	1123999
2.2	TROLLEY TURN AROUND TRACK ROLLER PART 1 ASSY	1	1114167	1112689
2.3	TROLLEY TURN AROUND TRACK ROLLER PART 2 ASSY	1	1126179	1119599
2.4	GEAR TROLLEY STOP PIN 1	1	1115833	1126884
2.5	3/8-16x2 1/2" HEX HEAD BOLT	2	1122620	1119633
2.6	3/8-16 NYLOCK NUT	2	1111266	1122841



HERCULES[®]

SWITCH TURNBUCKLE ROD CHART

USE CHART IN COMBINATION WITH PARTS PAGE

<u>IF DIMENSION "A" IS BETWEEN:</u>	<u>SWITCH TURNBUCKLE ROD LENGTH</u>	<u>PART NUMBER</u>
1 3/4" AND 2 5/8"	2"	1112357
2 3/4" AND 3 5/8"	3"	1113071
3 3/4" AND 4 5/8"	4"	1121111
4 3/4" AND 5 5/8"	5"	1127821
5 3/4" AND 6 5/8"	6"	1129556
6 3/4" AND 7 5/8"	7"	1119823
7 3/4" AND 8 5/8"	8"	1126385
8 3/4" AND 9 5/8"	9"	1122327
9 3/4" AND 10 5/8"	10"	1115206
10 3/4" AND 11 5/8"	11"	1125198
11 3/4" AND 12 5/8"	12"	1124585
12 3/4" AND 13 5/8"	13"	1128369
13 3/4" AND 14 5/8"	14"	1119287
14 3/4" AND 15 5/8"	15"	1117331
15 3/4" AND 16 5/8"	16"	1126947
16 3/4" AND 17 5/8"	17"	1111560
17 3/4" AND 18 5/8"	18"	1115621
18 3/4" AND 19 5/8"	19"	1121508
19 3/4" AND 20 5/8"	20"	1128885

Switch Turnbuckle Rod selection procedure

Determine the Switch you have from the parts pages.

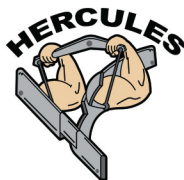
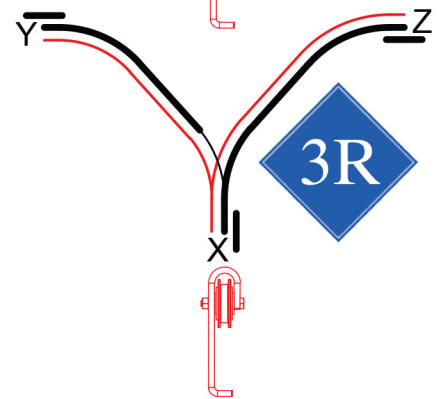
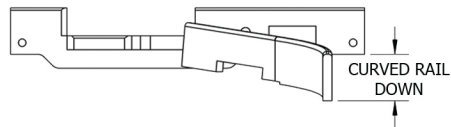
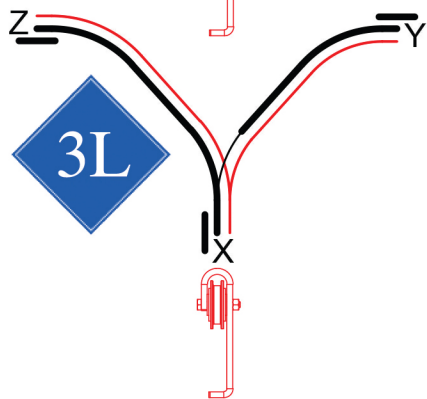
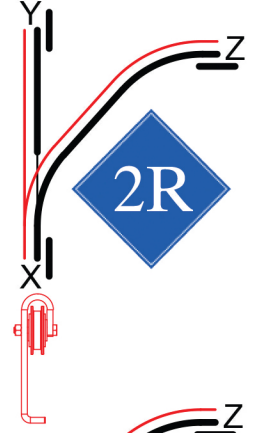
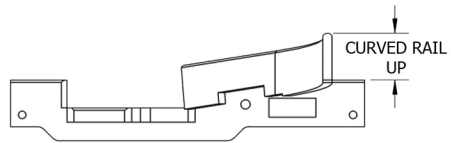
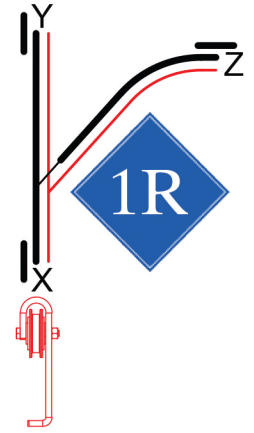
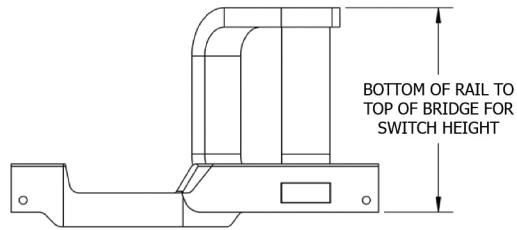
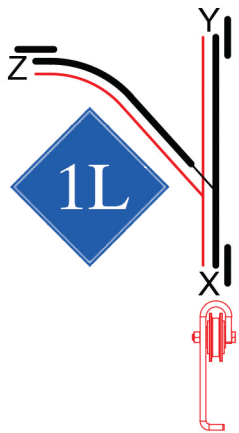
In the section labeled Switch Turnbuckle Rod, determine the Switch Turnbuckle Rod to be replaced.

Use the formula to determine the range of the Switch Turnbuckle Rod to be replaced.

Look at the Range column above to order Switch Turnbuckle Rod that best matches the length determined previously.



STRONGER BY DESIGN



2501 MURRAY STREET, SUITE A

SIOUX CITY, IA 51111

P: (712) 224-5600

T: (877) 873-5858

F: (712) 224-5604