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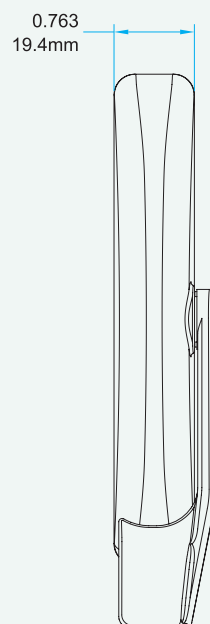
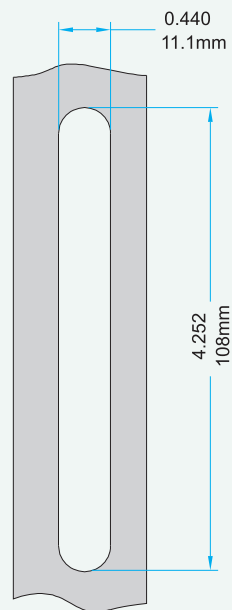
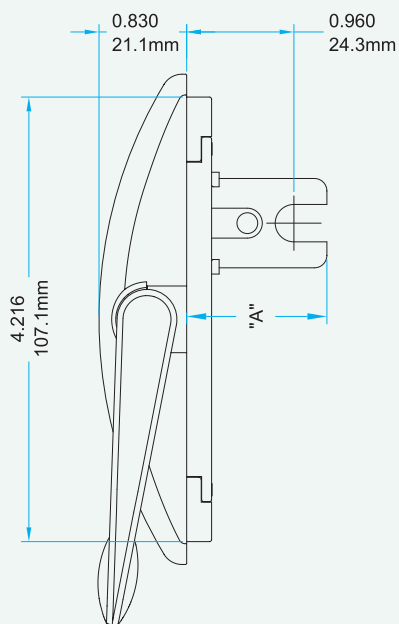
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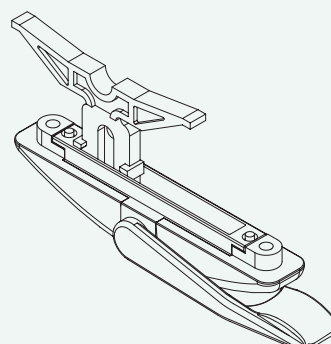
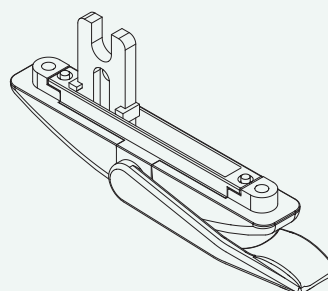
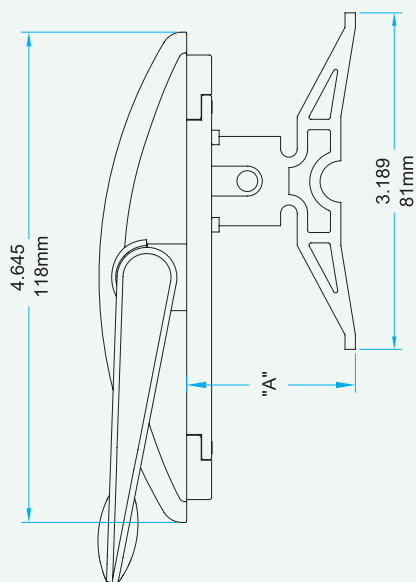
LOCKING HANDLE

Grande Multi & Single Point Locking System

1. Locking Handle & Accessories



Frame Cut Out

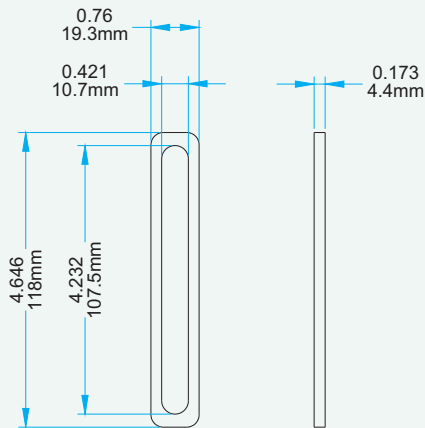


132-516(SHOWN)

132-519(SHOWN)

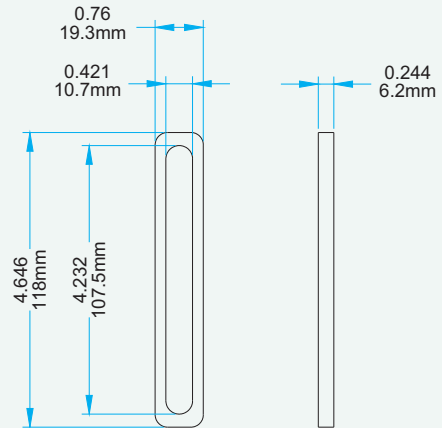
Product Name	Part Number	"A"
Grande Multi Point Locking Handle	132-516	1.390"
Grande Multi Point Locking Handle	132-517	1.640"
Grande Multi Point Locking Handle	132-518	1.890"
Grande Single Point Locking Handle	132-519	1.604"

20061 SPACER



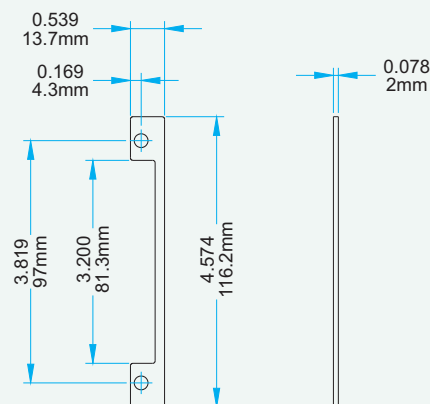
Product Name	Part Number	Match Color
SPACER	20061	9268
SPACER	20061	15212
SPACER	20061	HRG624

20090 SPACER

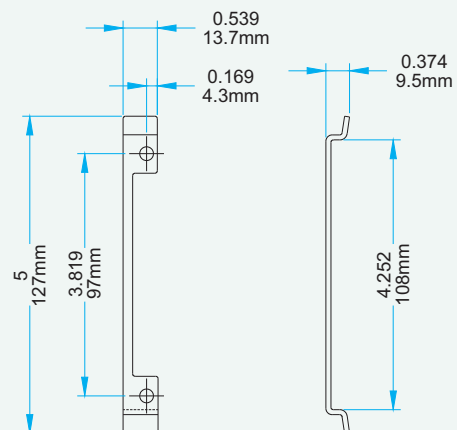


Product Name	Part Number	Match Color
SPACER	20090	9268
SPACER	20090	15212
SPACER	20090	HRG624

19021\7021 BACKING PLATE



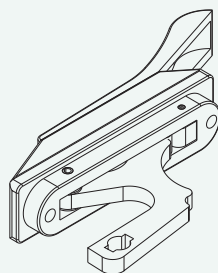
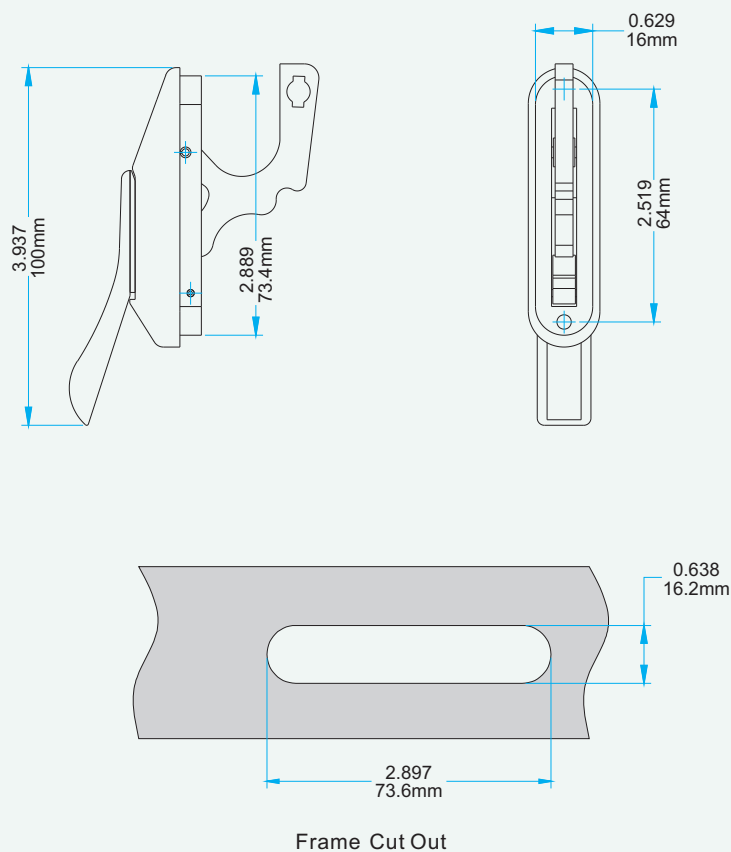
19024\7024 BACKING PLATE



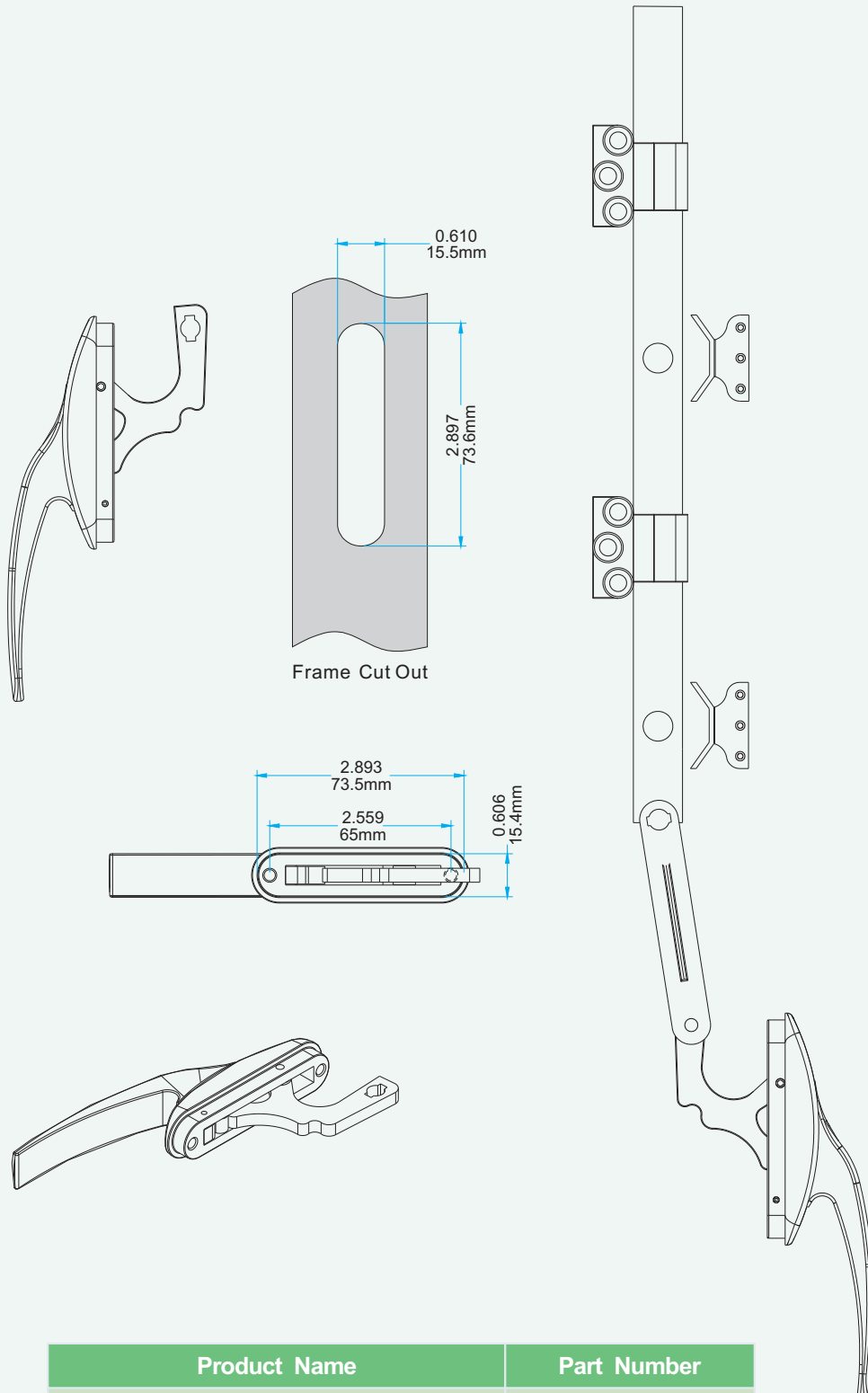
LOCKING HANDLE

Multi Point Locking Handle

1. Locking Handle & Accessories

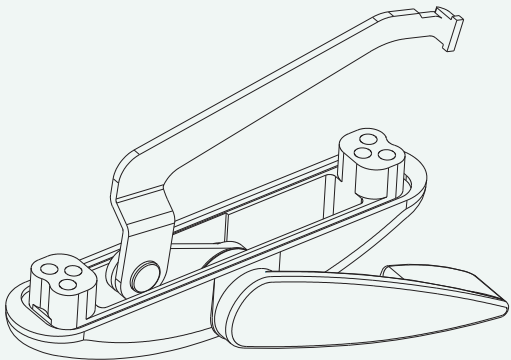


Product Name	Part Number
Multi Point Locking Handle 502	132-502

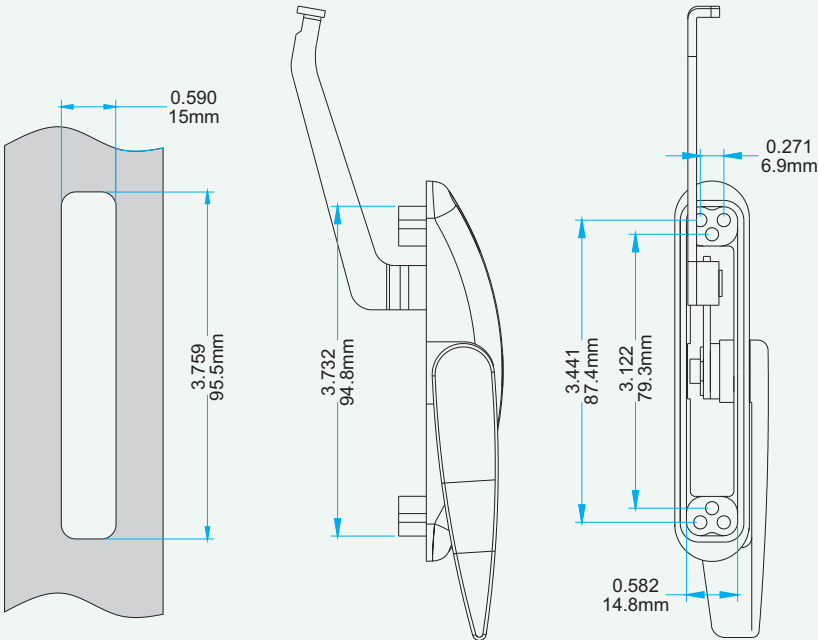


Product Name	Part Number
Multi Point Locking Handle 504	132-504R1

Multi Point Locking Handle

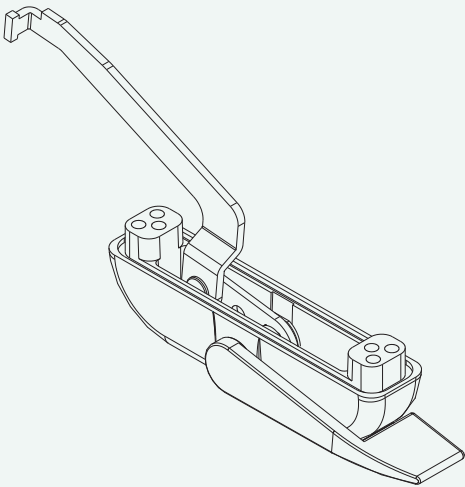


Right Hand Shown

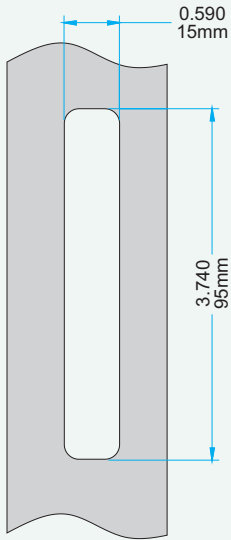
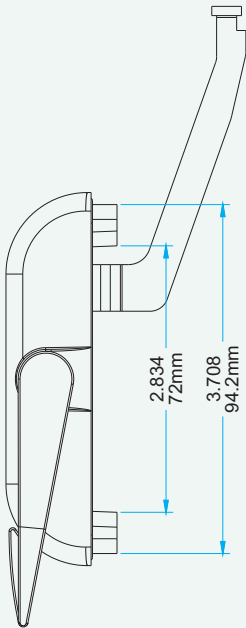
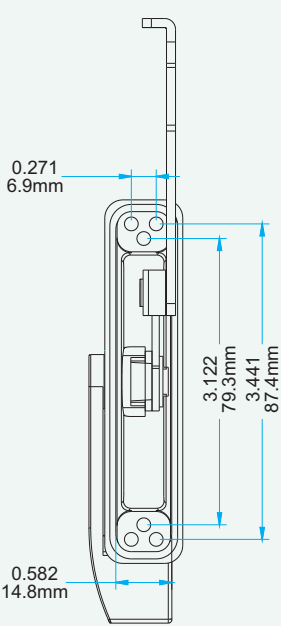


Frame Cut Out

Product Name	Part Number
Multi Point Locking Handle 513, RH	132-513(R)
Multi Point Locking Handle 513, LH	132-513(L)



Left Hand Shown



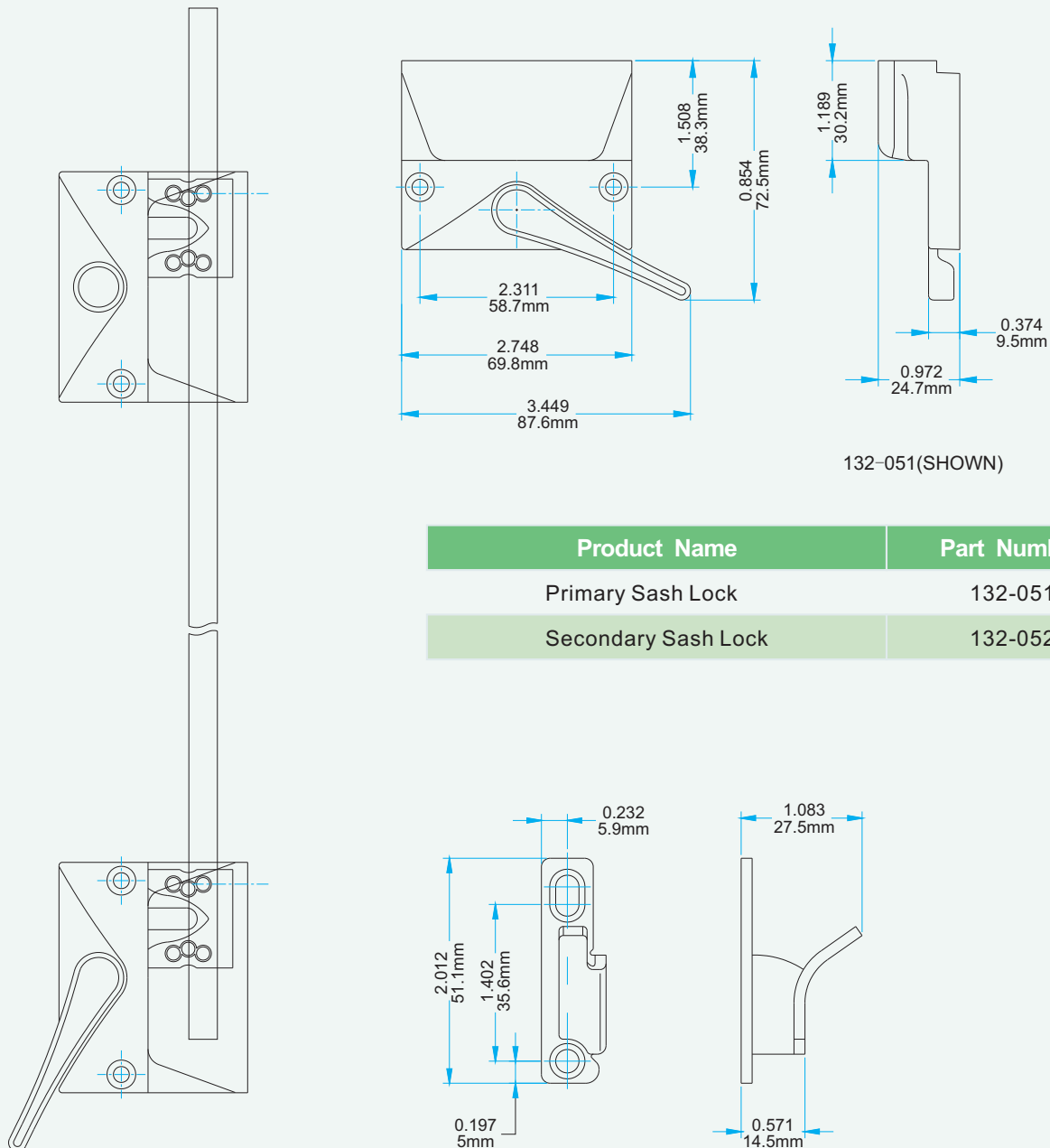
Frame Cut Out

Product Name	Part Number
Multi Point Locking Handle 515, RH	132-515(R)
Multi Point Locking Handle 515, LH	132-515(L)

LOCKING HANDLE

Wood Window Multi & Single Point Locking System

Sash Lock



132-051(SHOWN)

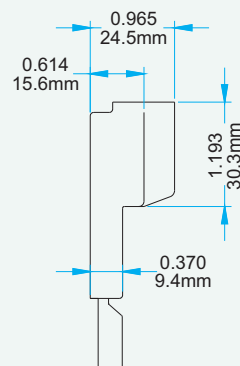
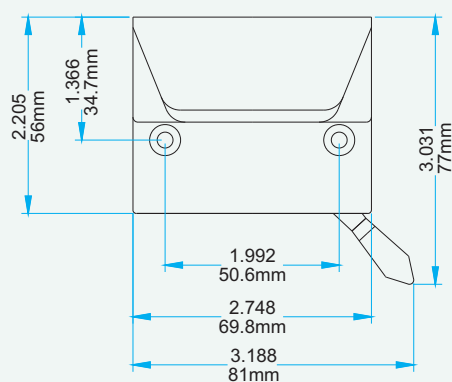
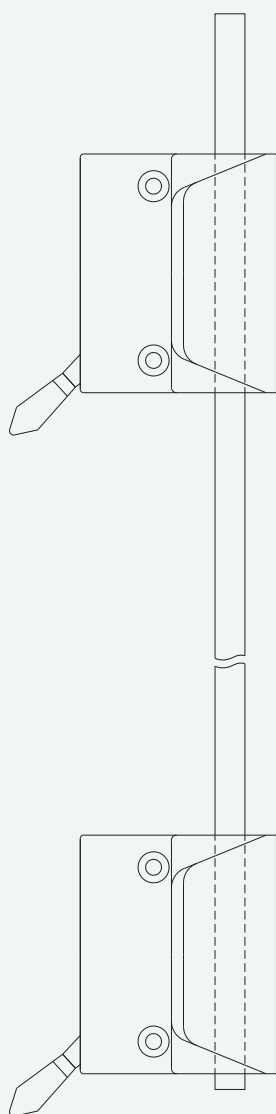
Product Name	Part Number
Primary Sash Lock	132-051
Secondary Sash Lock	132-052

Right Hand Shown

Product Name	Material	Hand
19028	Steel	LH
19029	Steel	RH

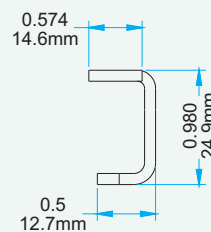
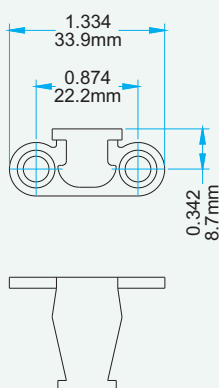


Low Profile Casement Sash Lock



Product Name	Part Number
Primary Sash Lock	132-053
Secondary Sash Lock	132-054

Multi-Point Lock Keeper

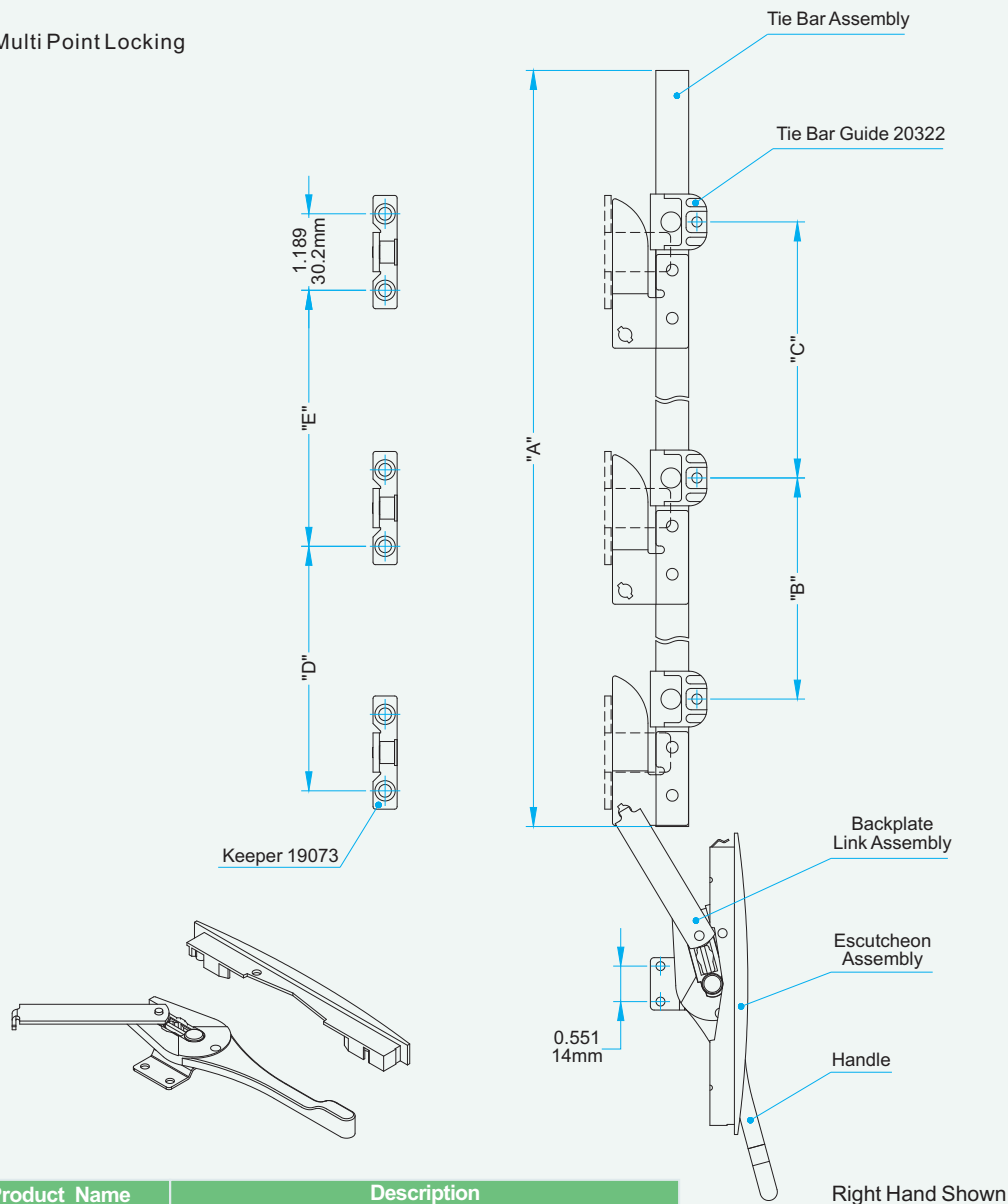


Product Name	Material	Hand
19058	Steel	Non

LOCKING HANDLE

Wood Window Multi & Single Point Locking System

Multi Point Locking



Right Hand Shown

Product Name	Description
L3A	Escutcheon, Handle and Link Assembly
19073	Keeper(Non-Handed)
20322	Tie Bar Guide(Non-Handed)

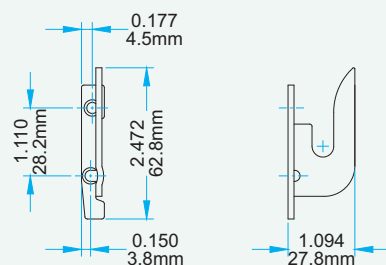
2 Point and 3 Point Tie Bar Assemblies								Keeper to Keeper	
Part Number				Dimensions				Dimensions	
LH	RH	LH	RH	"A"	"B"	"C"	"D"	"E"	
202-16-2L	202-16-2R	N/A	N/A	410.8mm[16.175"]	298.5mm[11.75"]	N/A	304.8mm[12"]	N/A	
202-22-2L	202-22-2R	N/A	N/A	563.2mm[22.175"]	450.9mm[17.75"]	N/A	457.2mm[18"]	N/A	
202-28-2L	202-28-2R	N/A	N/A	715.6mm[28.175"]	603.3mm[23.75"]	N/A	609.6mm[24"]	N/A	
202-34-2L	202-34-2R	202-34-3L	202-34-3R	868mm[34.175"]	374.7mm[14.75"]	381mm[15.00"]	381mm[15"]	381mm[15"]	
202-40-2L	202-40-2R	202-40-3L	202-40-3R	1020.4mm[40.175"]	450.9mm[17.75"]	457.2mm[18.00"]	457.2mm[18"]	457.2mm[18"]	
202-46-2L	202-46-2R	202-46-3L	202-46-3R	1173.8mm[46.175"]	527.1mm[20.75"]	533.4mm[21.00"]	533.4mm[21"]	533.4mm[21"]	
202-52-2L	202-52-2R	202-52-3L	202-52-3R	1325.2mm[52.175"]	603.3mm[23.75"]	609.6mm[24.00"]	609.6mm[24"]	609.6mm[24"]	

Multi Point Locking 132-524

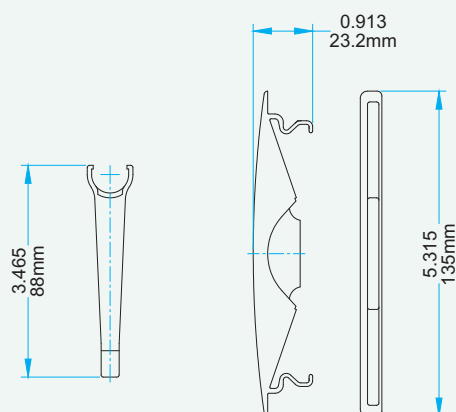
Casement Application with Flange Keeper

Keepers 190494(RH) 190495(LH)

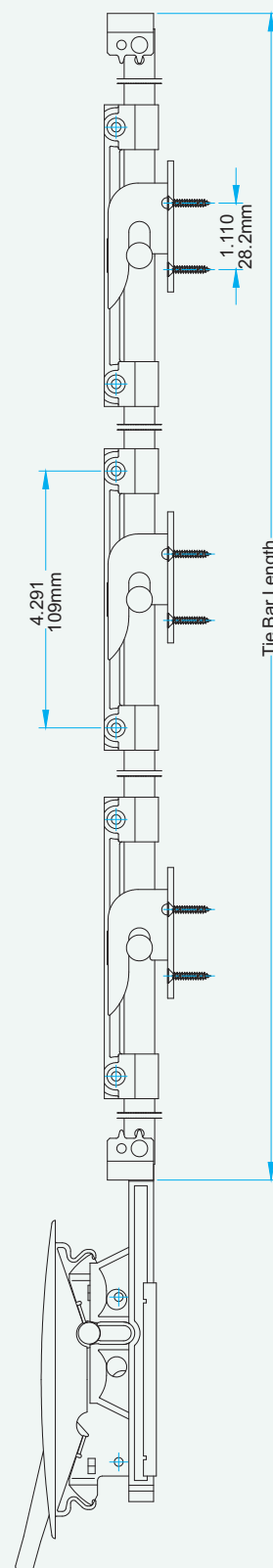
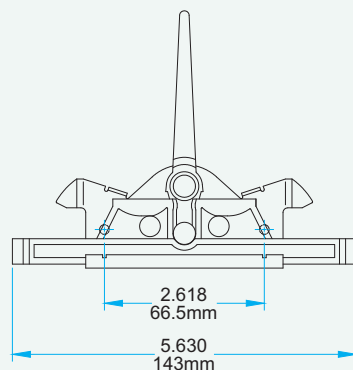
Right Hand Shown



Handle and Escutcheon 132-524-2



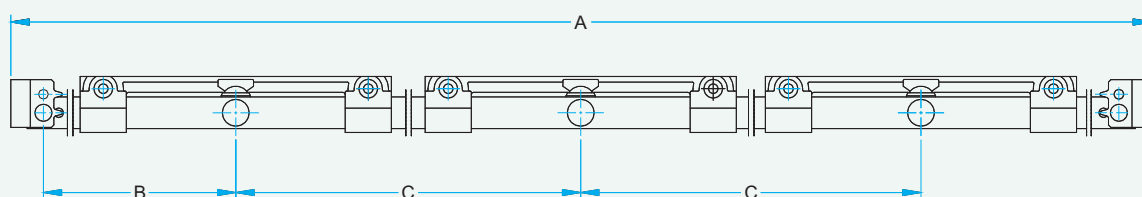
Lock Drive Assembly 132-524-1



LOCKING HANDLE

Wood Window Multi & Single Point Locking System

Tie Bar Assembly Chart

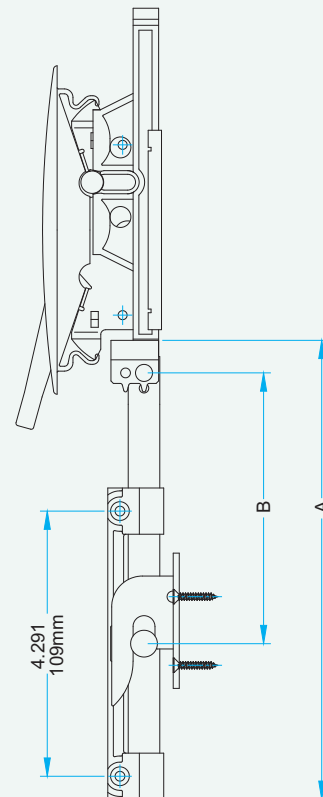


Tie Bar Assemblies				
Part Number	Lock Points	"A"	"B"	"C"
19203-58.58-3	3	1487.9mm[58.58"]	111.3mm[4.382"]	619.2mm[24.378"]
19203-52.58-3	3	1335.5mm[52.58"]	111.3mm[4.382"]	543.0mm[21.378"]
19203-46.58-3	3	1183.1mm[46.58"]	111.3mm[4.382"]	466.8mm[18.378"]
19203-46.58-2	2	1183.1mm[46.58"]	111.3mm[4.382"]	
19203-40.58-3	3	1030.7mm[40.58"]	111.3mm[4.382"]	390.6mm[15.378"]
19203-40.58-2	2	1030.7mm[40.58"]	111.3mm[4.382"]	
19203-34.58-2	2	878.3mm[34.58"]	111.3mm[4.382"]	
19203-28.58-2	2	725.9mm[28.58"]	111.3mm[4.382"]	
19203-22.58-2	2	573.5mm[22.58"]	111.3mm[4.382"]	
19203-16.58-2	2	421.1mm[16.58"]	111.3mm[4.382"]	
19203-10.58-2	2	268.7mm[10.58"]	111.3mm[4.382"]	

Awning Application with Flange Keeper

Left Hand Shown

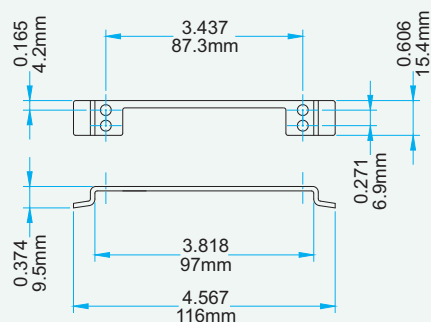
Tie Bar Assemblies			
Part Number	Lock Points	"A"	"B"
19203-7043-1	1	188.7mm[7.429"]	111.3mm[4.382"]



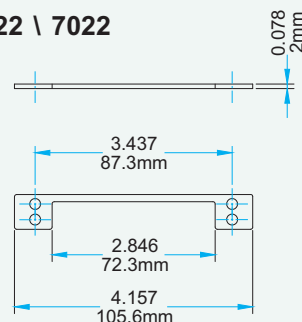
ACCESSORIES FOR LOCKING HANDLES

Backing Plate

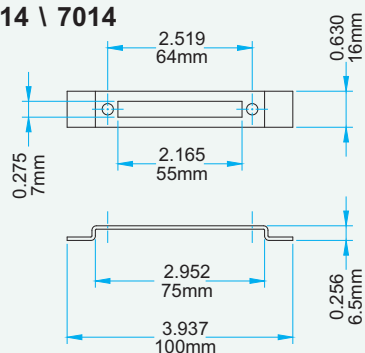
19025 \ 9025 \ 7025



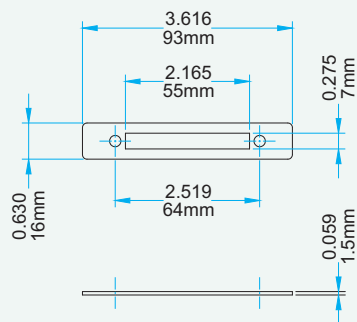
19022 \ 9022 \ 7022



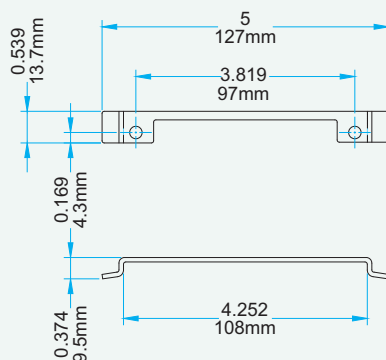
19014 \ 9014 \ 7014



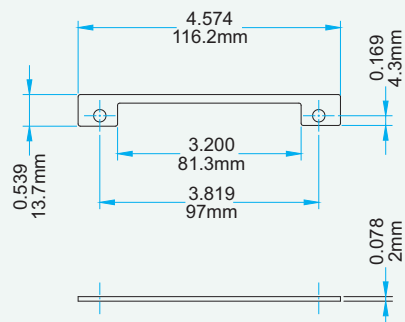
19020 \ 9020 \ 7020



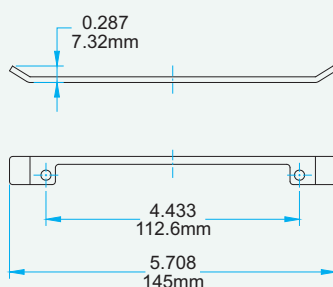
19024 \ 9024 \ 7024



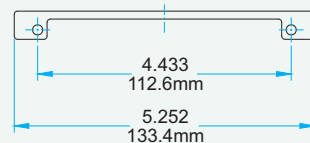
19021 \ 9021 \ 7021



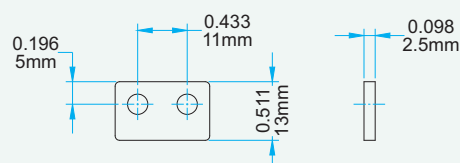
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19027



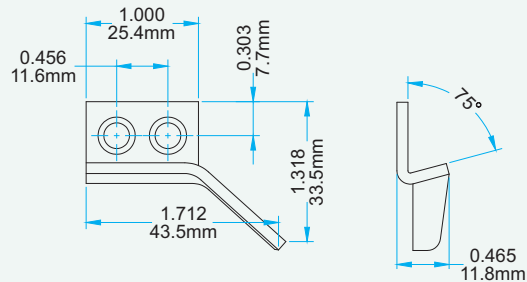
190137



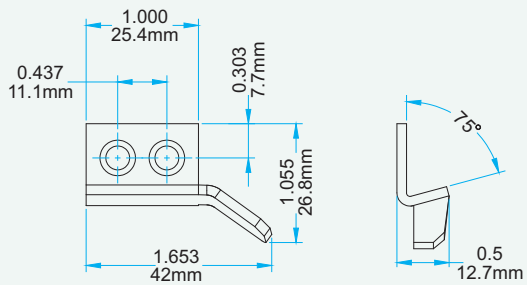


Multi Point Lock Keeper

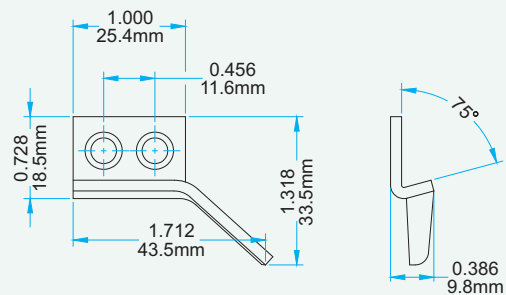
Part Number	Material	Hand
19030R1	Steel	RH
19031R1	Steel	LH



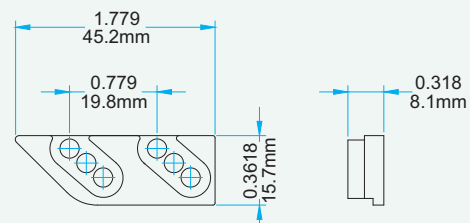
Part Number	Material	Hand
19033	Steel	LH
19034	Steel	RH



Part Number	Material	Hand
19037	Steel	RH
19038	Steel	LH



Part Number	Material	Hand
2040	Nylon	LH
2041	Nylon	RH



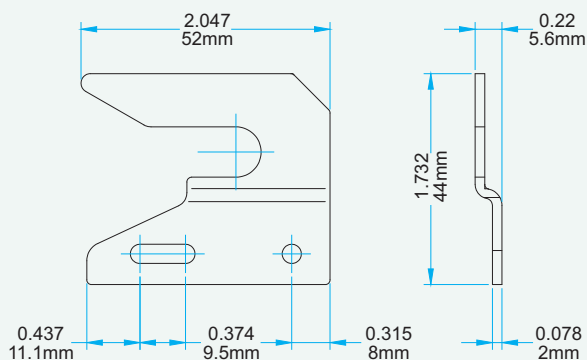
Note: Right Hand Shown
(Left Hand Opposite)

ACCESSORIES FOR LOCKING HANDLES

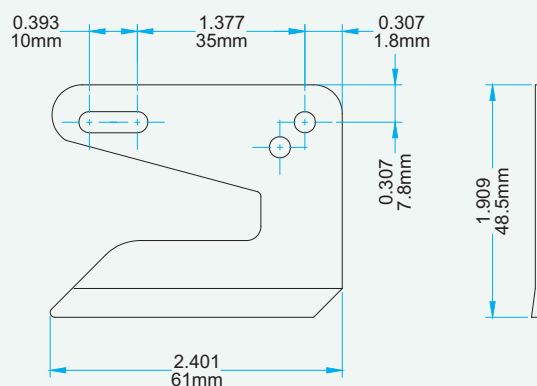
Multi Point Lock Keeper

1. Locking Handle & Accessories

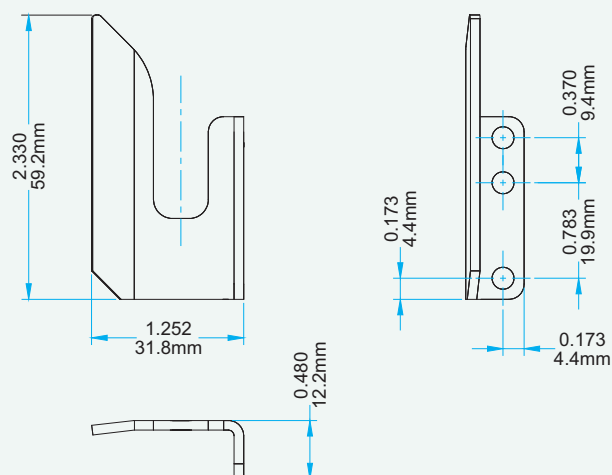
Part Number	Material	Hand
7084	SST	RH
7085	SST	LH
19084	Steel	RH
19085	Steel	LH



Part Number	Material	Hand
190485	Steel	LH
190486	Steel	RH

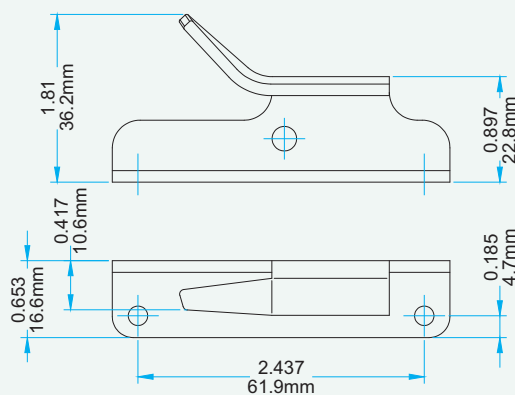


Part Number	Material	Hand
190487	Steel	LH
190487	Steel	RH

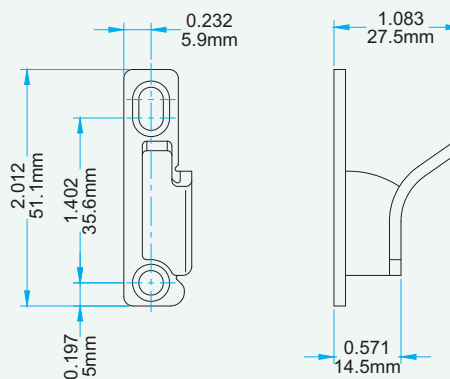


Note: Right Hand Shown
(Left Hand Opposite)

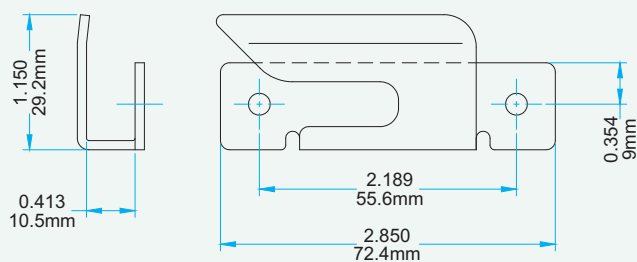
Part Number	Material	Hand
19077	Steel	LH
19078	Steel	RH



Part Number	Material	Hand
19028	Steel	LH
19029	Steel	RH



Part Number	Material	Hand
19053	Steel	LH
19054	Steel	RH



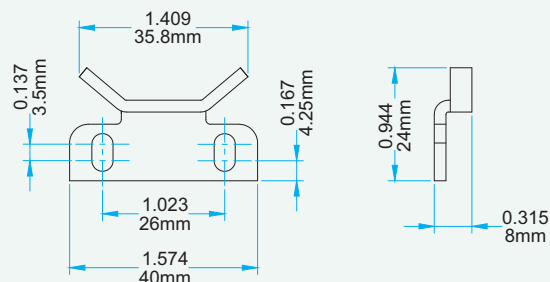
Note: Right Hand Shown
(Left Hand Opposite)

ACCESSORIES FOR LOCKING HANDLES

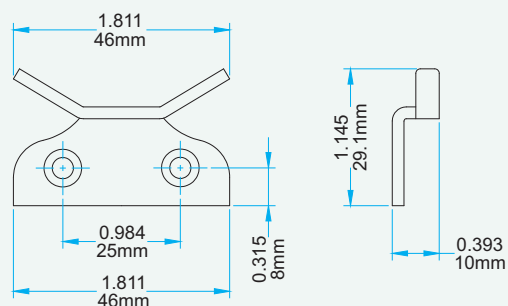
Multi Point Lock Keeper

1. Locking Handle & Accessories

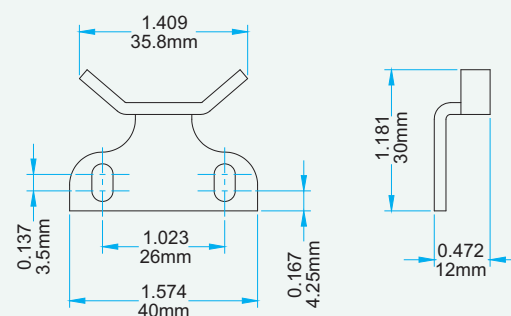
Part Number	Material	Hand
19051	Steel	Non



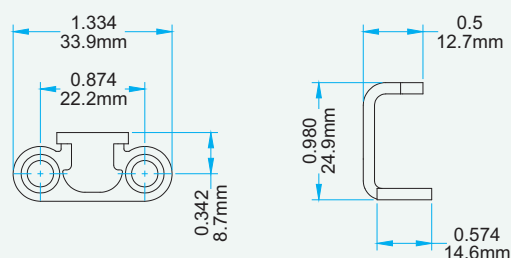
Part Number	Material	Hand
19052	Steel	Non



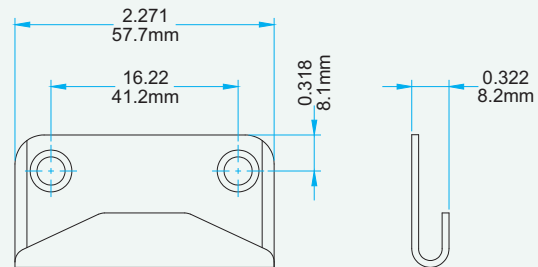
Part Number	Material	Hand
19055	Steel	Non
7055	Steel	Non



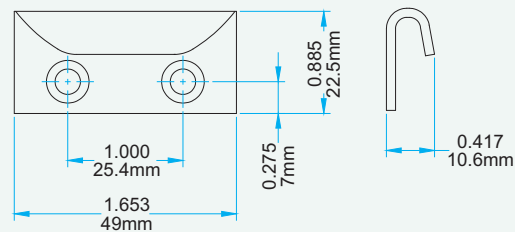
Part Number	Material	Hand
19058	Steel	Non



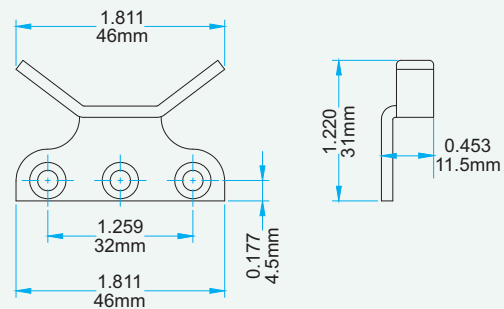
Part Number	Material	Hand
7070	SST	Non



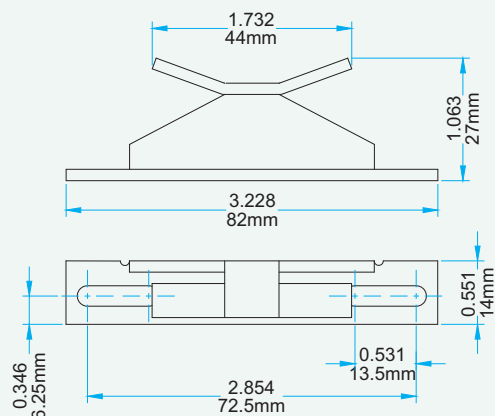
Part Number	Material	Hand
R196	Steel	Non
70196	SST	Non



Part Number	Material	Hand
19050	Steel	Non



Part Number	Material	Hand
19074	Steel	Non

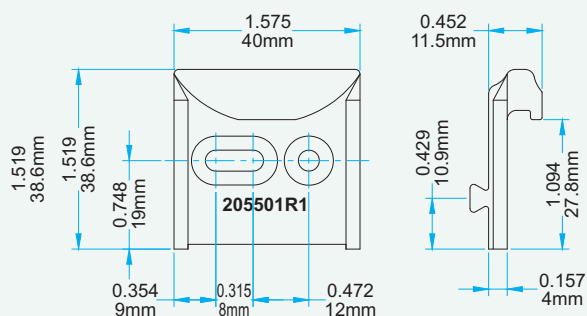


ACCESSORIES FOR LOCKING HANDLES

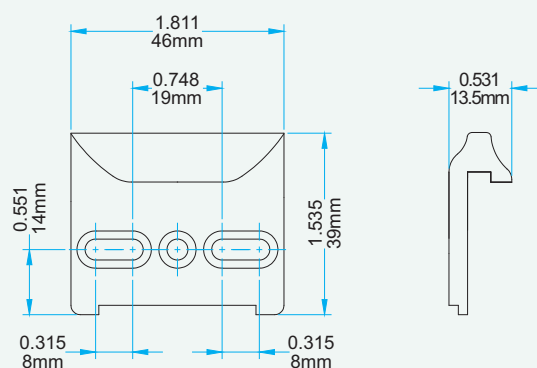
Multi Point Lock Keeper

1. Locking Handle & Accessories

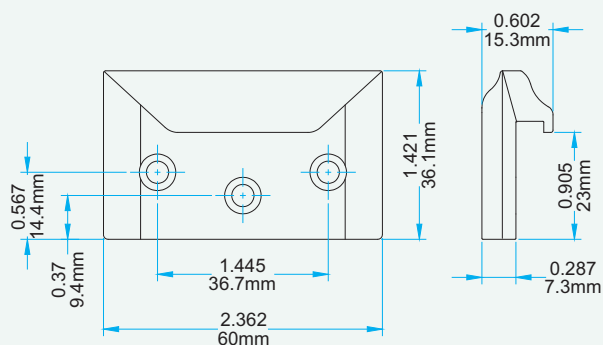
Part Number	Material	Hand
205501R1	Nylon	Non



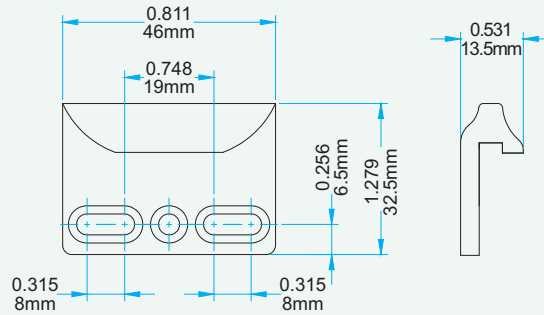
Part Number	Material	Hand
20550	Nylon	Non



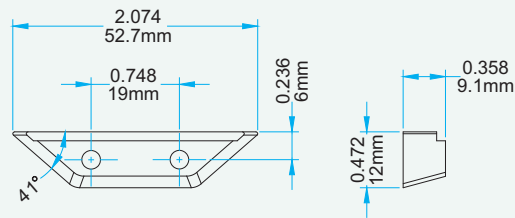
Part Number	Material	Hand
20554	Nylon	Non



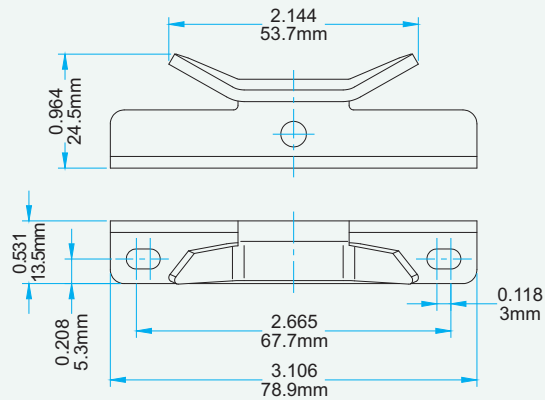
Part Number	Material	Hand
20552	Nylon	Non



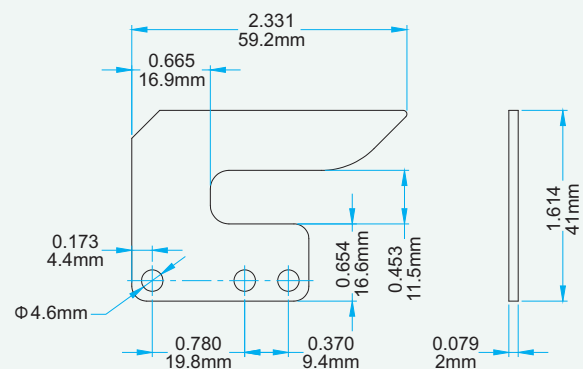
Part Number	Material	Hand
20560	Nylon	Non



Part Number	Material	Hand
19079	Steel	Non



Part Number	Material	Hand
190489	Steel	Non

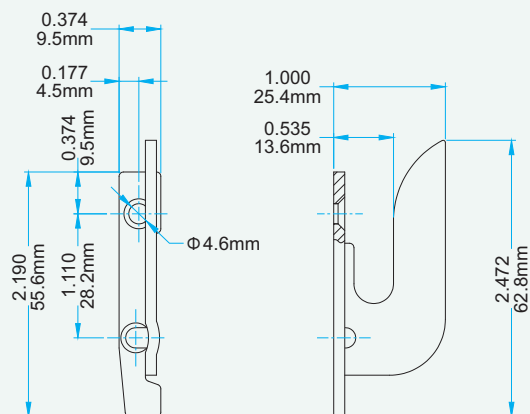


ACCESSORIES FOR LOCKING HANDLES

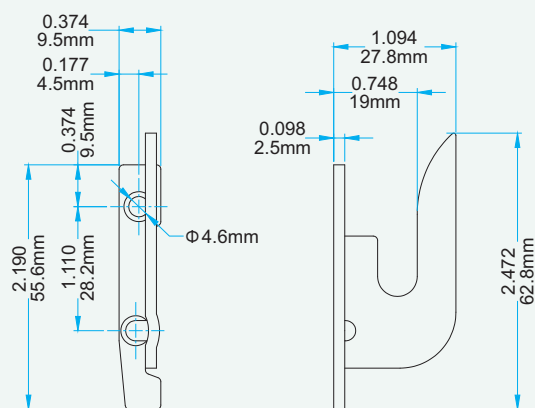
Multi Point Lock Keeper

1. Locking Handle & Accessories

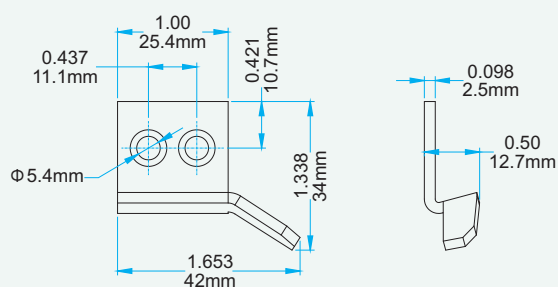
Part Number	Material	Hand
190492	Steel	LH
190493	Steel	RH



Part Number	Material	Hand
190495	Steel	LH
190494	Steel	RH



Part Number	Material	Hand
190496	Steel	RH
190497	Steel	LH

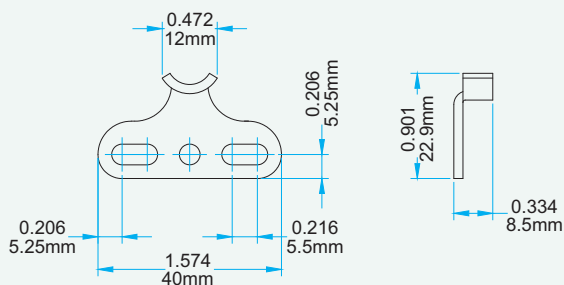


Note: Right Hand Shown
(Left Hand Opposite)

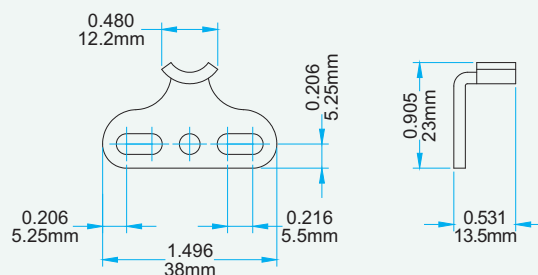


Awning Keeper

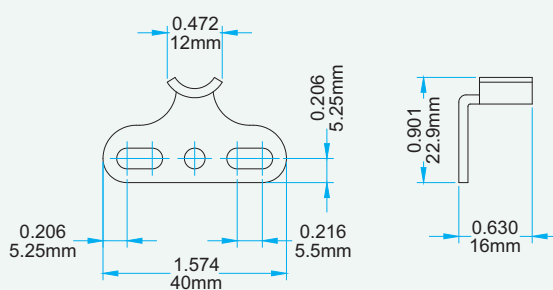
Part Number	Material	Hand
19059	Steel	Non



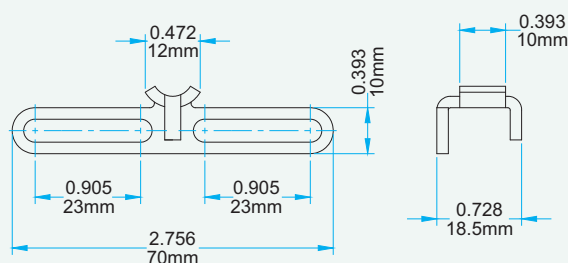
Part Number	Material	Hand
19060	Steel	Non



Part Number	Material	Hand
19061	Steel	Non



Part Number	Material	Hand
19065	Steel	Non

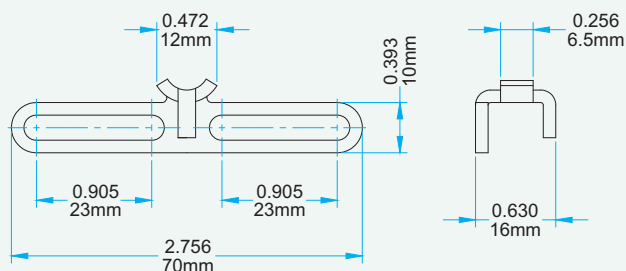


ACCESSORIES FOR LOCKING HANDLES

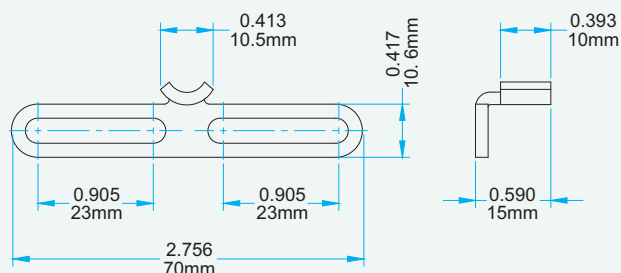
Awning Keeper

1. Locking Handle & Accessories

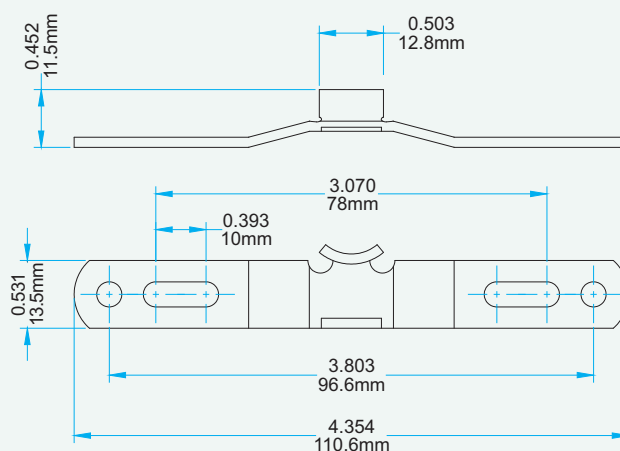
Part Number	Material	Hand
19067	Steel	Non



Part Number	Material	Hand
19068	Steel	Non

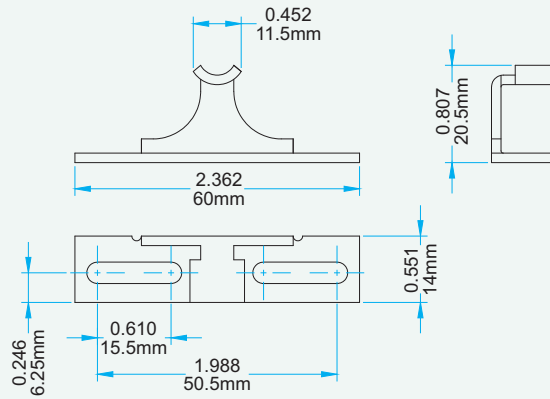


Part Number	Material	Hand
7069	SST	Non
19069	Steel	Non

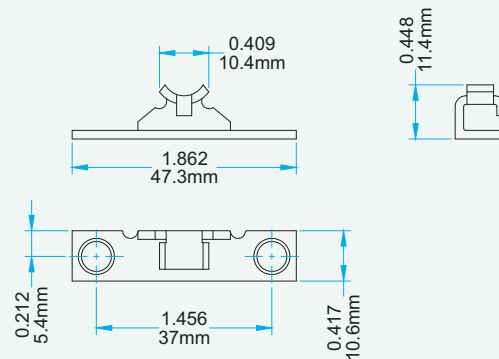




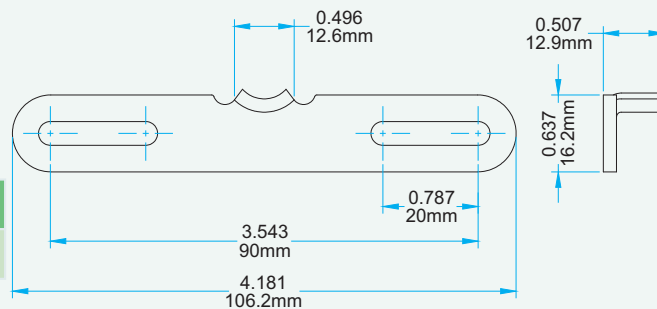
Part Number	Material	Hand
19075	Steel	Non



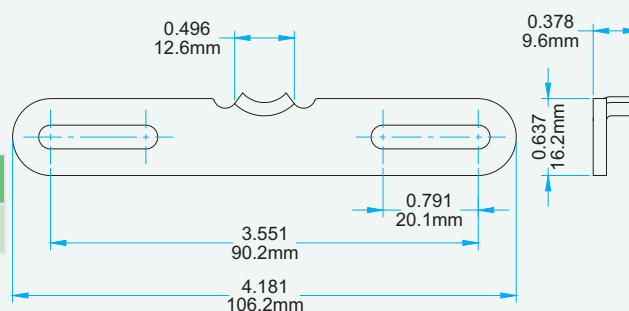
Part Number	Material	Hand
19385R1	Steel	Non



Part Number	Material	Hand
7035	SST	Non



Part Number	Material	Hand
7036	SST	Non

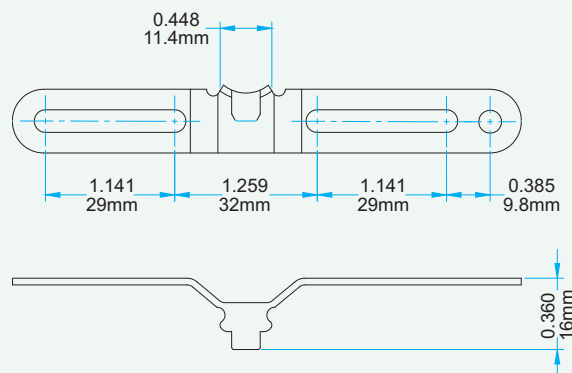


ACCESSORIES FOR LOCKING HANDLES

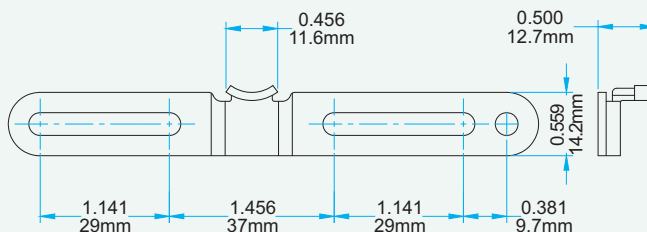
Awning Keeper

1. Locking Handle & Accessories

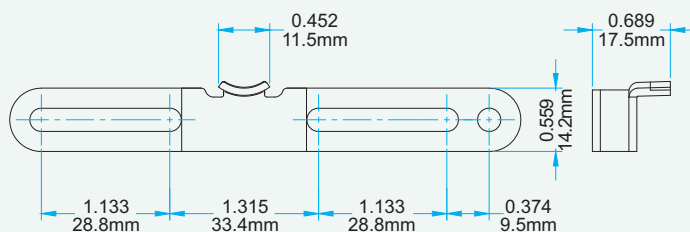
Part Number	Material	Hand
7057	SST	Non



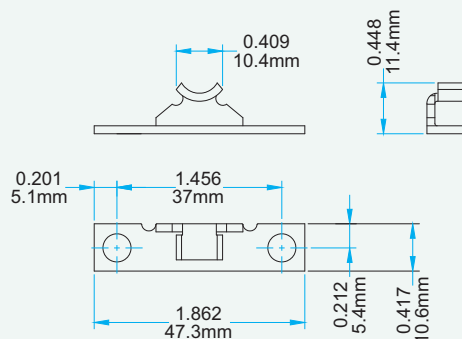
Part Number	Material	Hand
7080	SST	Non

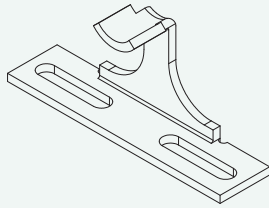


Part Number	Material	Hand
7082	SST	Non

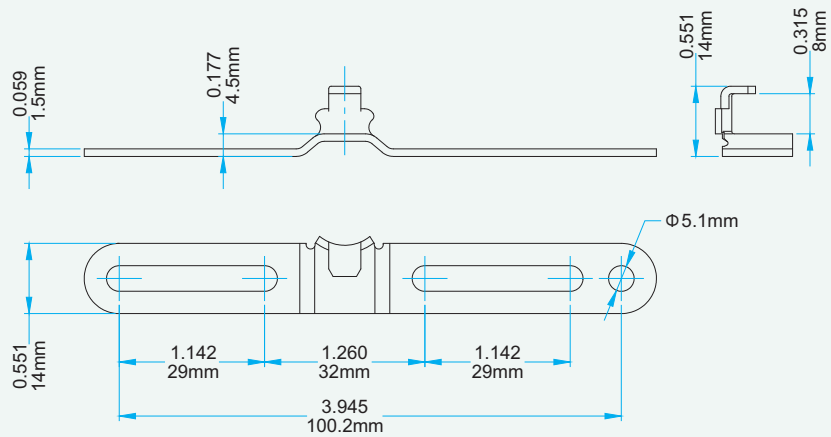
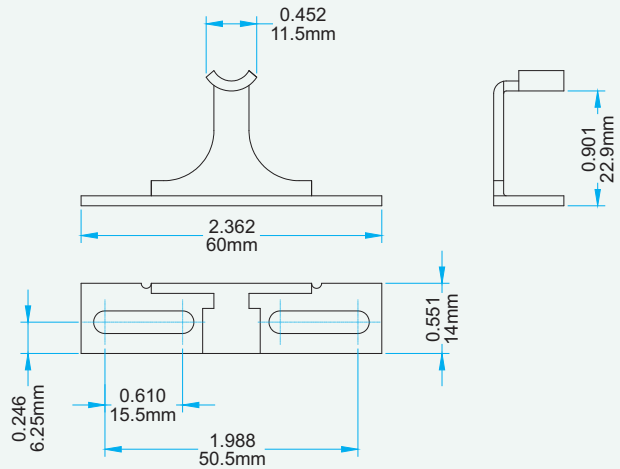


Part Number	Material	Hand
19385	Steel	Non

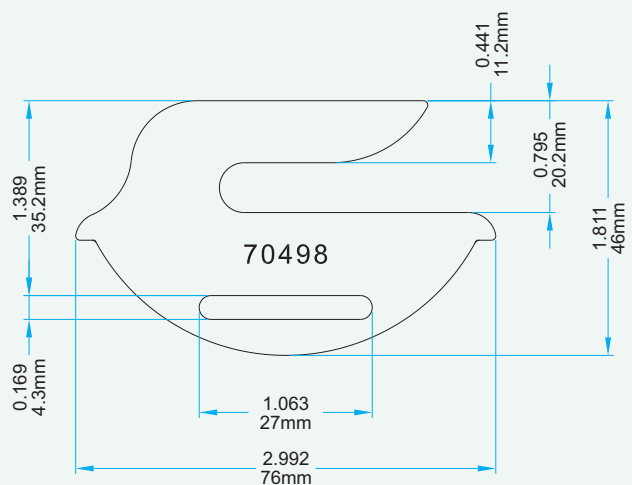




Part Number	Material	Hand
19076	Steel	Non



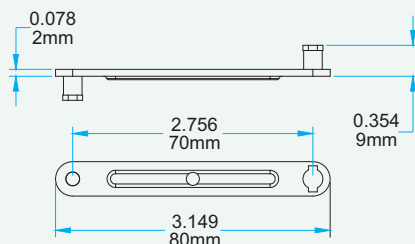
Part Number	Material	Hand
70491	SST	Non



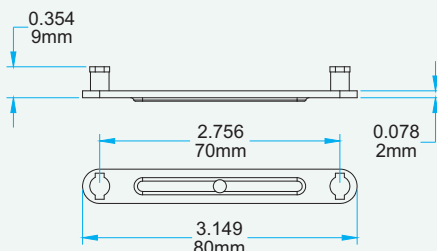
Part Number	Material	Hand
70498	SST	Non

ACCESSORIES FOR LOCKING HANDLES

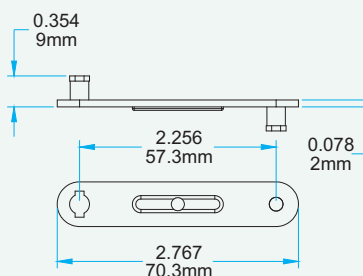
Tie Bar Connector



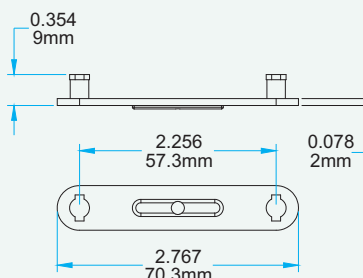
Part Number	Description	Material	Hand
19070	Long, 2 Studs Opposite	Steel	Non



Part Number	Description	Material	Hand
19071	Long, 2 Studs Side	Steel	Non



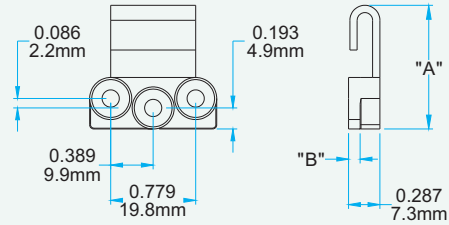
Part Number	Description	Material	Hand
190702	Long, 2 Studs Opposite	Steel	Non



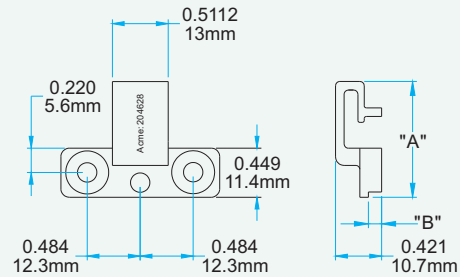
Part Number	Description	Material	Hand
190701	Long, 2 Studs Side	Steel	Non

Tie Bar Guide

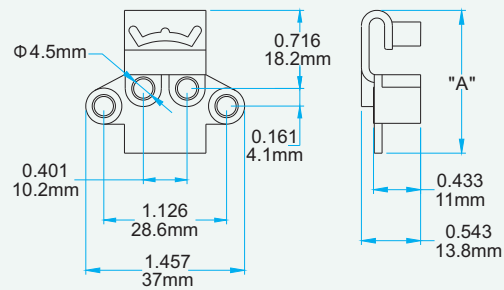
Part Number	"A"	"B"	Hand
2020	1.063"	0.106"	Non



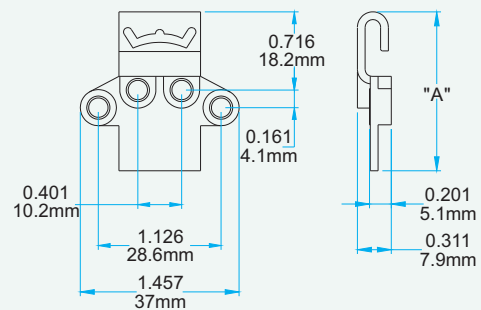
Part Number	"A"	"B"	Hand
2022	1.059"	0.122"	Non



Part Number	"A"		Hand
2024	1.309"		Non



Part Number	"A"		Hand
2025	1.456"		Non

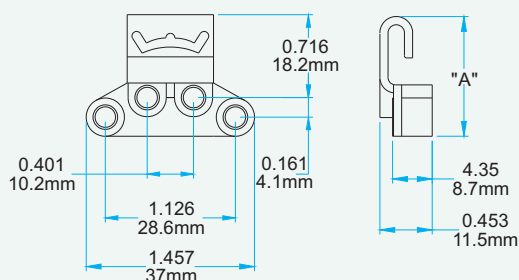


ACCESSORIES FOR LOCKING HANDLES

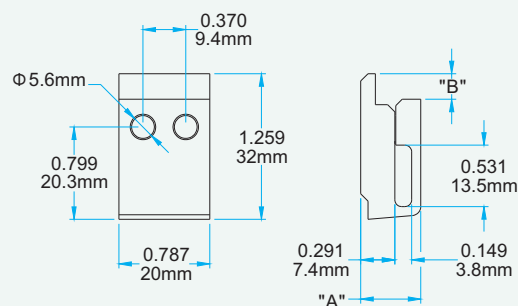
Tie Bar Guide

1. Locking Handle & Accessories

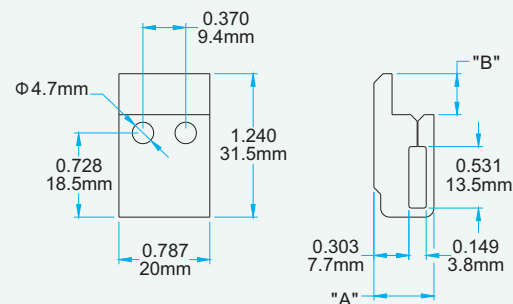
Part Number	"A"		Hand
2026	1.043"		Non



Part Number	"A"	"B"	Hand
20320	0.519"	0.221"	Non

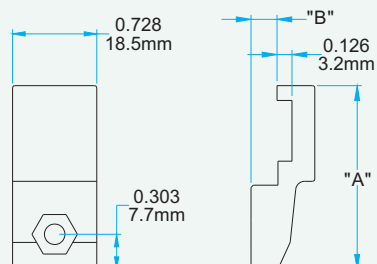


Part Number	"A"	"B"	Hand
20321	0.519"	0.354"	Non

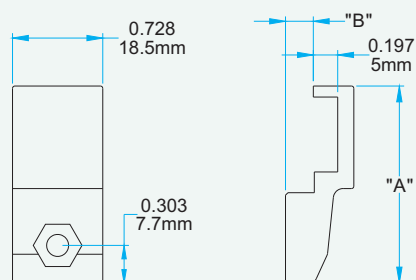




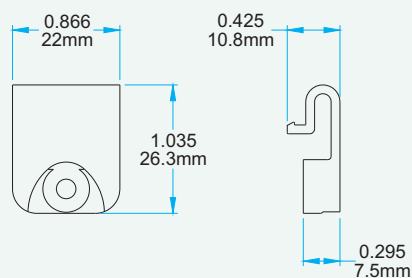
Part Number	"A"	"B"	Hand
2076	1.588"	0.224"	Non



Part Number	"A"	"B"	Hand
2077	1.588"	0.224"	Non



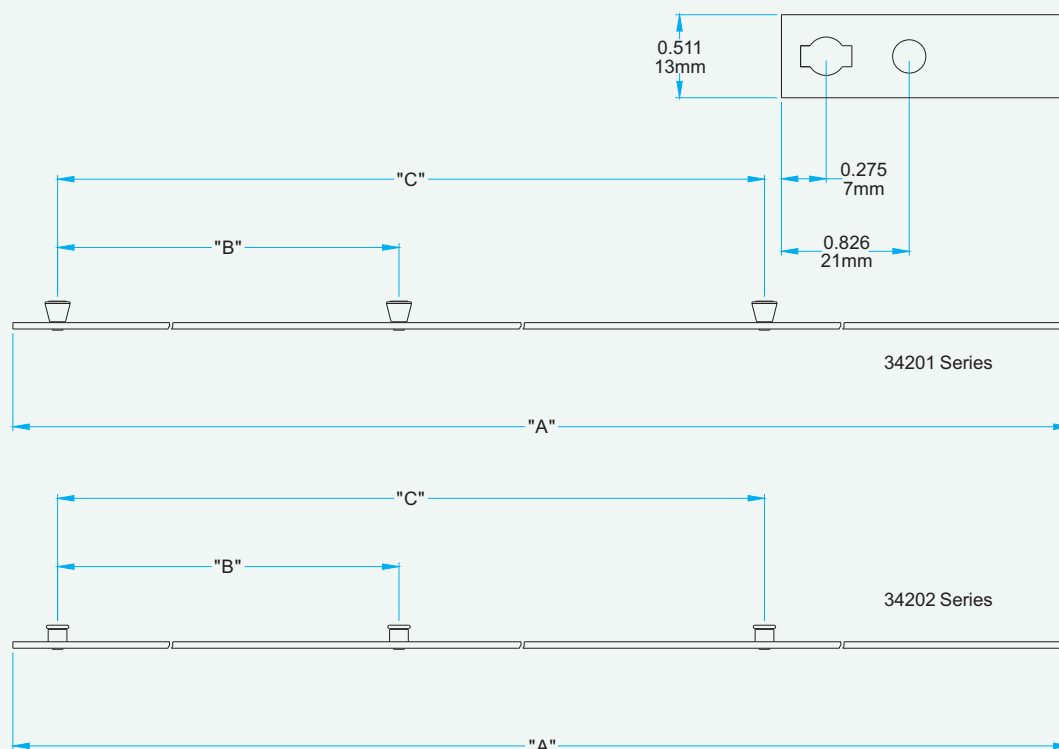
Part Number			Hand
20201			Non



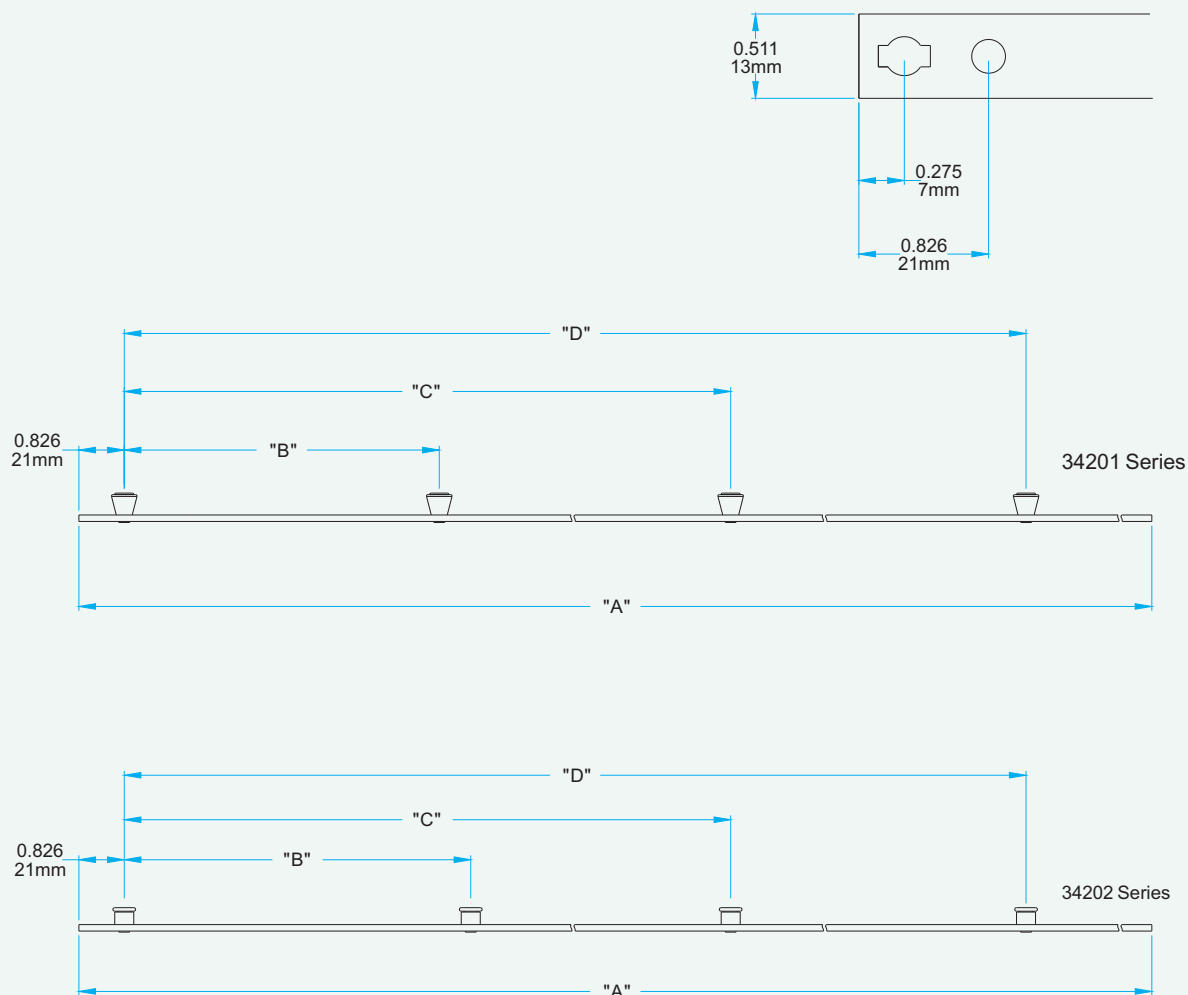
ACCESSORIES FOR LOCKING HANDLES

Tie Bar 34201&34202 Series

1. Locking Handle & Accessories



Window Height	P/N Com Roller 34201		P/N Interlock Roller 34202		A	B	C
	2 Rollers	3 Rollers	2 Rollers	3 Rollers			
558.8mm[22"]	34201-22-2	N/A	34202-22-2	N/A	276.9mm[10.9"]	N/A	160.6mm[6.323"]
17"-19.499"	34201-19-2	N/A	34202-19-2	N/A	322.6mm[12.7"]	N/A	153.6mm[6.047"]
19.5"-20.999"	34201-21-2	N/A	34202-21-2	N/A	378.5mm[14.9"]	N/A	255.2mm[10.047"]
660.4mm[26"]	34201-26-2	N/A	34202-26-2	N/A	378.5mm[14.9"]	N/A	262.2mm[10.323"]
762.0mm[30"]	34201-30-2	N/A	34202-30-2	N/A	480.1mm[18.9"]	N/A	363.8mm[14.323"]
863.6mm[34"]	34201-34-2	34201-34-3	34202-34-2	34202-34-3	581.7mm[22.9"]	245.1mm[9.65"]	465.4mm[18.323"]
965.2mm[38"]	34201-38-2	34201-38-3	34202-38-2	34202-38-3	683.3mm[26.9"]	295.9mm[11.65"]	567.0mm[22.323"]
1066.8mm[42"]	34201-42-2	34201-42-3	34202-42-2	34202-42-3	784.9mm[30.9"]	346.7mm[13.65"]	668.6mm[26.323"]
1168.4mm[46"]	34201-46-2	34201-46-3	34202-46-2	34202-46-3	886.5mm[34.9"]	397.5mm[15.65"]	770.2mm[30.323"]
1270.0mm[50"]	34201-50-2	34201-50-3	34202-50-2	34202-50-3	988.1mm[38.9"]	448.3mm[17.65"]	871.8mm[34.323"]
1371.6mm[54"]	34201-54-2	34201-54-3	34202-54-2	34202-54-3	1089.7mm[42.9"]	499.1mm[19.65"]	973.4mm[38.323"]
1473.2mm[58"]	34201-58-2	34201-58-3	34202-58-2	34202-58-3	1191.3mm[46.9"]	549.9mm[21.65"]	1075.0mm[42.323"]
1574.8mm[62"]	34201-62-2	34201-62-3	34202-62-2	34202-62-3	1292.9mm[50.9"]	600.7mm[23.65"]	1176.6mm[46.323"]
1676.4mm[66"]	34201-66-2	34201-66-3	34202-66-2	34202-66-3	1394.5mm[54.9"]	651.5mm[25.65"]	1278.2mm[50.323"]
1778.0mm[70"]	34201-70-2	34201-70-3	34202-70-2	34202-70-3	1496.1mm[58.9"]	702.3mm[27.65"]	1379.8mm[54.323"]

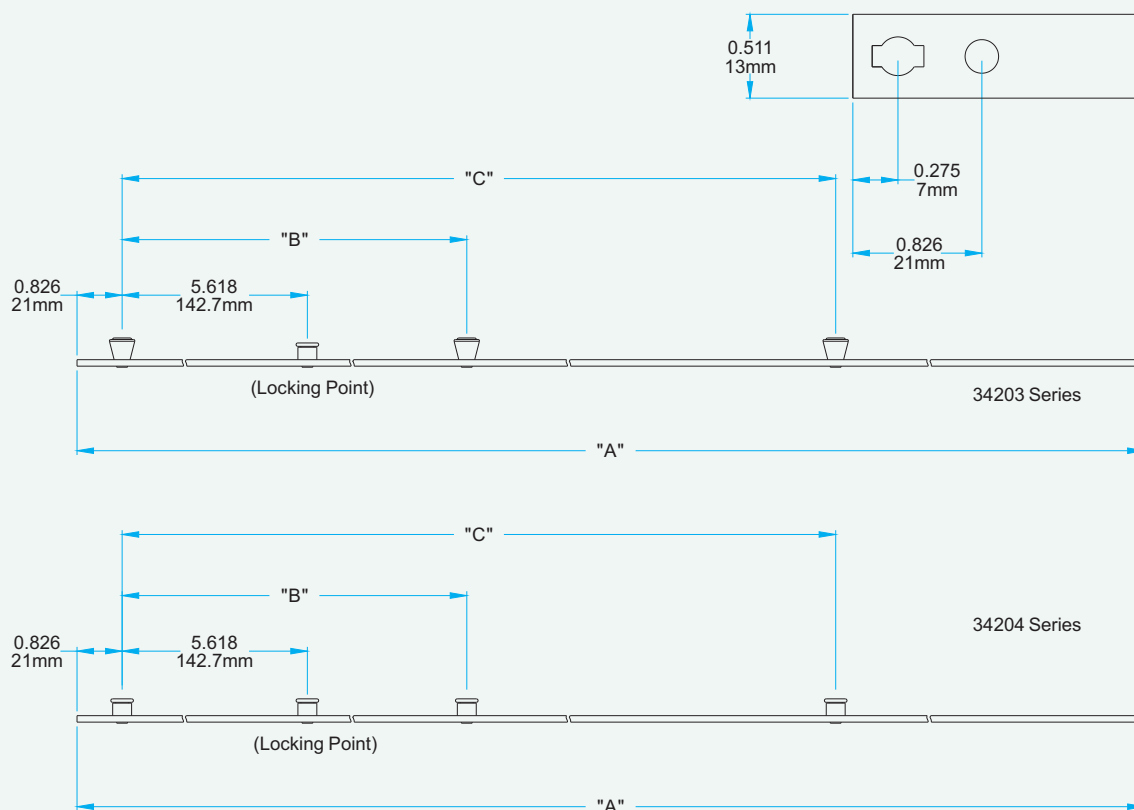


Window Height	P/N Corn Roller 34201		P/N Interlock Roller 34202		A	B	C	D
	3 Rollers	4 Rollers	3 Rollers	4 Rollers				
1371.6mm[54"]	N/A	34201-54-4	N/A	34202-54-4	1089.7mm[42.9"]	324.2mm[12.765"]	651.5mm[25.650"]	975.9mm[38.422"]
1473.2mm[58"]	N/A	34201-58-4	N/A	34202-58-4	1191.3mm[46.9"]	358.1mm[14.100"]	719.5mm[28.325"]	1077.5mm[42.422"]
1574.8mm[62"]	N/A	34201-62-4	N/A	34202-62-4	1292.9mm[50.9"]	392.0mm[15.433"]	787.5mm[31.004"]	1179.1mm[46.422"]
1676.4mm[66"]	N/A	34201-66-4	N/A	34202-66-4	1394.5mm[54.9"]	425.9mm[16.768"]	855.5mm[33.681"]	1280.7mm[50.422"]
1778.0mm[70"]	N/A	34201-70-4	N/A	34202-70-4	1496.1mm[58.9"]	459.8mm[18.102"]	923.5mm[36.358"]	1382.3mm[54.422"]
1879.6mm[74"]	N/A	34201-74-4	N/A	34202-74-4	1597.7mm[62.9"]	493.5mm[19.429"]	987.6mm[38.882"]	1481.4mm[58.323"]
1981.2mm[78"]	N/A	34201-78-4	N/A	34202-78-4	1699.3mm[66.9"]	527.2mm[20.756"]	1055.1mm[41.539"]	1583.0mm[62.323"]
2082.8mm[82"]	N/A	34201-82-4	N/A	34202-82-4	1800.9mm[70.9"]	561.3mm[22.098"]	1123.0mm[44.213"]	1684.6mm[66.323"]

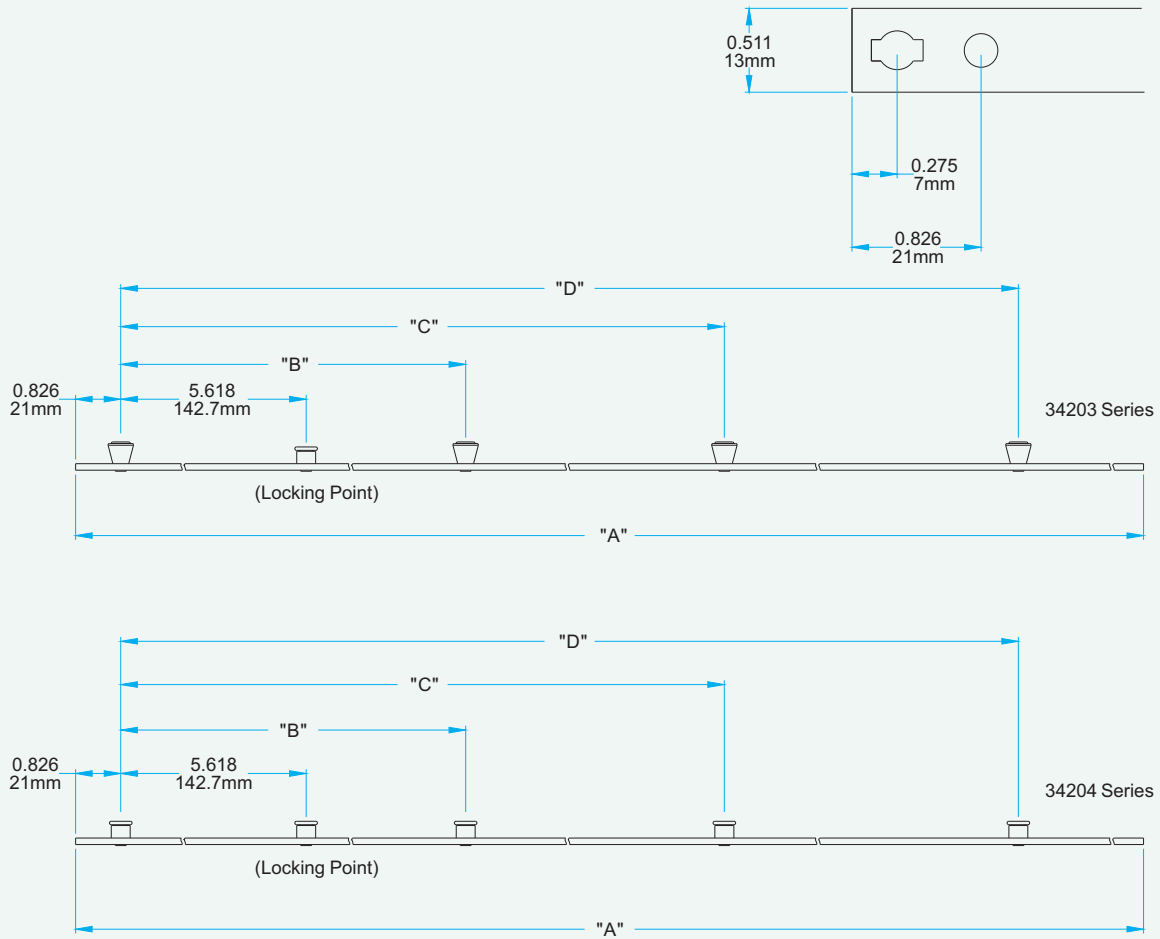
ACCESSORIES FOR LOCKING HANDLES

Tie Bar 34203&34204 Series

1. Locking Handle & Accessories



Window Height	P/N Com Roller 34203		P/N Interlock Roller 34204		A	B	C
	2 Rollers	3 Rollers	2 Rollers	3 Rollers			
558.8mm[22"]	34203-22-2	N/A	34204-22-2	N/A	276.9mm[10.9"]	N/A	160.6mm[6.323"]
17"-19.499"	34203-19-2	N/A	34204-19-2	N/A	322.6mm[12.7"]	N/A	153.6mm[6.047"]
19.5"-20.999"	34203-21-2	N/A	34204-21-2	N/A	378.5mm[14.9"]	N/A	255.2mm[10.047"]
660.4mm[26"]	34203-26-2	N/A	34204-26-2	N/A	378.5mm[14.9"]	N/A	262.2mm[10.323"]
762.0mm[30"]	34203-30-2	N/A	34204-30-2	N/A	480.1mm[18.9"]	N/A	363.8mm[14.323"]
863.6mm[34"]	34203-34-2	34203-34-3	34204-34-2	34204-34-3	581.7mm[22.9"]	245.1mm[9.65"]	465.4mm[18.323"]
965.2mm[38"]	34203-38-2	34203-38-3	34204-38-2	34204-38-3	683.3mm[26.9"]	295.9mm[11.65"]	567.0mm[22.323"]
1066.8mm[42"]	34203-42-2	34203-42-3	34204-42-2	34204-42-3	784.9mm[30.9"]	346.7mm[13.65"]	668.6mm[26.323"]
1168.4mm[46"]	34203-46-2	34203-46-3	34204-46-2	34204-46-3	886.5mm[34.9"]	397.5mm[15.65"]	770.2mm[30.323"]
1270.0mm[50"]	34203-50-2	34203-50-3	34204-50-2	34204-50-3	988.1mm[38.9"]	448.3mm[17.65"]	871.8mm[34.323"]
1371.6mm[54"]	34203-54-2	34203-54-3	34204-54-2	34204-54-3	1089.7mm[42.9"]	499.1mm[19.65"]	973.4mm[38.323"]
1473.2mm[58"]	34203-58-2	34203-58-3	34204-58-2	34204-58-3	1191.3mm[46.9"]	549.9mm[21.65"]	1075.0mm[42.323"]
1574.8mm[62"]	31203-62-2	34203-62-3	34204-62-2	34204-62-3	1292.9mm[50.9"]	600.7mm[23.65"]	1176.6mm[46.323"]
1676.4mm[66"]	31203-66-2	34203-66-3	34204-66-2	34204-66-3	1394.5mm[54.9"]	651.5mm[25.65"]	1278.2mm[50.323"]
1778.0mm[70"]	31203-70-2	34203-70-3	34204-70-2	34204-70-3	1496.1mm[58.9"]	702.3mm[27.65"]	1379.8mm[54.323"]

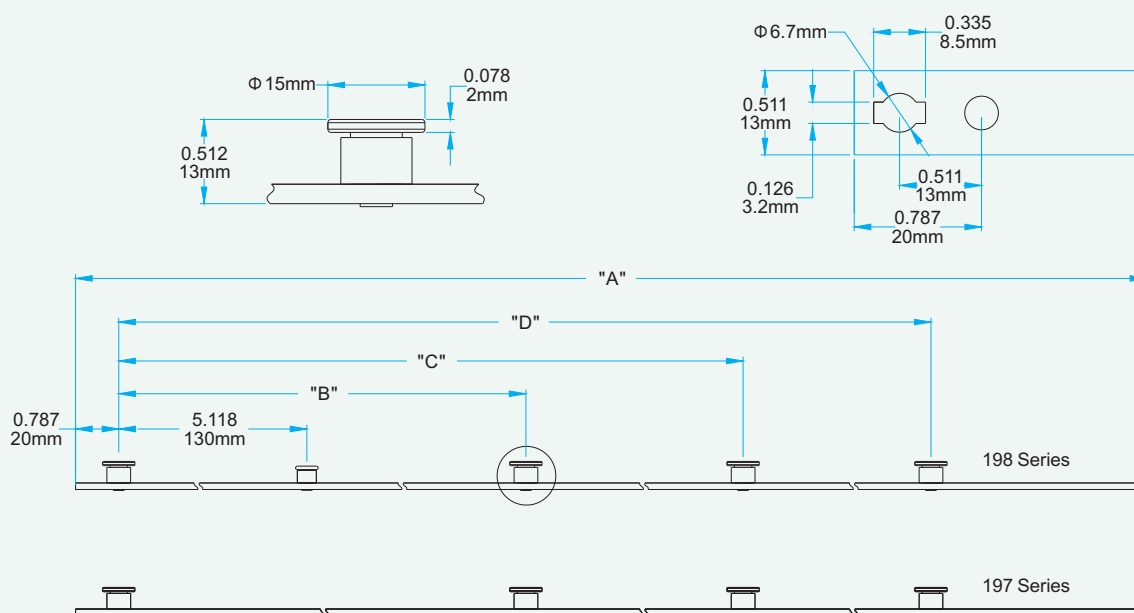


Window Height	P/N Com Roller 34203		P/N Interlock Roller 34204		A	B	C	D
	3 Rollers	4 Rollers	3 Rollers	4 Rollers				
1371.6mm[54"]	N/A	34203-54-4	N/A	34204-54-4	1089.7mm[42.9"]	324.2mm[12.765"]	651.5mm[25.650"]	975.9mm[38.422"]
1473.2mm[58"]	N/A	34203-58-4	N/A	34204-58-4	1191.3mm[46.9"]	358.1mm[14.100"]	719.5mm[28.325"]	1077.5mm[42.422"]
1574.8mm[62"]	N/A	34203-62-4	N/A	34204-62-4	1292.9mm[50.9"]	392.0mm[15.433"]	787.5mm[31.004"]	1179.1mm[46.422"]
1676.4mm[66"]	N/A	34203-66-4	N/A	34204-66-4	1394.5mm[54.9"]	425.9mm[16.768"]	855.5mm[33.681"]	1280.7mm[50.422"]
1778.0mm[70"]	N/A	34203-70-4	N/A	34204-70-4	1496.1mm[58.9"]	459.8mm[18.102"]	923.5mm[36.358"]	1382.3mm[54.422"]
1879.6mm[74"]	N/A	34203-74-4	N/A	34204-74-4	1597.7mm[62.9"]	493.5mm[19.429"]	987.6mm[38.882"]	1481.4mm[58.323"]
1981.2mm[78"]	N/A	34203-78-4	N/A	34204-78-4	1699.3mm[66.9"]	527.2mm[20.756"]	1055.1mm[41.539"]	1583.0mm[62.323"]
2082.8mm[82"]	N/A	34203-82-4	N/A	34204-82-4	1800.9mm[70.9"]	561.3mm[22.098"]	1123.0mm[44.213"]	1684.6mm[66.323"]

ACCESSORIES FOR LOCKING HANDLES

Tie Bar 197&198 Series

1. Locking Handle & Accessories

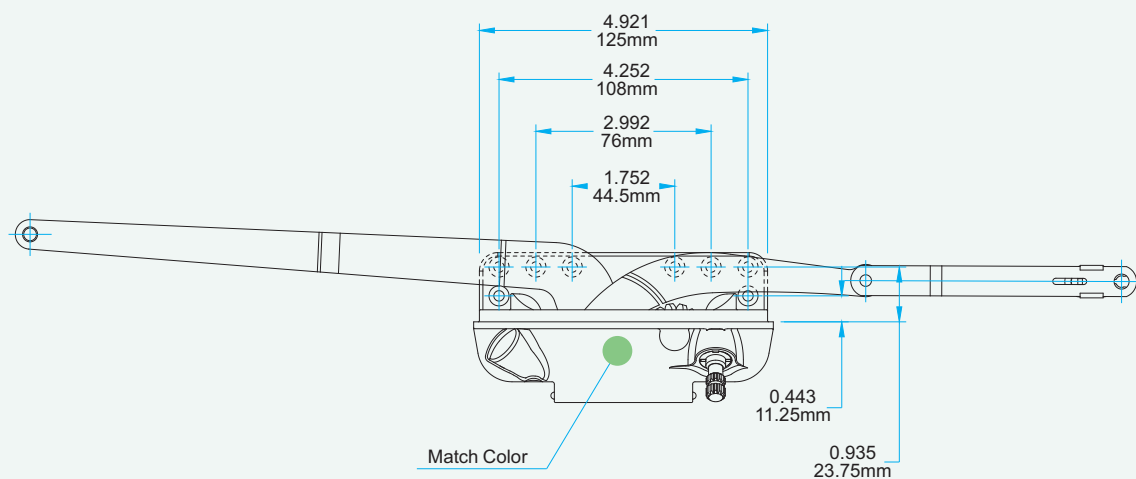
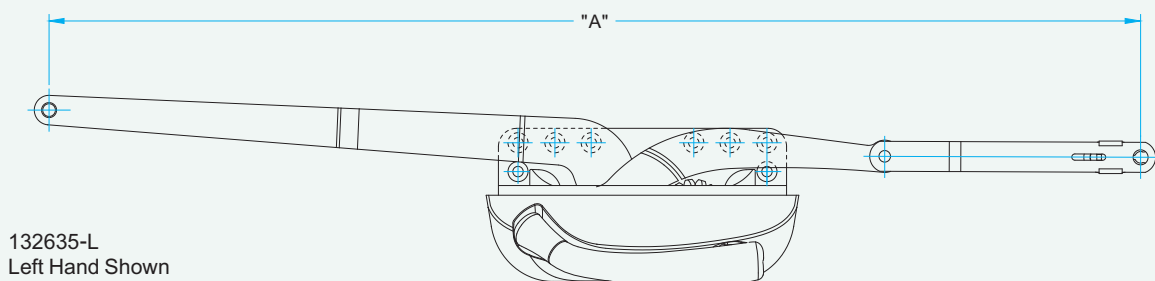


197	198	Rollers	"A"	"B"	"C"	"D"
197-0400	N/A	1	160mm[6.299"]	N/A	N/A	N/A
197-0500	N/A	1	200mm[7.874"]	N/A	N/A	N/A
197-0600	N/A	1	240mm[9.448"]	N/A	N/A	N/A
197-0700	198-0700	2	350mm[13.779"]	230mm[9.055"]	N/A	N/A
197-0800	198-0800	2	450mm[17.716"]	330mm[13.511"]	N/A	N/A
197-0900	198-0900	2	550mm[21.653"]	430mm[16.929"]	N/A	N/A
197-1000	198-1000	2	650mm[25.590"]	430mm[20.866"]	N/A	N/A
197-1100	198-1100	3	750mm[29.527"]	315mm[12.402"]	630mm[24.803"]	N/A
197-1200	198-1200	3	850mm[33.464"]	405mm[15.945"]	730mm[28.740"]	N/A
197-1300	198-1300	3	950mm[37.402"]	415mm[16.338"]	830mm[32.677"]	N/A
197-1325	198-1325	3	975mm[38.385"]	467.5mm[18.405"]	855mm[33.661"]	N/A

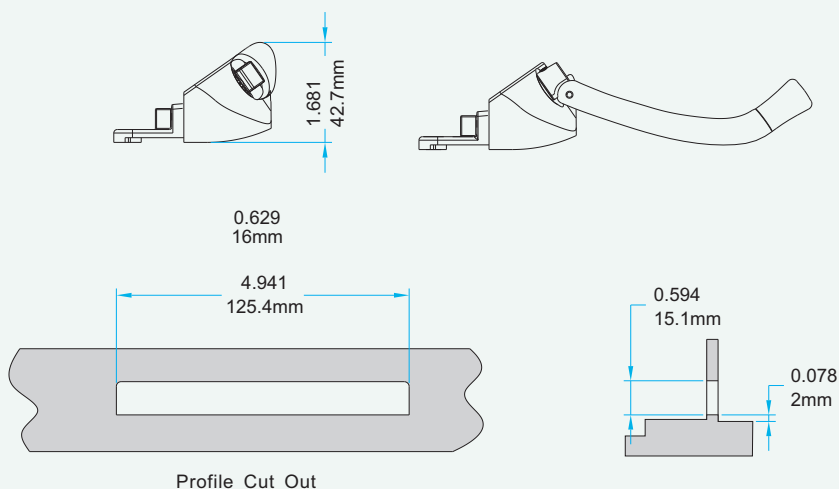
197	198	Rollers	"A"	"B"	"C"	"D"
197-1350	198-1350	3	1000mm[39.370"]	480mm[18.897"]	880mm[34.645"]	N/A
197-1400	198-1400	3	1050mm[41.338"]	465mm[18.307"]	930mm[36.614"]	N/A
197-1500	198-1500	3	1150mm[45.275"]	555mm[21.850"]	1030mm[40.551"]	N/A
197-1600	198-1600	3	1250mm[49.213"]	565mm[22.244"]	1130mm[44.488"]	N/A
197-1625	198-1625	3	1275mm[50.196"]	617.5mm[24.311"]	1155mm[45.472"]	N/A
197-1650	198-1650	3	1300mm[51.181"]	630mm[24.803"]	1180mm[46.456"]	N/A
197-1700	198-1700	3	1350mm[53.149"]	615mm[24.212"]	1230mm[48.425"]	N/A
197-1800	198-1800	3	1450mm[57.086"]	705mm[27.756"]	1330mm[52.362"]	N/A
197-1900	198-1900	4	1550mm[61.023"]	477mm[18.779"]	953mm[37.519"]	1430mm[56.299"]
197-1925	198-1925	4	1575mm[62.007"]	530mm[20.866"]	1005mm[39.566"]	1455mm[57.283"]
197-1950	198-1950	4	1600mm[62.992"]	530mm[20.866"]	1005mm[39.566"]	1480mm[58.267"]
197-2000	198-2000	4	1650mm[64.961"]	510mm[20.078"]	1020mm[40.157"]	1530mm[60.236"]
197-2100	198-2100	4	1750mm[68.897"]	545mm[21.456"]	1090mm[42.913"]	1630mm[64.173"]

CASEMENT OPERATORS

Decore Dual Arm Operator



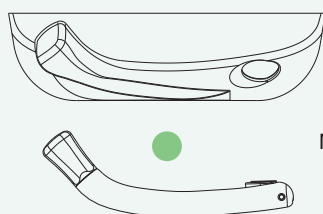
Product Name	Part Number	"A"	Match Color
Decore Dual Arm Operator,LH	132635-L	18.834"	Green
Decore Dual Arm Operator,RH	132635-R	18.834"	Red
Decore Short Arm Dual Arm Operator,LH	132635S-L	15.945"	Green
Decore Short Arm Dual Arm Operator,RH	132635S-R	15.945"	Red



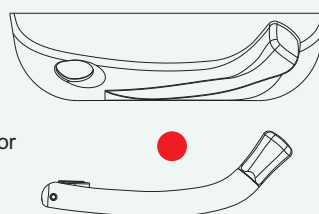
Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



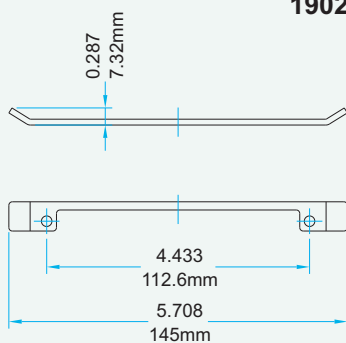
132067R1 Shown



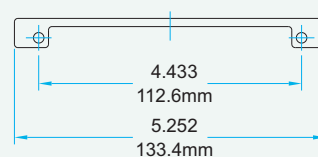
Match Color

Back Plate

19026



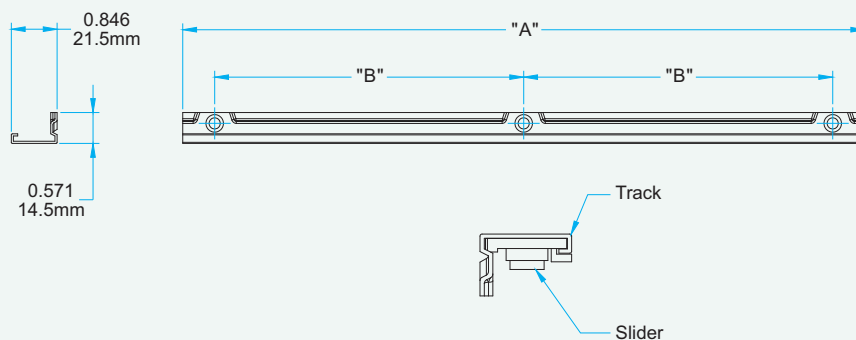
19027



CASEMENT OPERATORS

Decore Dual Arm Operator

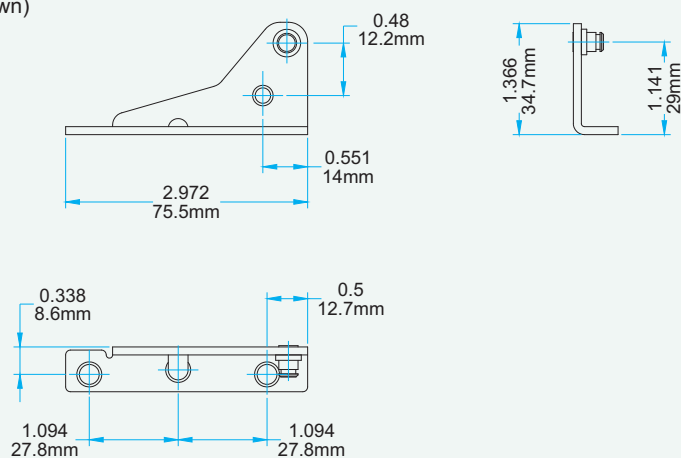
Track



Dual Arm Operator Track 3 Holes

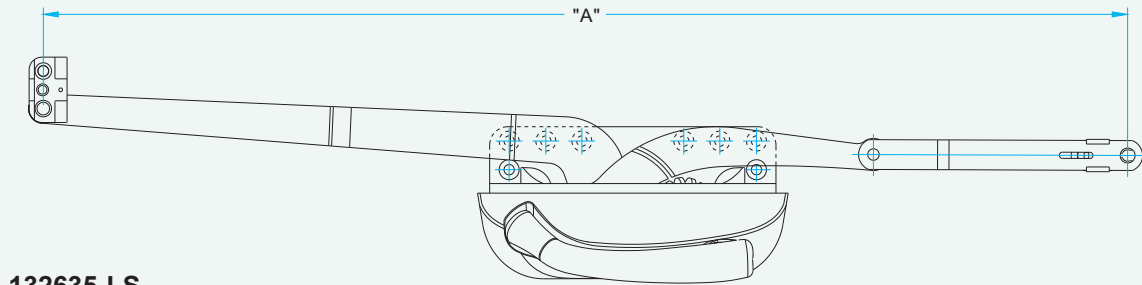
Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1	14.449"	6.496"	Steel
70052R1	12.598"	5.708"	SST
190052R1	12.598"	5.708"	Steel

Stud Bracket (Right Hand Shown)



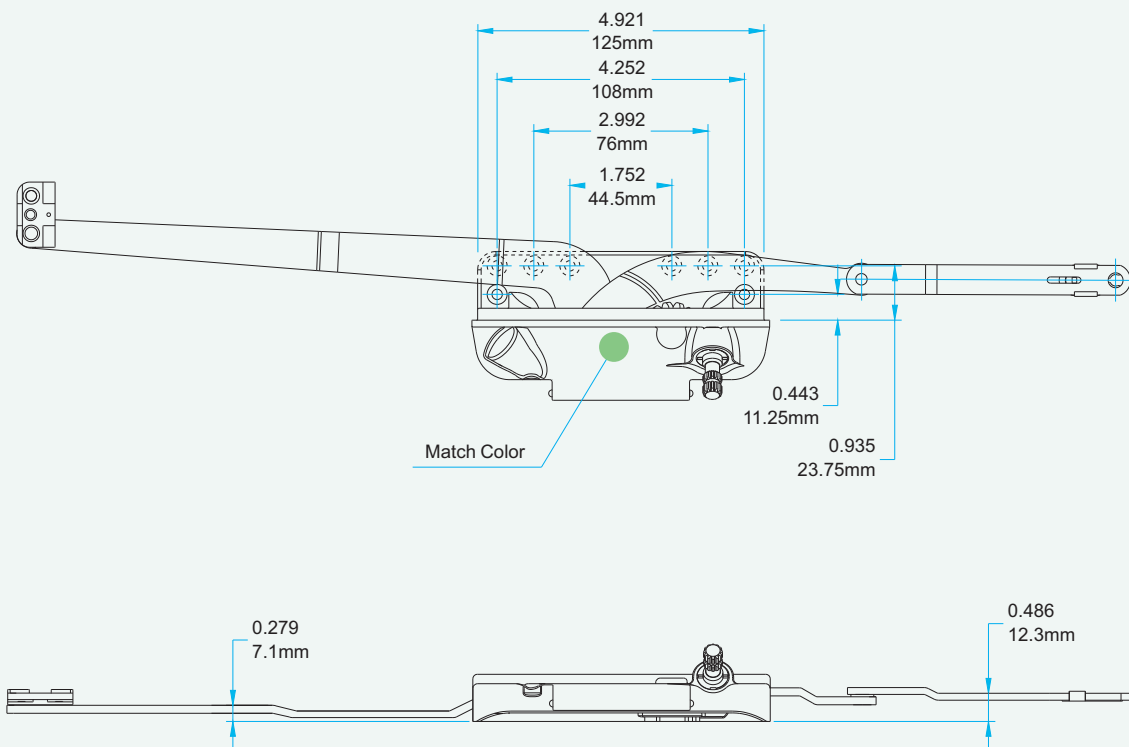
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Decore Dual Arm Operator(Low Profile)



132635-LS

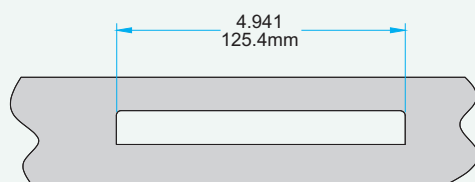
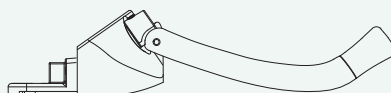
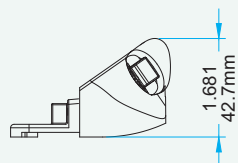
Left Hand Shown



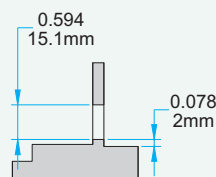
Product Name	Product Number	"A"	Match Color
Decore Short Arm Operator(Low Profile) , LH	132635-LS	18.834"	Green
Decore Short Arm Operator(Low Profile) , RH	132635-RS	18.834"	Red
Decore Short Arm Dual Arm Operator(Low Profile) , LH	132635S-LS	15.945"	Green
Decore Short Arm Dual Arm Operator(Low Profile) , RH	132635S-LS	15.945"	Red

CASEMENT OPERATORS

Decore Dual Arm Operator(Low Profile)



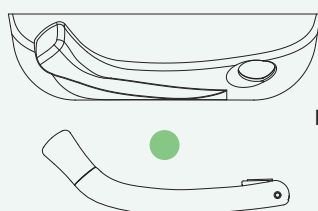
Profile Cut Out



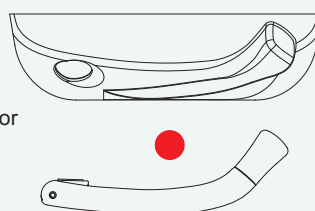
Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown

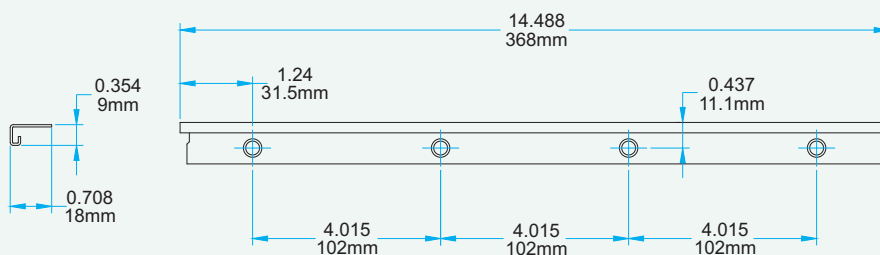


132067R1 Shown

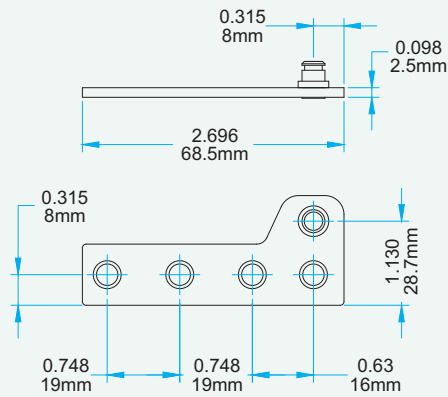


Match Color

Track 190056



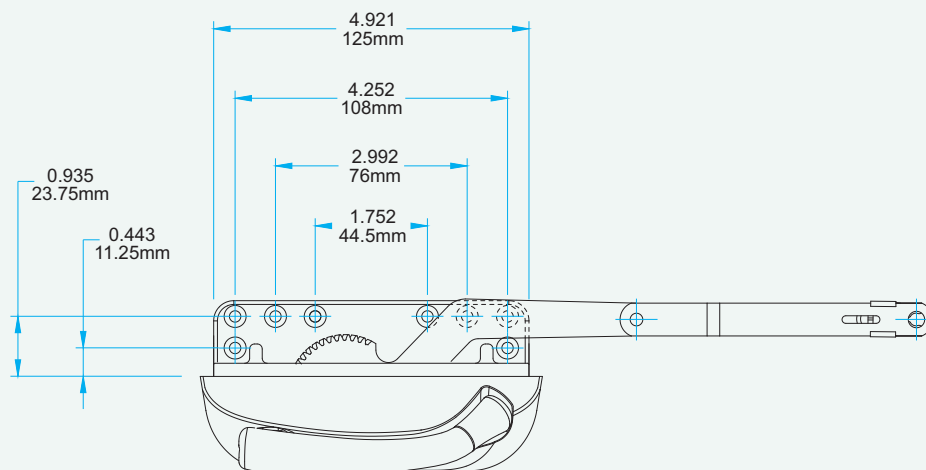
Stud Bracket (Right Hand Shown)



Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

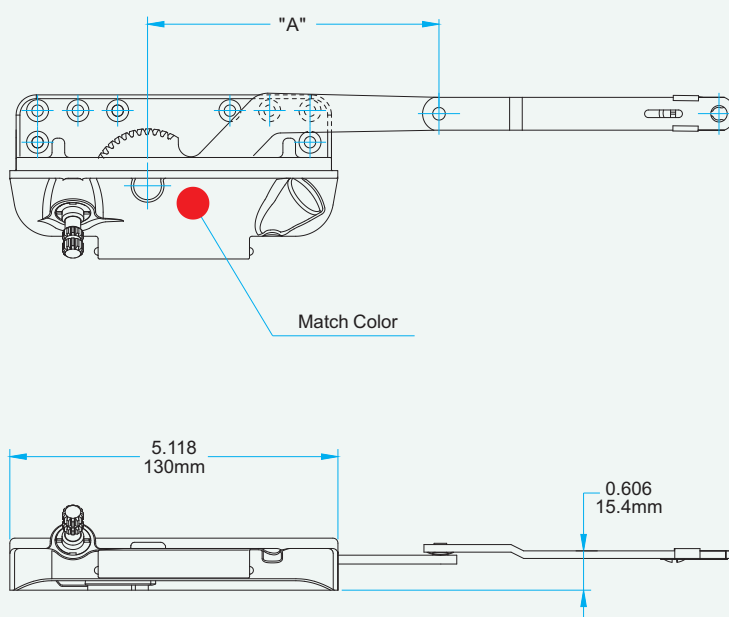
CASEMENT OPERATORS

Decore Dyad Operator

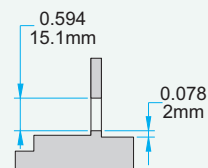
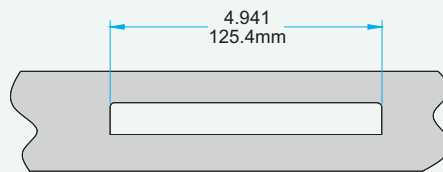
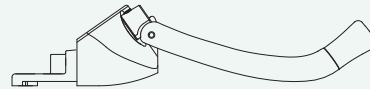
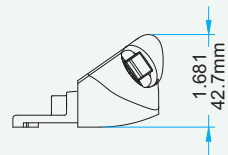


132635-LQS

Left Hand Shown



Product Name	Part Number	A (Arm Length)	Match Color
Decore Dyad Operator,4.5",LH	132635S-LQS	4.5"	Red
Decore Dyad Operator,4.5",RH	132635S-RQS	4.5"	Green
Decore Dyad Operator,4.75",LH	132635-LQS	4.75"	Red
Decore Dyad Operator,4.75",RH	132635-RQS	4.75"	Green

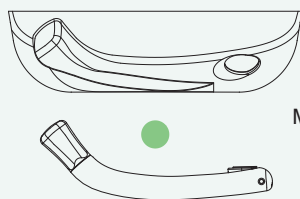


Profile Cut Out

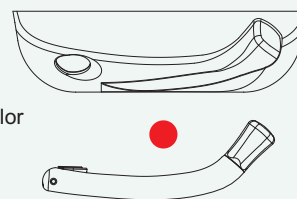
Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



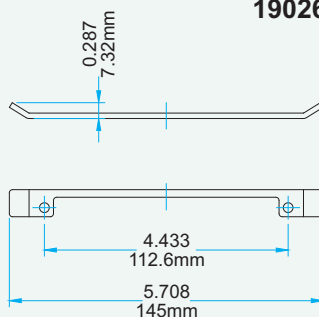
132067R1 Shown



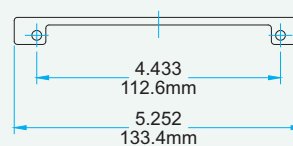
Match Color

Back Plate

19026



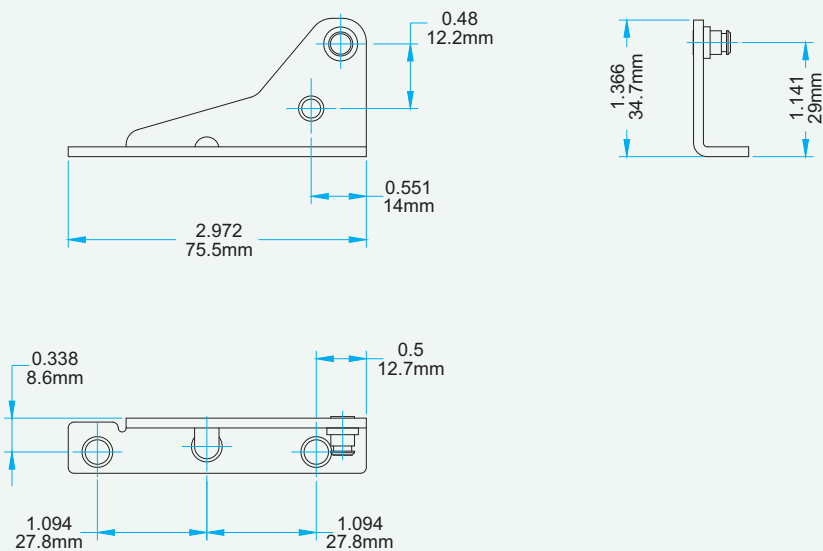
19027



CASEMENT OPERATORS

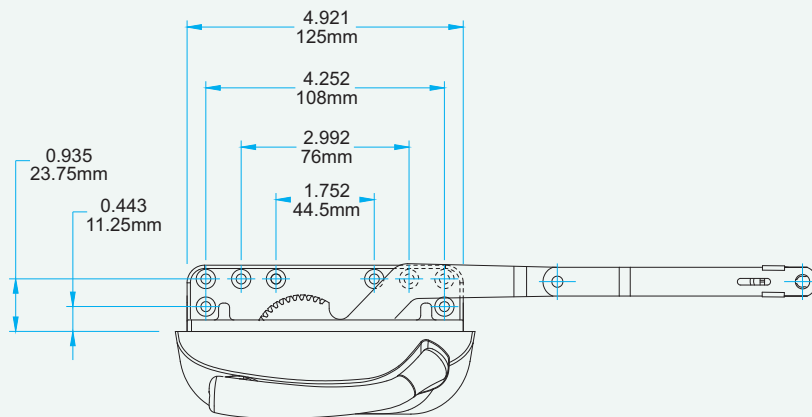
Decore Dyad Operator

Stud Bracket (Right Hand Shown)

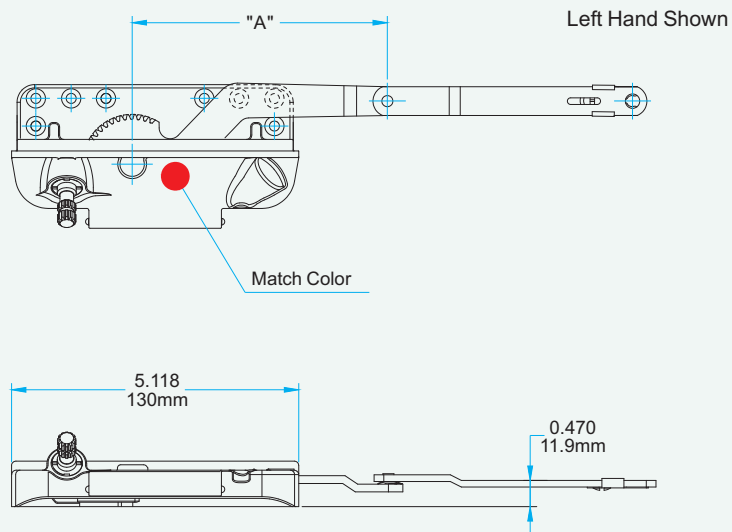


Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Decore Dyad Operator(Low Profile)



132635-LQSS

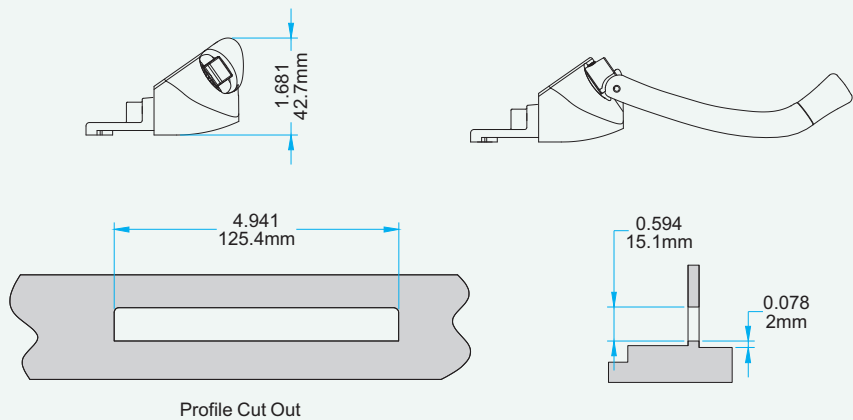


Product Name	Part Number	A (Arm Length)	Match Color
Decore Dyad Operator,4.5",LH	132635S-LQSS	4.5"	Red
Decore Dyad Operator,4.5",RH	132635S-RQSS	4.5"	Green
Decore Dyad Operator,4.75",LH	132635-LQSS	4.75"	Red
Decore Dyad Operator,4.75",RH	132635-RQSS	4.75"	Green

CASEMENT OPERATORS

Decore Dyad Operator(Low Profile)

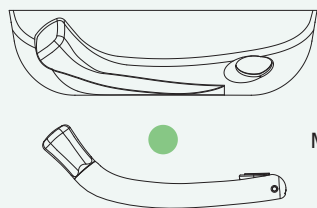
2. Operators & Accessories



Cover and Crank Match Color

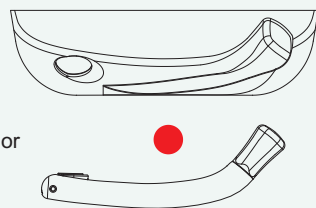
Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



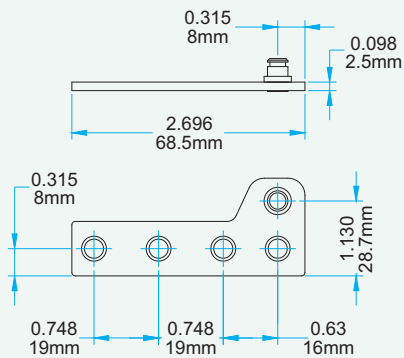
Match Color

132067R1 Shown

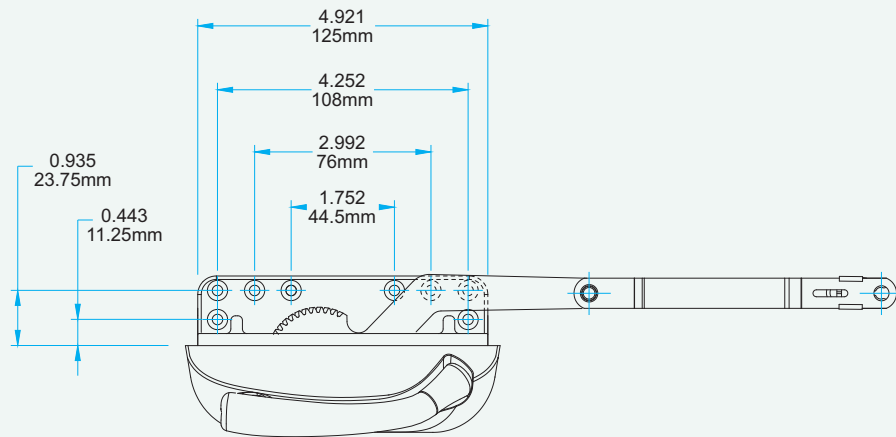


Stud Bracket (Right Hand Drown)

Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

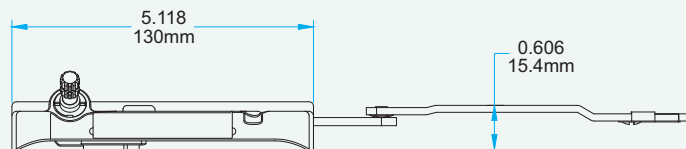
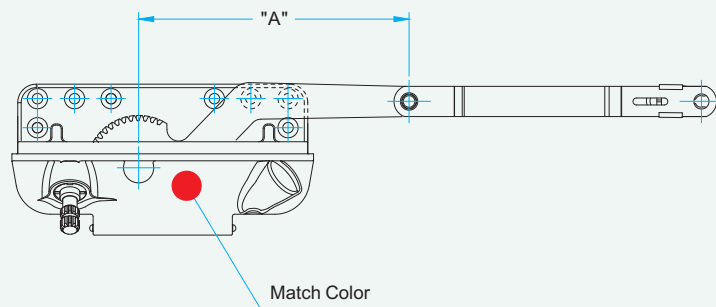


Decore Reverse Dyad Operator



132635-LQSW

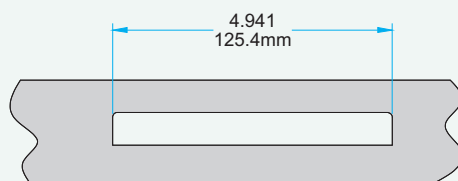
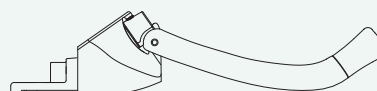
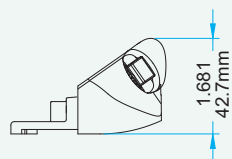
Left Hand Shown



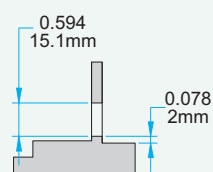
Product Name	Part Number	A (Arm Length)	Match Color
Decore Dyad Operator,4.5",LH	132635S-LQSW	4.5"	Red
Decore Dyad Operator,4.5",RH	132635S-RQSW	4.5"	Green
Decore Dyad Operator,4.75",LH	132635-LQSW	4.75"	Red
Decore Dyad Operator,4.75",RH	132635-RQSW	4.75"	Green

CASEMENT OPERATORS

Decore Reverse Dyad Operator



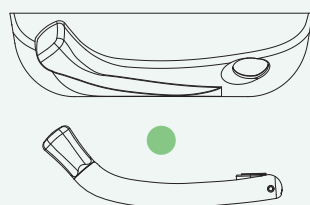
Profile Cut Out



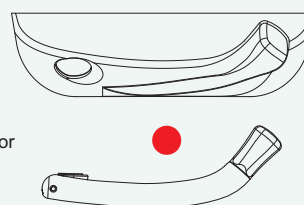
Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



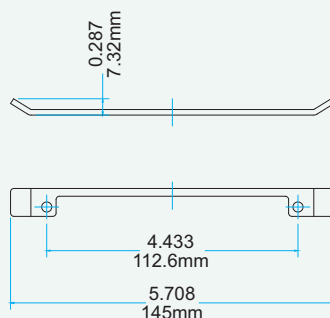
132067R1 Shown



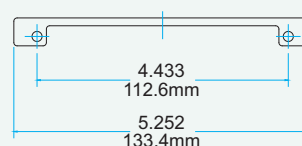
Match Color

Back Plate

19026

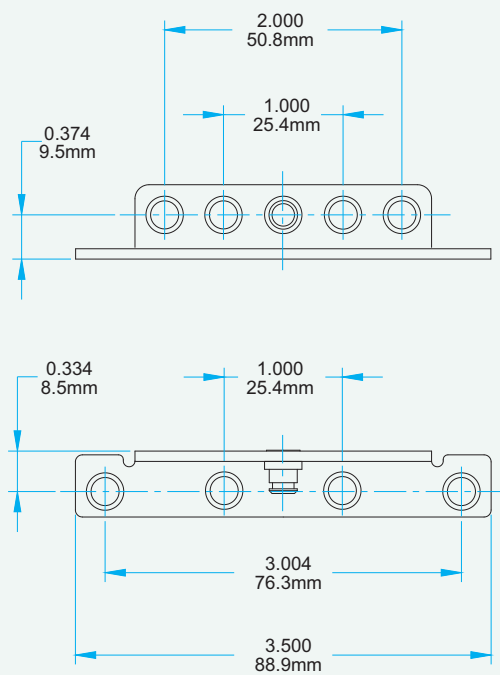


19027



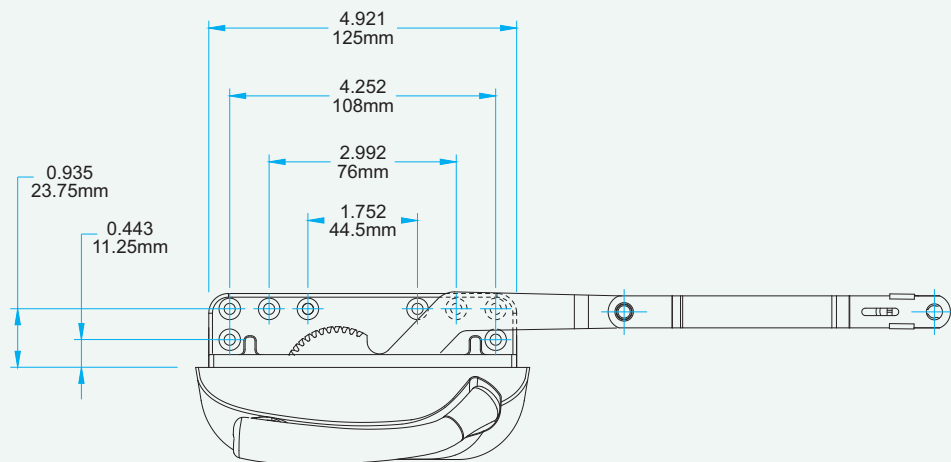


Stud Bracket 19048 (Non-Handed)



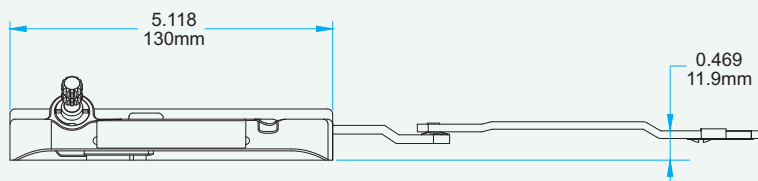
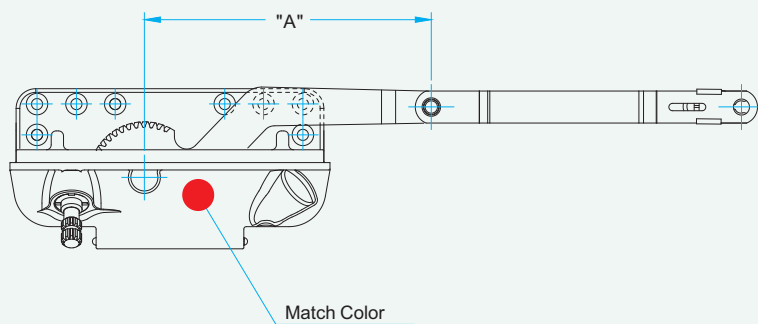
CASEMENT OPERATORS

Decore Reverse Dyad Operator (Low Profile)

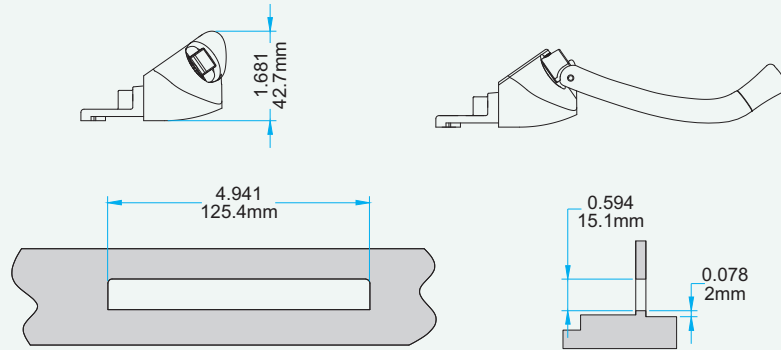


132635-LQSWS

Left Hand Shown



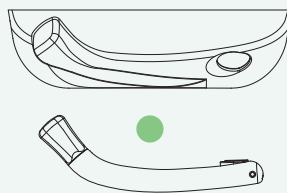
Product Name	Part Number	A (Arm Length)	Match Color
Decore Dyad Operator,4.5",LH	132635S-LQSWS	4.5"	Red
Decore Dyad Operator,4.5",RH	132635S-RQSWS	4.5"	Green
Decore Dyad Operator,4.75",LH	132635-LQSWS	4.75"	Red
Decore Dyad Operator,4.75",RH	132635-RQSWS	4.75"	Green



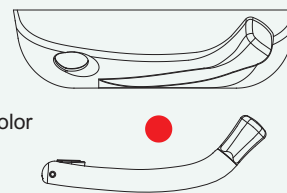
Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown

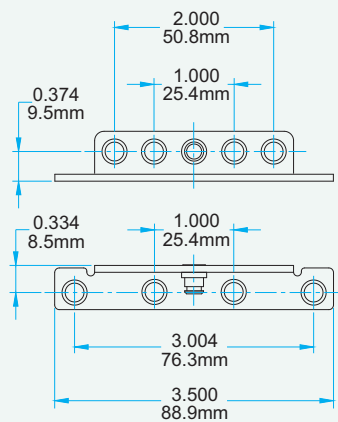


132067R1 Shown



Match Color

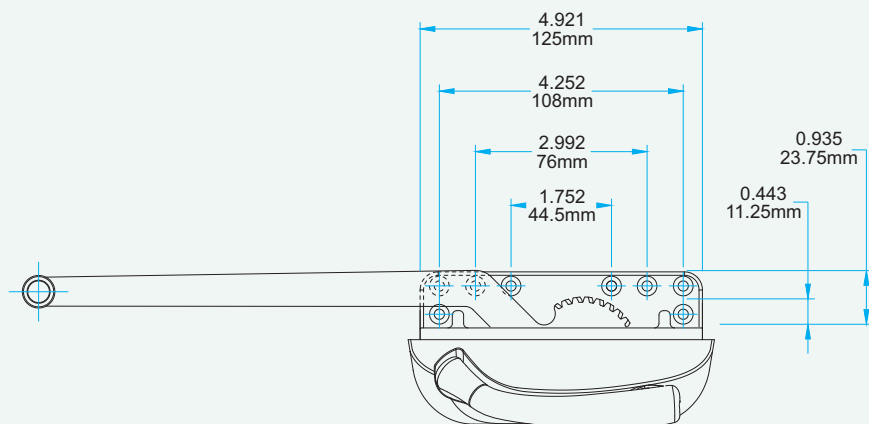
Stud Bracket 19048 (Non-Handed)



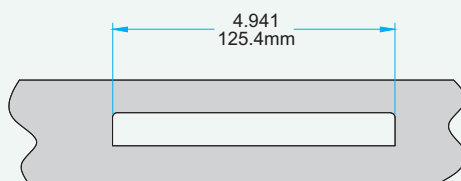
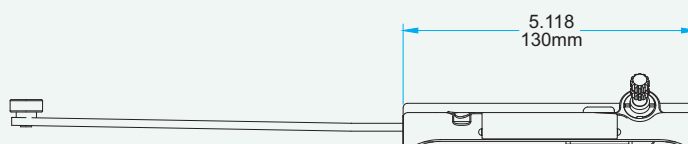
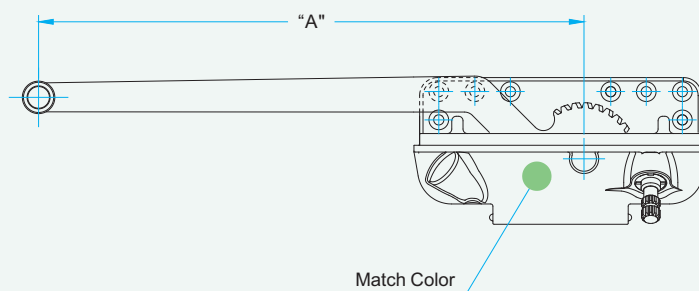
CASEMENT OPERATORS

Decore Single Arm Operator

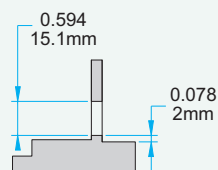
132635-LZ

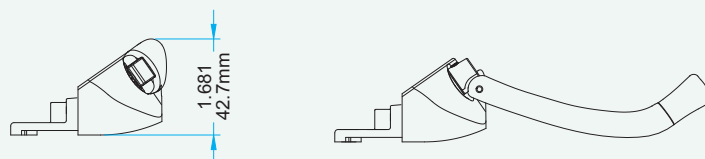


Left Hand Shown

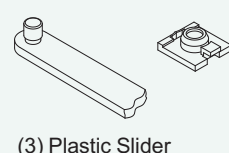


Profile Cut Out





Product Name	Part Number	A (Arm Length)	Match Color
Decore Single Arm Operator,7.5",LH	132635-LZ75X	7.5"	Green
Decore Single Arm Operator,7.5",RH	132635-RZ75X	7.5"	Red
Decore Single Arm Operator,9.5",LH	132635-LZ95X	9.5"	Green
Decore Single Arm Operator,9.5",RH	132635-RZ95X	9.5"	Red
Decore Single Arm Operator,13.5",LH	132635-LZ135X	13.5"	Green
Decore Single Arm Operator,13.5",RH	132635-RZ135X	13.5"	Red

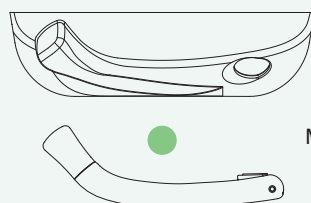


- (1) This is default, in this case, no letter attached
 (2) "X" =S Stands for SST Roller
 (3) "X" =P Stands for Plastic Slider

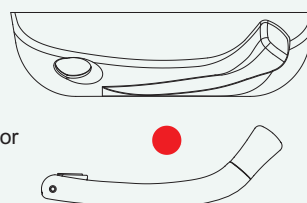
Cover and Crank Match Color

Part Numbere	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



132067R1 Shown



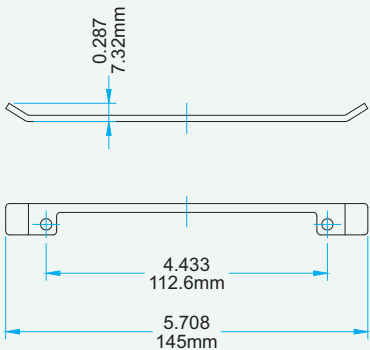
Match Color

CASEMENT OPERATORS

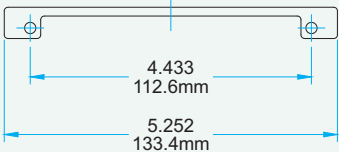
Decore Single Arm Operator

Back Plate

19026

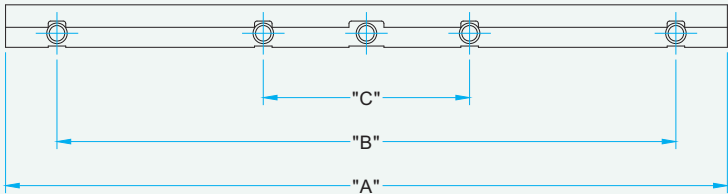
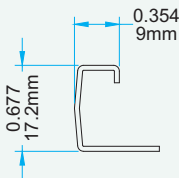


19027



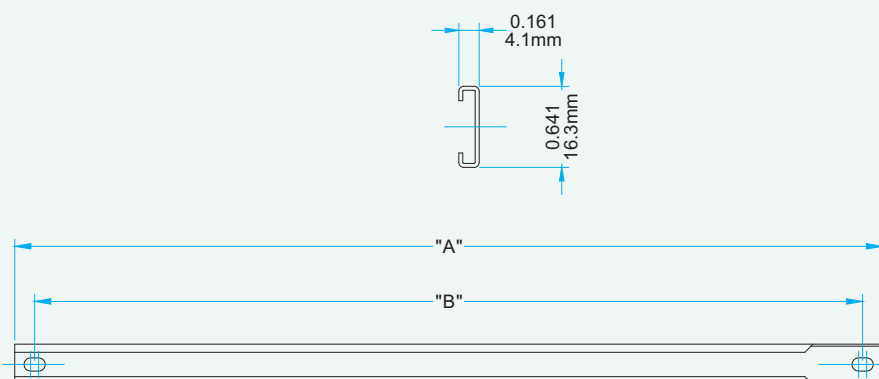
Track

(1)



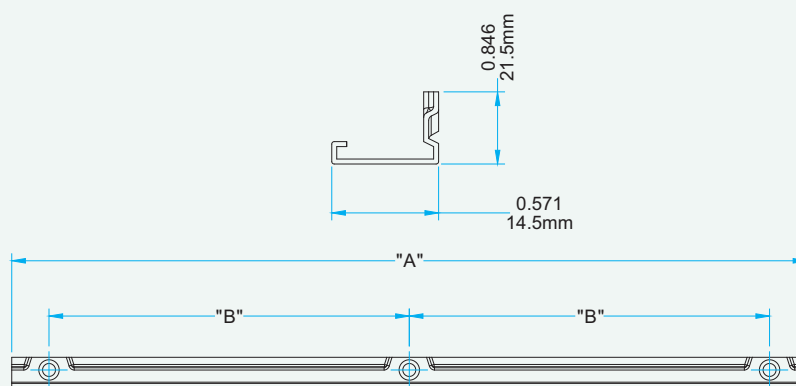
Single Arm Operator Track				
Part Number	"A"	"B"	"C"	Material
70039	8.874"	6.504"	N/A	SST
190039				Steel
70040	11.378"	9.756"	3.252"	SST
190040				Steel
70041	13.752"	12.374"	4.126"	SST
190041				Steel

(2)


Single Arm Operator Track 2 Holes

Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

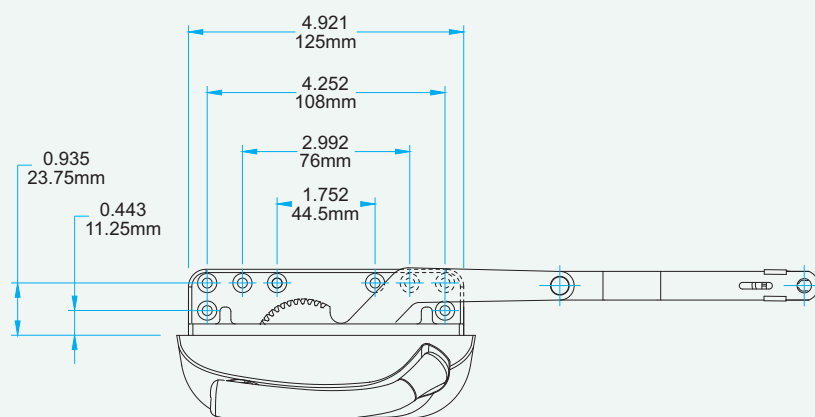
(3)


Dual Arm Operator Track 3 Holes

Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1			Steel
70052R1	12.598"	5.708"	SST
190052R1			Steel
70053R1	11.811"	5.315"	SST
190053R1			Steel

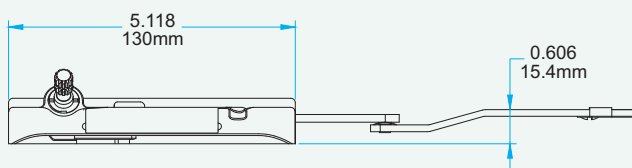
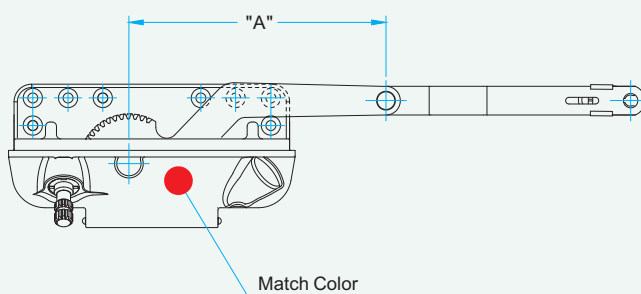
CASEMENT OPERATORS

Decore Split Arm Operator

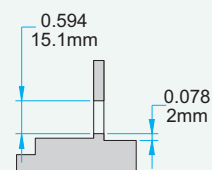
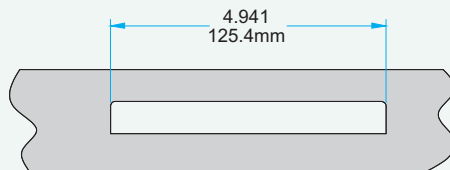
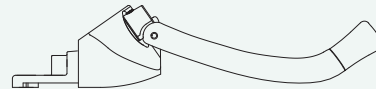
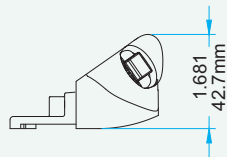


132635-LQS

Left Hand Shown



Product Name	Part Number	A (Arm Length)	Match Color
Decore Split Arm Operator, 4.5", LH	132635S-LQX	4.5"	Red
Decore Split Arm Operator, 4.5", RH	132635S-RQX	4.5"	Green
Decore Split Arm Operator, 4.75", LH	132635-LQX	4.75"	Red
Decore Split Arm Operator, 4.75", RH	132635-RQX	4.75"	Green



Profile Cut Out

Cover and Crank Match Color

Part Number	Match Color
132066R1	Green
132067R1	Red

132066R1 Shown



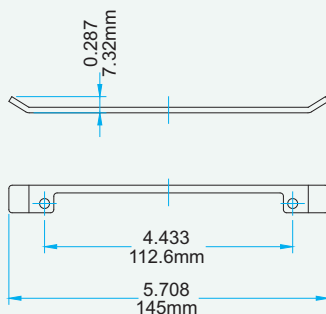
132067R1 Shown



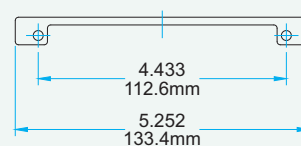
Match Color

Back Plate

19026



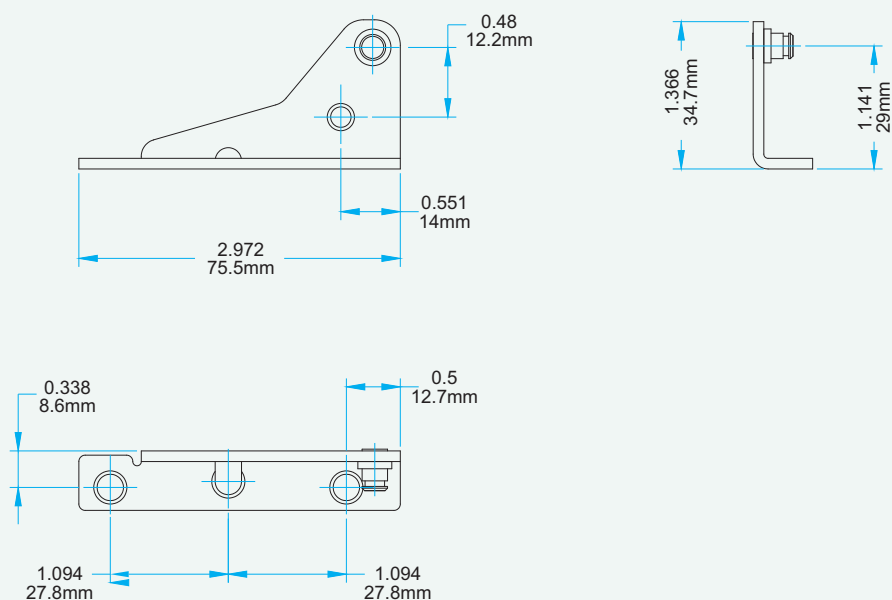
19027



CASEMENT OPERATORS

Decore Split Arm Operator

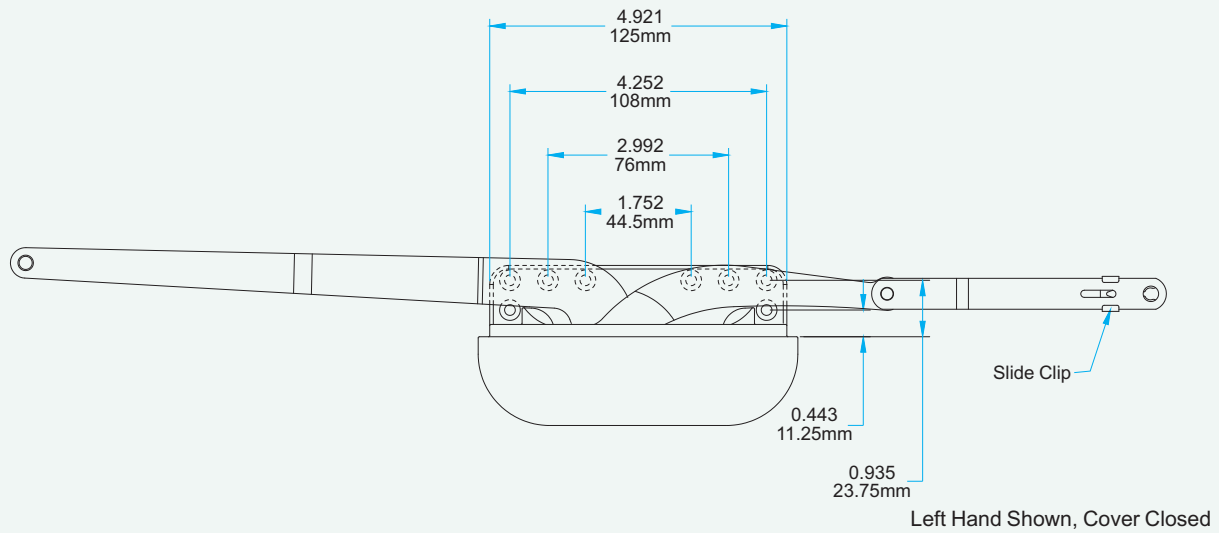
Stud Bracket (Right Hand Shown)



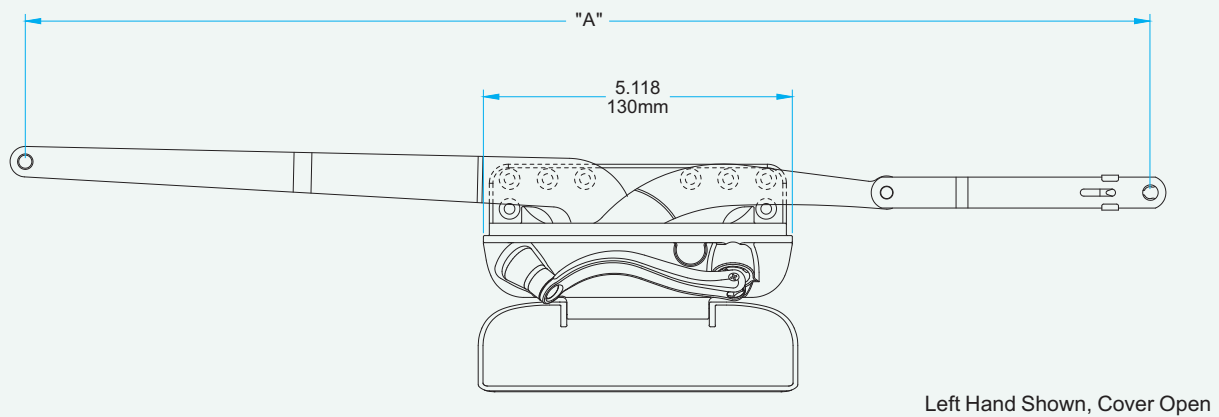
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Eclipse Dual Arm Operator

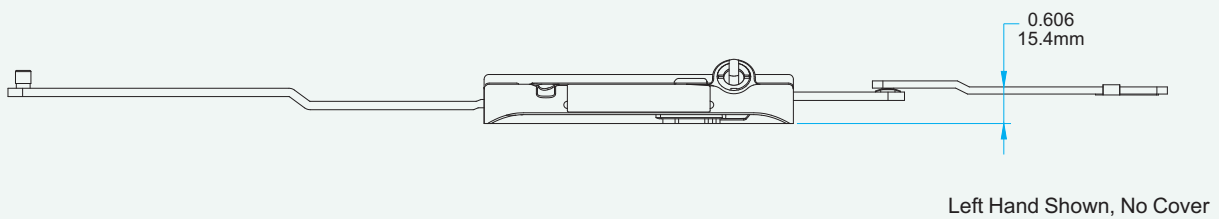
132630R1-L



132630R1-L

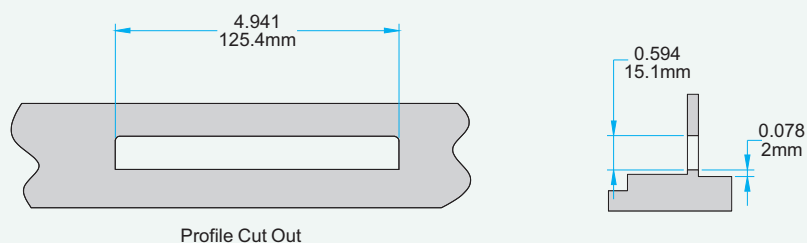
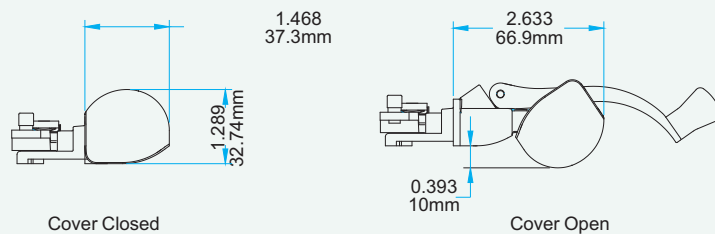


132630R1-L



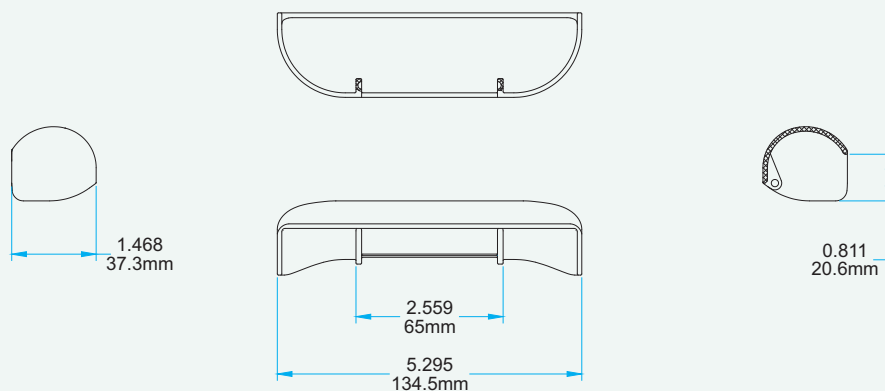
CASEMENT OPERATORS

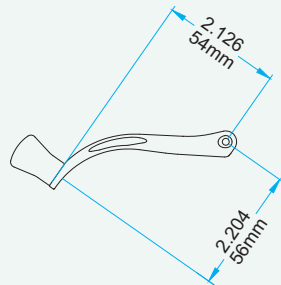
Eclipse Dual Arm Operator



Product Name	Part Number	"A"
Eclipse Dual Arm Operator,LH	132630R1-L	18.834"
Eclipse Dual Arm Operator,RH	132630R1-R	18.834"
Eclipse Short Arm Dual Arm Operator,LH	132630SR1-L	15.945"
Eclipse Short Arm Dual Arm Operator,RH	132630SR1-R	15.945"

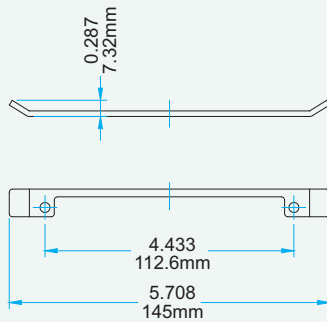
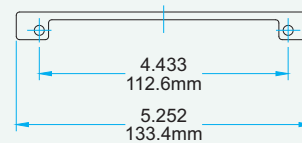
Eclipse Handle / Cover



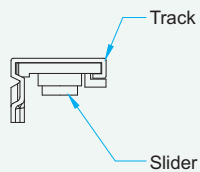
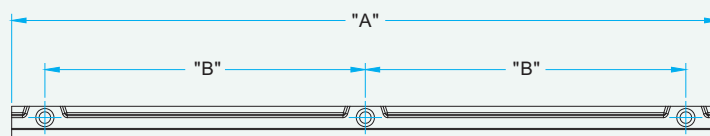
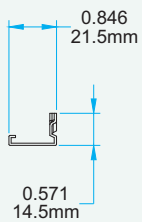


Left Hand Shown

Back Plate

19026

19027


Track

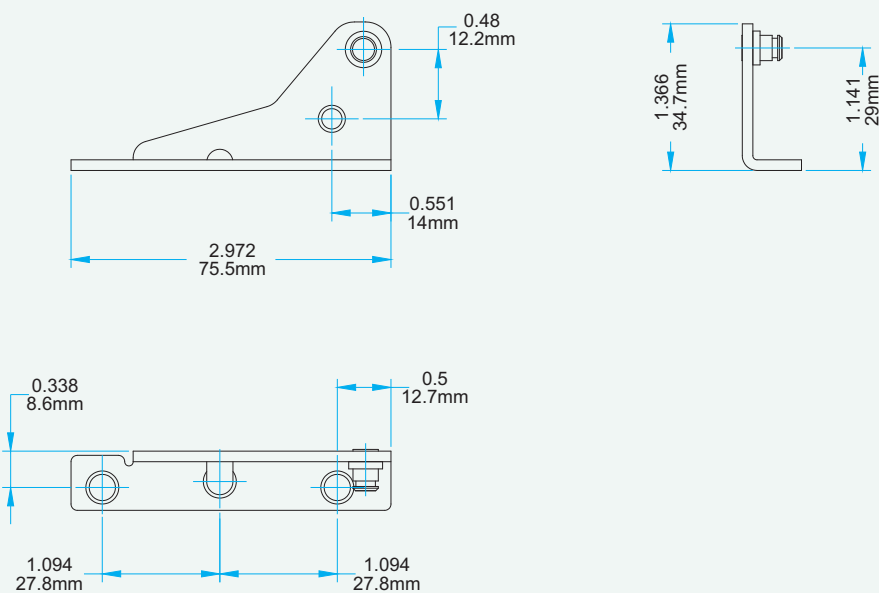

Dual Arm Operator Track 3 Holes

Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1	14.449"	6.496"	Steel
70052R1	12.598"	5.708"	SST
190052R1	12.598"	5.708"	Steel

CASEMENT OPERATORS

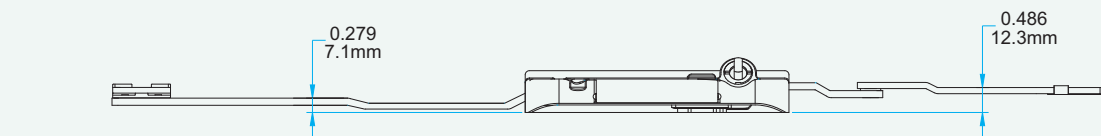
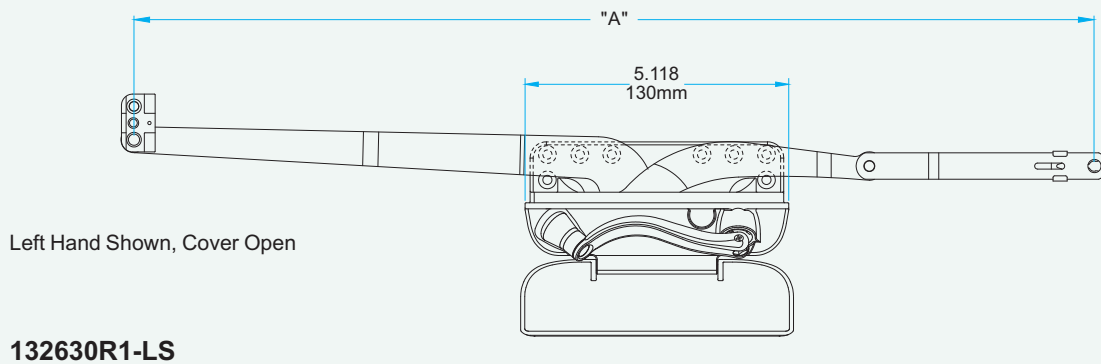
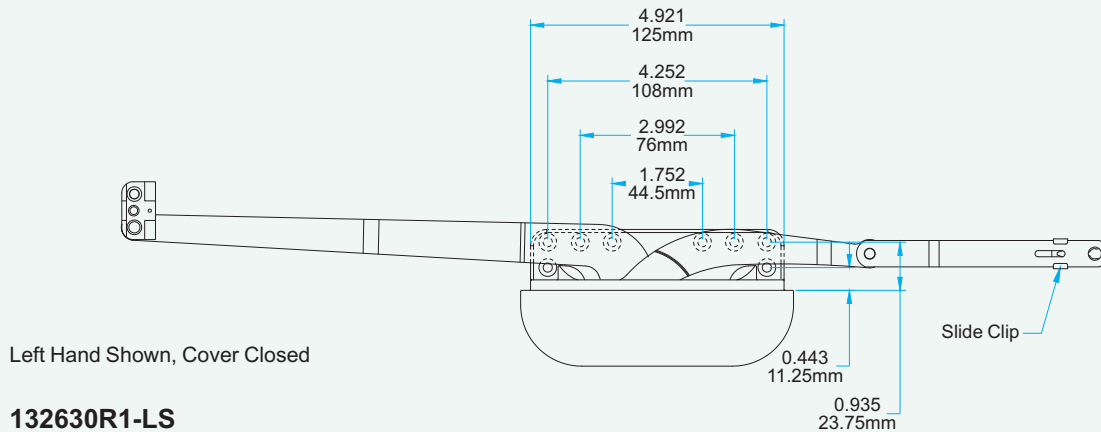
Eclipse Dual Arm Operator

Stud Bracket (Right Hand Shown)



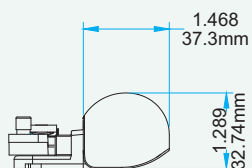
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Eclipse Dual Arm Operator (Low Profile)

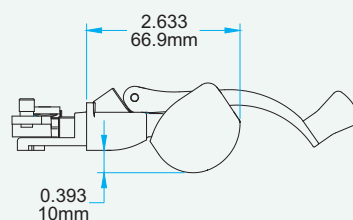


CASEMENT OPERATORS

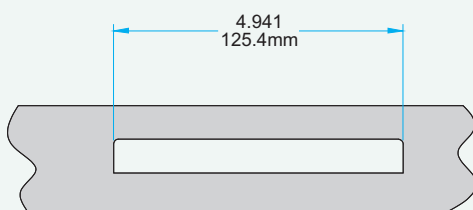
Eclipse Dual Arm Operator (Low Profile)



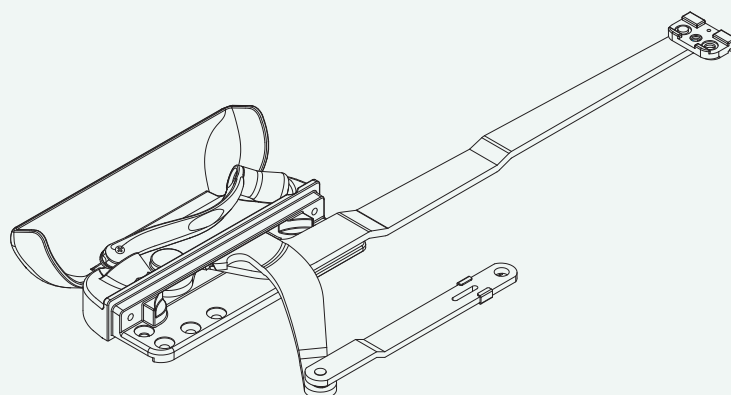
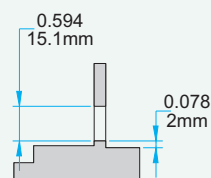
Cover Closed



Cover Open

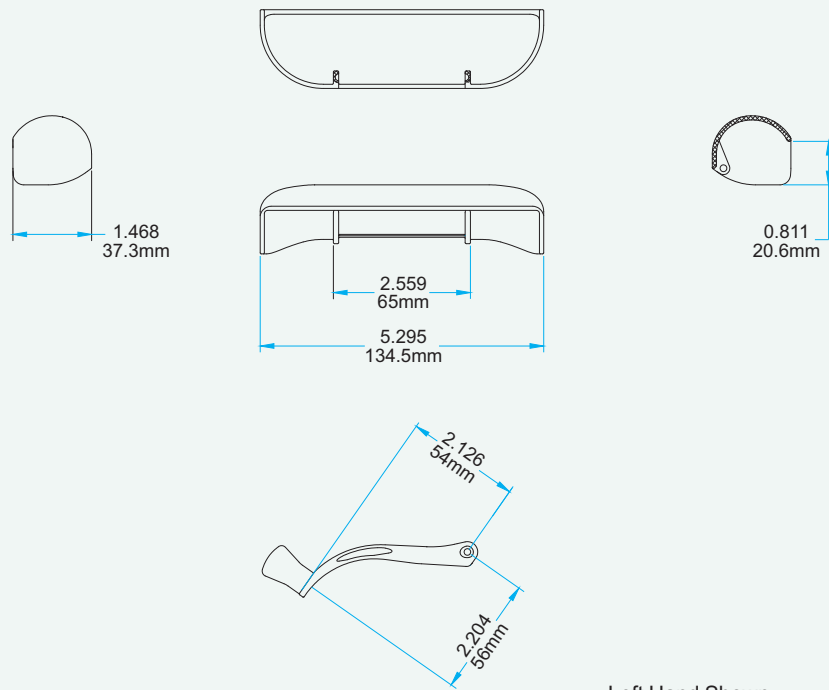


Profile Cut Out



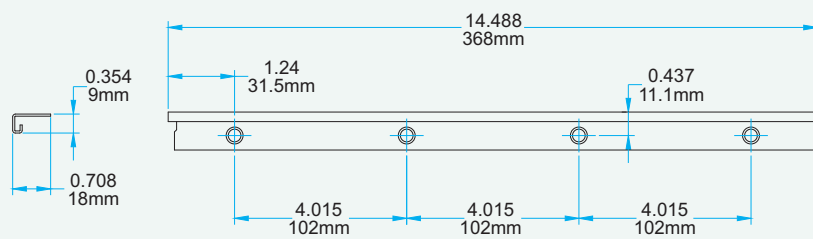
Product Name	Part Number	"A"
Eclipse Dual Arm Operator(Low Profile),RH	132630R1-RS	18.834"
Eclipse Dual Arm Operator(Low Profile),LH	132630R1-LS	18.834"
Eclipse Short Arm Dual Arm Operator(Low Profile),RH	132630SR1-RS	15.945"
Eclipse Short Arm Dual Arm Operator(Low Profile),LH	132630SR1-LS	15.945"

Eclipse Handle / Cover

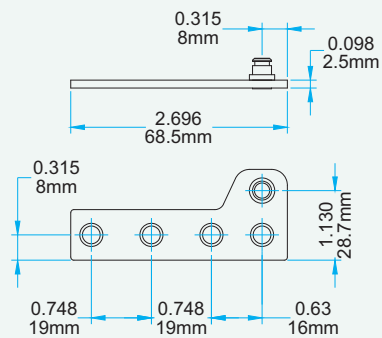


Left Hand Shown

Track 190056



Stud Bracket (Right Hand Shown)

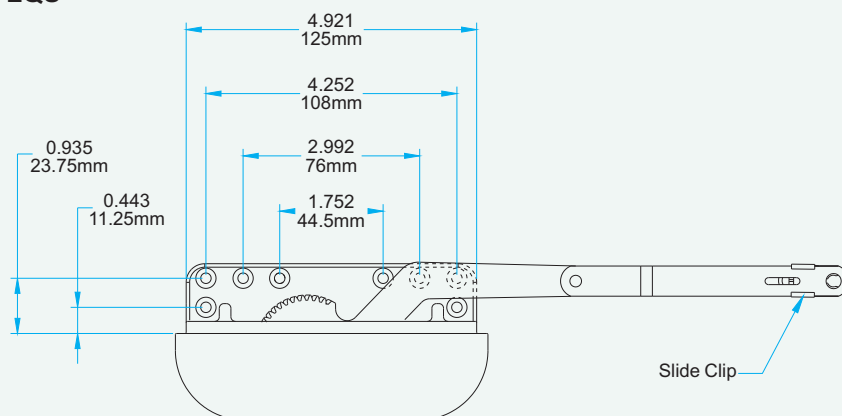


Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

CASEMENT OPERATORS

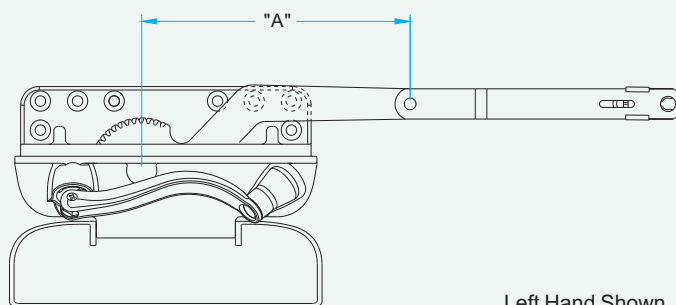
Eclipse Dyad Operator

132630R1-LQS



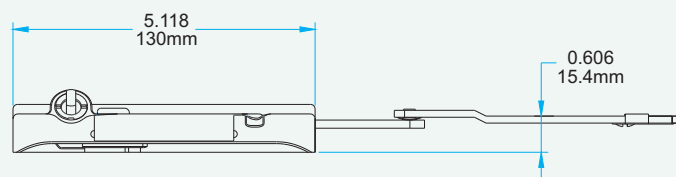
Left Hand Shown, Cover Closed

132630R1-LQS

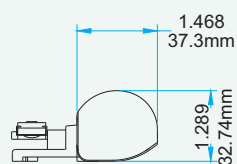


Left Hand Shown, Cover Open

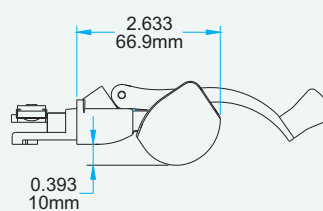
132630R1-LQS



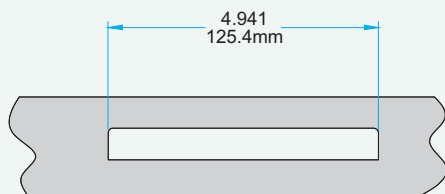
Left Hand Shown, No Cover



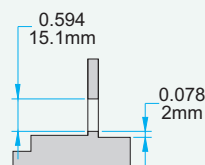
Cover Closed



Cover Open

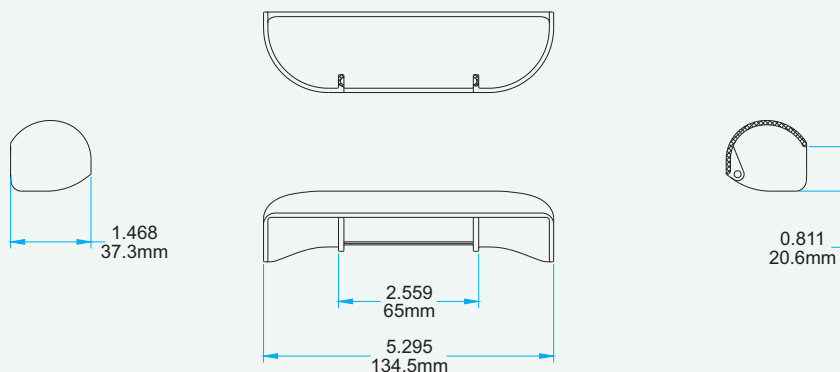


Profile Cut Out



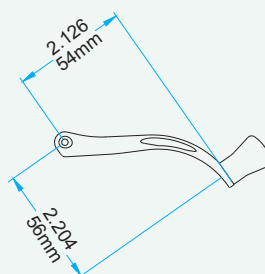
Product Name	Part Number	A (Arm Length)
Eclipse Dual Operator,4.5",LH	132630SR1-LQS	4.5"
Eclipse Dual Operator,4.5",RH	132630SR1-RQS	4.5"
Eclipse Dual Operator,4.75",LH	132630R1-LQS	4.75"
Eclipse Dual Operator,4.75",RH	132630R1-RQS	4.75"

Eclipse Handle / Cover



CASEMENT OPERATORS

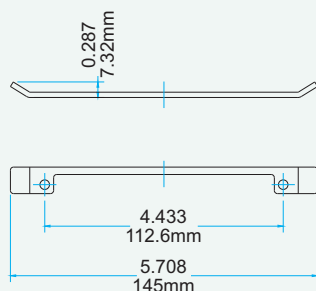
Eclipse Dyad Operator



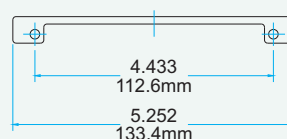
Right Hand Shown

Back Plate

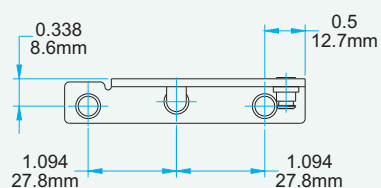
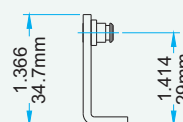
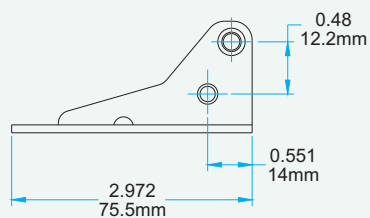
19026



19027



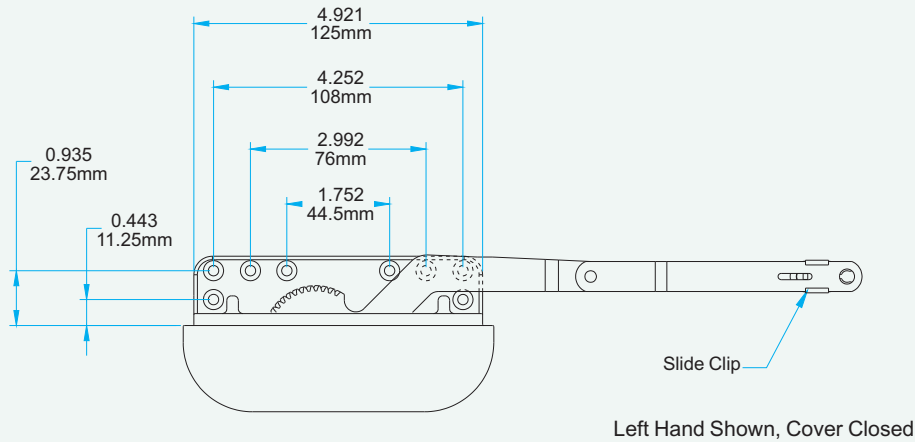
Stud Bracket (Right Hand Shown)



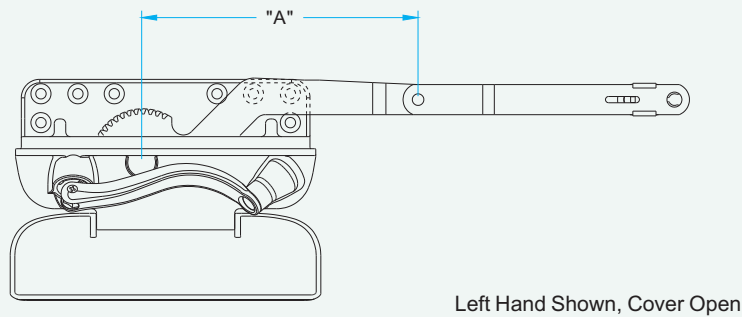
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Eclipse Dyad Operator(Low Profile)

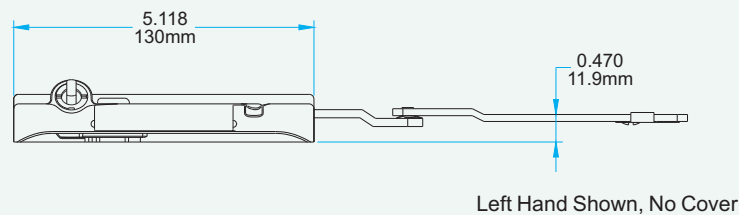
132630R1-LQSS



132630R1-LQSS

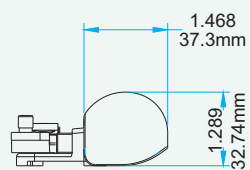


132630R1-LQSS

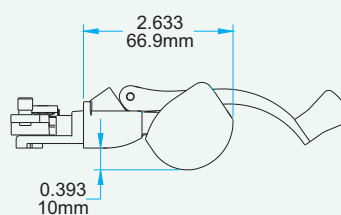


CASEMENT OPERATORS

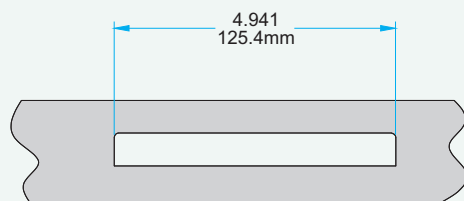
Eclipse Dyad Operator(Low Profile)



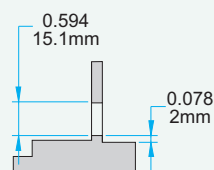
Cover Closed



Cover Open

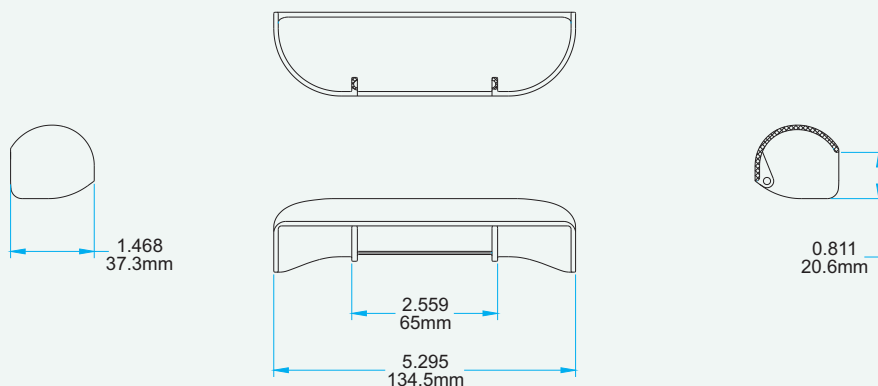


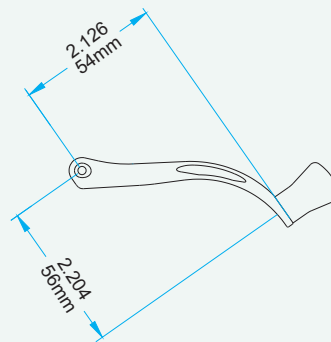
Profile Cut Out



Product Name	Part Number	A (Arm Length)
Eclipse Short Arm Dyad Operator(Low Profile),4.5",LH	132630SR1-LQSS	4.5"
Eclipse Short Arm Dyad Operator(Low Profile),4.5",RH	132630SR1-RQSS	4.5"
Eclipse Dyad Operator(Low Profile),4.75",LH	132630R1-LQSS	4.75"
Eclipse Dyad Operator(Low Profile,4.75",RH	132630R1-RQSS	4.75"

Eclipse Handle / Cover

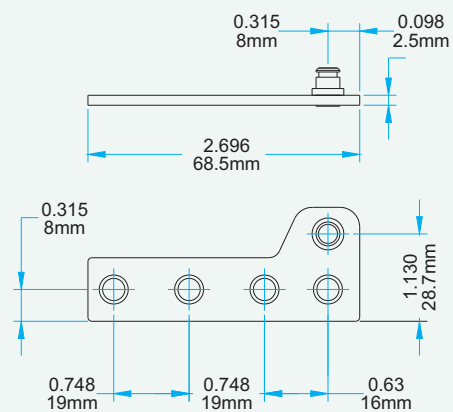




Right Hand Shown

Stud Bracket (Right Hand Shown)

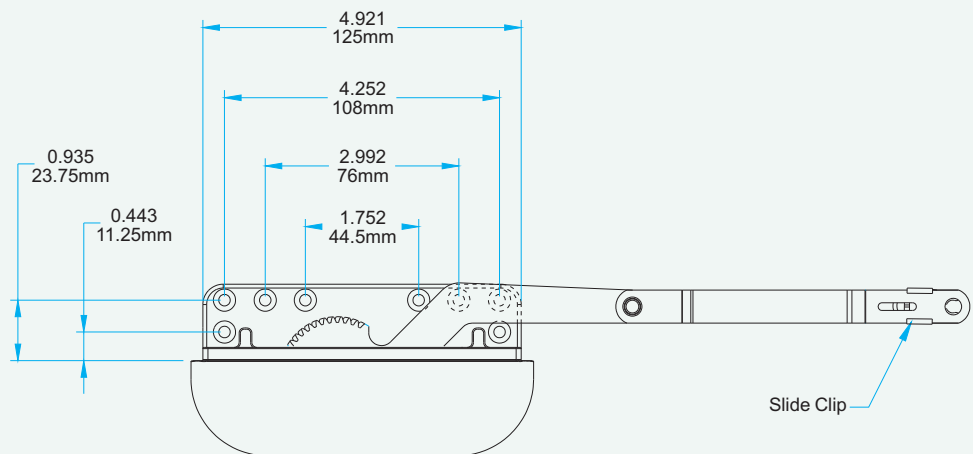
Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH



CASEMENT OPERATORS

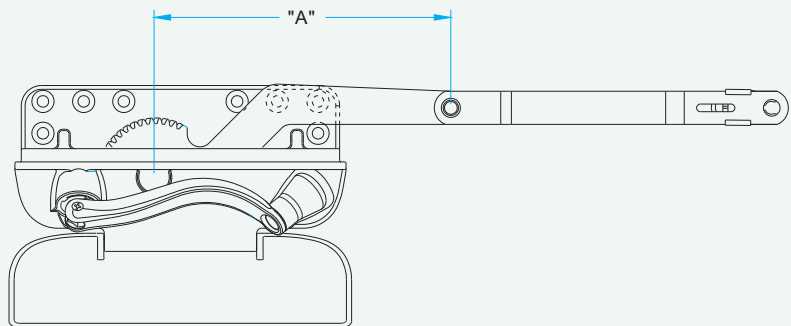
Eclipse Reverse Dyad Operator

132630R1-LQSW



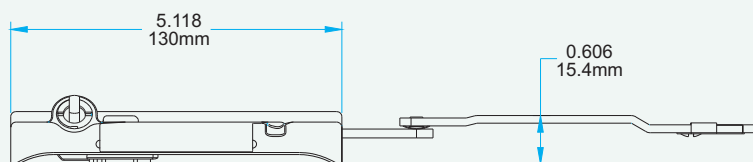
Left Hand Shown, Cover Closed

132630R1-LQSW

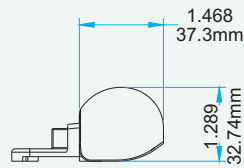


Left Hand Shown, Cover Open

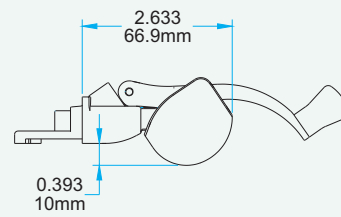
132630R1-LQSW



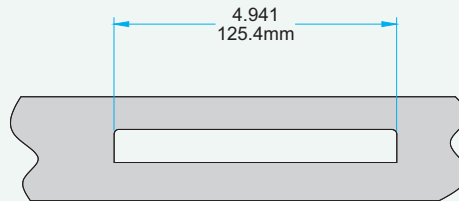
Left Hand Shown, No Cover



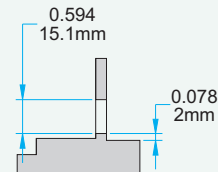
Cover Closed



Cover Open

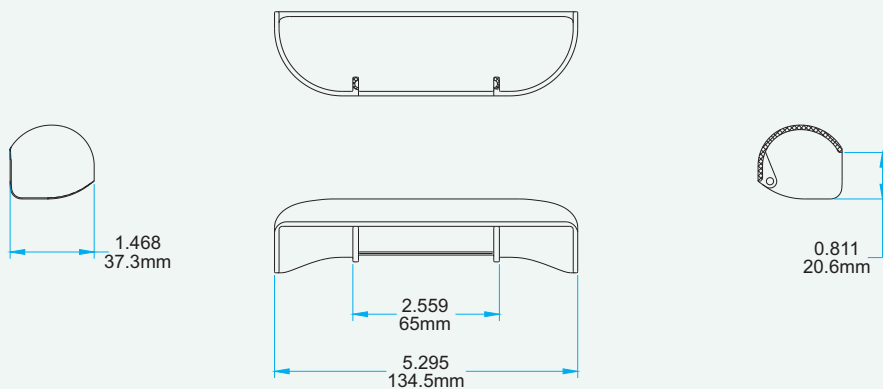


Profile Cut Out



Product Name	Part Number	A (Arm Length)
Eclipse Reverse Dyad Operator, Short Arm, RH	132630SR1-LQSW	4.5"
Eclipse Reverse Dyad Operator, Short Arm, LH	132630SR1-RQSW	4.5"
Eclipse Reverse Dyad Operator, LH	132630R1-LQSW	4.75"
Eclipse Reverse Dyad Operator, RH	132630R1-RQSW	4.75"

Eclipse Handle / Cover



CASEMENT OPERATORS

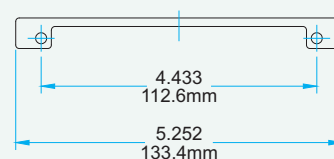
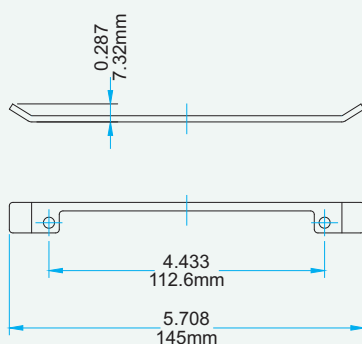
Eclipse Reverse Dyad Operator

Back Plate

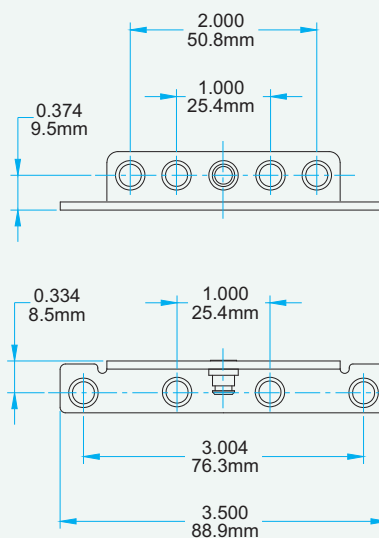
Right Hand Shown

19026

19027

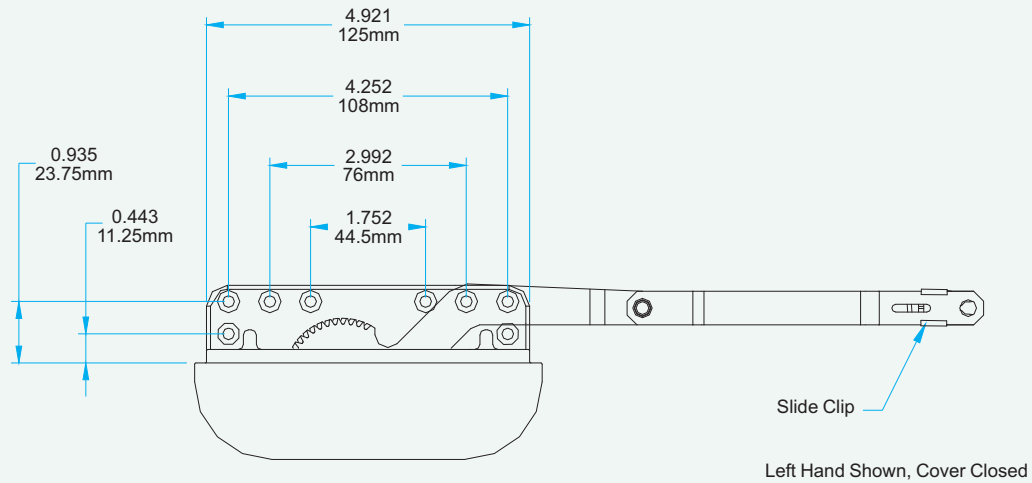


Stud Bracket 19048 (Non-Handed)

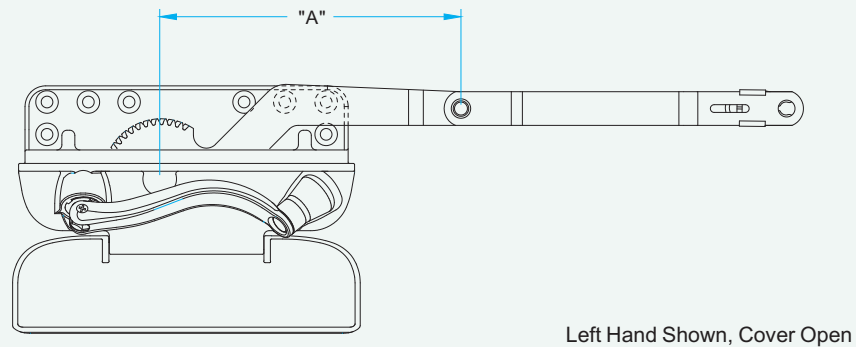


Eclipse Reverse Dyad Operator (Low Profile)

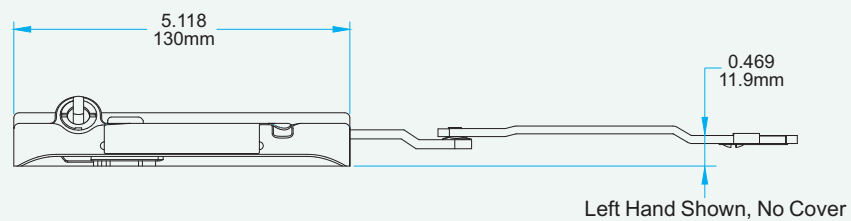
132630R1-LQSWS



132630R1-LQSWS

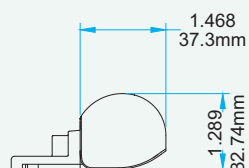


132630R1-LQSWS

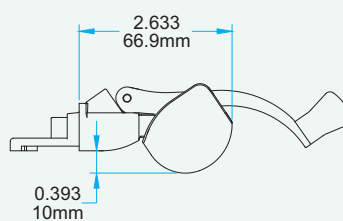


CASEMENT OPERATORS

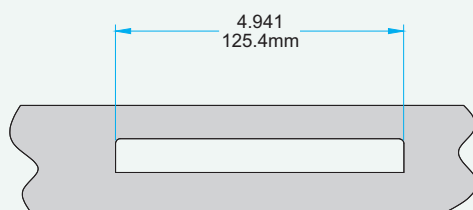
Eclipse Reverse Dyad Operator (Low Profile)



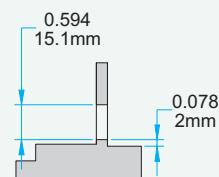
Cover Closed



Cover Open

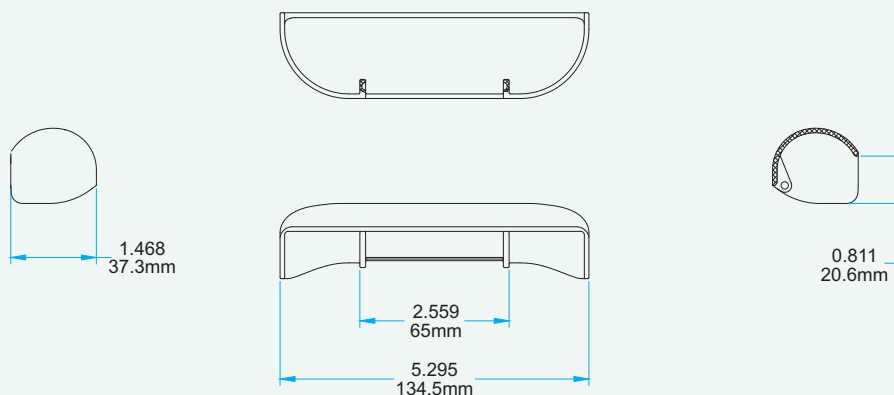


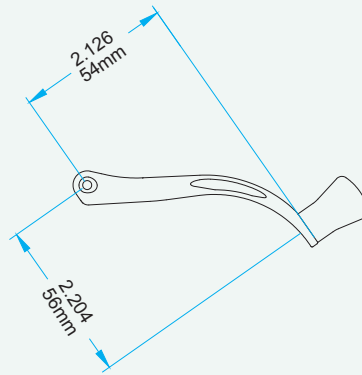
Profile Cut Out



Product Name	Part Number	A (Arm Length)
Eclipse Reverse Dyad Operator,Short Arm,RH	132630SR1-LQSWs	4.5"
Eclipse Reverse Dyad Operator,Short Arm,LH	132630SR1-RQSWs	4.5"
Eclipse Reverse Dyad Operator,LH	132630R1-LQSWs	4.75"
Eclipse Reverse Dyad Operator,RH	132630R1-RQSWs	4.75"

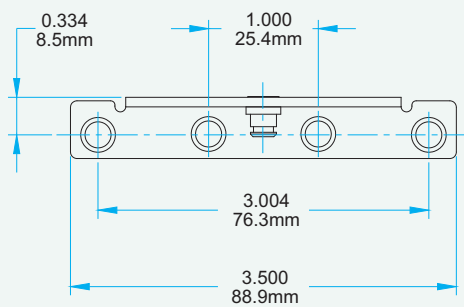
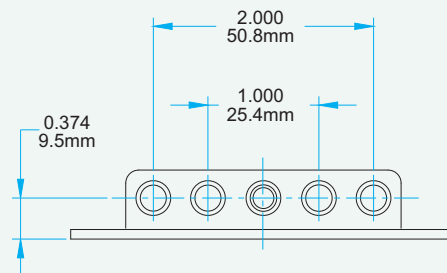
Eclipse Handle / Cover





Right Hand Shown

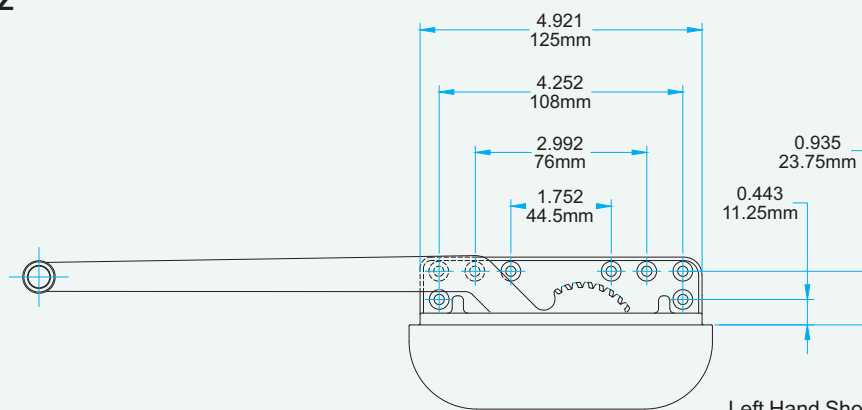
Stud Bracket 19048 (Non-Handed)



CASEMENT OPERATORS

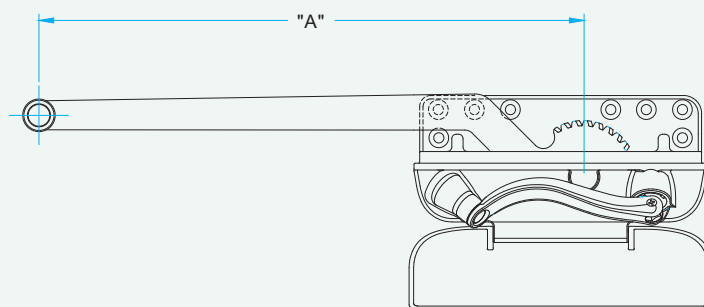
Eclipse Single Arm Operator

132630R1-LZ



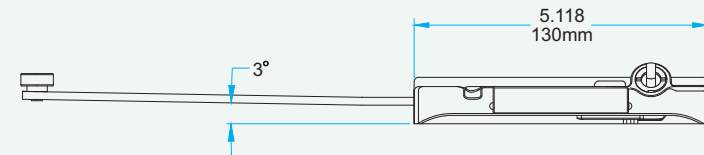
Left Hand Shown, Cover Closed

132630R1-LZ

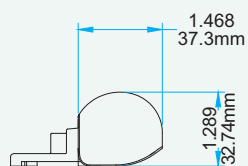


Left Hand Shown, Cover Open

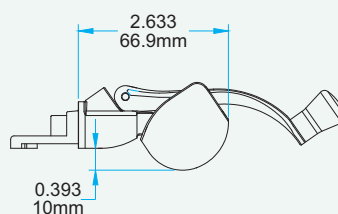
132630R1-LZ



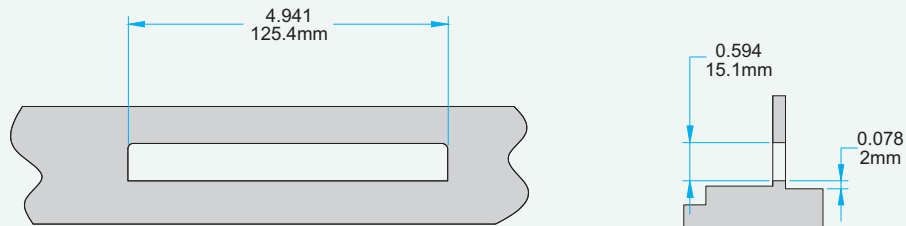
Left Hand Shown, No Cover



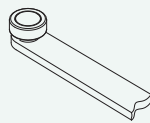
Cover Closed



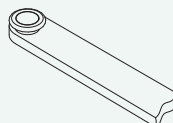
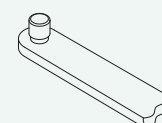
Cover Open



Product Name	Part Number	A (Arm Length)
Eclipse Single Arm Operator, 7.5", LH	132630R1-LZ75X	7.5"
Eclipse Single Arm Operator, 7.5", RH	132630R1-RZ75X	7.5"
Eclipse Single Arm Operator, 9.5", LH	132630R1-LZ95X	9.5"
Eclipse Single Arm Operator, 9.5", RH	132630R1-RZ95X	9.5"
Eclipse Single Arm Operator, 13.5", LH	132630R1-LZ135X	13.5"
Eclipse Single Arm Operator, 13.5", RH	132630R1-RZ135X	13.5"



(1) Nylon Glide Shoe


 (2) SST Roller
(Low Profile)


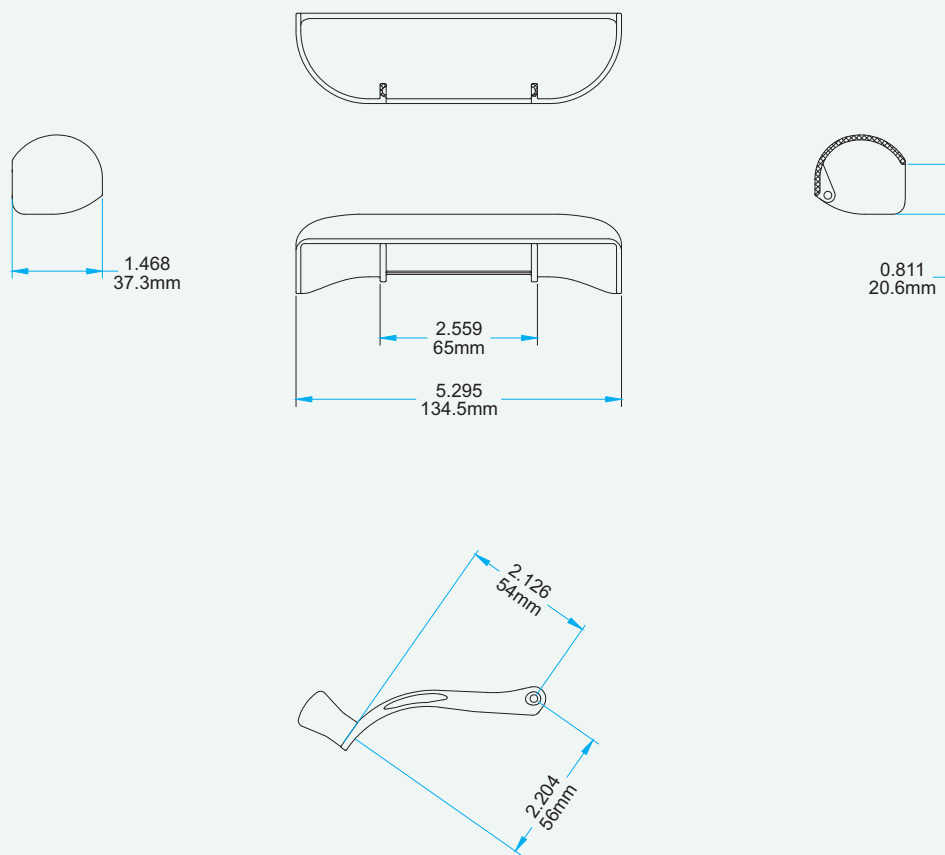
(3) Plastic Slider

- (1) This is default, in this case, no letter attached
 (2) "X" = S Stands for SST Roller
 (3) "X" = P Stands for Plastic Slider

CASEMENT OPERATORS

Eclipse Single Arm Operator

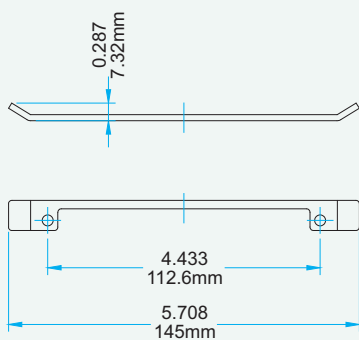
Eclipse Handle / Cover



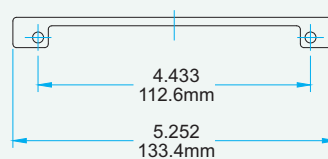
Left Hand Shown

Back Plate

19026

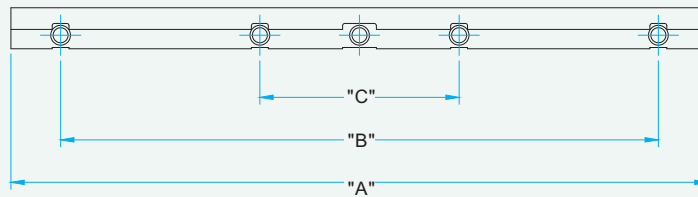
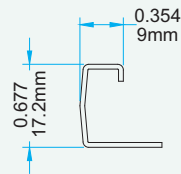


19027



Track

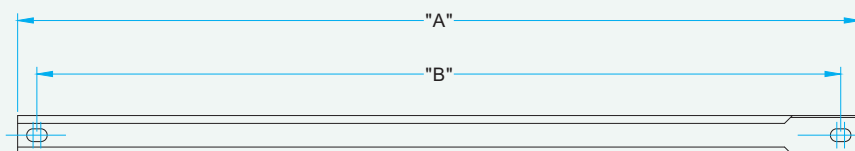
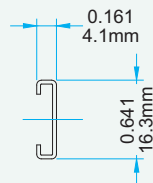
(1)



Single Arm Operator Track

Part Number	"A"	"B"	"C"	Material
70039	8.874"	6.504"	N/A	SST
190039				Steel
70040	11.378"	9.756"	3.252"	SST
190040				Steel
70041	13.752"	12.374"	4.126"	SST
190041				Steel

(2)



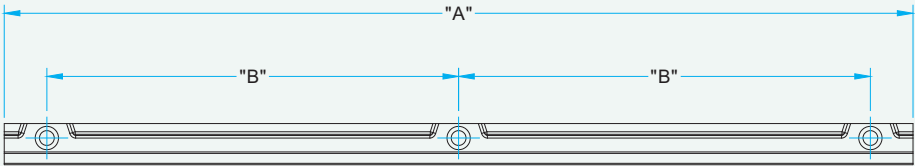
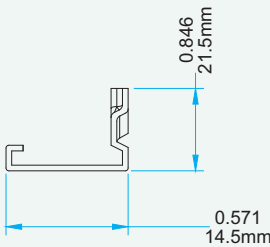
Single Arm Operator Track 2 Holes

Part Number	"A"	"B"	Material
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

CASEMENT OPERATORS

Eclipse Single Arm Operator

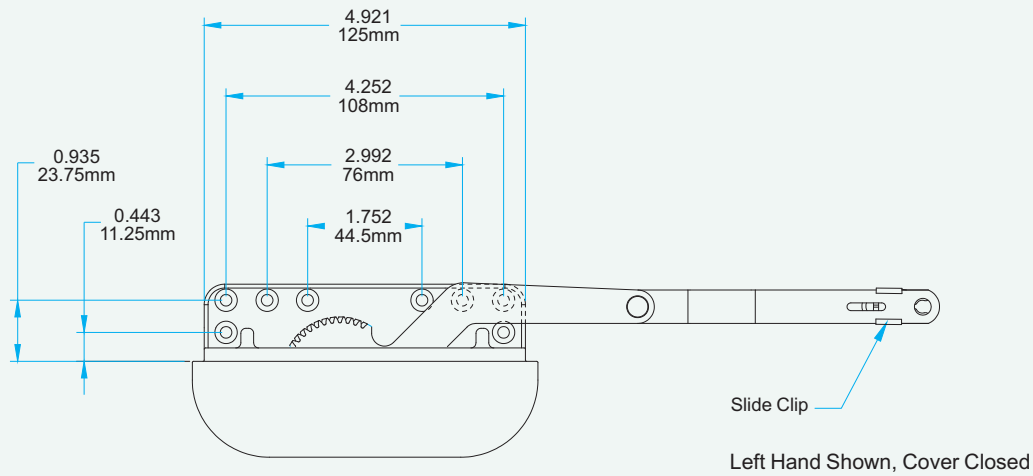
(3)



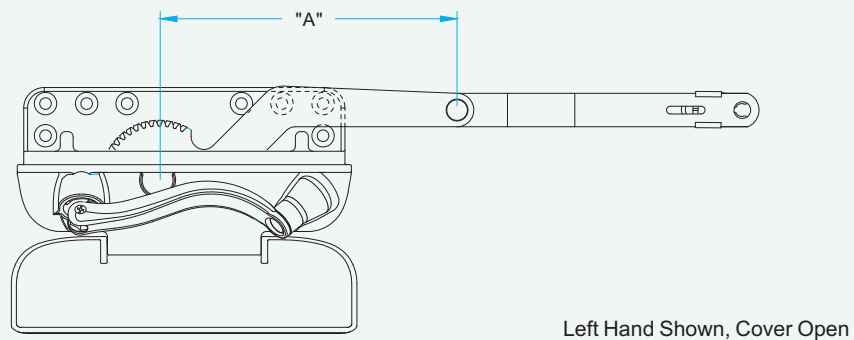
Dual Arm Operator Track 3 Holes			
Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1			Steel
70052R1	12.598"	5.708"	SST
190052R1			Steel
70053R1	11.811"	5.315"	SST
190053R1			Steel

Eclipse Split Arm Operator

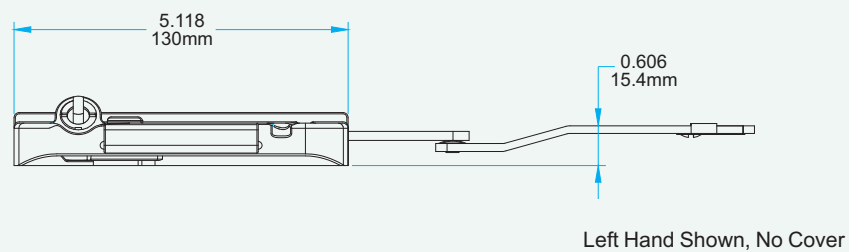
132630R1-LQX



132630R1-LQX

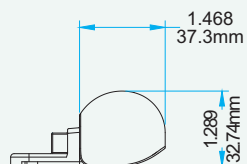


132630R1-LQX

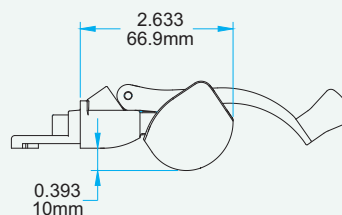


CASEMENT OPERATORS

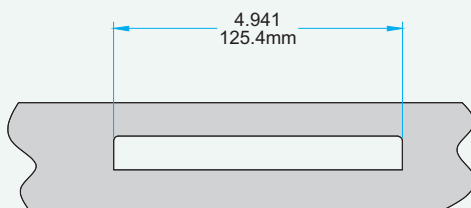
Eclipse Split Arm Operator



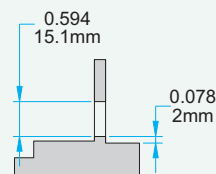
Cover Closed



Cover Open

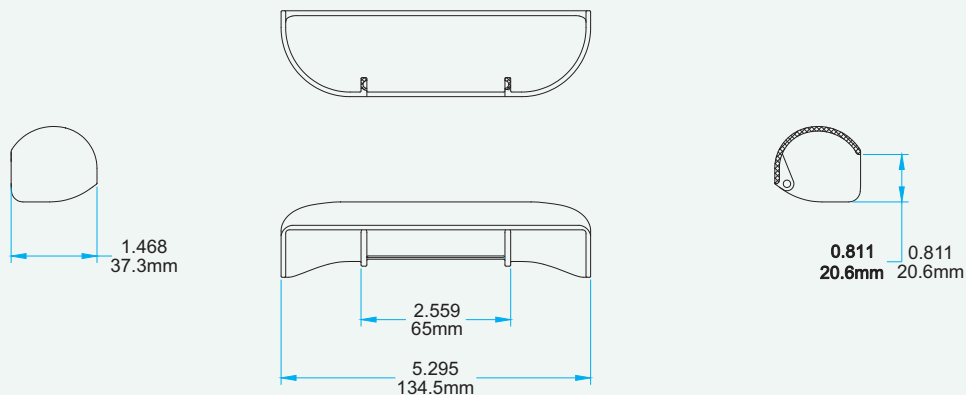


Profile Cut Out

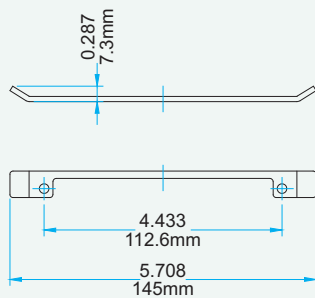


Product Name	Part Number	A (Arm Length)
Eclipse Split Arm Operator,4.5",LH	132630SR1-LQX	4.5"
Eclipse Split Arm Operator,4.5",RH	132630SR1-RQX	4.5"
Eclipse Split Arm Operator,4.75",LH	132630R1-LQX	4.75"
Eclipse Split Arm Operator,4.75",RH	132630R1-RQX	4.75"

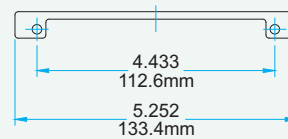
Eclipse Handle / Cover



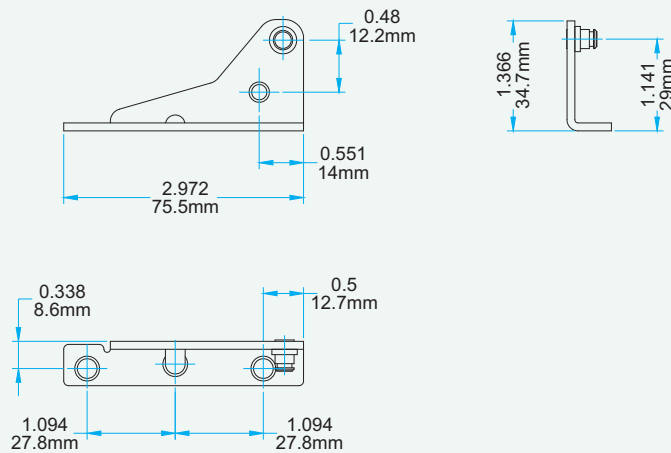
Back Plate

19026


Right Hand Shown

19027


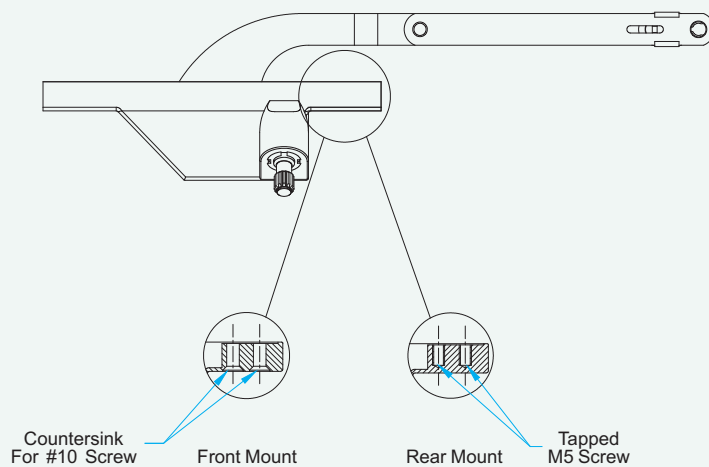
Stud Bracket (Right-Hand Shown)



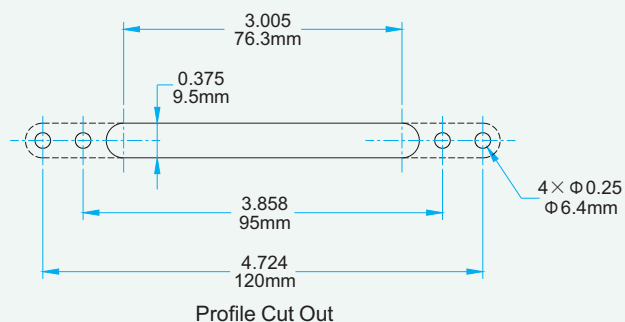
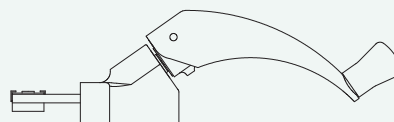
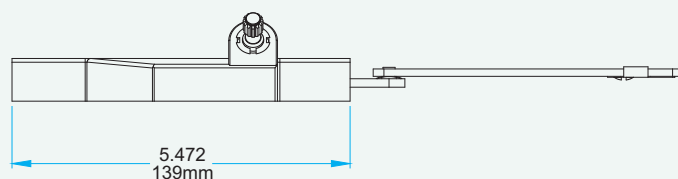
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

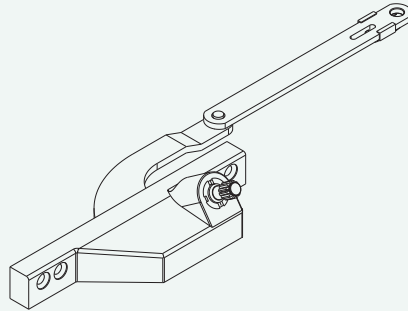
CASEMENT OPERATORS

Face Mount Dyad Operator



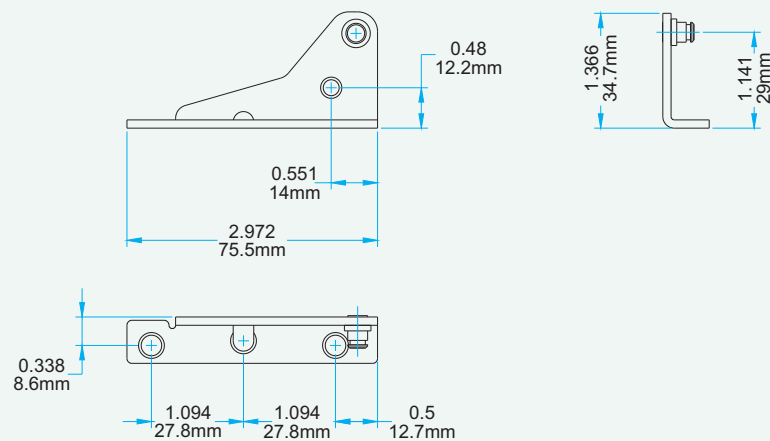
Right Hand Shown





Product Name	Part Number
Face Mount Dyad Operator,Rear Mount,RH	132137R-RZS
Face Mount Dyad Operator,Rear Mount,LH	132137R-LZS
Face Mount Dyad Operator,Front Mount,RH	132137F-RZS
Face Mount Dyad Operator,Front Mount,LH	132137F-LZS

Stud Bracket (Right-Hand Shown)

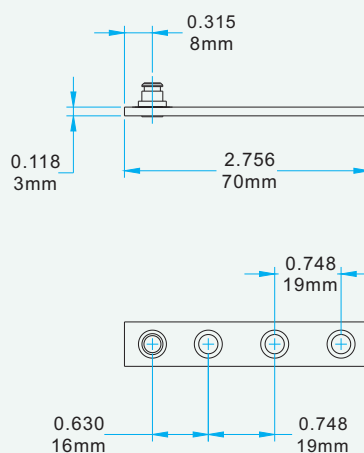


Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

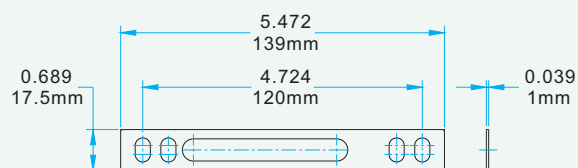
CASEMENT OPERATORS

Face Mount Dyad Operator

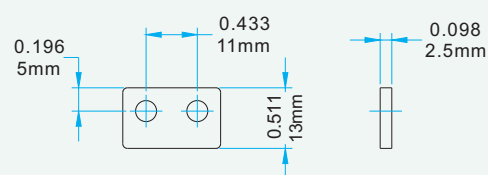
Stud Bracket 190447 (Non-Handed)



Gasket 20137

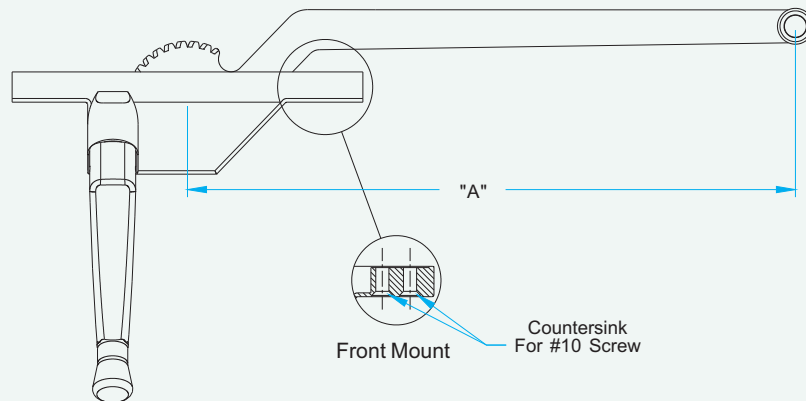


Backing Plate 190137

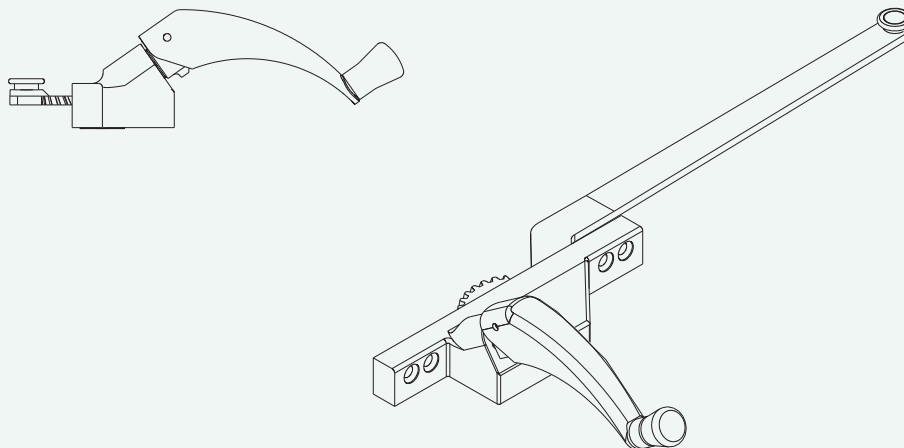
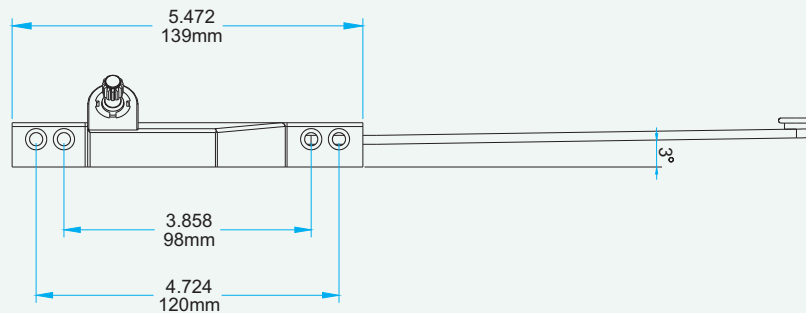


NOTE: (QTY2) Backing Plates Required Per Operator

Face Mount Single Arm Operator Front Mount

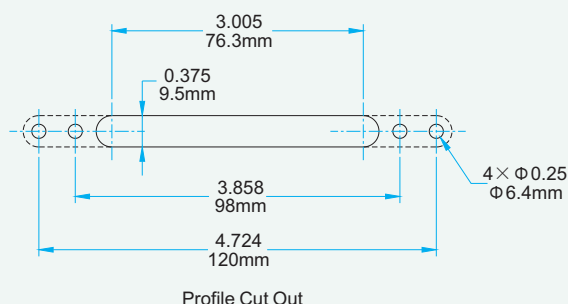


132137F-RZ95 Shown

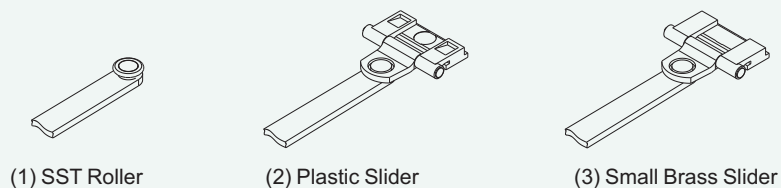


CASEMENT OPERATORS

Face Mount Single Arm Operator Front Mount

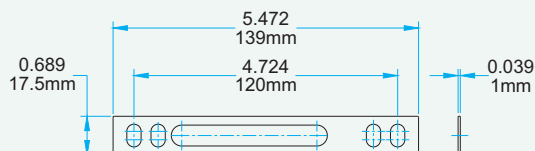


Product Name	Part Number	"A" Arm Length
Face Mount Single Arm Operator 7.5",Front Mount,RH	132137F-RZ75X	7.5"
Face Mount Single Arm Operator 7.5",Front Mount,LH	132137F-LZ75X	7.5"
Face Mount Single Arm Operator 9.5",Front Mount,RH	132137F-RZ95X	9.5"
Face Mount Single Arm Operator 9.5",Front Mount,LH	132137F-LZ95X	9.5"
Face Mount Single Arm Operator 13.5",Front Mount,RH	132137F-RZ135X	13.5"
Face Mount Single Arm Operator 13.5",Front Mount,LH	132137F-LZ135X	13.5"

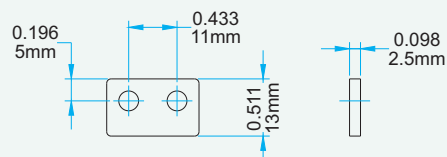


- (1) This is default, in this case, no letter attached
- (2) "X" =A Stands for Plastic Slider
- (3) "X" =B Stands for Small Brass Slider

Gasket 20137



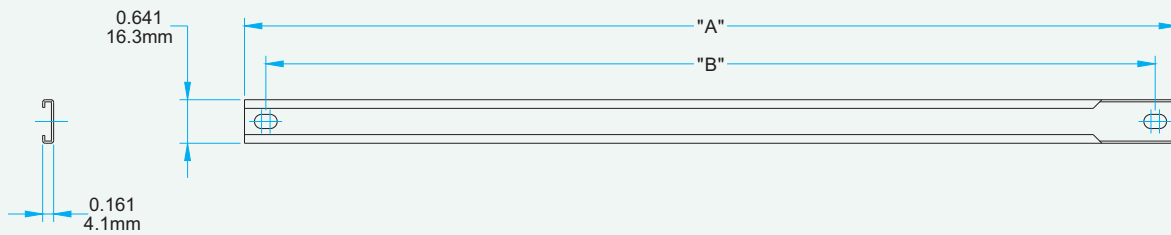
Backing Plate 190137



NOTE: (QTY2) Backing Plates Required Per Operator



Track

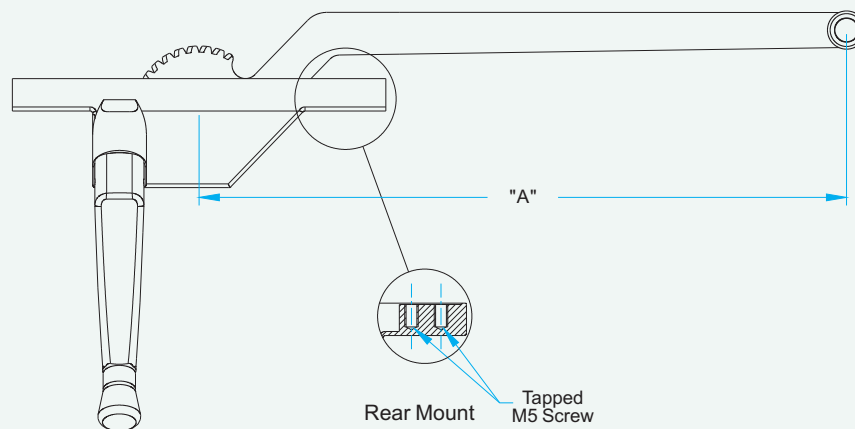


Single Arm Operator Track 2 Holes

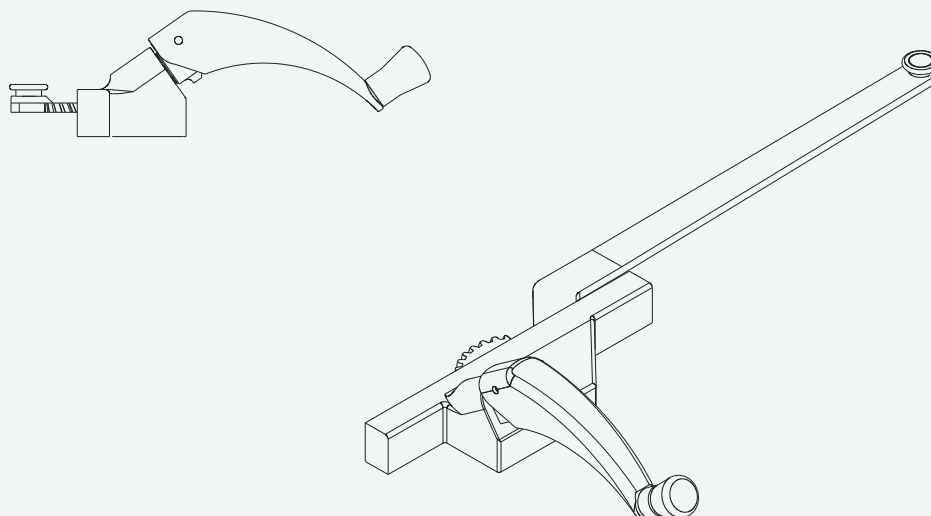
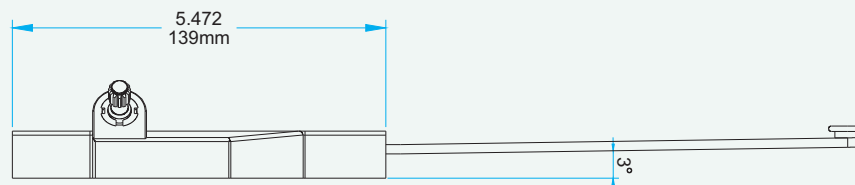
Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

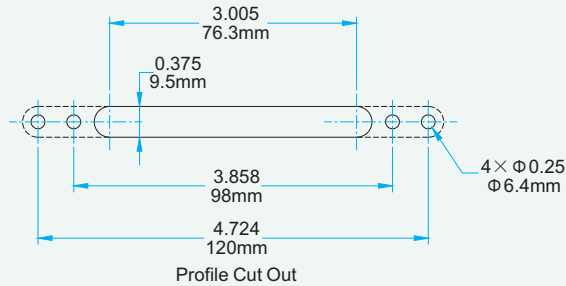
CASEMENT OPERATORS

Face Mount Single Arm Operator Rear Mount

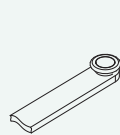


132137R-RZ95 Shown

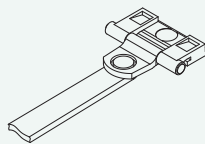




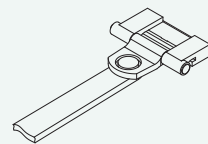
Product Name	Part Number	"A" Arm Length
Face Mount Single Arm Operator 7.5",Rear Mount,RH	132137R-RZ75X	7.5"
Face Mount Single Arm Operator 7.5",Rear Mount,LH	132137R-LZ75X	7.5"
Face Mount Single Arm Operator 9.5",Rear Mount,RH	132137R-RZ95X	9.5"
Face Mount Single Arm Operator 9.5",Rear Mount,LH	132137R-LZ95X	9.5"
Face Mount Single Arm Operator 13.5",Rear Mount,RH	132137R-RZ135X	13.5"
Face Mount Single Arm Operator 13.5",Rear Mount,LH	132137R-LZ135X	13.5"



(1) SST Roller



(2) Plastic Slider



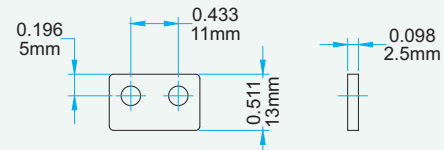
(3) Small Brass Slider

- (1) This is default, in this case, no letter attached
 (2) "X" =A Stands for Plastic Slider
 (3) "X" =B Stands for Small Brass Slider

Gasket 20137



Backing Plate 190137

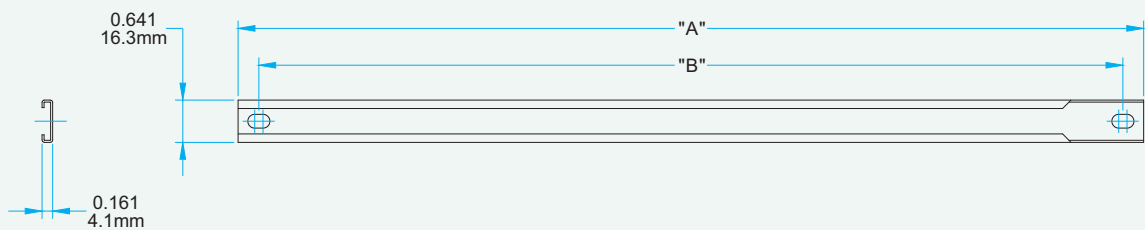


NOTE: (QTY2) Backing Plates Required Per Operator

CASEMENT OPERATORS

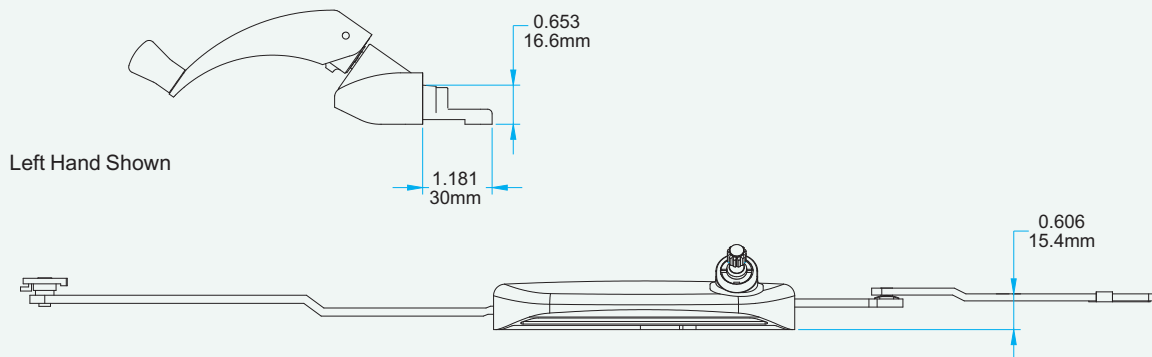
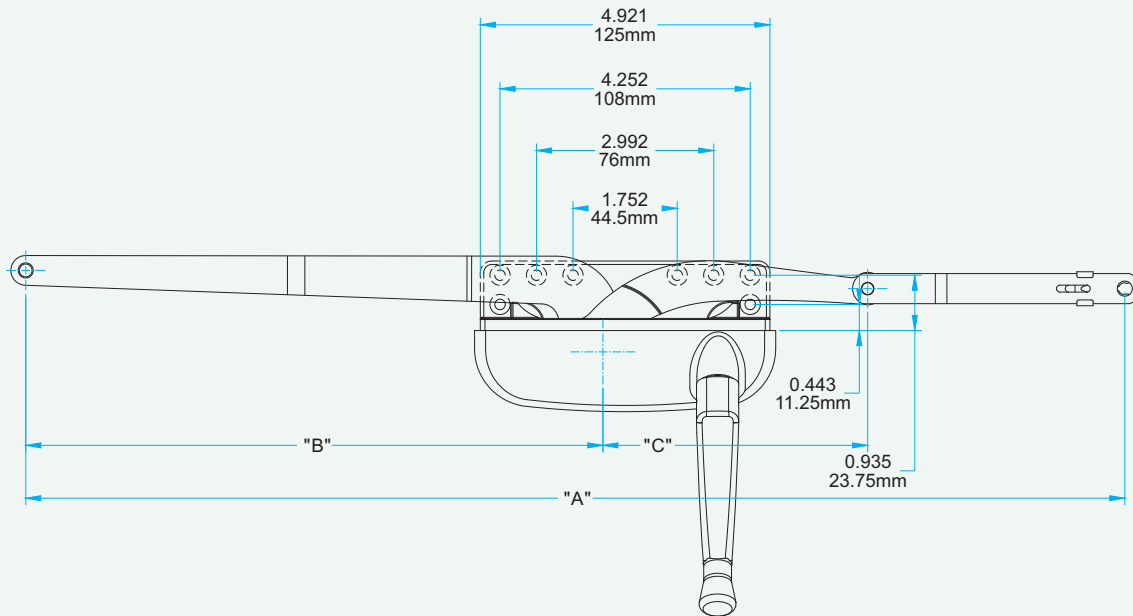
Face Mount Single Arm Operator Rear Mount

Track



Single Arm Operator Track 2 Holes			
Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

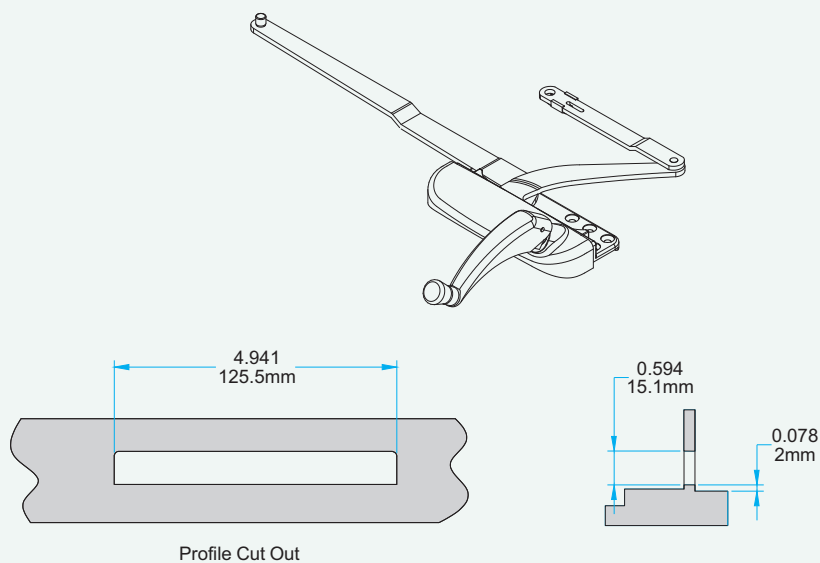
Grande Dual Arm Operator



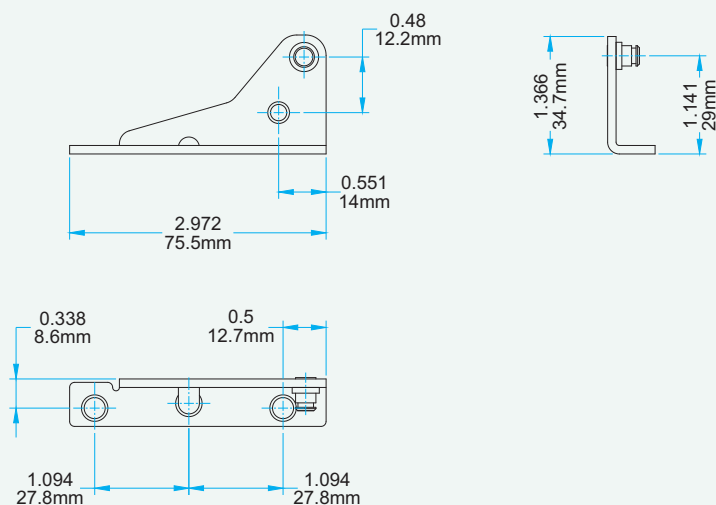
Product Name	Part Number	"A"	"B"	"C"
Grande Dual Arm Operator,RH	132626-R	18.834"	9.964"	4.5"
Grande Dual Arm Operator,LH	132626-L	18.834"	9.964"	4.5"
Grande Short Arm Dual Arm Operator,RH	132626S-R	15.945"	8.4"	3.6"
Grande Short Arm Dual Arm Operator,LH	132626S-L	15.945"	8.4"	3.6"

CASEMENT OPERATORS

Grande Dual Arm Operator



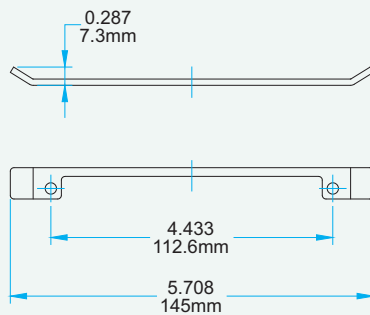
Stud Bracket (Right-Hand Shown)



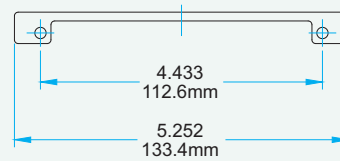
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Back Plate

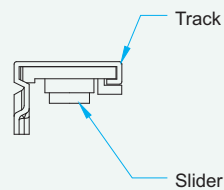
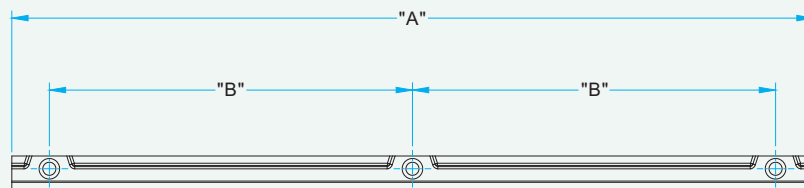
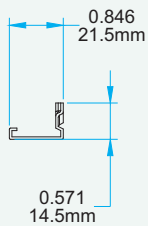
19026



19027



Track

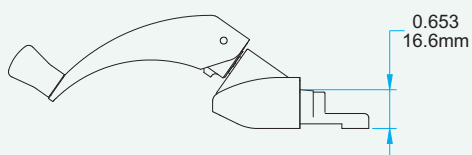
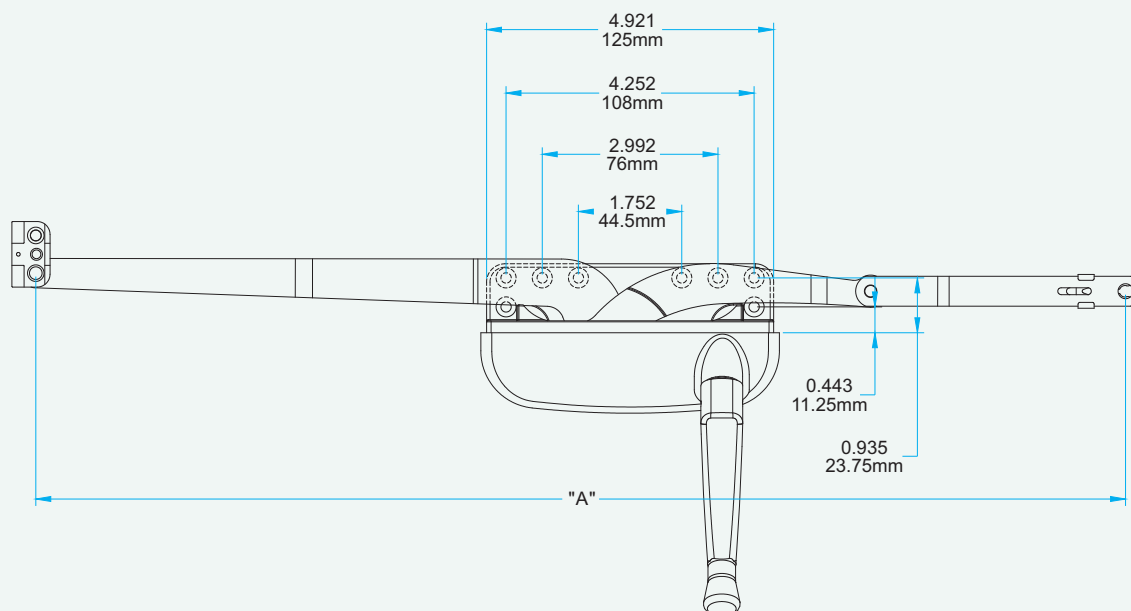


Dual Arm Operator Track 3 Holes

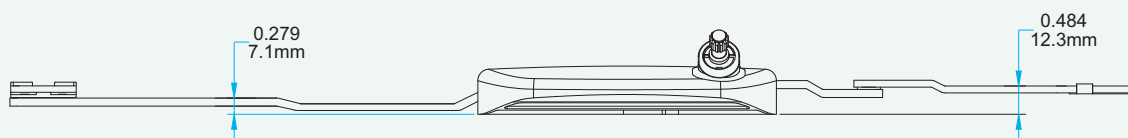
Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1	14.449"	6.496"	Steel
70052R1	12.598"	5.708"	SST
190052R1	12.598"	5.708"	Steel

CASEMENT OPERATORS

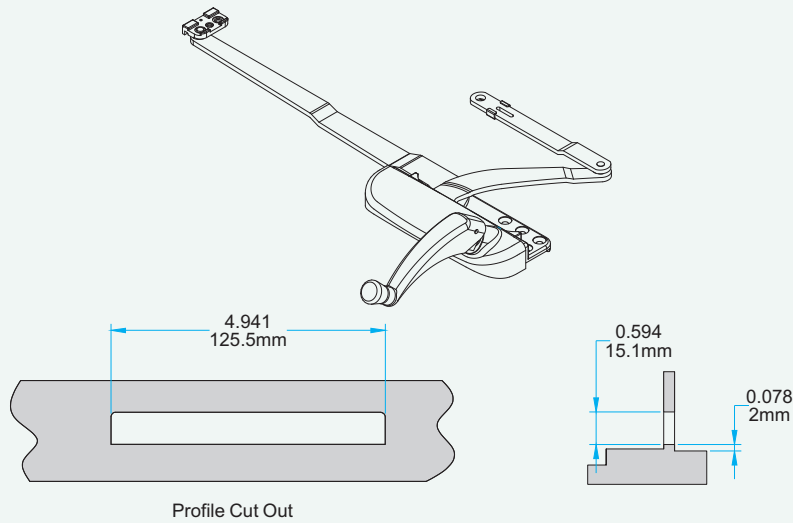
Grande Dual Arm Operator (Low Profile)



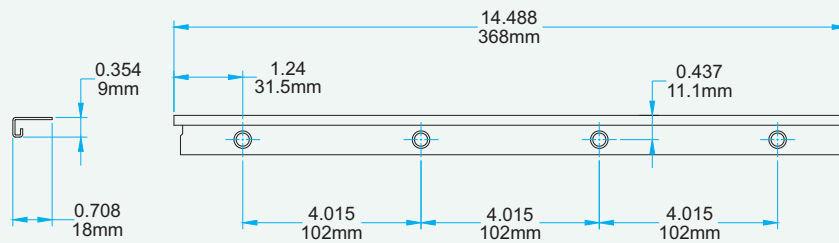
Left Hand Shown



Product Name	Part Number	"A"
Grande Dual Arm Operator (Low Profile),RH	132626-RS	18.834"
Grande Dual Arm Operator (Low Profile),LH	132626-LS	18.834"
Grande Short Arm Dual Arm Operator (Low Profile),RH	132626S-RS	15.945"
Grande Short Arm Dual Arm Operator (Low Profile),LH	132626S-LS	15.945"

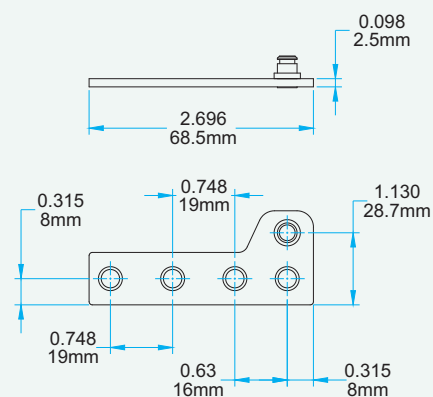


Track 190056



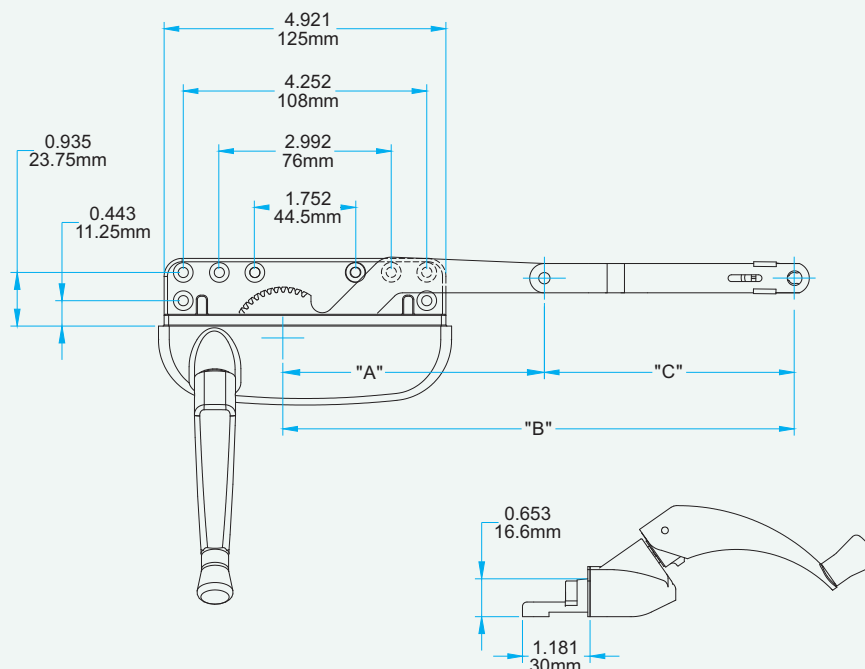
Stud Bracket (Right-Hand Shown)

Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

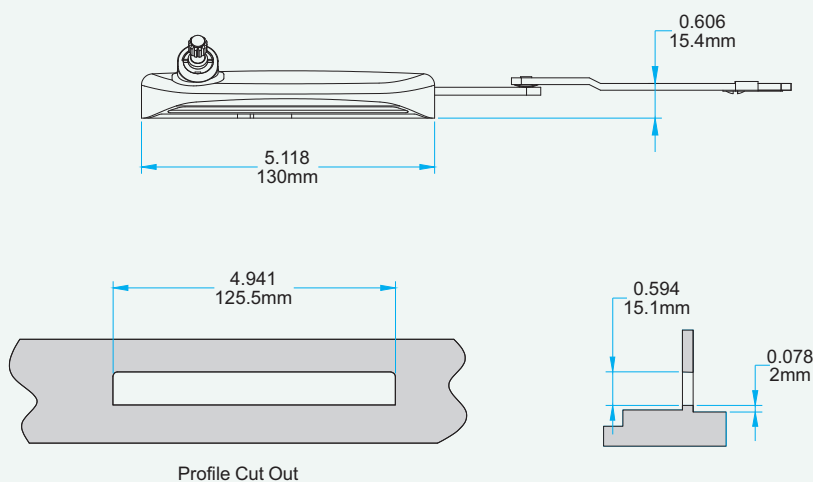


CASEMENT OPERATORS

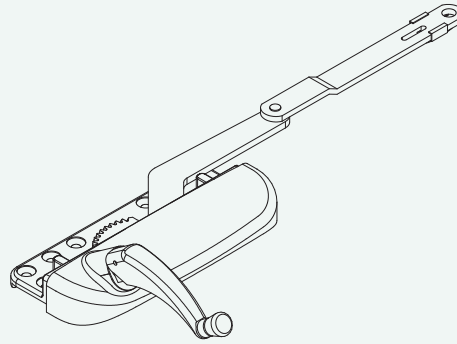
Grande Dyad Operator



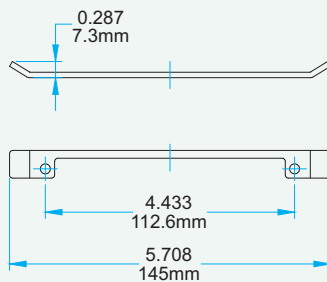
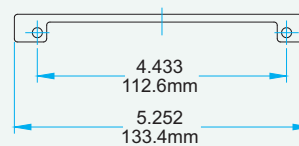
Left Hand Shown



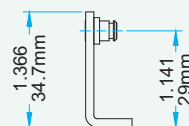
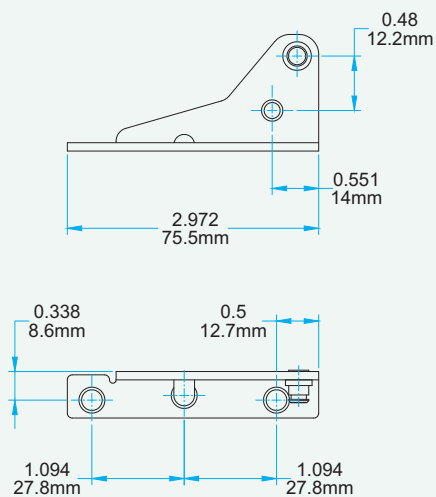
Product Name	Part Number	"A"	"B"	"C"
Grande Dyad Operator,RH	132626-RQS	4.75"	9.12"	4.37"
Grande Dyad Operator,LH	132626-LQS	4.75"	9.12"	4.37"
Grande Dyad Operator,Short Arm,RH	132626S-RQS	4.5"	8.87"	4.37"
Grande Dyad Operator,Short Arm,LH	132626S-LQS	4.5"	8.87"	4.37"



Back Plate

19026

19027


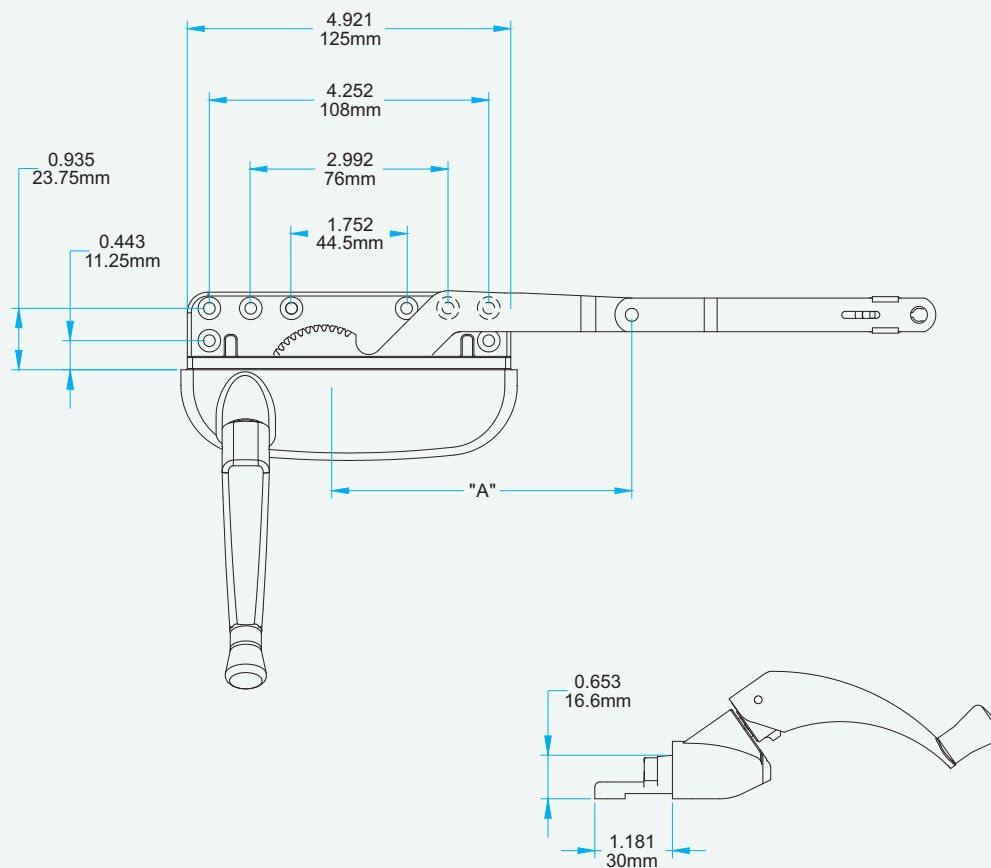
Stud Bracket (Right-Hand Shown)



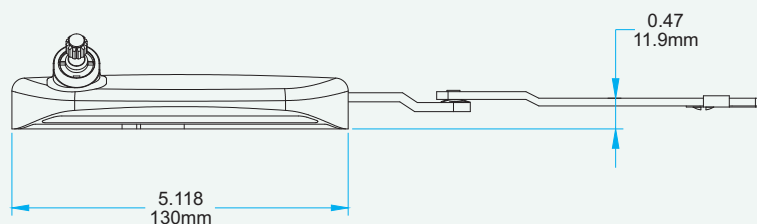
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

CASEMENT OPERATORS

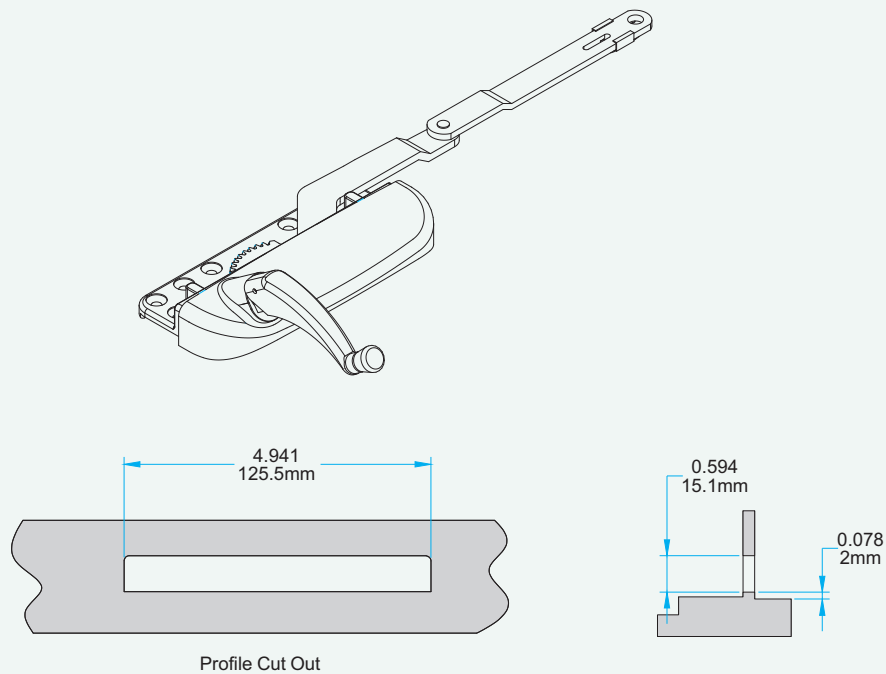
Grande Dyad Operator(Low Profile)



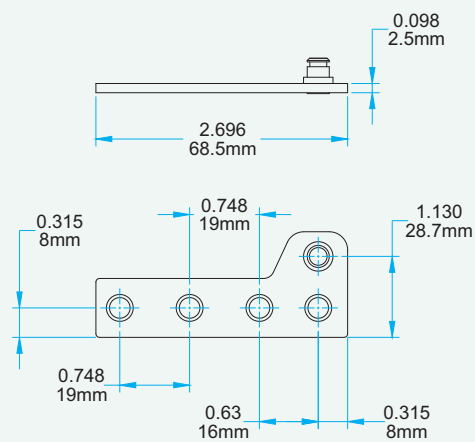
Left Hand Shown



Product Name	Part Number	"A"
Grande Dyad Operator,RH(Low Profile)	132626-RQSS	4.75"
Grande Dyad Operator,LH(Low Profile)	132626-LQSS	4.75"
Grande Dyad Operator,Short Arm,RH(Low Profile)	132626S-RQSS	4.5"
Grande Dyad Operator,Short Arm,LH(Low Profile)	132626S-LQSS	4.5"



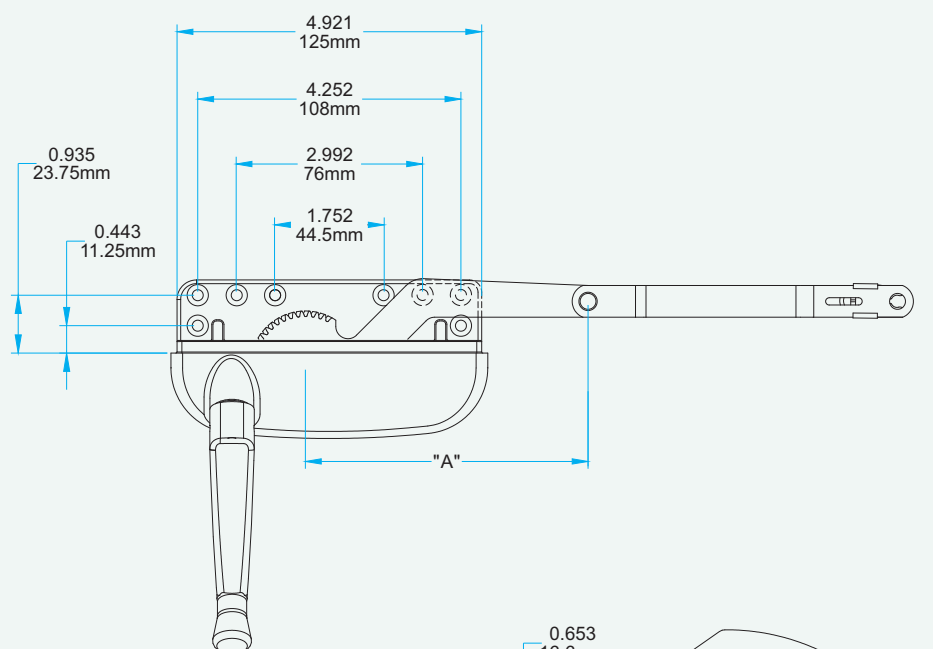
Stud Bracket (Right-Hand Shown)



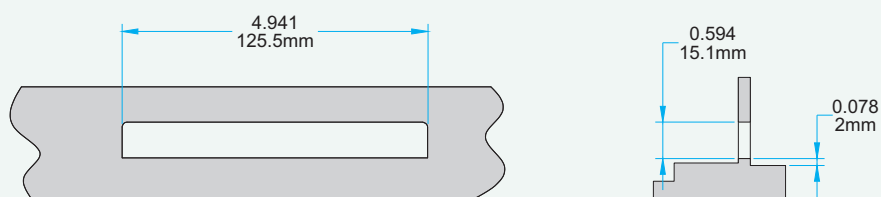
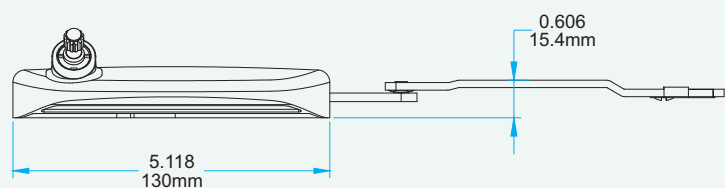
Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

CASEMENT OPERATORS

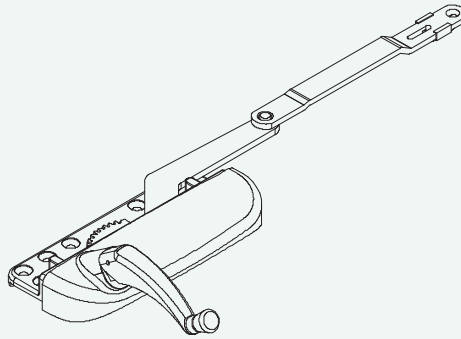
Grande Reverse Dyad Operator



Left Hand Shown

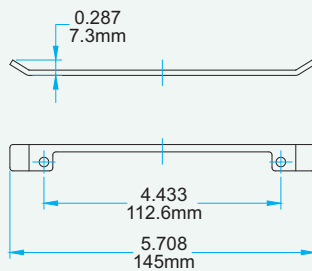
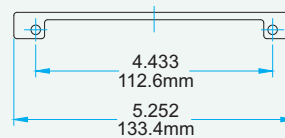


Profile Cut Out

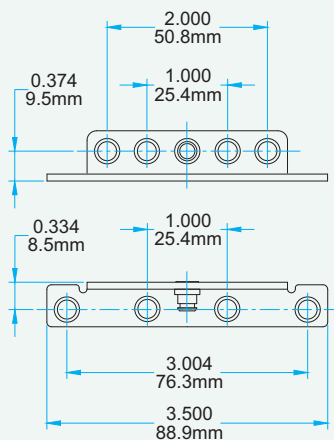


Product Name	Part Number	A (Arm Length)
Grande Reverse Dyad Operator,RH	132626-RQSW	4.75"
Grande Reverse Dyad Operator,LH	132626-LQSW	4.75"
Grande Reverse Dyad Operator,Short Arm,RH	132626S-RQSW	4.5"
Grande Reverse Dyad Operator,Short Arm,LH	132626S-LQSW	4.5"

Back Plate

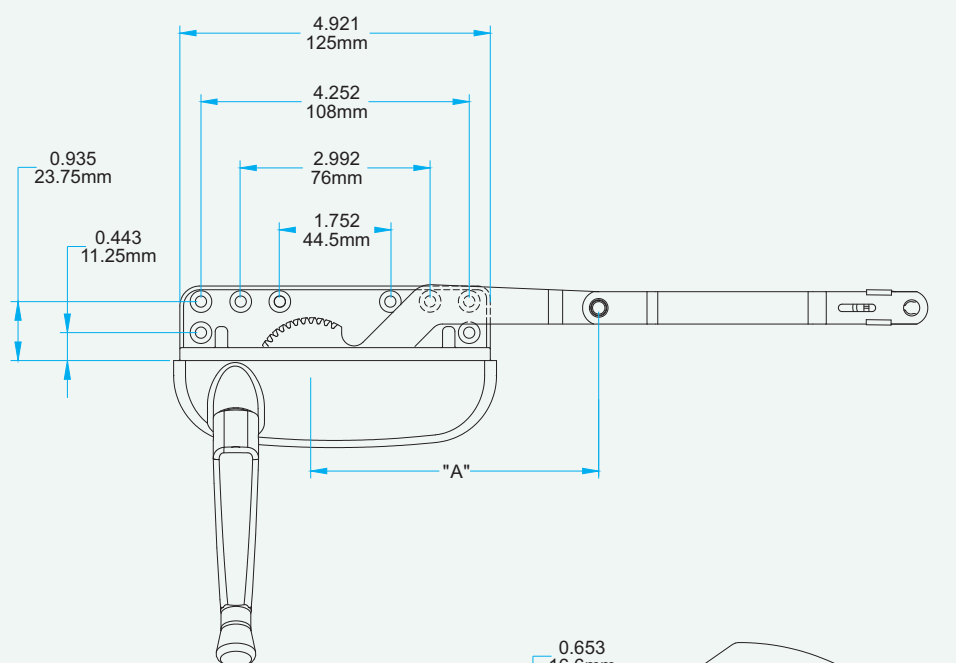
19026

19027


Stud Bracket 19048 (Non-Handed)

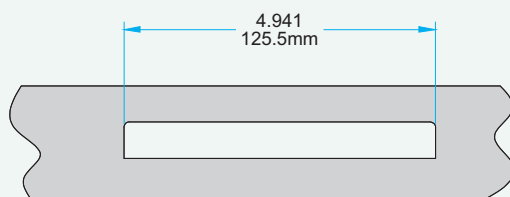
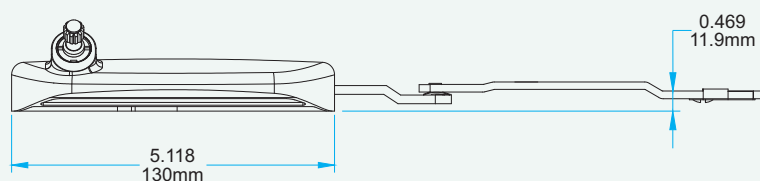


CASEMENT OPERATORS

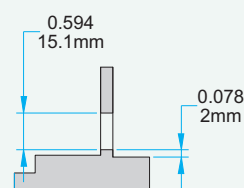
Grande Reverse Dyad Operator(Low Profile)

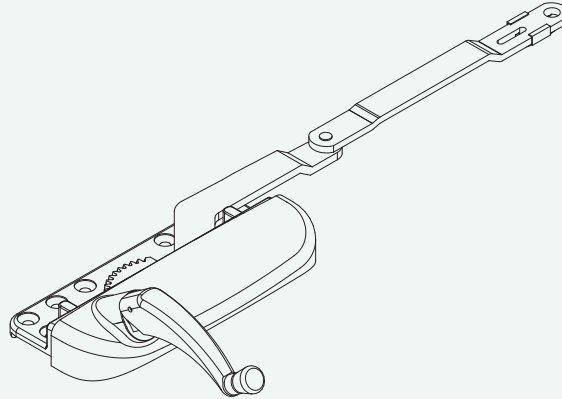


Left Hand Shown



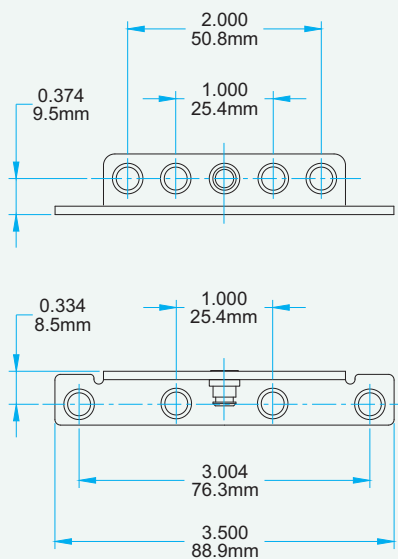
Profile Cut Out





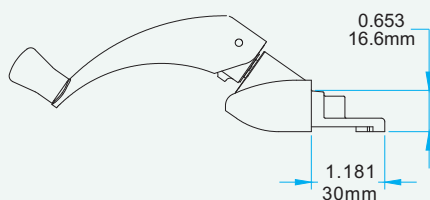
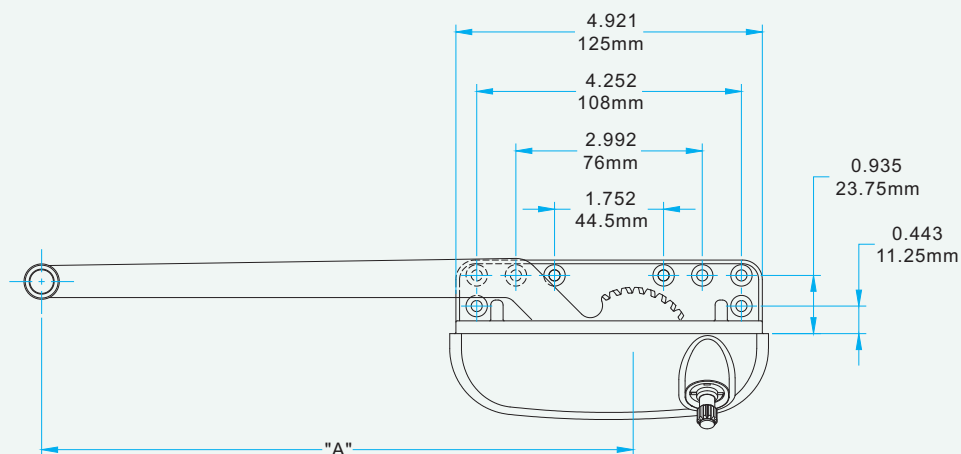
Product Name	Part Number	A (Arm Length)
Grande Reverse Dyad Operator,RH	132626-RQSWS	4.75"
Grande Reverse Dyad Operator,LH	132626-LQSWS	4.75"
Grande Reverse Dyad Operator,Short Arm,RH	132626S-RQSWS	4.5"
Grande Reverse Dyad Operator,Short Arm,LH	132626S-LQSWS	4.5"

Stud Bracket 19048 (Non-Handed)

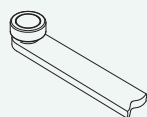


CASEMENT OPERATORS

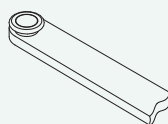
Grande Single Arm Operator



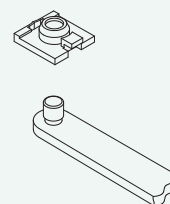
Left Hand Shown



(1) Nylon Glide Shoe

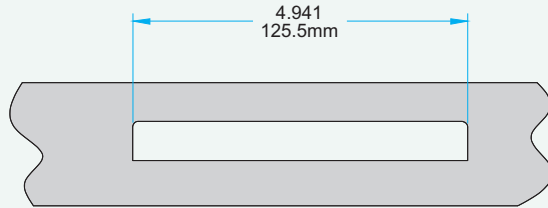


(2) SST Roller
(Low Profile)

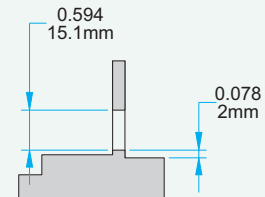


(3) Plastic Slider

- (1) This is default, in this case, no letter attached
- (2) "X" =S Stands for SST Roller
- (3) "X" =P Stands for Plastic Slider



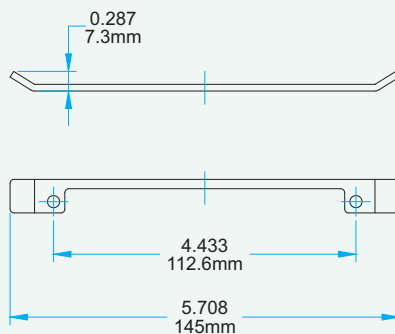
Profile Cut Out



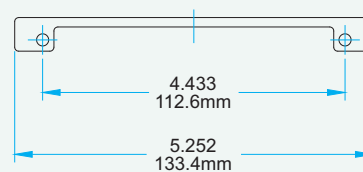
Product Name	Part Number	"A" Arm Length
7.5"Grande Single Arm Operator,RH	132626-RZ75X	7.5"
7.5"Grande Single Arm Operator,LH	132626-LZ75X	7.5"
9.5"Grande Single Arm Operator,RH	132626-RZ95X	9.5"
9.5"Grande Single Arm Operator,LH	132626-LZ95X	9.5"
13.5"Grande Single Arm Operator,RH	132626-RZ135X	13.5"
13.5"Grande Single Arm Operator,LH	132626-LZ135X	13.5"

Back Plate

19026



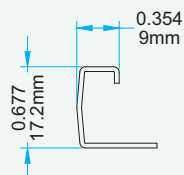
19027



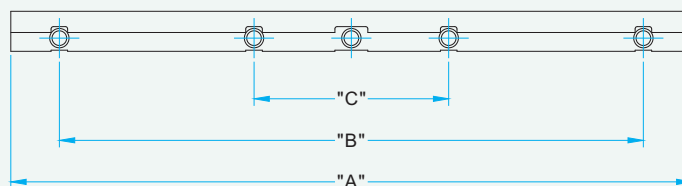
CASEMENT OPERATORS

Grande Single Arm Operator

Track

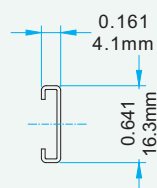


(1)

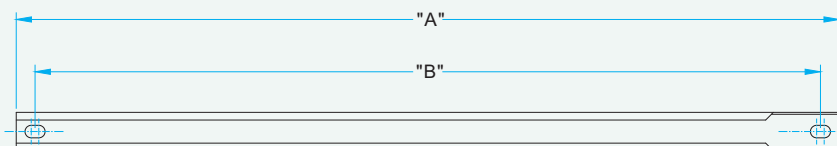


Single Arm Operator Track

Part Number	"A"	"B"	"C"	Material
70039	8.874"	6.504"	N/A	SST
190039				Steel
70040	11.378"	9.756"	3.252"	SST
190040				Steel
70041	13.752"	12.374"	4.126"	SST
190041				Steel



(2)

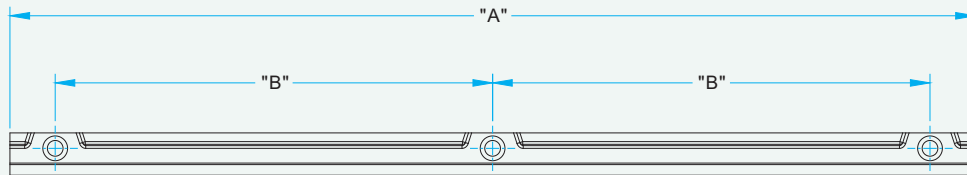
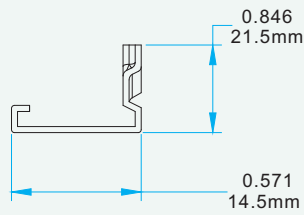


Single Arm Operator Track 2 Holes

Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST



(3)

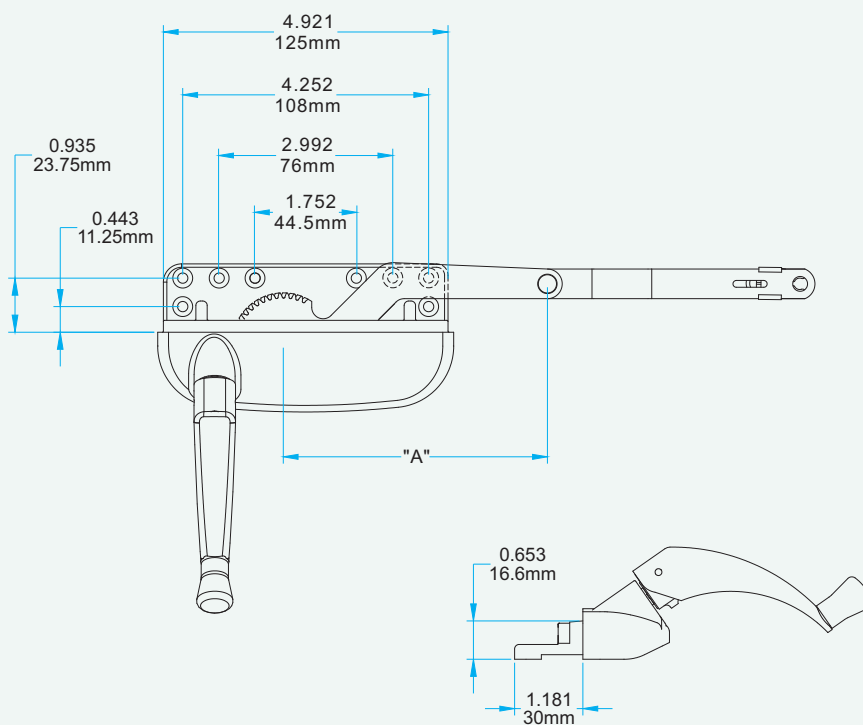


Dual Arm Operator Track 3 Holes

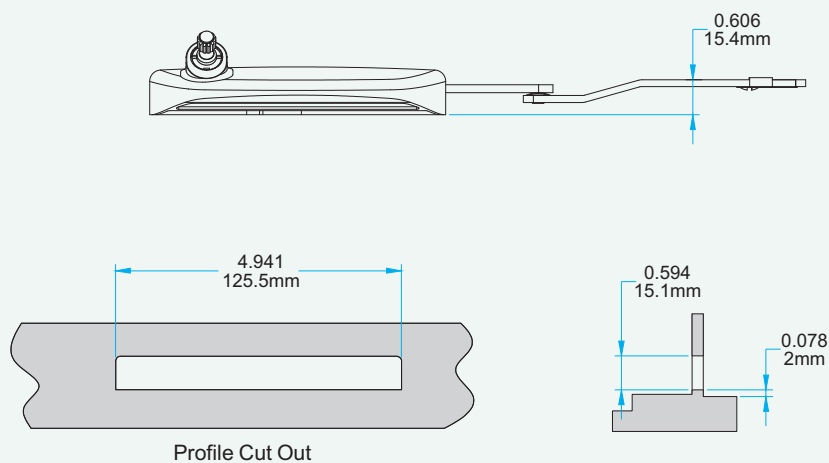
Part Number	"A"	"B"	Material
70051R1	14.449"	6.496"	SST
190051R1			Steel
70052R1	12.598"	5.708"	SST
190052R1			Steel
70053R1	11.811"	5.315"	SST
190053R1			Steel

CASEMENT OPERATORS

Grande Split Arm Operator

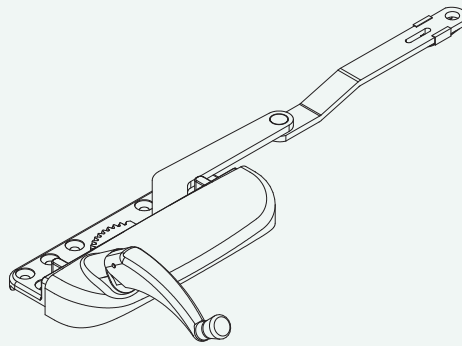


Left Hand Shown

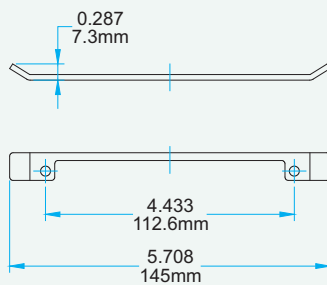
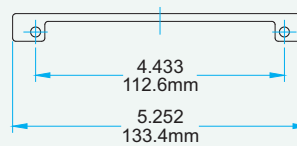


Profile Cut Out

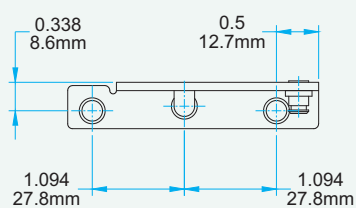
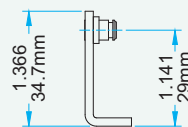
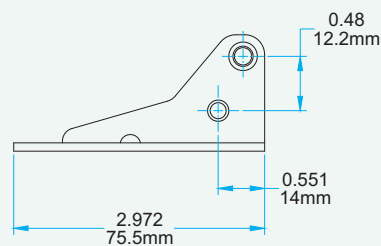
Product Name	Part Number	"A"
Grande Split Arm Operator,RH	132626-RQX	4.75"
Grande Split Arm Operator,LH	132626-LQX	4.75"
Grande Split Arm Operator,Short Arm,RH	132626S-RQX	4.5"
Grande Split Arm Operator,Short Arm,LH	132626S-LQX	4.5"



Back Plate

19026

19027


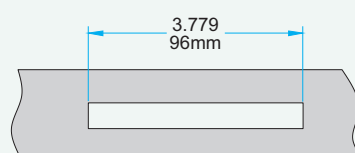
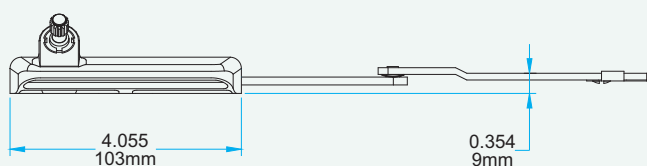
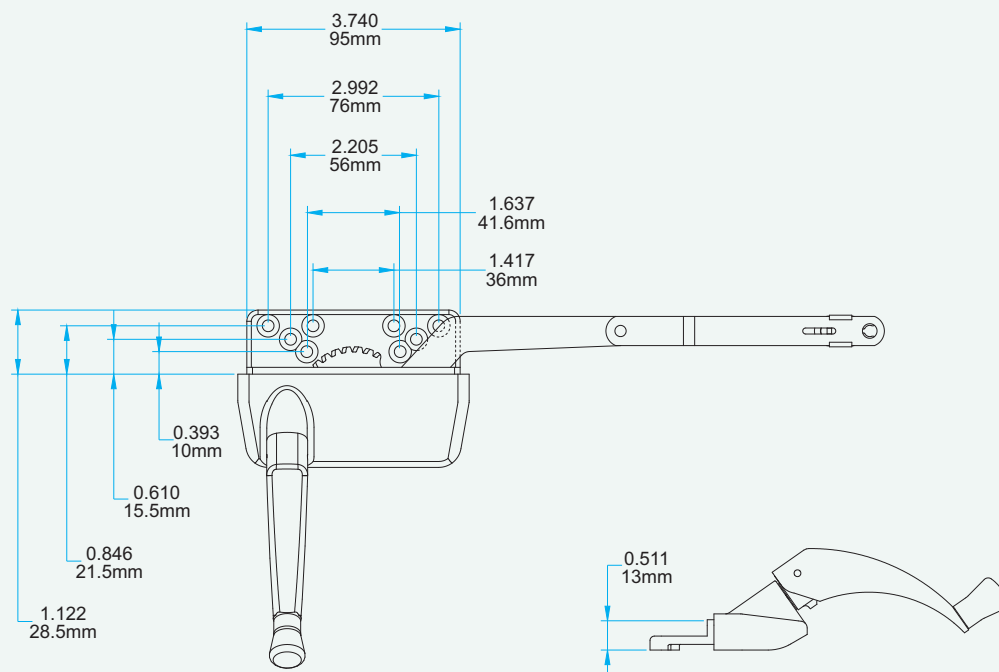
Stud Bracket (Right-Hand Shown)



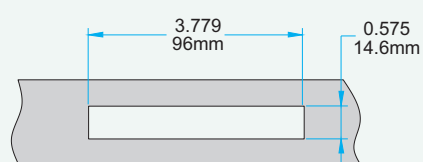
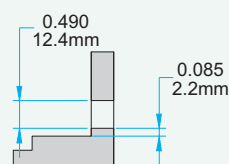
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

CASEMENT OPERATORS

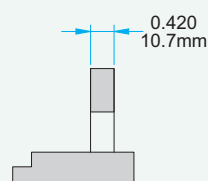
Traditional Dyad Operator

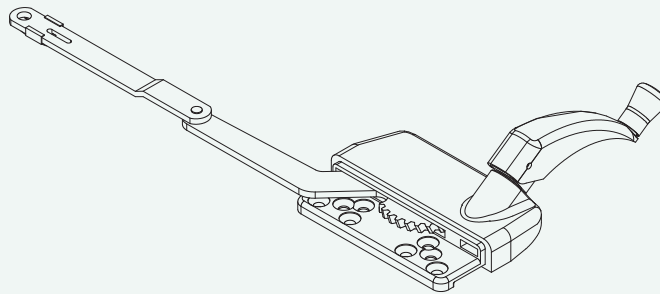


Profile Cut Out (PVC Profile)



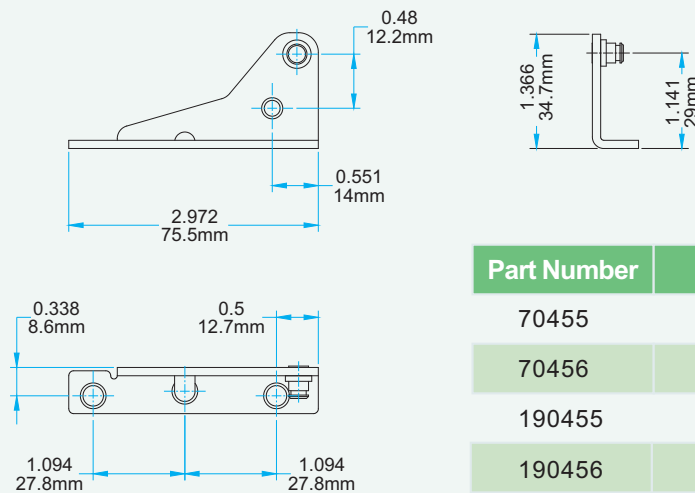
Profile Cut Out (Wood Profile)





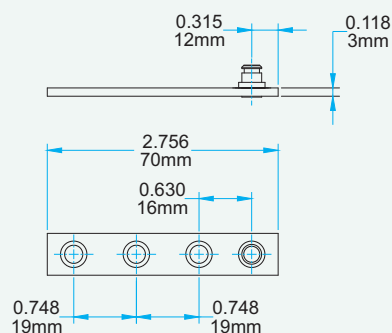
Product Name	Part Number
Traditional Case Dyad Operator, RH	132104-RQS
Traditional Case Dyad Operator, LH	132104-LQS

Stud Bracket (Right-Hand Shown)



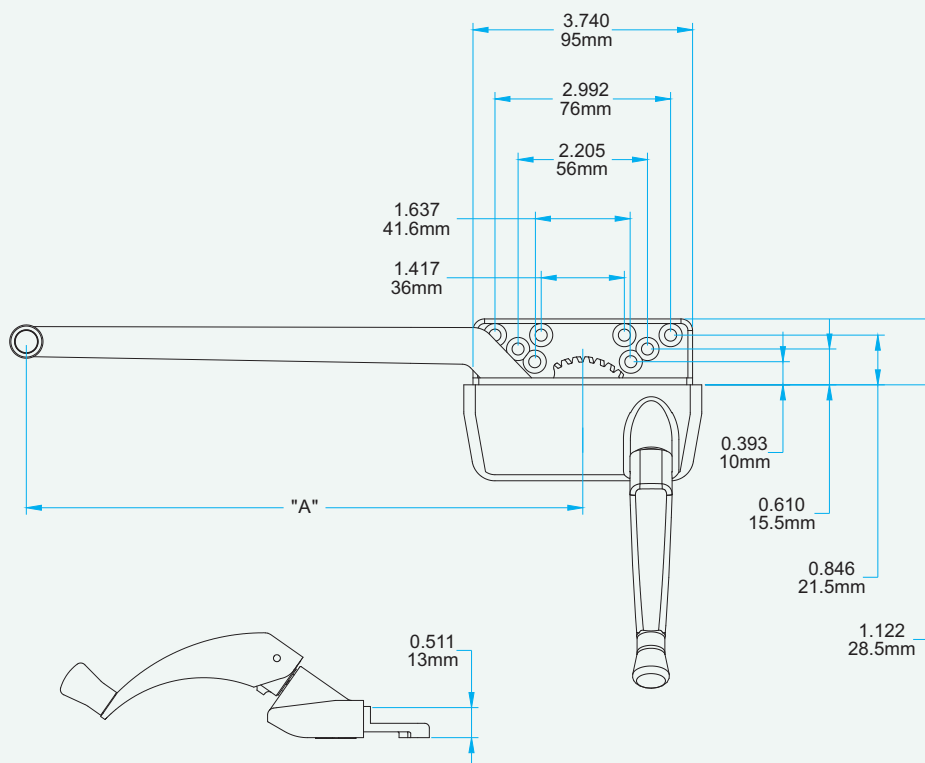
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Stud Bracket 190447 (Non-Handed)

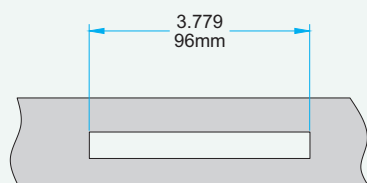


CASEMENT OPERATORS

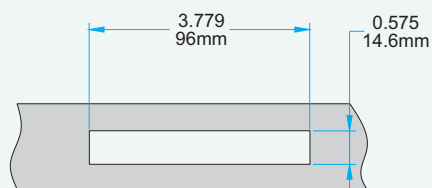
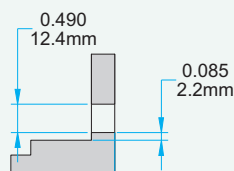
Traditional Single Arm Operator



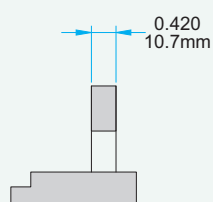
Left Hand Shown

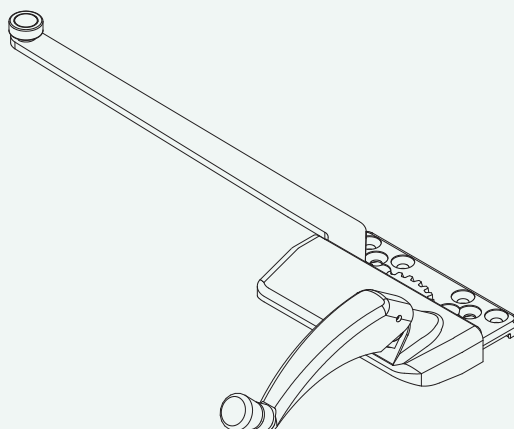


Profile Cut Out (PVC Profile)

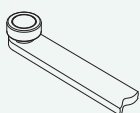


Profile Cut Out (Wood Profile)

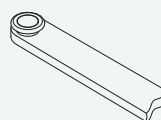




Product Name	Part Number	"A"
Traditional Case Single Arm Operator 7.5",RH	132104-RZ75X	7.5"
Traditional Case Single Arm Operator 7.5",LH	132104-LZ75X	7.5"
Traditional Case Single Arm Operator 9.5",RH	132104-RZ95X	9.5"
Traditional Case Single Arm Operator 9.5",LH	132104-LZ95X	9.5"
Traditional Case Single Arm Operator 13.5",RH	132104-RZ135X	13.5"
Traditional Case Single Arm Operator 13.5",LH	132104-LZ135X	13.5"



(1) Nylon Glide Shoe



(2) SST Roller

(1) This is default, in this case, no letter attached

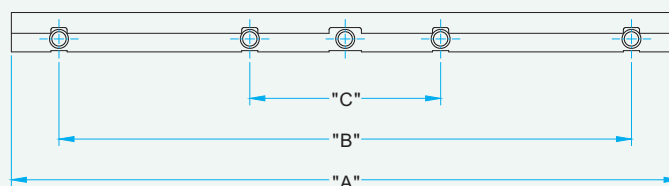
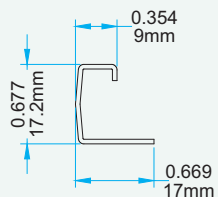
(2) "X" =S Stands for SST Roller

CASEMENT OPERATORS

Traditional Single Arm Operator

Track

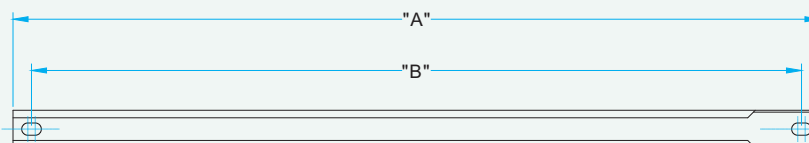
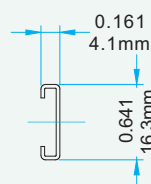
(1)



Single Arm Operator Track

Part Number	"A"	"B"	"C"	Material
70039	8.874"	6.504"	N/A	SST
190039				Steel
70040	11.378"	9.756"	3.252"	SST
190040				Steel
70041	13.752"	12.374"	4.126"	SST
190041				Steel

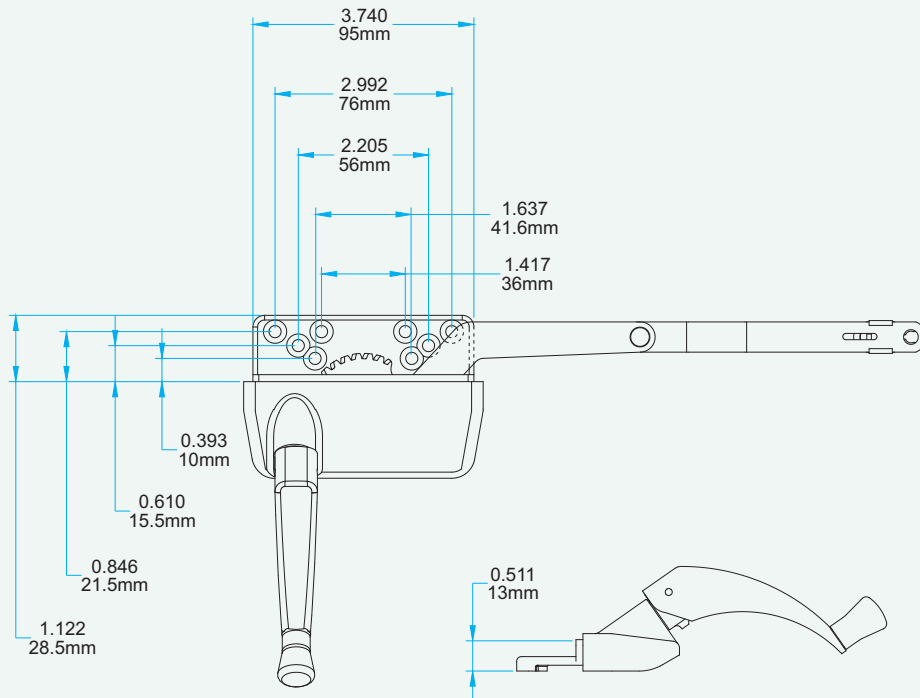
(2)



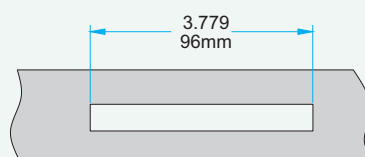
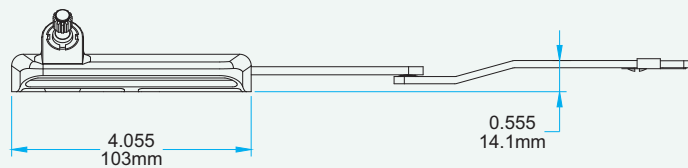
Single Arm Operator Track 2 Holes

Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

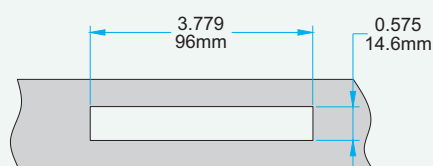
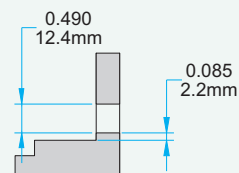
Traditional Split Arm Operator



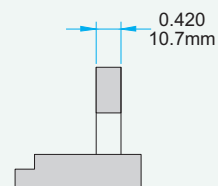
Left Hand Shown



Profile Cut Out (PVC Profile)

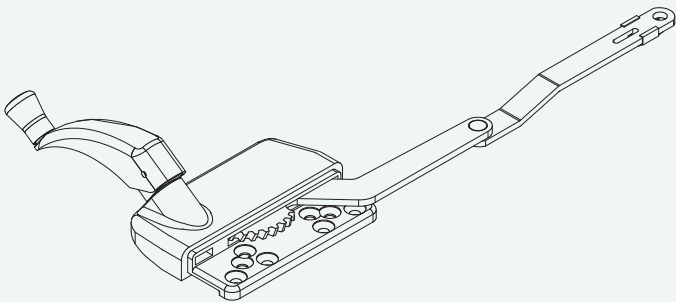


Profile Cut Out (Wood Profile)



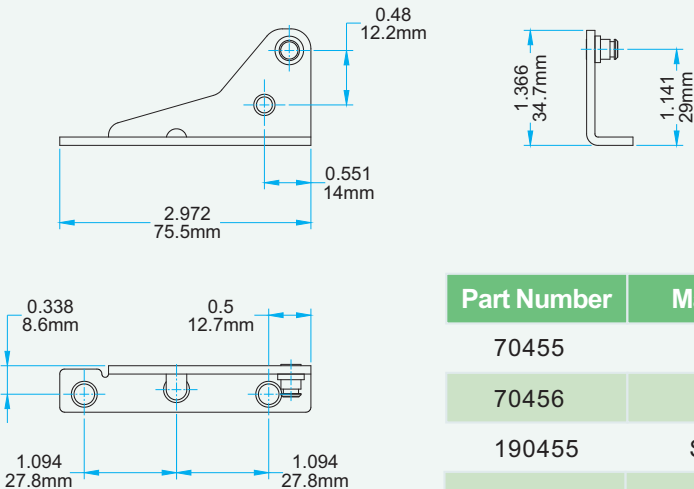
CASEMENT OPERATORS

Traditional Split Arm Operator



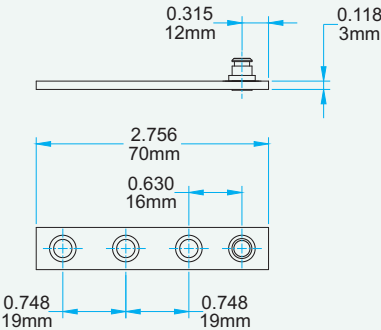
Product Name	Part Number
Traditional Case Split Arm Operator,RH	132104-RQX
Traditional Case Split Arm Operator,LH	132104-LQX

Stud Bracket (Right-Hand Shown)

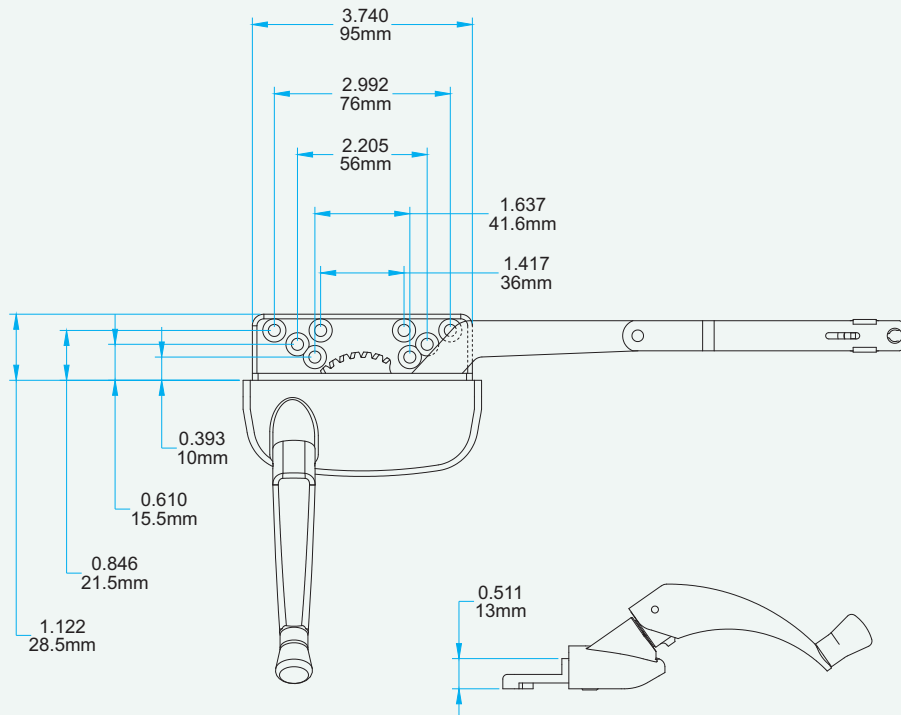


Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

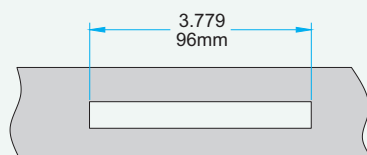
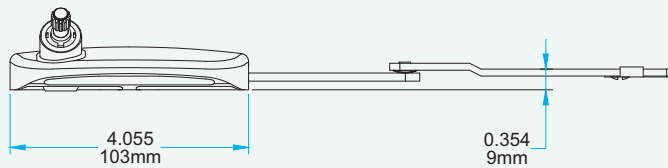
Stud Bracket 190447 (Non-Handed)



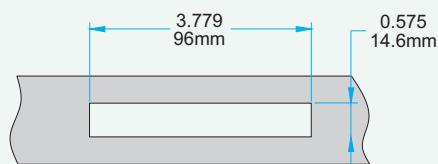
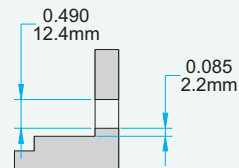
Contour Case Dyad Operator



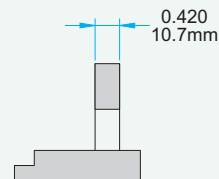
Left Hand Shown



Profile Cut Out (PVC Profile)

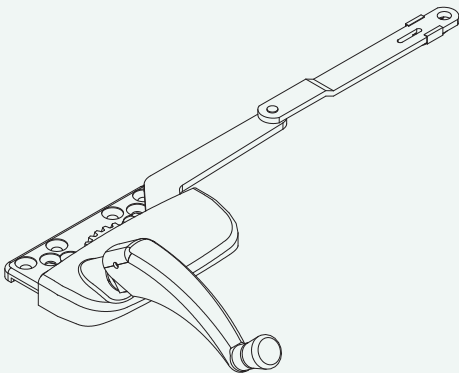


Profile Cut Out (Wood Profile)



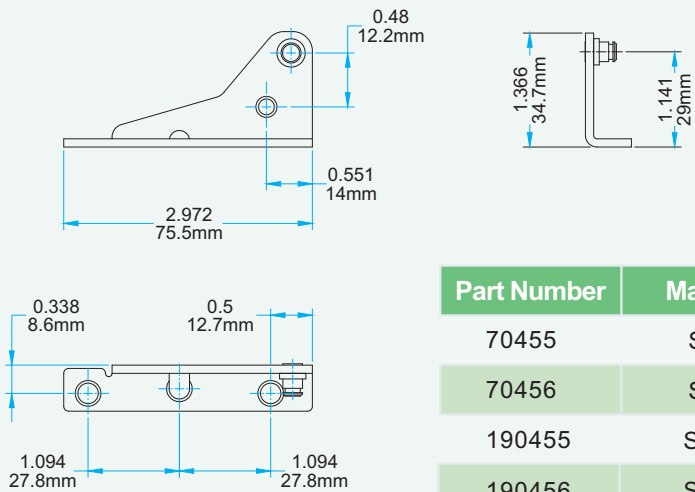
CASEMENT OPERATORS

Contour Case Dyad Operator



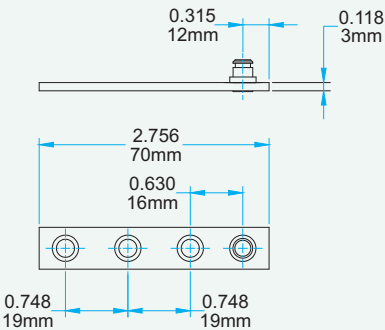
Product Name	Part Number
Contour Case Dyad Operator,RH	132105-RQS
Contour Case Dyad Operator,LH	132105-LQS

Stud Bracket (Right-Hand Shown)

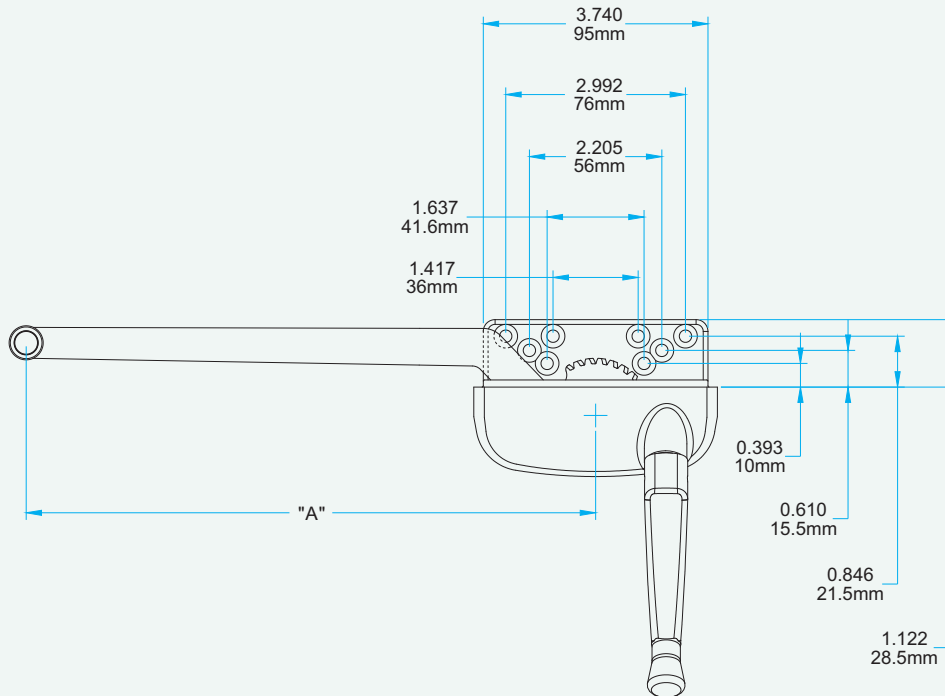


Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

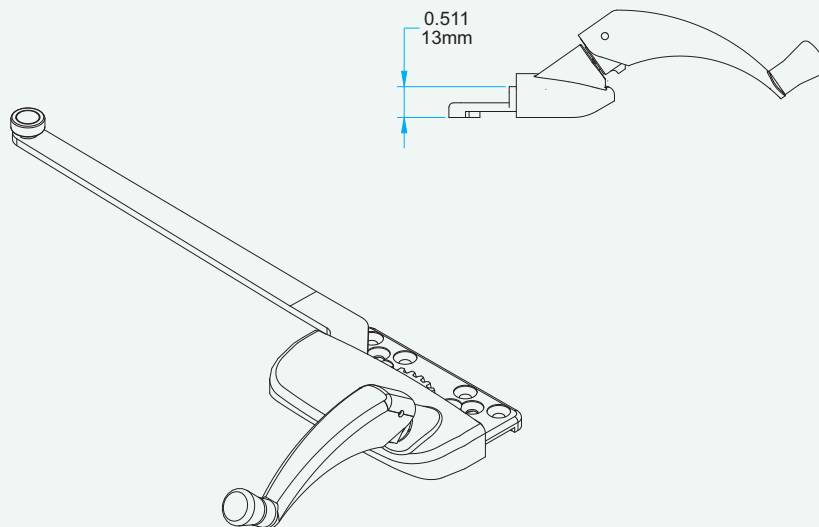
Stud Bracket 190447 (Non-Handed)



Contour Case Single Arm Operator

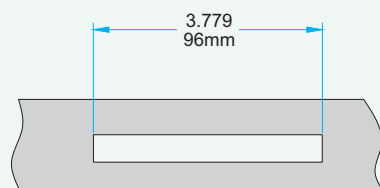


Left Hand Shown

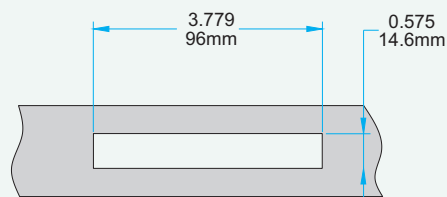
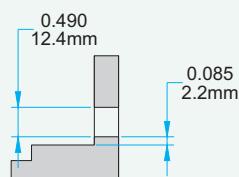


CASEMENT OPERATORS

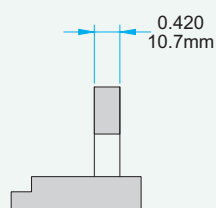
Contour Case Single Arm Operator



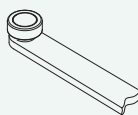
Profile Cut Out (PVC Profile)



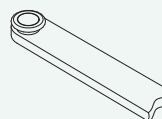
Profile Cut Out (Wood Profile)



Product Name	Part Number	"A"
Contour Case Single Arm Operator 7.5",RH	132105-RZ75X	7.5"
Contour Case Single Arm Operator 7.5",LH	132105-LZ75X	7.5"
Contour Case Single Arm Operator 9.5",RH	132105-RZ95X	9.5"
Contour Case Single Arm Operator 9.5",LH	132105-LZ95X	9.5"
Contour Case Single Arm Operator 13.5",RH	132105-RZ135X	13.5"
Contour Case Single Arm Operator 13.5",LH	132105-LZ135X	13.5"



(1) Nylon Glide Shoe

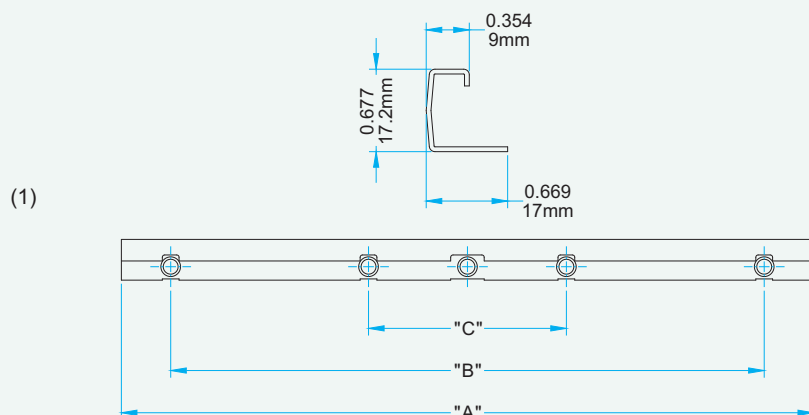


(2) SST Roller

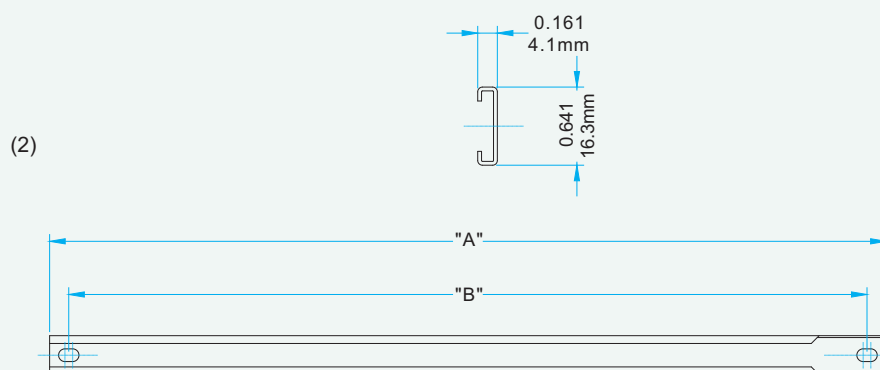
(1) This is default, in this case, no letter attached

(2) "X" =S Stands for SST Roller

Track


Single Arm Operator Track

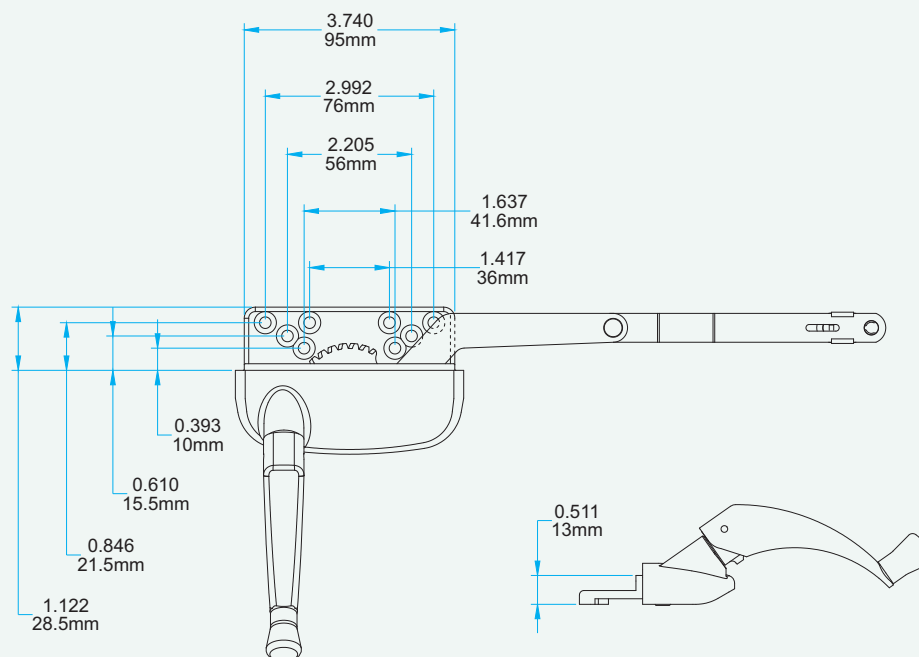
Part Number	"A"	"B"	"C"	Material
70039	8.874"	6.504"	N/A	SST
190039				Steel
70040	11.378"	9.756"	3.252"	SST
190040				Steel
70041	13.752"	12.374"	4.126"	SST
190041				Steel


Single Arm Operator Track 2 Holes

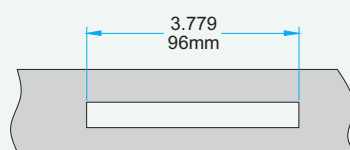
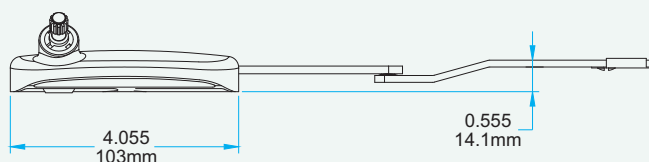
Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

CASEMENT OPERATORS

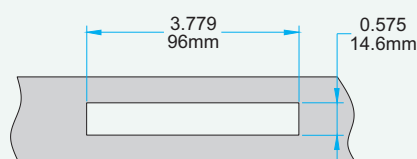
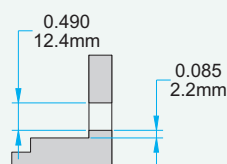
Contour Case Split Arm Operator



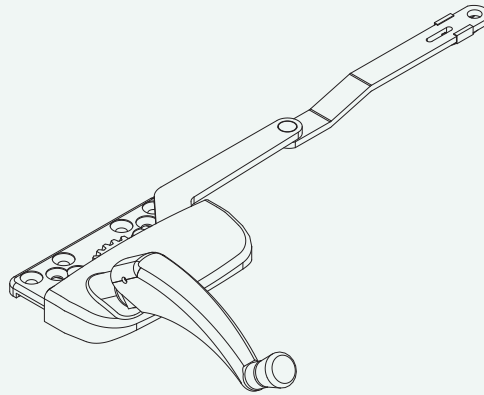
Left Hand Shown



Profile Cut Out (PVC Profile)

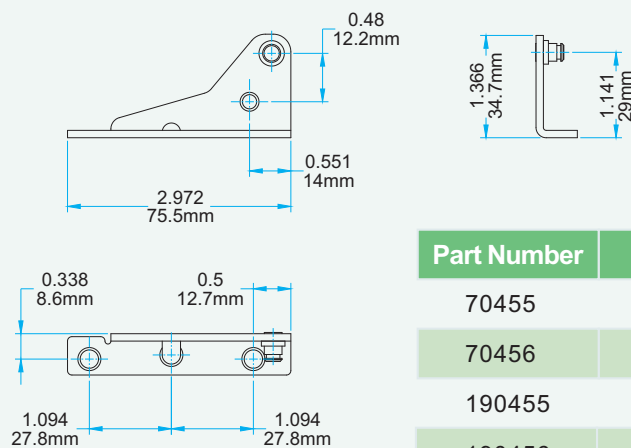


Profile Cut Out (Wood Profile)



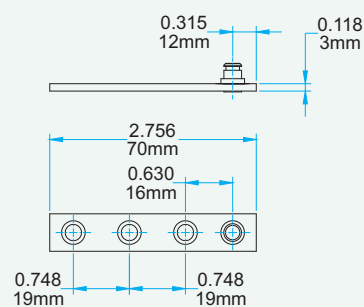
Product Name	Part Number
Contour Case Split Arm Operator,RH	132105-RQX
Contour Case Split Arm Operator,LH	132105-LQX

Stud Bracket (Right-Hand Shown)



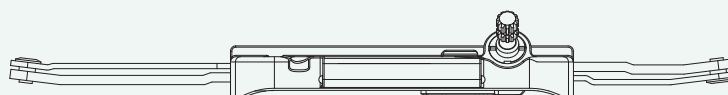
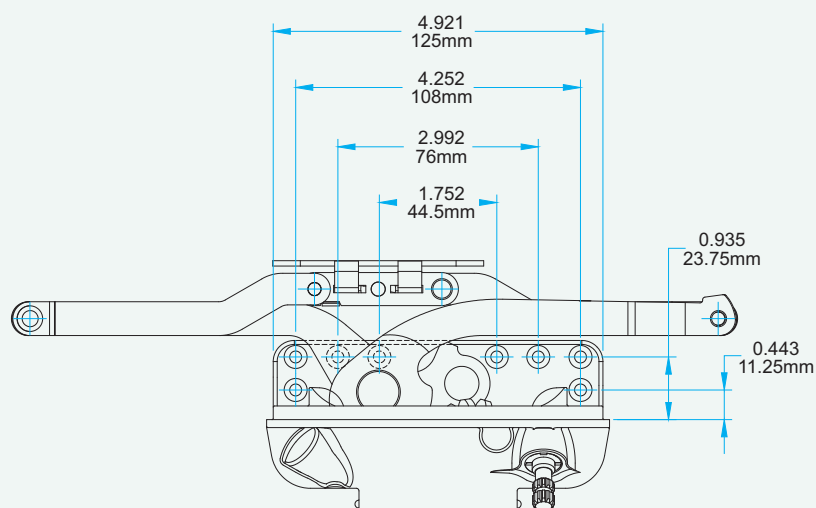
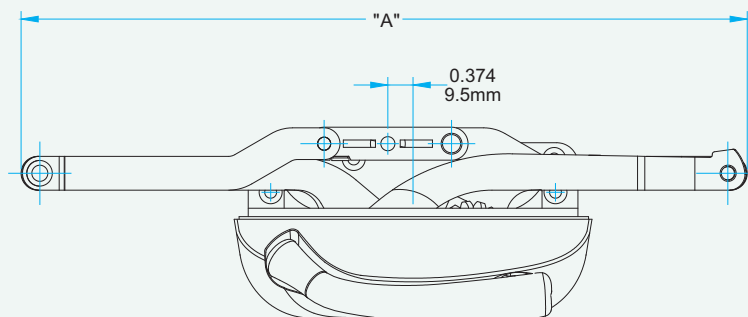
Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Stud Bracket 190447 (Non-Handed)



AWNING OPERATORS

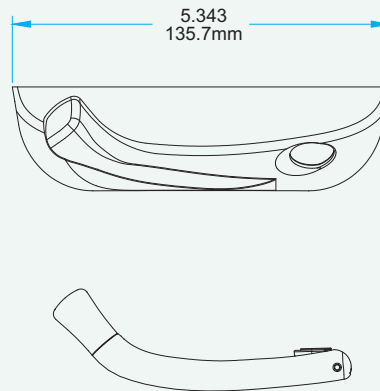
Decore Awning Operator



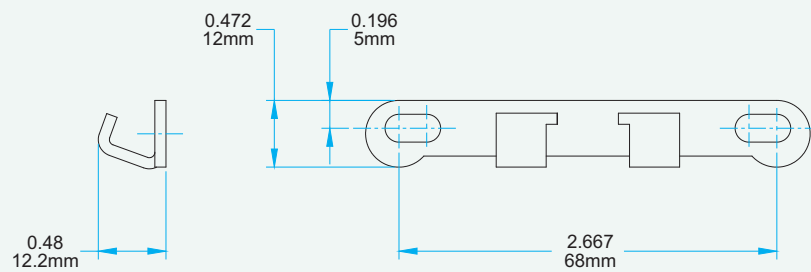
Product Name	Part Number	"A"
12"Decore Awning Operator	132635-XC12R1	12"
8"Decore Awning Operator	132635-XC08	8"



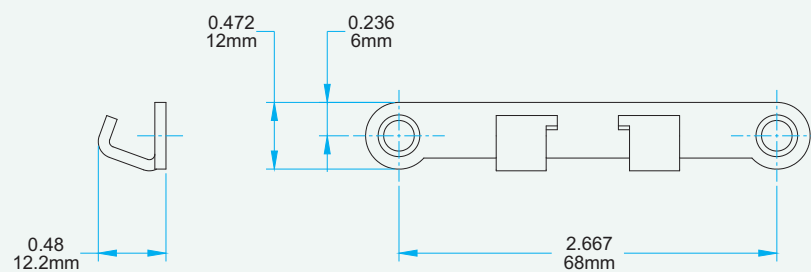
Cover and Crank 132066R1



Sash Hook 19080R1

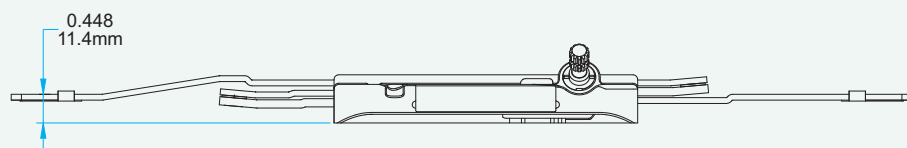
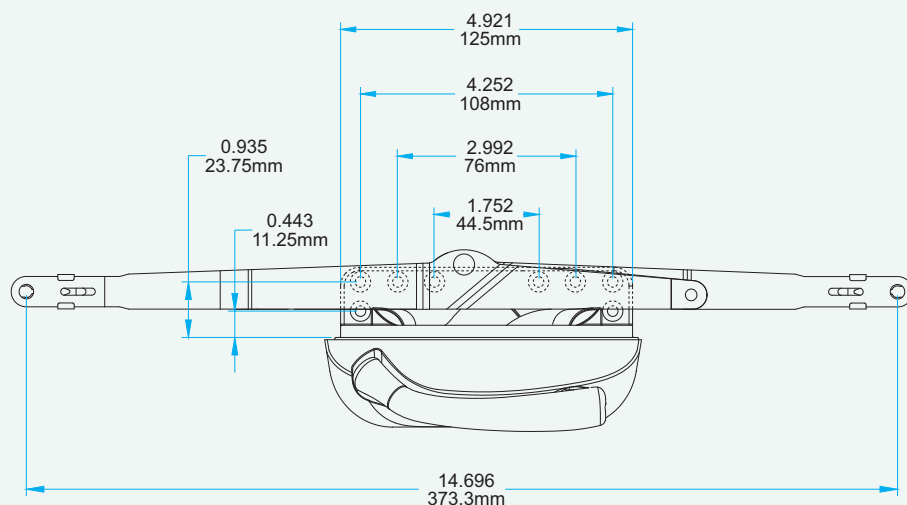


Sash Hook 19081R1



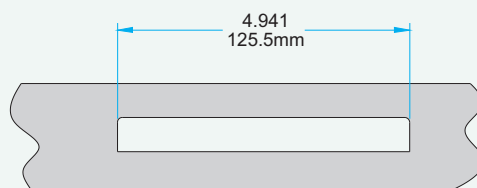
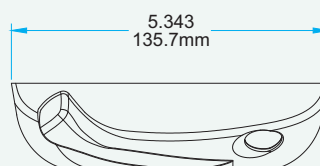
AWNING OPERATORS

Decore Scissor Awning Operator

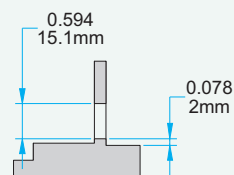


Cover and Crank

132066R1



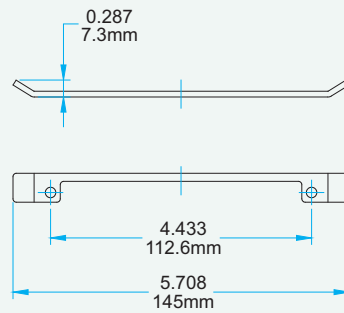
Profile Cut Out



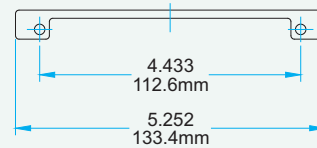
Product Name	Part Number
Decore Scissor Awning Operator, 15"	1322635-SC15

Back Plate

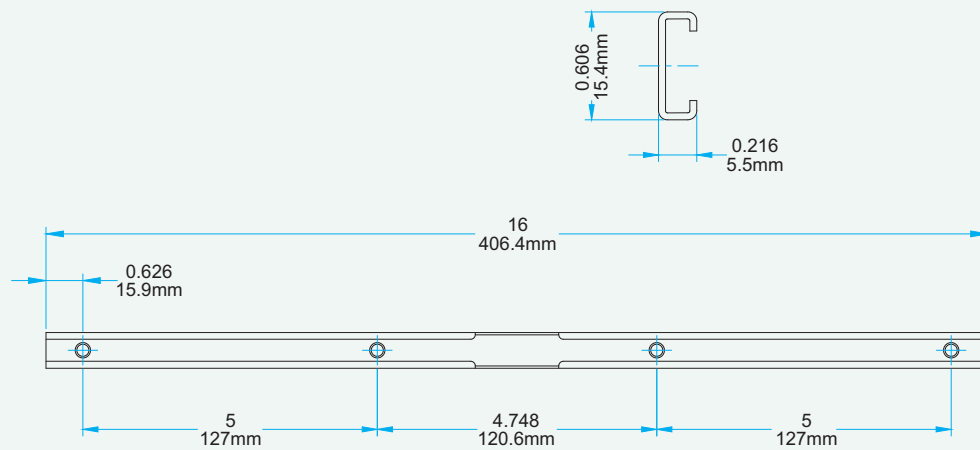
19026



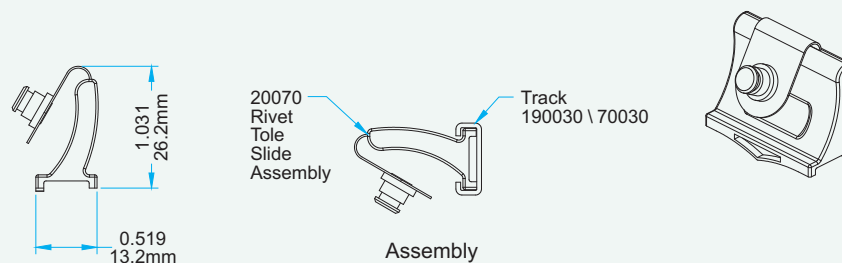
19027



Track 190030 \ 70030

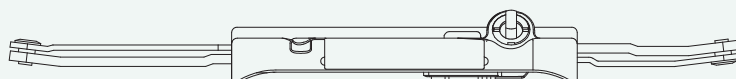
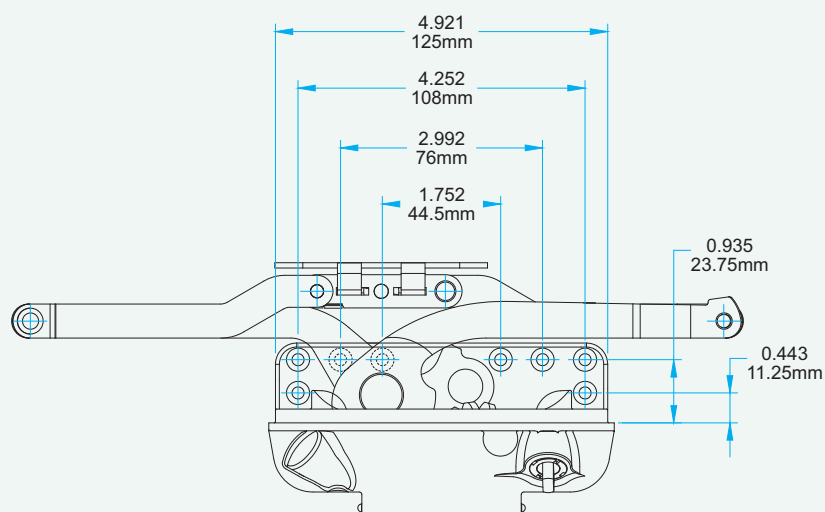
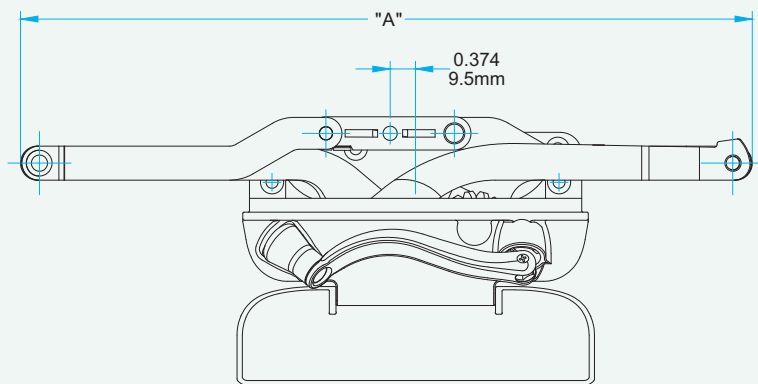


Slider Piece 20070

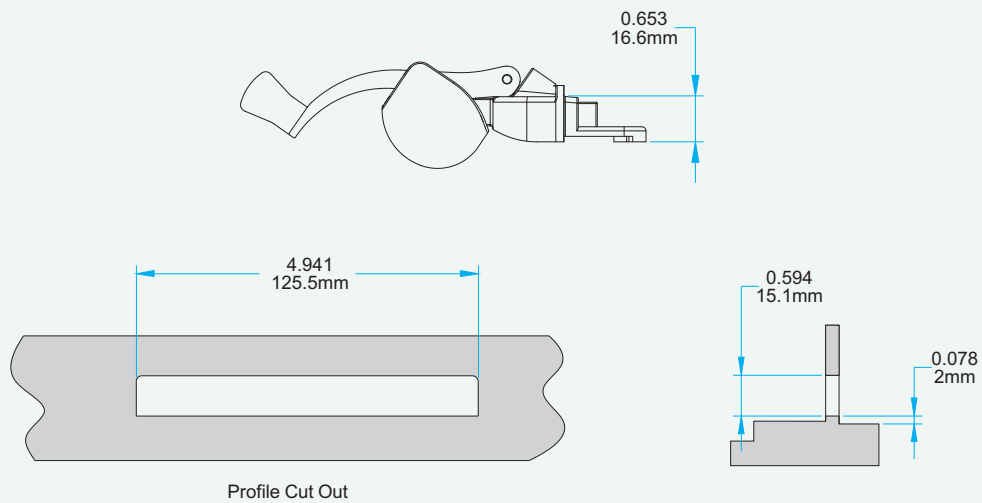


AWNING OPERATORS

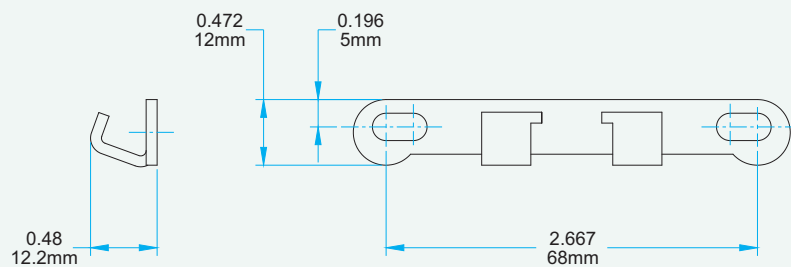
Eclipse Awning Operator



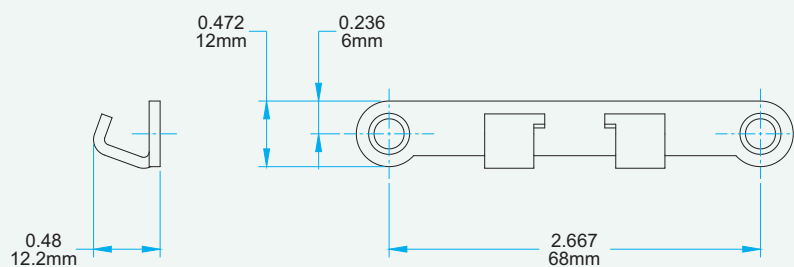
Product Name	Part Number	"A"
12"Eclipse Awning Operator	132630R1-XC12R1	12"
8"Eclipse Awning Operator	132630R1-XC08	8"



Sash Hook 19080R1

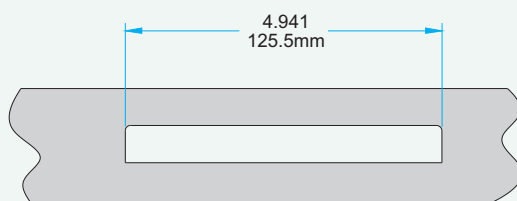
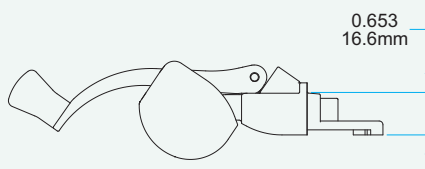
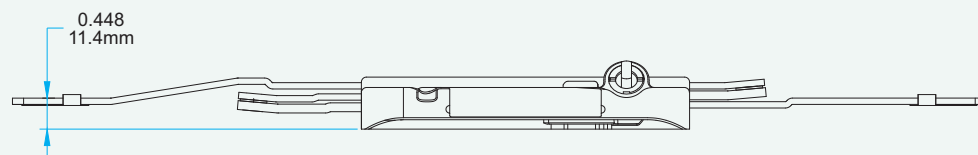
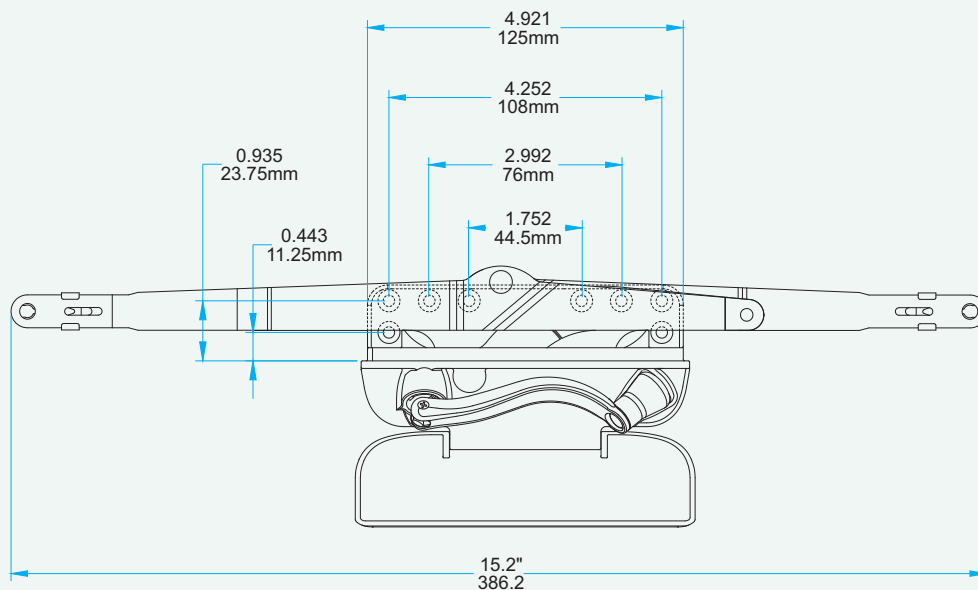


Sash Hook 19081R1

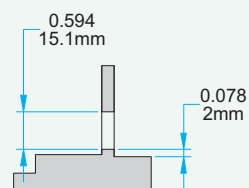


AWNING OPERATORS

Eclipse Scissor Awning Operator



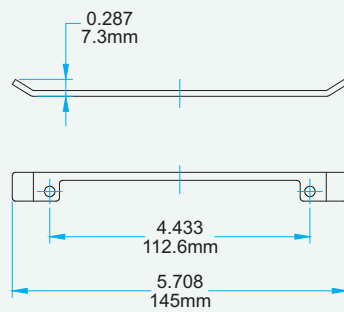
Profile Cut Out



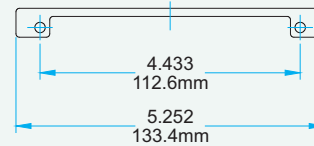
Product Name	Part Number
Eclipse Scissor Awning Operator, 15"	132630R1-SC15

Back Plate

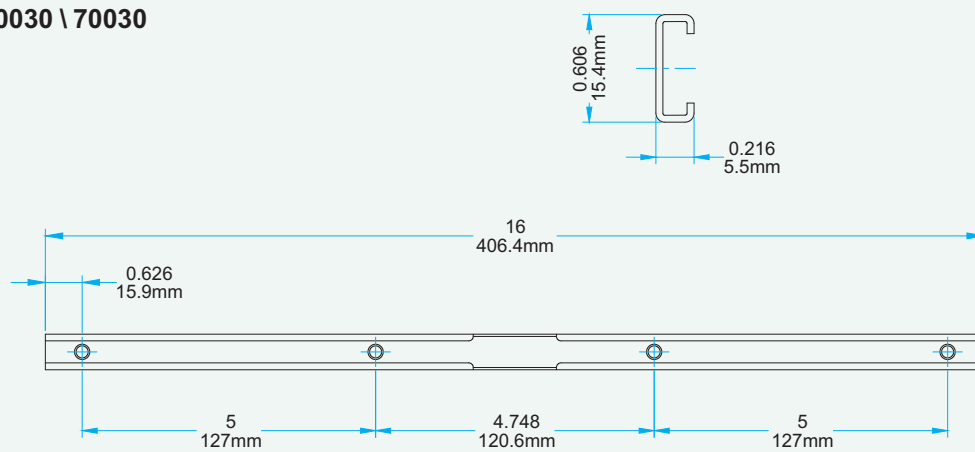
19026



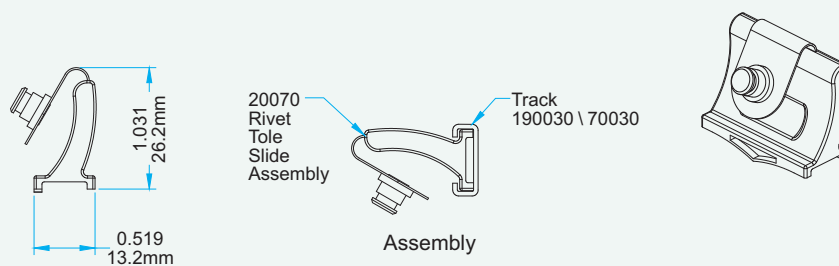
19027



Track 190030 \ 70030

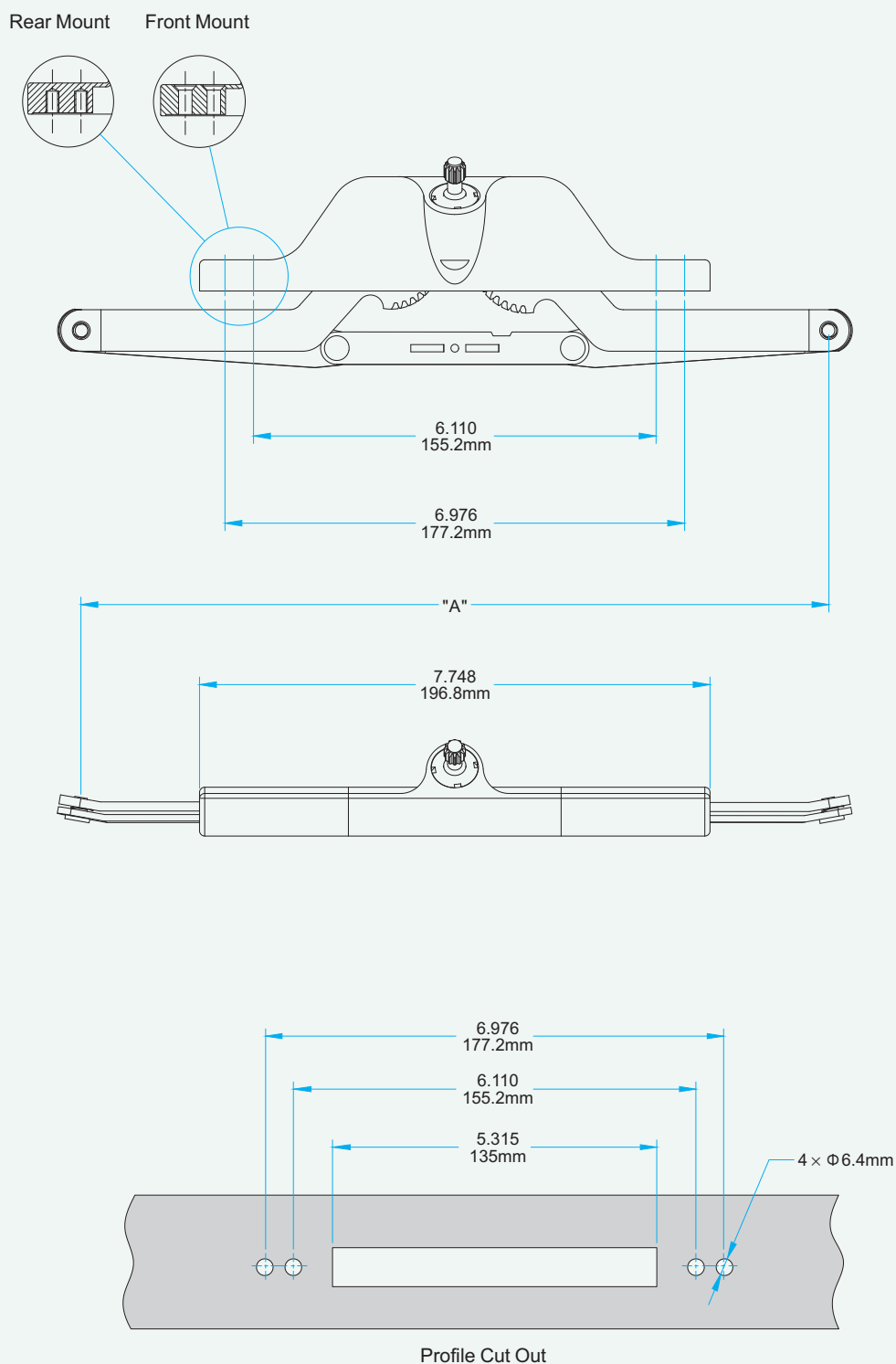


Slider Piece 20070



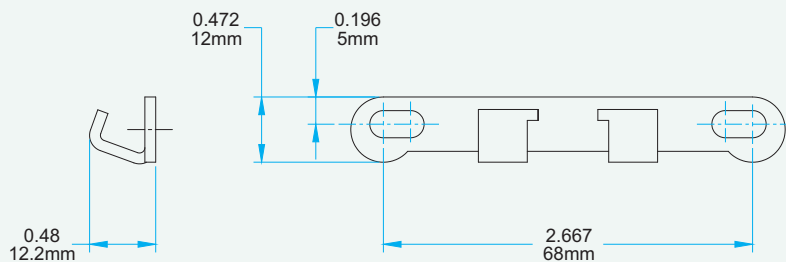
AWNING OPERATORS

Giant Case Awning Operator

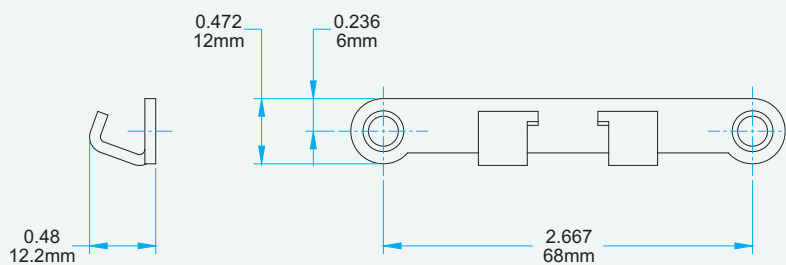


Product Name	Part Number	"A"
8"Giant Case Awning Operator	132128F-S8	8"
12"Giant Case Awning Operator	132128F-S12	12"
16"Giant Case Awning Operator	132128F-S16	16"
21"Giant Case Awning Operator	132128F-S21	21"
25"Giant Case Awning Operator	132128F-S25	25"
8"Giant Case Awning Operator	132128R-S8	8"
12"Giant Case Awning Operator	132128R-S12	12"
16"Giant Case Awning Operator	132128R-S16	16"
21"Giant Case Awning Operator	132128R-S21	21"
25"Giant Case Awning Operator	132128R-S25	25"

Sash Hook 19080R1

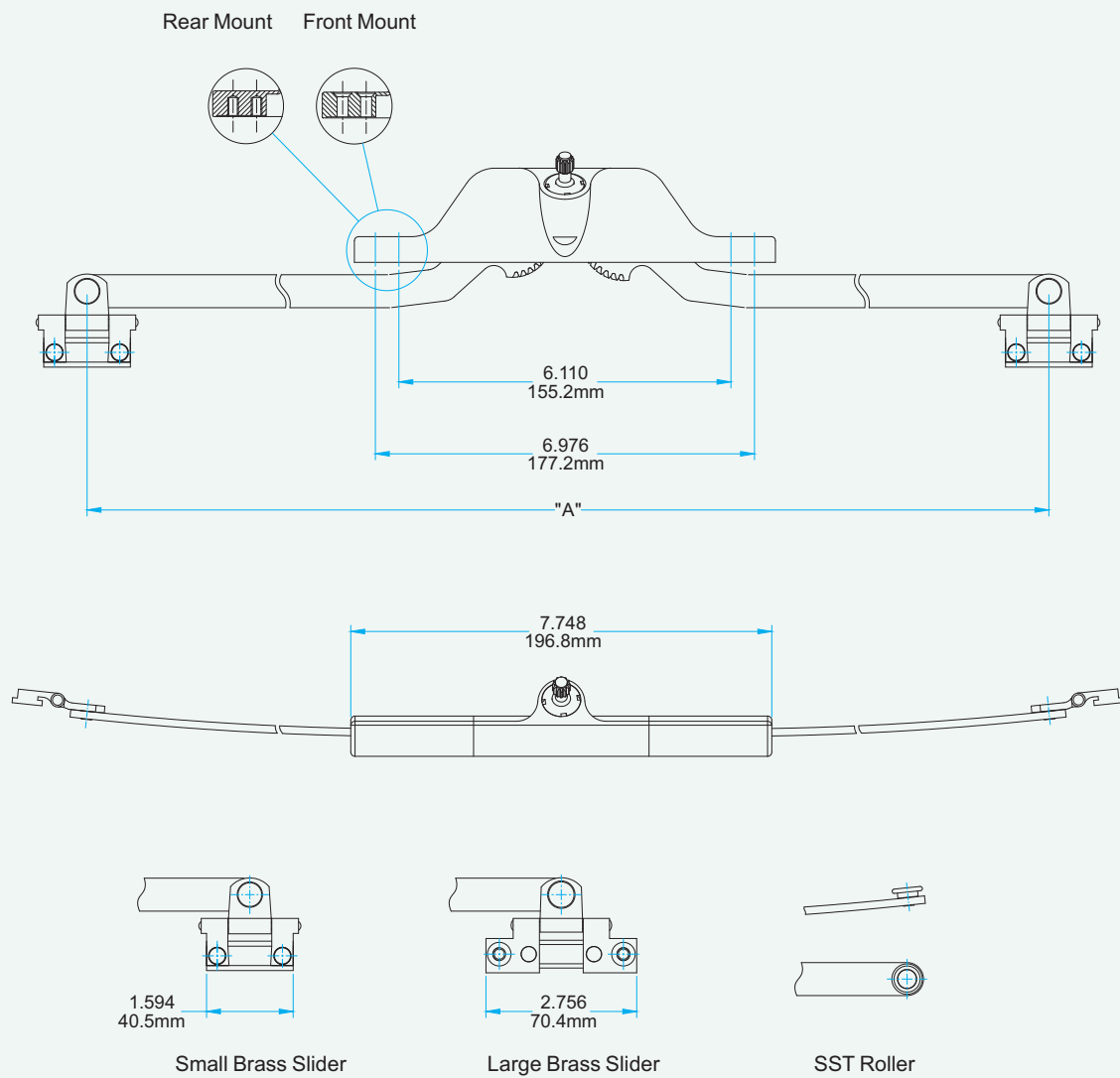


Sash Hook 19081R1

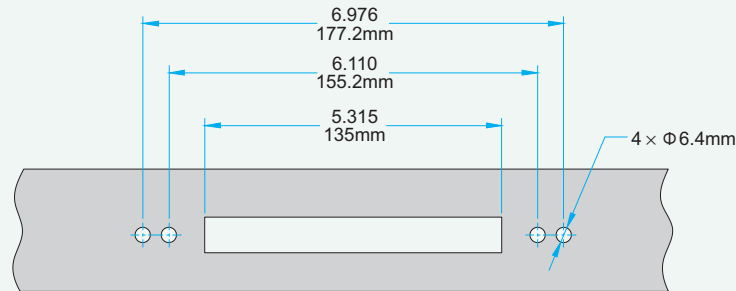


AWNING OPERATORS

Giant Case Awning Operator



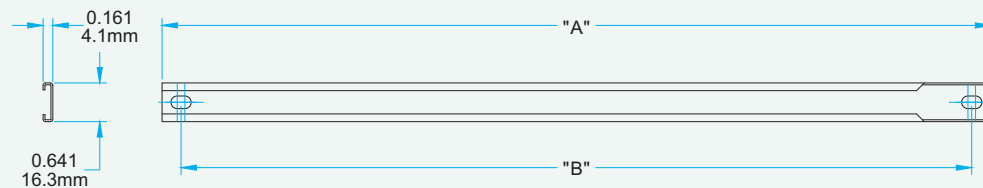
"X" = "B" Stands for Small Brass Slider
 "X" = "LB" Stands for Roller Large Brass Slider
 "X" = "S" Stands for SST Roller



Profile Cut Out

Product Name	Part Number	"A"
8"Giant Case Awning Operator	132128F-S8-X	8"
12"Giant Case Arwning Operator	132128F-S12-X	12"
16"Giant Case Awning Operator	132128F-S16-X	16"
21"Giant Case Awning Operator	132128F-S21-X	21"
21"Giant Case Awning Operator	132128F-S24-X	24"
25"Giant Case Awning Operator	132128F-S25-X	25"
8"Giant Case Awning Operator	132128R-S8-X	8"
12"Giant Case Awning Operator	132128R-S12-X	12"
16"Giant Case Awning Operator	132128R-S16-X	16"
21"Giant Case Awning Operator	132128R-S21-X	21"
21"Giant Case Awning Operator	132128F-S24-X	24"
25"Giant Case Awning Operator	132128R-S25-X	25"

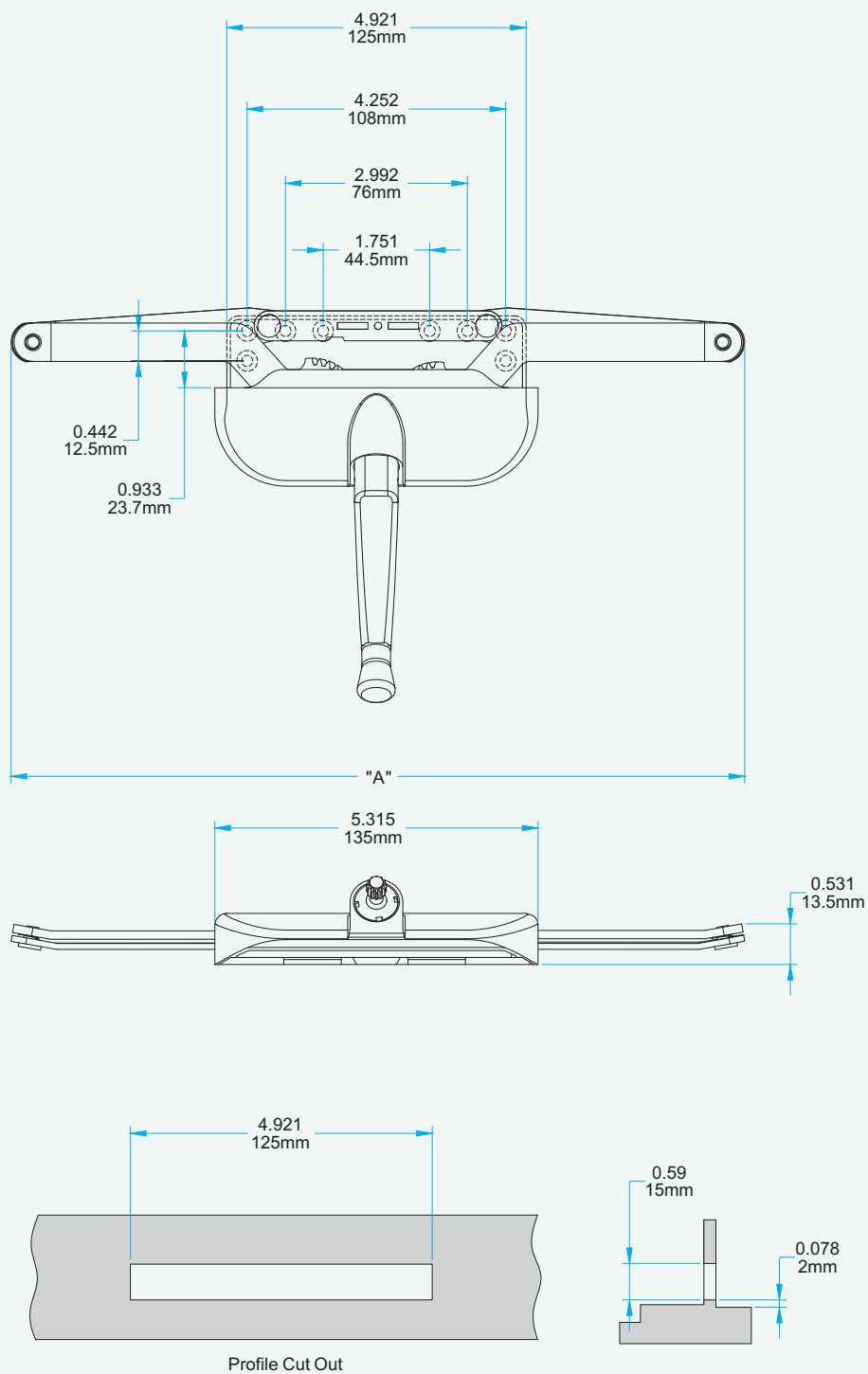
Track

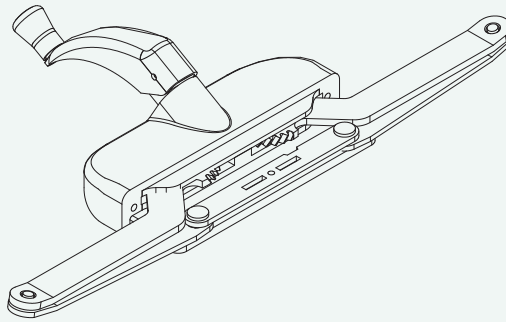


Single Arm Operator Track 2 Holes			
Part Number	"A"	"B"	Material
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

AWNING OPERATORS

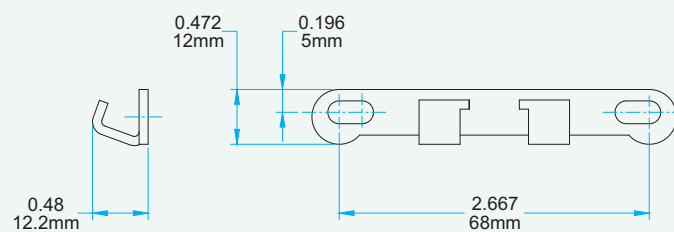
Grande Awning Operator



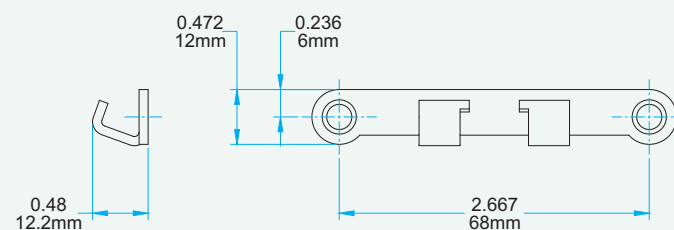


Product Name	Part Number	Overall Length "A"
8"Grande Case Awning Operator	132626-S8	8"
12"Grande Case Awning Operator	132626-S12	12"
16"Grande Case Awning Operator	132626-S16	16"
21"Grande Case Awning Operator	132626-S21	21"
25"Grande Case Awning Operator	132626-S25	25"

Sash Hook 19080R1

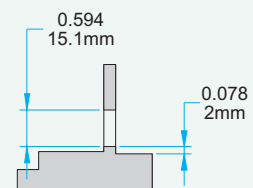
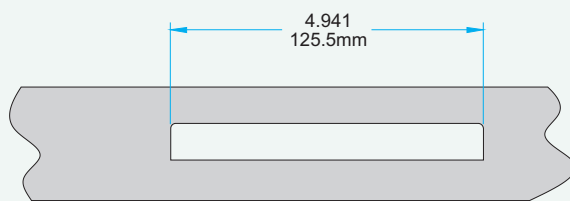
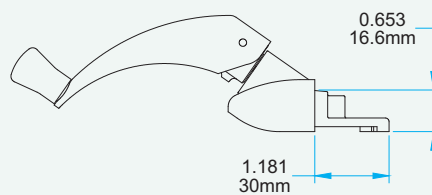
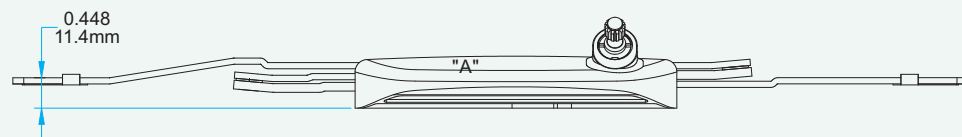
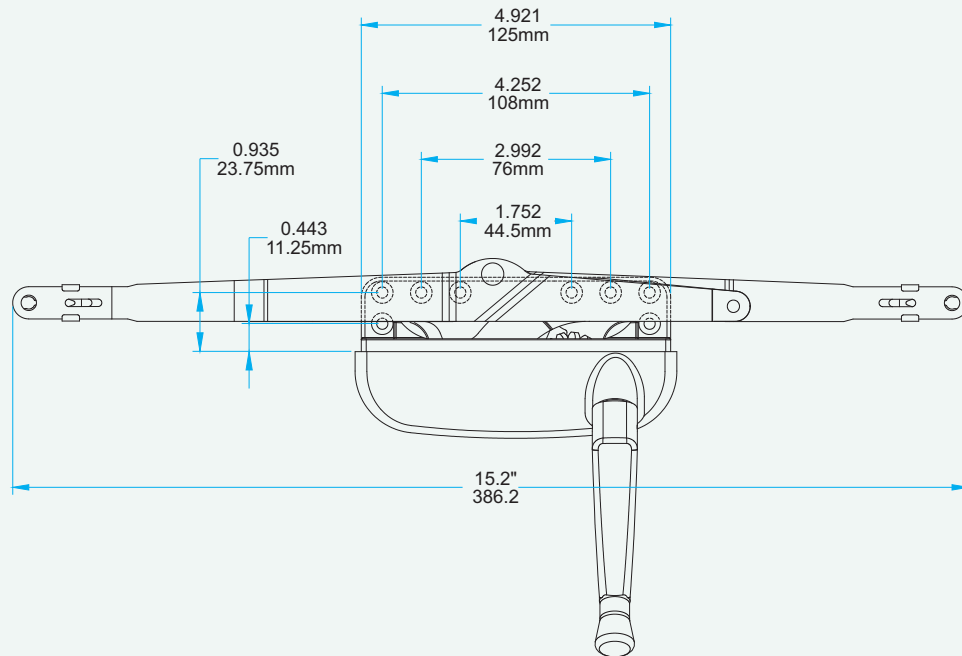


Sash Hook 19081R1



AWNING OPERATORS

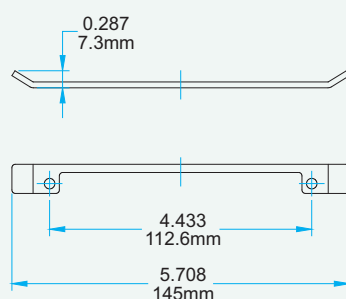
Grande Scissor Awning Operator



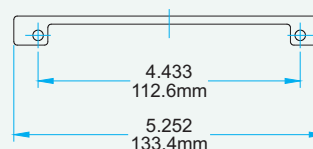
Product Name	Part Number
Grande Scissor Awning Operator, 15"	132626-SC15

Back Plate

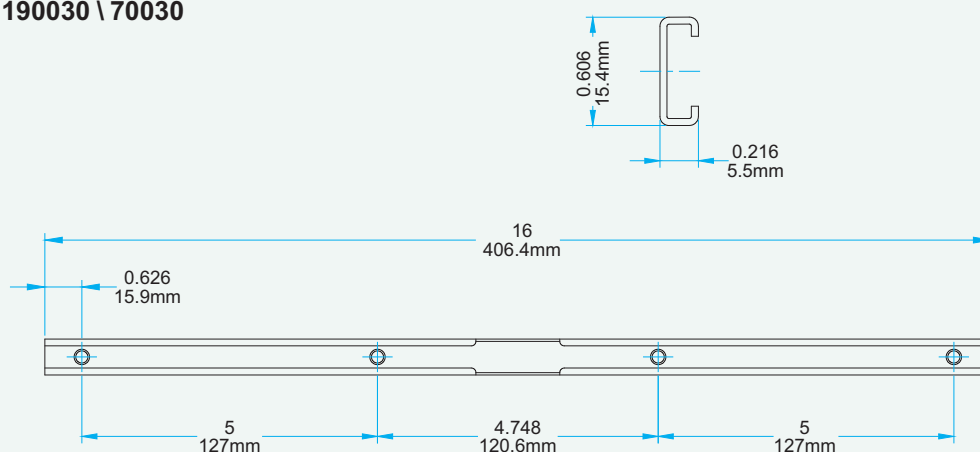
19026



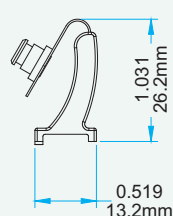
19027



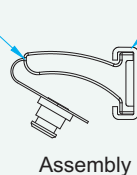
Track 190030 \ 70030



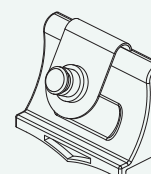
Slider Piece 20070



20070
Rivet
Tole
Slide
Assembly

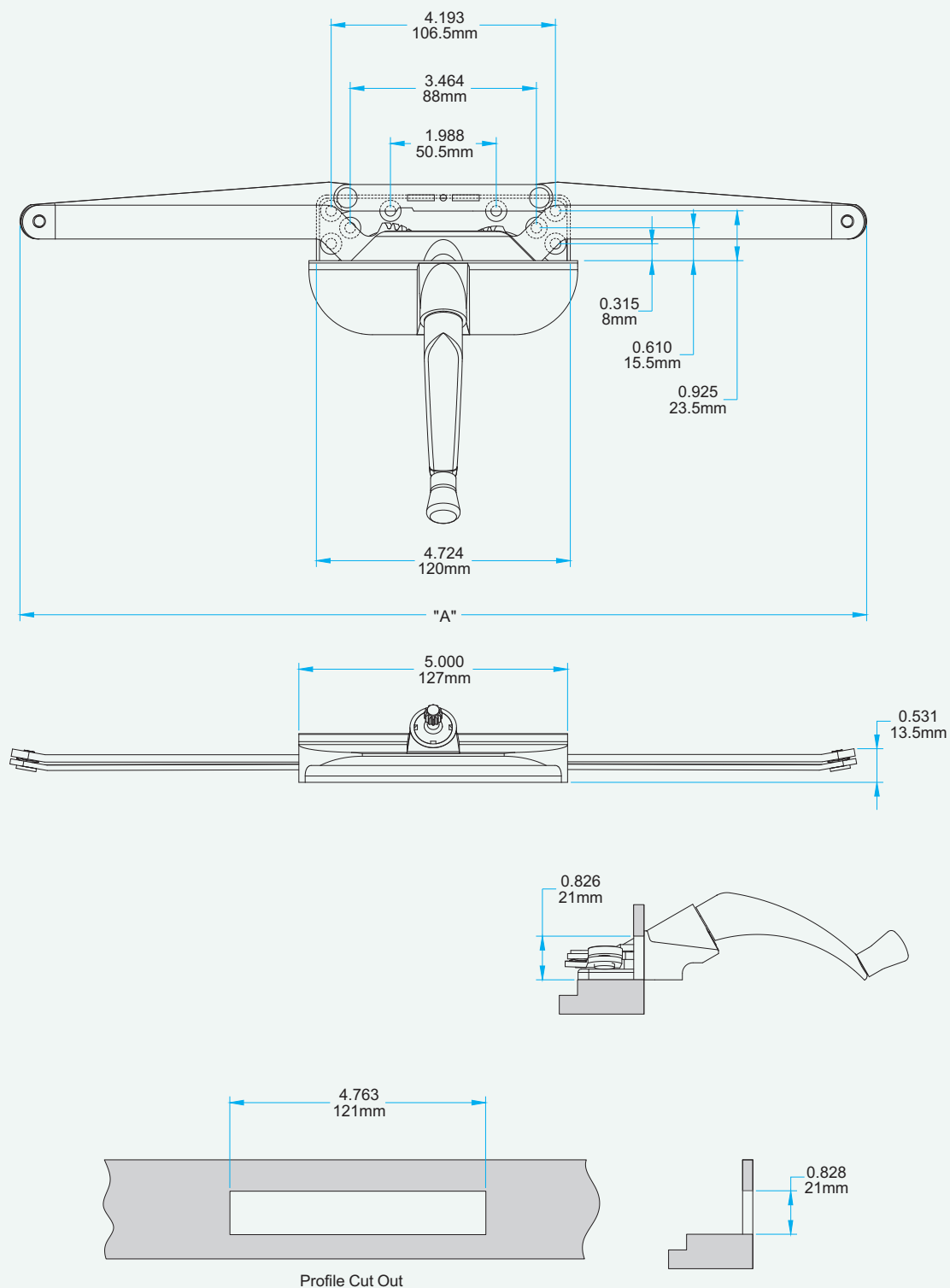


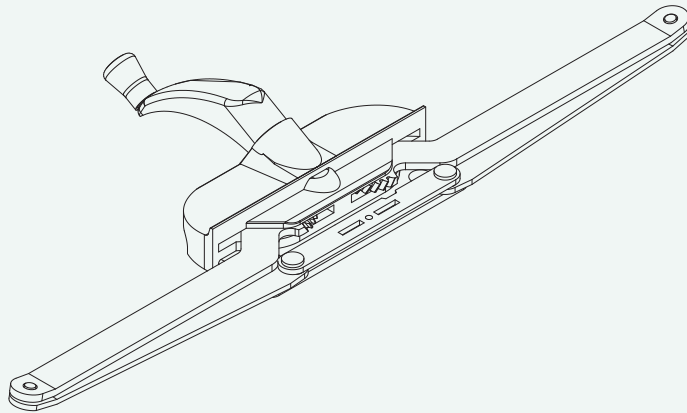
Track
190030 \ 70030



AWNING OPERATORS

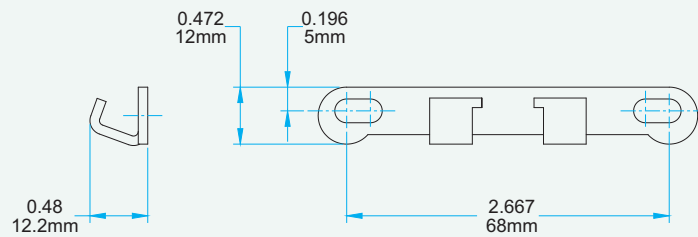
Traditional Awning Operator



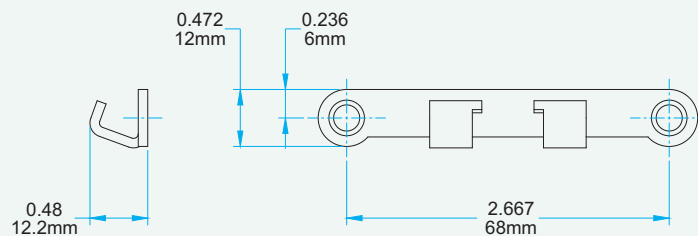


Product Name	Part Number	Overall Length "A"
8"Traditional Awning Operator	132627-S8	8"
12"Traditional Awning Operator	132627-S12	12"
16"Traditional Awning Operator	132627-S16	16"
21"Traditional Awning Operator	132627-S21	21"
25"Traditional Awning Operator	132627-S25	25"

Sash Hook 19080R1

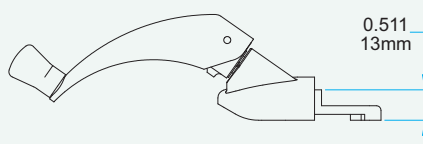
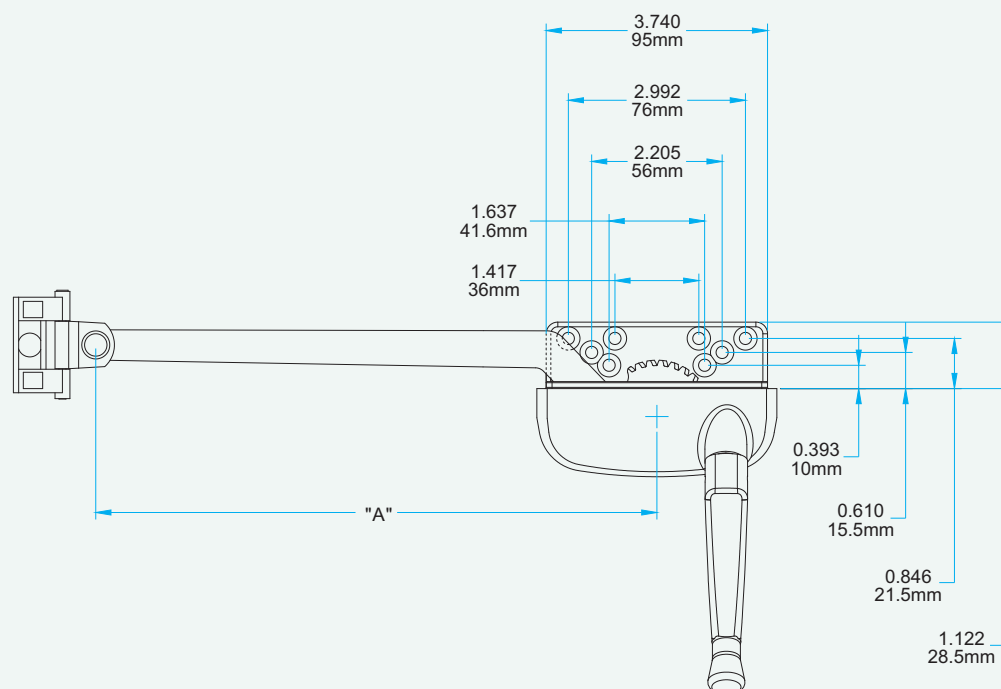


Sash Hook 19081R1

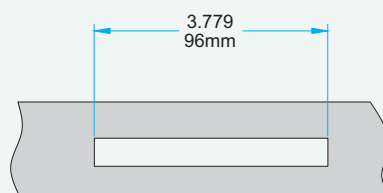
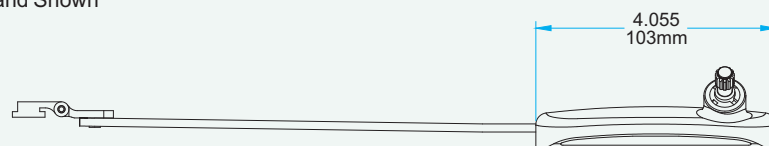


AWNING OPERATORS

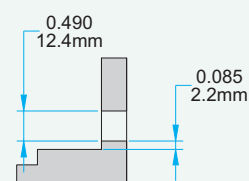
Contour Case Single Arm Awning Operator

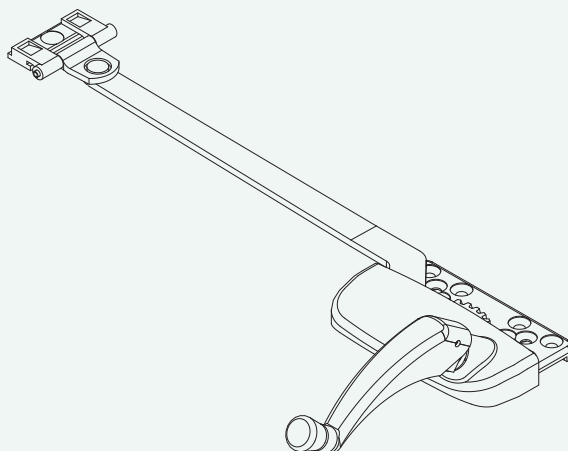


Left Hand Shown



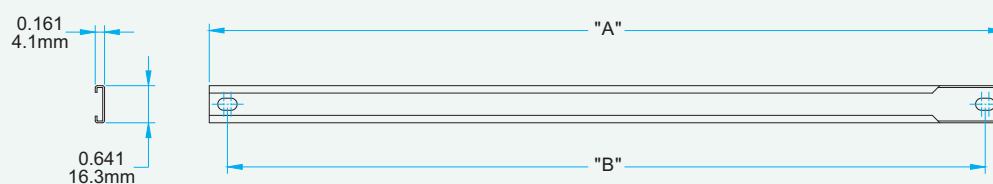
Profile Cut Out





Product Name	Part Number	"A"
Contour Case Single Arm Awning Operator 7.5", RH	132105-RZ75A	7.5"
Contour Case Single Arm Awning Operator 7.5", LH	132105-LZ75A	7.5"
Contour Case Single Arm Awning Operator 9.5", RH	132105-RZ95A	9.5"
Contour Case Single Arm Awning Operator 9.5", LH	132105-LZ95A	9.5"
Contour Case Single Arm Awning Operator 13.5", RH	132105-RZ135A	13.5"
Contour Case Single Arm Awning Operator 13.5", LH	132105-LZ135A	13.5"

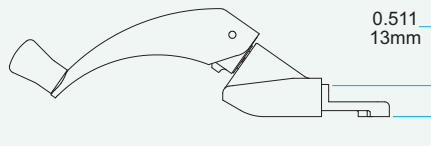
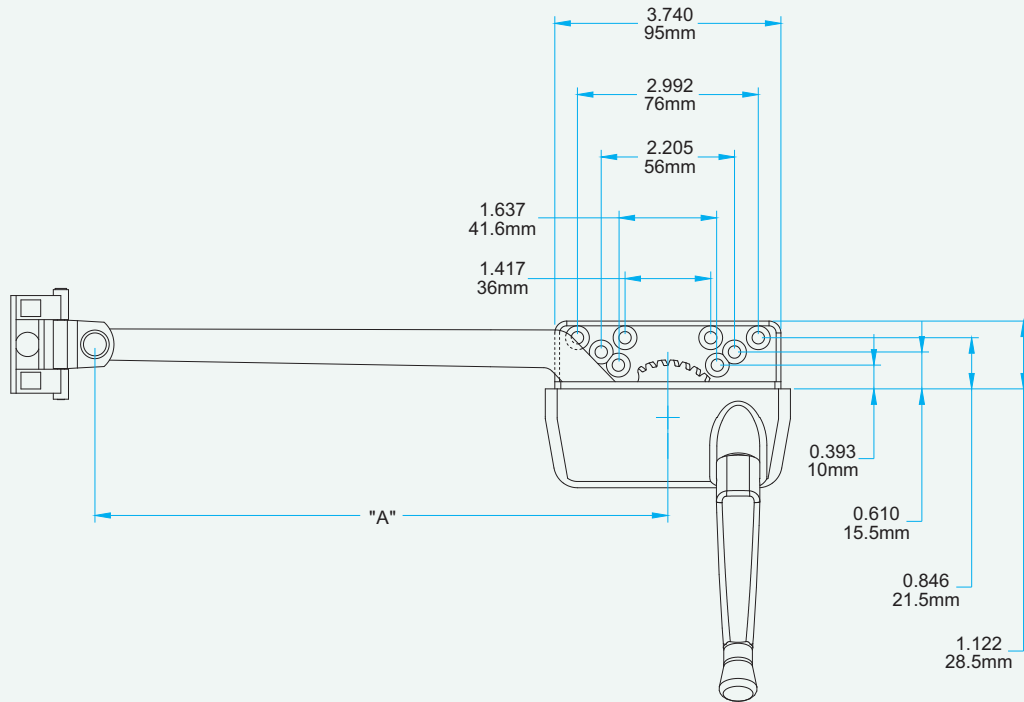
Single Arm Operator Track



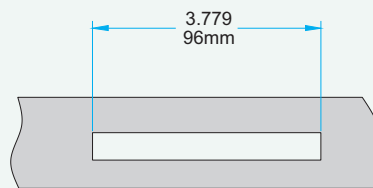
Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

AWNING OPERATORS

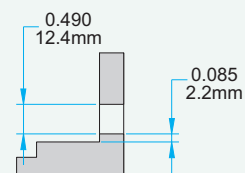
Traditional Single Arm Awning Operator

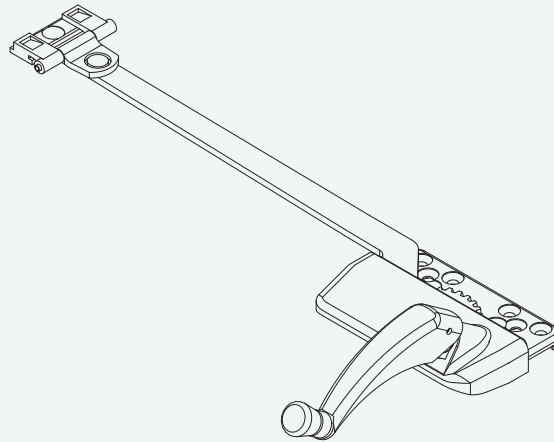


Left Hand Shown



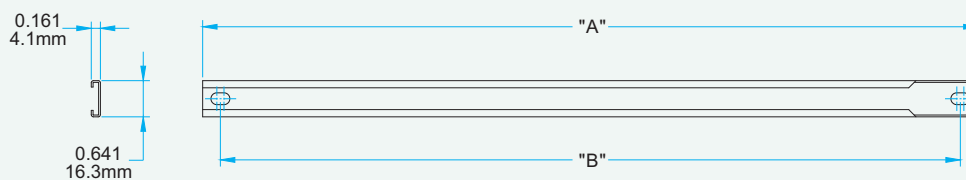
Profile Cut Out





Product Name	Part Number	"A"
Traditional Case Single Arm Awning Operator 7.5", RH	132104-RZ75A	7.5"
Traditional Case Single Arm Awning Operator 7.5", LH	132104-LZ75A	7.5"
Traditional Case Single Arm Awning Operator 9.5", RH	132104-RZ95A	9.5"
Traditional Case Single Arm Awning Operator 9.5", LH	132104-LZ95A	9.5"
Traditional Case Single Arm Awning Operator 13.5", RH	132104-RZ135A	13.5"
Traditional Case Single Arm Awning Operator 13.5", LH	132104-LZ135A	13.5"

Single Arm Operator Track

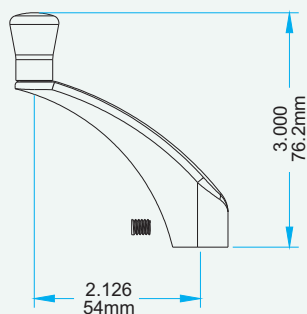


Part Number	"A"	"B"	Material
70054	9.5"	8.87"	SST
70055	13.75"	13.12"	SST
70056	17.795"	17.165"	SST

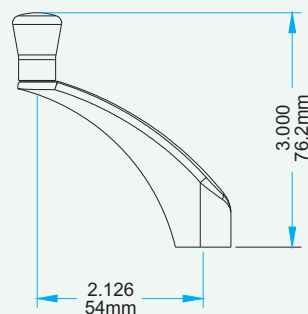
ACCESSORIES FOR OPERATORS

Crank Handle

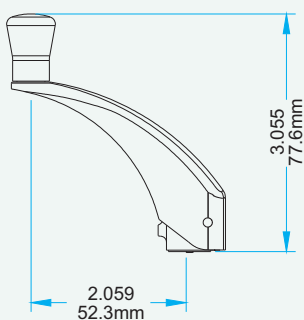
Contour Crank 132057



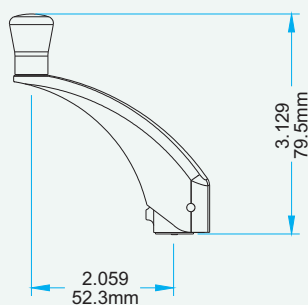
Contour Crank 132059



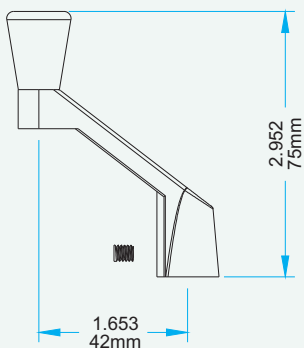
Folding Down Crank 132062



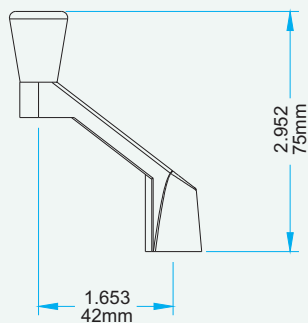
Folding Down Crank 132063



Contour Crank 138058

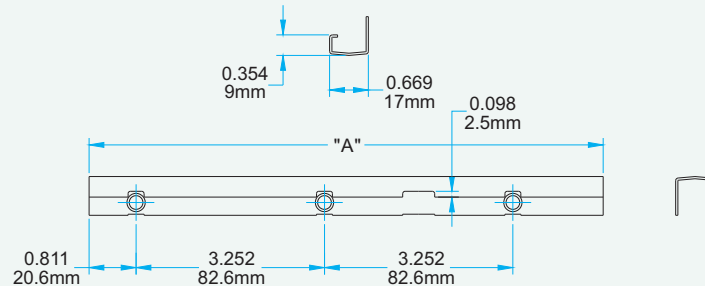


Contour Crank 138059

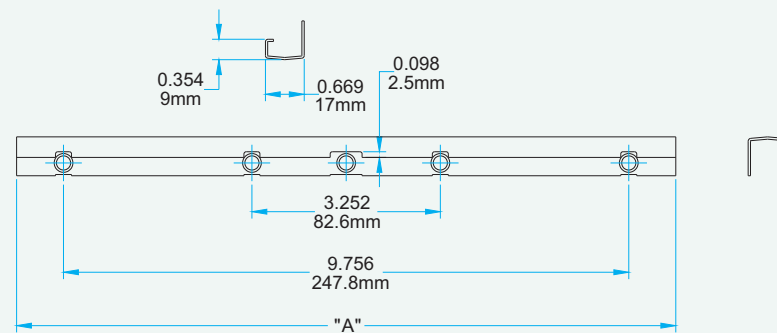




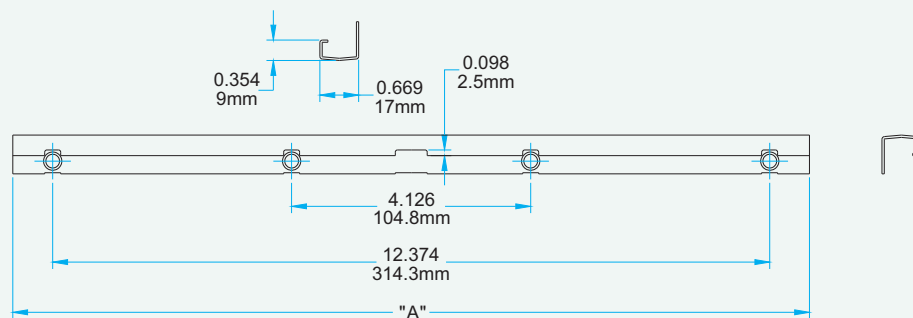
Operator Tracks



Single Arm Operator Track 3 Holes		
Part Number	"A"	Material
70039	8.874"	SST
190039	8.874"	Steel



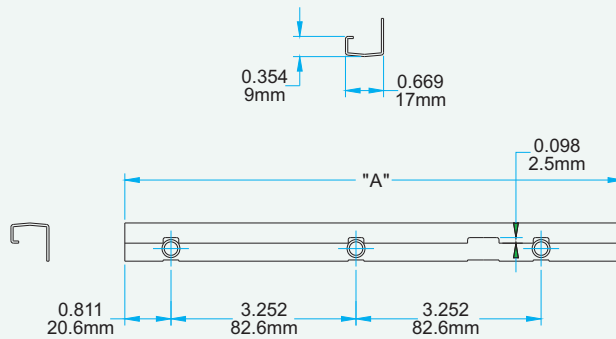
Single Arm Operator Track 5 Holes		
Part Number	"A"	Material
70040	11.378"	SST
190040	11.378"	Steel



Single Arm Operator Track 4 Holes		
Part Number	"A"	Material
70041	13.752"	SST
190041	13.752"	Steel

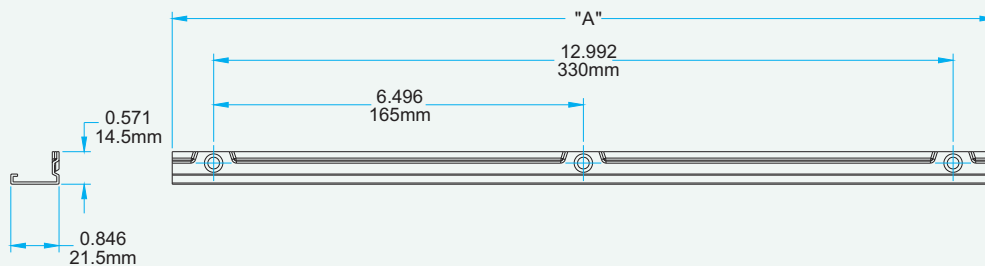
ACCESSORIES FOR OPERATORS

Operator Tracks



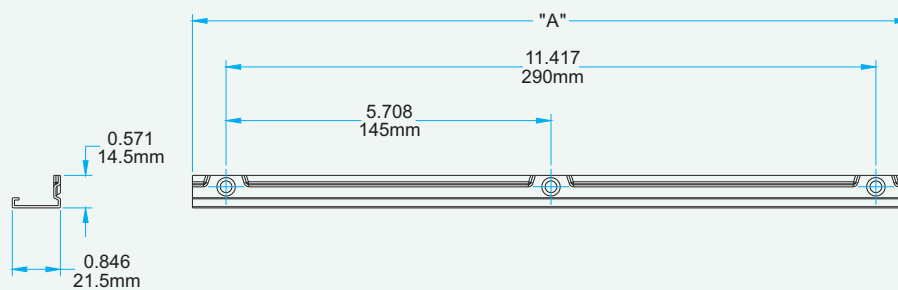
Single Arm Operator Track 3 Holes

Part Number	"A"	Material
70042	8.748"	SST
190042	8.748"	Steel



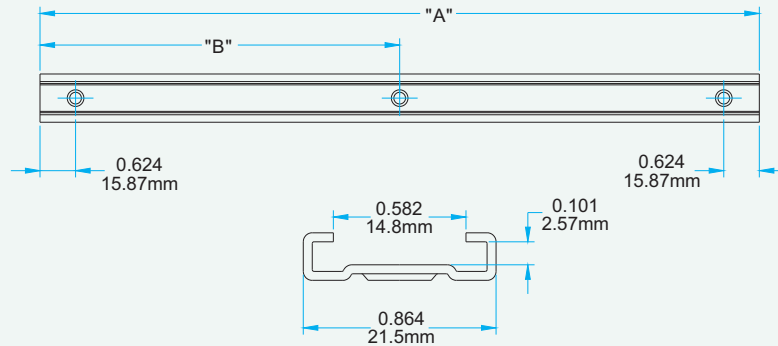
Dual Arm Operator Track 3 Holes

Part Number	"A"	Material
70051R1	14.449"	SST
190051R1	14.449"	Steel

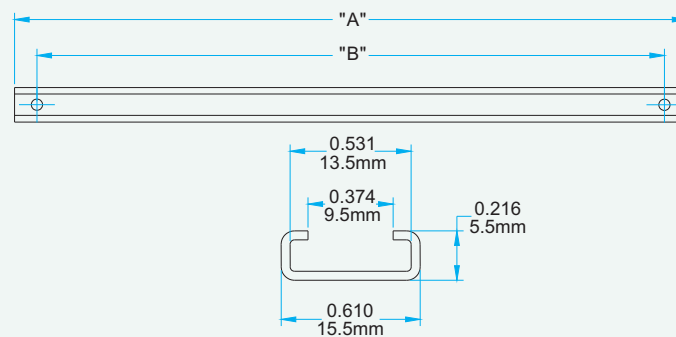


Dual Arm Operator Track 3 Holes

Part Number	"A"	Material
70052R1	12.598"	SST
1900512R1	12.598"	Steel



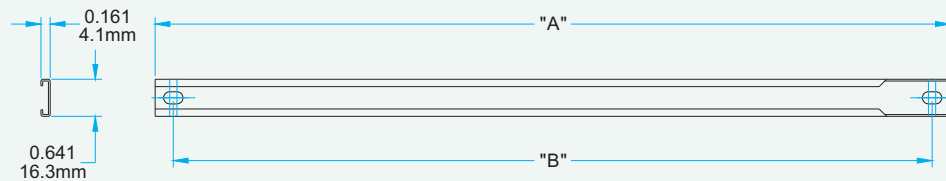
Dual Arm Operator Track 3 Holes			
Part Number	"A"	"B"	Material
70061	12.637"	6.319"	SST
70062	14.448"	7.224"	SST
70063	15.374"	7.689"	SST



Single Arm Operator Track 2 Holes			
Part Number	"A"	"B"	Material
70300	11.811"	11.023"	SST
70350	13.779"	12.992"	SST
70400	15.748"	14.960"	SST

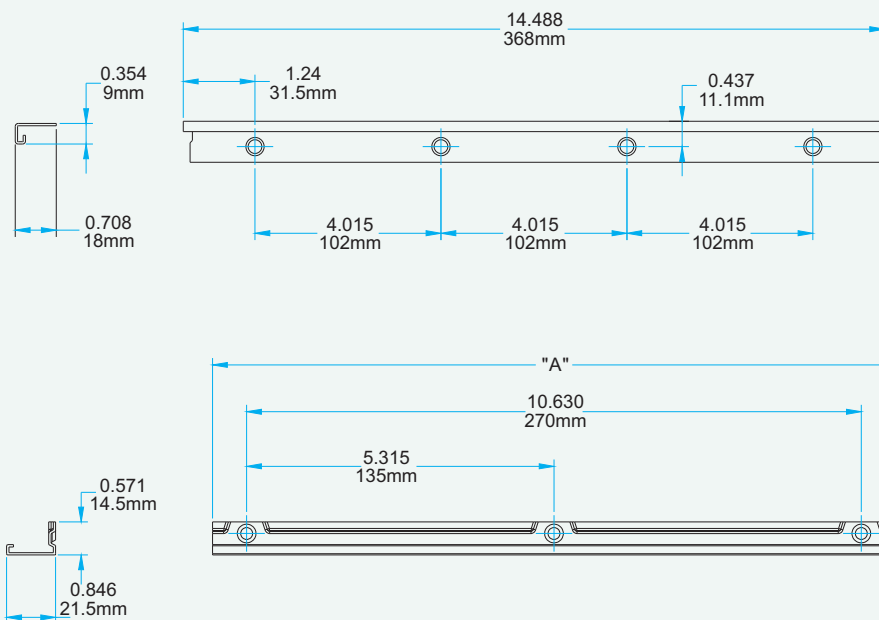
ACCESSORIES FOR OPERATORS

Operator Tracks

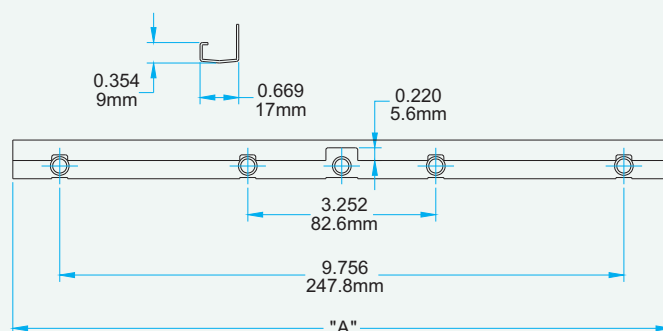


Single Arm Operator Track 2 Holes			
Part Number	"A"	"B"	Material
70055	13.543"	13.12"	SST
70056	7.795"	17.165"	SST
70064	9.126"	8.5"	SST
70065	11.626"	11.0"	SST
70054	9.5"	8.87"	SST

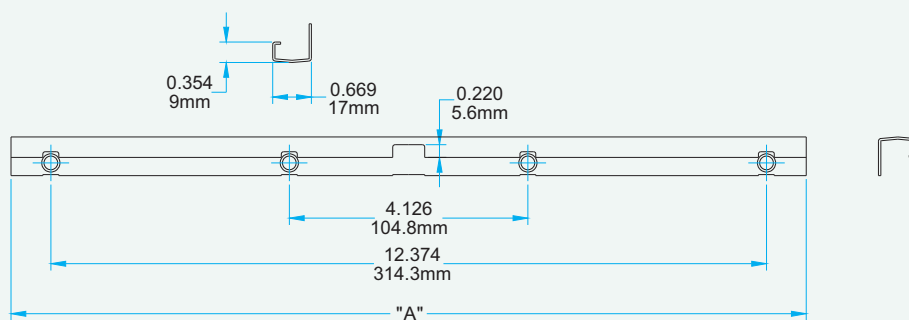
Dual Arm Operator (Low Profile) Track 190056



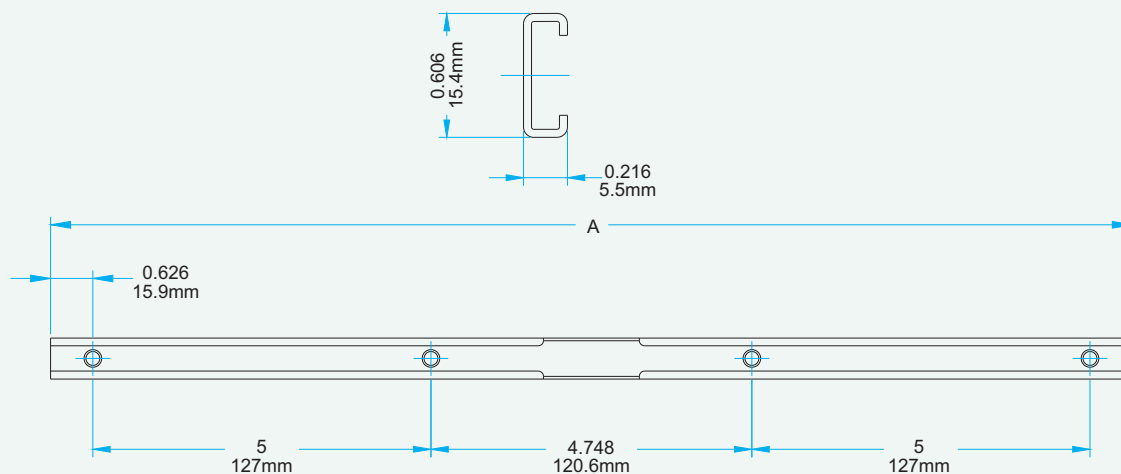
Dual Arm Operator Track 3 Holes		
Part Number	"A"	Material
70053R1	11.811"	SST
190053R1	11.811"	Steel


Single Arm Operator Track 5 Holes

Part Number	"A"	Material
70040-A	11.378"	SST
190040-A	11.378"	Steel


Single Arm Operator Track 4 Holes

Part Number	"A"	Material
70041-A	13.752"	SST
190041-A	13.752"	Steel


Arming Operator Track 4 Holes

Part Number	"A"	Material
70030	16"	SST
190030	16"	Steel

ACCESSORIES FOR OPERATORS

Stud Bracket

Stud Bracket

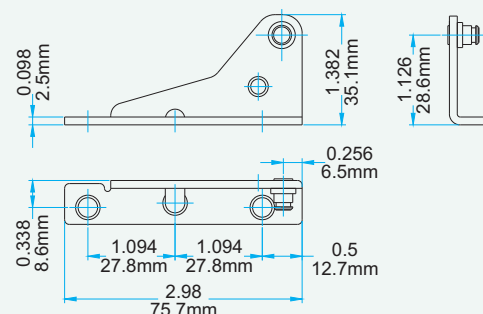
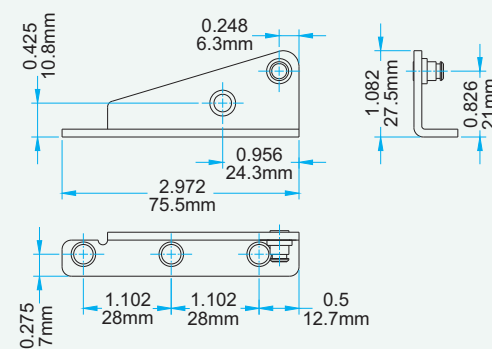
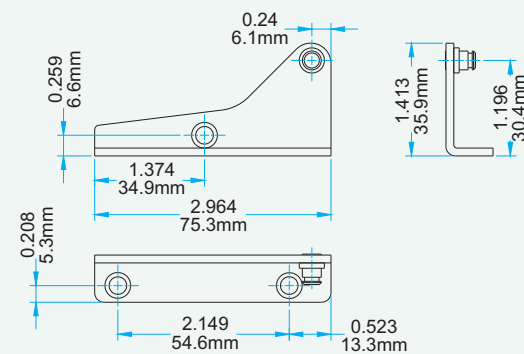
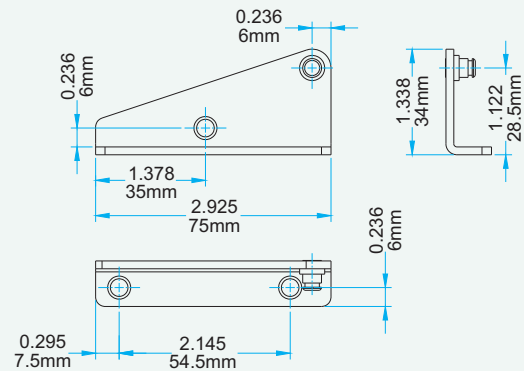
Part Number	Material	Hand
7041	SST	RH
7042	SST	LH
19041	Steel	RH
19042	Steel	LH

Part Number	Material	Hand
7063	SST	RH
7064	SST	LH
19063	Steel	RH
19064	Steel	LH

Part Number	Material	Hand
70440	SST	RH
70441	SST	LH
190440	Steel	RH
190441	Steel	LH

Part Number	Material	Hand
70455	SST	RH
70456	SST	LH
190455	Steel	RH
190456	Steel	LH

Note: Right Hand Shown (Left Hand Opposite)





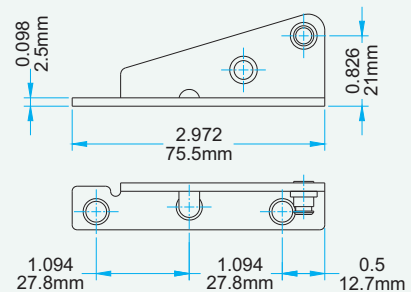
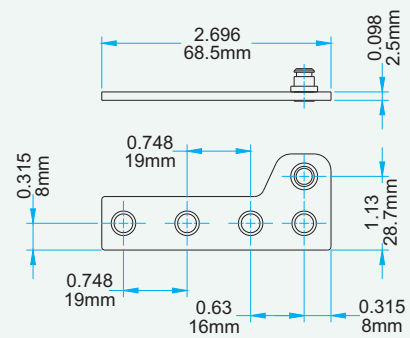
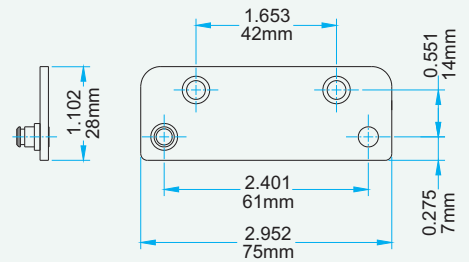
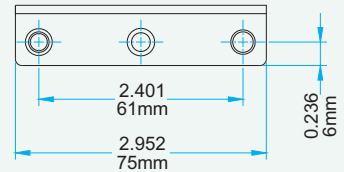
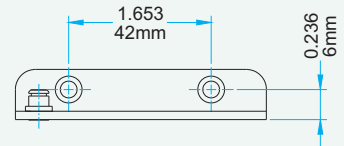
Part Number	Material	Hand
19039	Steel	RH
19040	Steel	LH

Part Number	Material	Hand
19043-R	Steel	RH
19043-L	Steel	LH

Part Number	Material	Hand
190463	Steel	RH
190464	Steel	LH

Part Number	Material	Hand
190461	Steel	LH
190462	Steel	RH

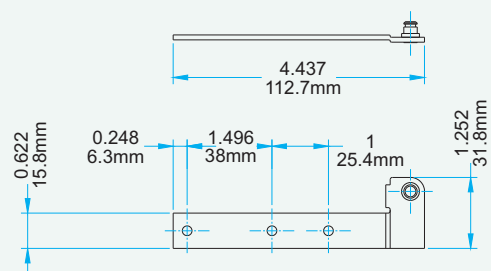
Note: Right Hand Shown (Left Hand Opposite)



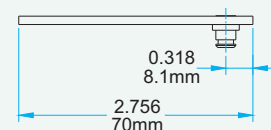
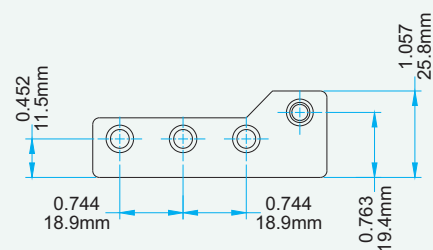
ACCESSORIES FOR OPERATORS

Stud Bracket

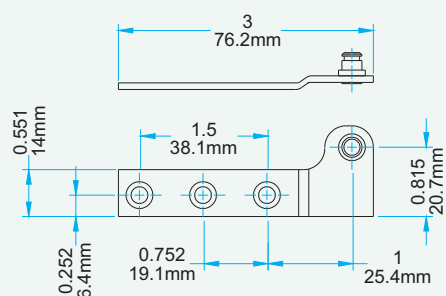
Part Number	Material	Hand
190444	Steel	LH
190445	Steel	RH



Part Number	Material	Hand
70499	SST	LH
70450	SST	RH
190449	Steel	LH
190450	Steel	RH

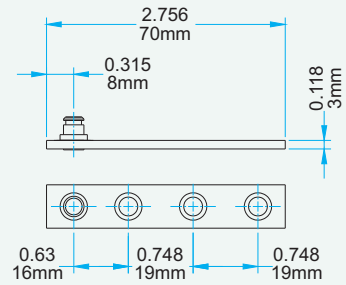


Part Number	Material	Hand
190457	Steel	RH
190458	Steel	LH

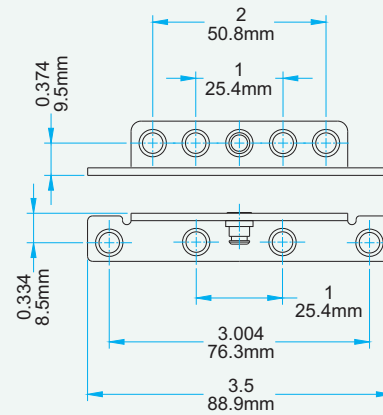


Note: Right Hand Shown (Left Hand Opposite)

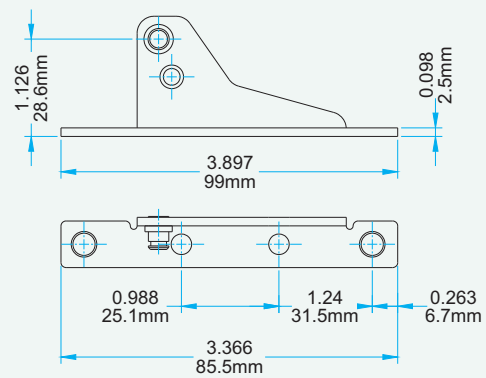
Part Number	Material	Hand
190447	Steel	Non



Part Number	Material	Hand
19048	Steel	Non

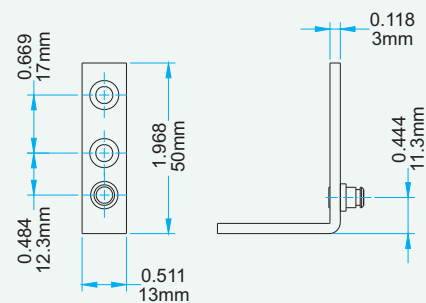


Part Number	Material	Hand
190451	Steel	Non



Part Number	Material	Hand
190448	Steel	Non

Note: Non Hand

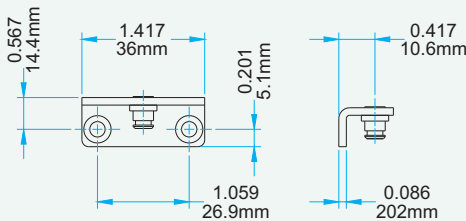


ACCESSORIES FOR OPERATORS

Stud Bracket

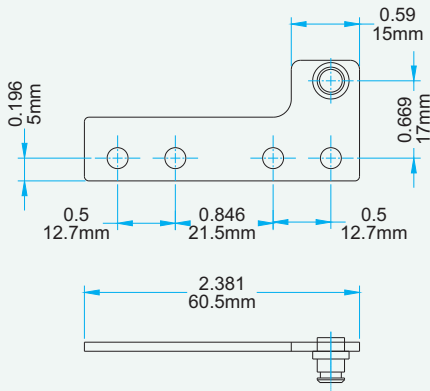
Part Number	Material	Hand
190626	Steel	Non

Note: Non Hand



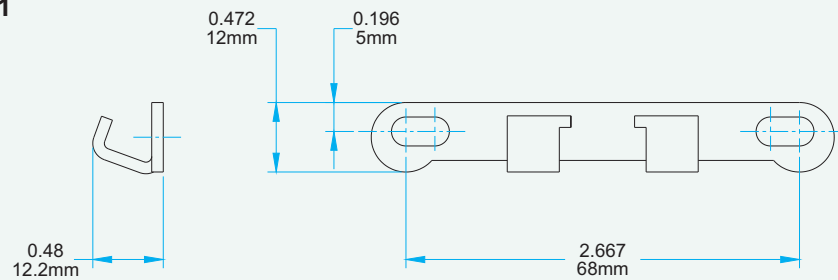
Part Number	Material	Hand
190442-R	Steel	RH
190452-L	Steel	LH

Note: Right Hand Shown (Left Hand Opposite)

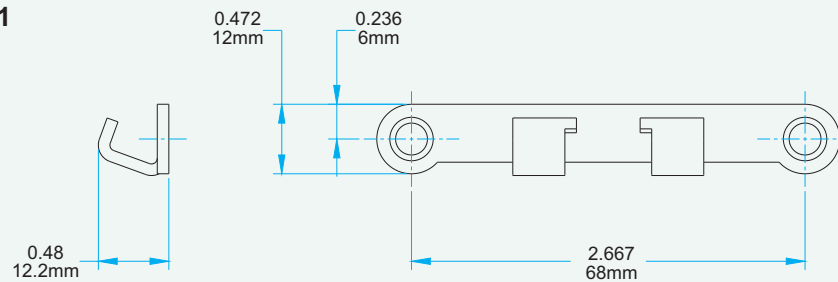


Sash Hook

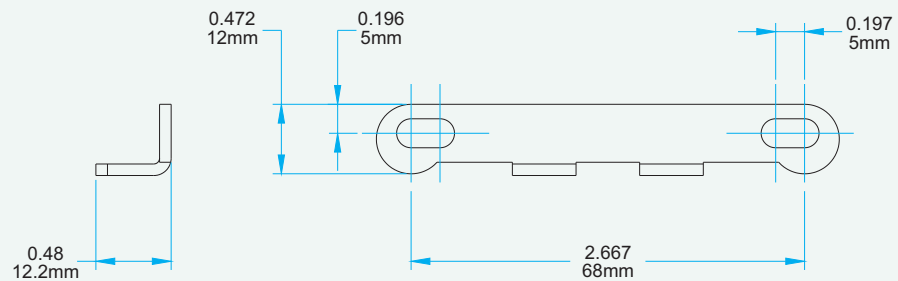
Sash Hook 19080R1



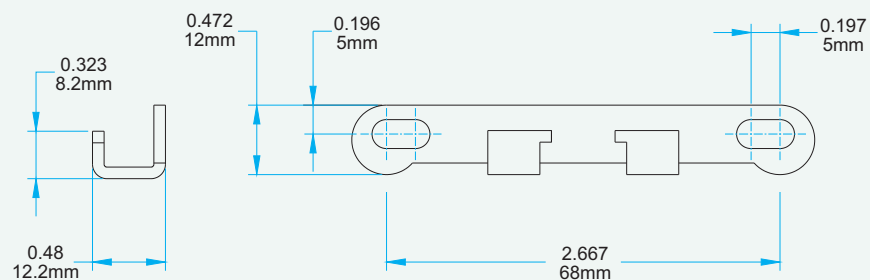
Sash Hook 19081R1



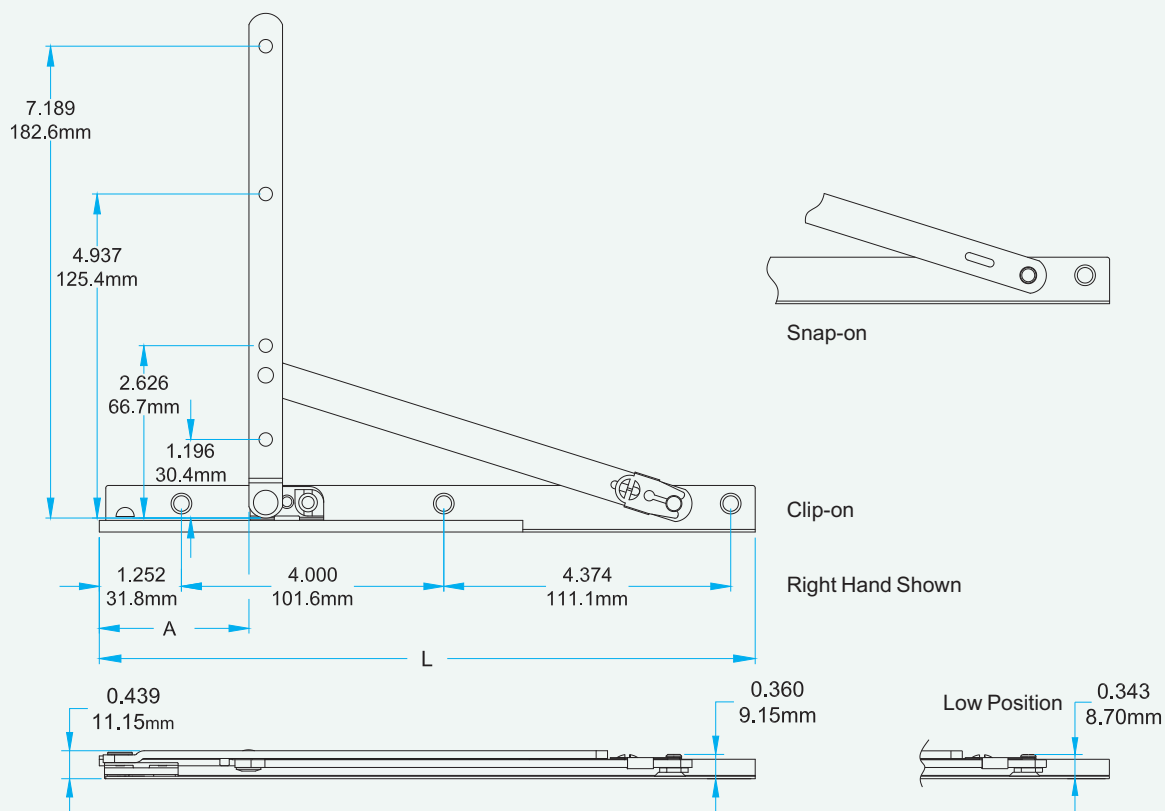
Sash Hook 19086



Sash Hook 19080R1-A

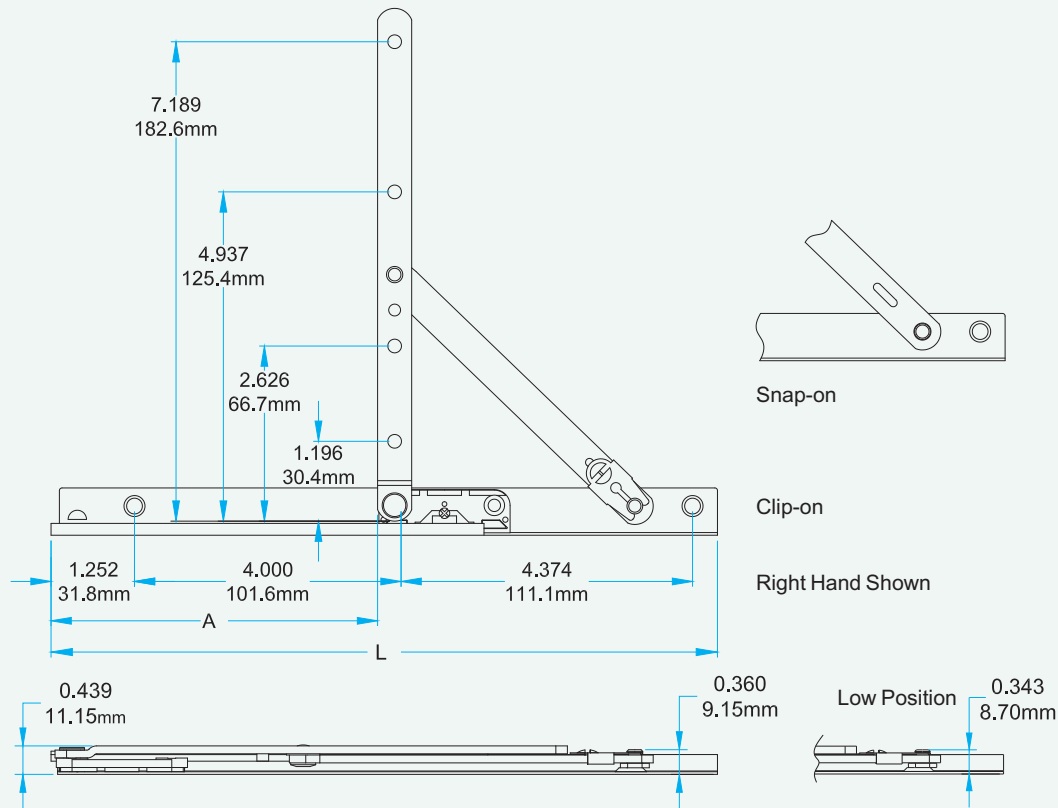


10"E Gress Two Bar Hinge



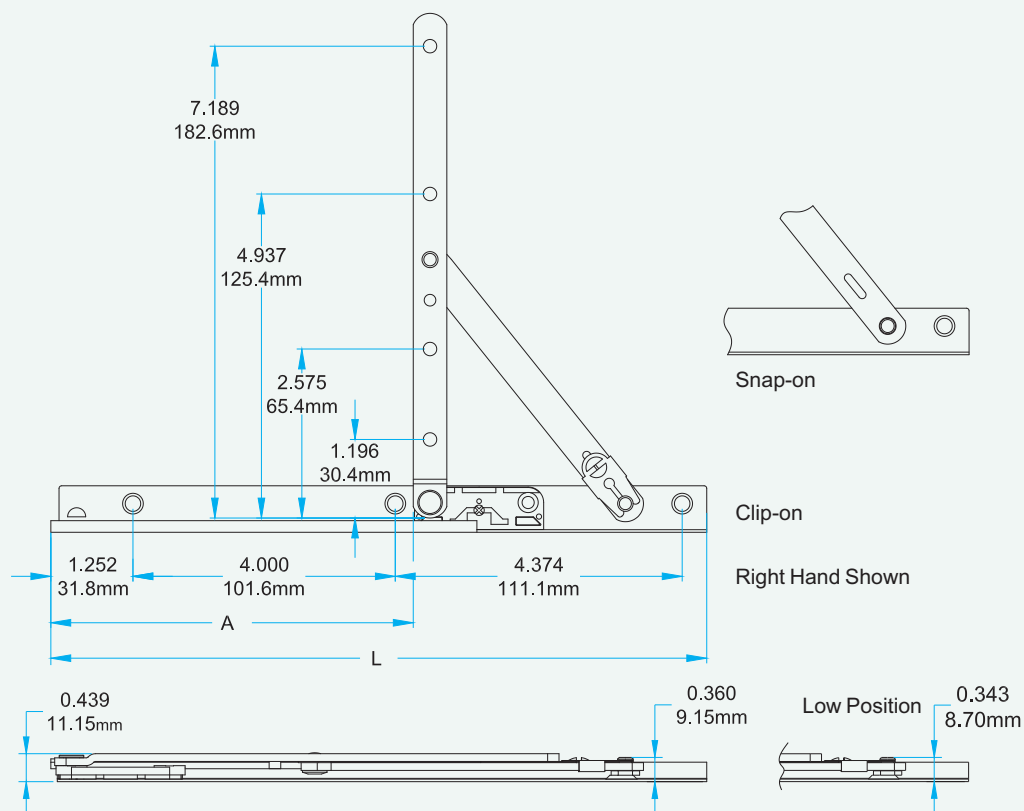
Part Number	Product Name	"A"	"L"	Material	Hand
19010-EAC-01	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, LH	2.279"	10"	Steel	LH
19010-EAC-00	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, RH	2.279"	10"	Steel	RH
7010-EAC-01	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, SST, LH	2.279"	10"	SST	LH
7010-EAC-00	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, SST, RH	2.279"	10"	SST	RH
19010-ENC-01	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, LH	2.279"	10"	Steel	LH
19010-ENC-00	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, RH	2.279"	10"	Steel	RH
7010-ENC-01	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, SST, LH	2.279"	10"	SST	LH
7010-ENC-00	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, SST, RH	2.279"	10"	SST	RH
19010-EASR1-01	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, LH	2.279"	10"	Steel	LH
19010-EASR1-00	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, RH	2.279"	10"	Steel	RH
7010-EASR1-01	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, SST, LH	2.279"	10"	SST	LH
7010-EASR1-00	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, SST, RH	2.279"	10"	SST	RH
19010-ENS1-01	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, LH	2.279"	10"	Steel	LH
19010-ENS1-00	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, RH	2.279"	10"	Steel	RH
7010-ENS1-01	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, SST, LH	2.279"	10"	SST	LH
7010-ENS1-00	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, SST, RH	2.279"	10"	SST	RH
19010-EAC-01-L	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, LH-Low Position	2.279"	10"	Steel	LH
19010-EAC-00-L	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, RH-Low Position	2.279"	10"	Steel	RH
7010-EAC-01-L	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, SST, LH-Low Position	2.279"	10"	SST	LH
7010-EAC-00-L	Two Bar Hinge, 10", E-gress, Adjustable, Clip-on, SST, RH-Low Position	2.279"	10"	SST	RH
19010-ENC-01-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, LH-Low Position	2.279"	10"	Steel	LH
19010-ENC-00-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, RH-Low Position	2.279"	10"	Steel	RH
7010-ENC-01-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, SST, LH-Low Position	2.279"	10"	SST	LH
7010-ENC-00-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Clip-on, SST, RH-Low Position	2.279"	10"	SST	RH
19010-EASR1-01-L	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, LH-Low Position	2.279"	10"	Steel	LH
19010-EASR1-00-L	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, RH-Low Position	2.279"	10"	Steel	RH
7010-EASR1-01-L	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, SST, LH-Low Position	2.279"	10"	SST	LH
7010-EASR1-00-L	Two Bar Hinge, 10", E-gress, Adjustable, Snap-on, SST, RH-Low Position	2.279"	10"	SST	RH
19010-ENS1-01-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, LH-Low Position	2.279"	10"	Steel	LH
19010-ENS1-00-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, RH-Low Position	2.279"	10"	Steel	RH
7010-ENS1-01-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, SST, LH-Low Position	2.279"	10"	SST	LH
7010-ENS1-00-L	Two Bar Hinge, 10", E-gress, Non-Adjustable, Snap-on, SST, RH-Low Position	2.279"	10"	SST	RH

10" Standard Two Bar Hinge



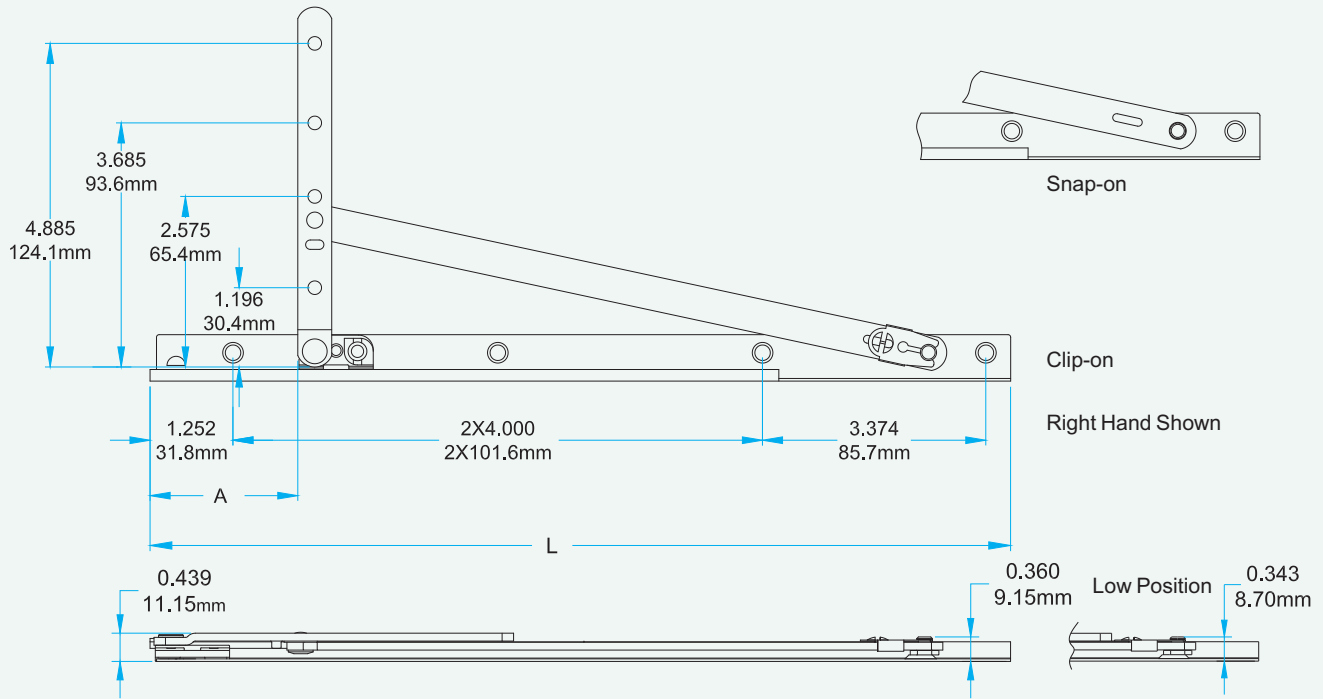
Part Number	Product Name	"A"	"L"	Material	Hand
19010-SAC-01	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, LH	4.905"	10"	Steel	LH
19010-SAC-00	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, RH	4.905"	10"	Steel	RH
7010-SAC-01	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, SST, LH	4.905"	10"	SST	LH
7010-SAC-00	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, SST, RH	4.905"	10"	SST	RH
19010-SNC-01	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, LH	4.905"	10"	Steel	LH
19010-SNC-00	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, RH	4.905"	10"	Steel	RH
7010-SNC-01	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, SST, LH	4.905"	10"	SST	LH
7010-SNC-00	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, SST, RH	4.905"	10"	SST	RH
19010-SASR1-01	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, LH	4.905"	10"	Steel	LH
19010-SASR1-00	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, RH	4.905"	10"	Steel	RH
7010-SASR1-01	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, SST, LH	4.905"	10"	SST	LH
7010-SASR1-00	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, SST, RH	4.905"	10"	SST	RH
19010-SNSR1-01	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, LH	4.905"	10"	Steel	LH
19010-SNSR1-00	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, RH	4.905"	10"	Steel	RH
7010-SNSR1-01	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, SST, LH	4.905"	10"	SST	LH
7010-SNSR1-00	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, SST, RH	4.905"	10"	SST	RH
19010-SAC-01-L	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, LH-Low Position	4.905"	10"	Steel	LH
19010-SAC-00-L	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, RH-Low Position	4.905"	10"	Steel	RH
7010-SAC-01-L	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, SST, LH-Low Position	4.905"	10"	SST	LH
7010-SAC-00-L	Two Bar Hinge, 10", Standard, Adjustable, Clip-on, SST, RH-Low Position	4.905"	10"	SST	RH
19010-SNC-01-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, LH-Low Position	4.905"	10"	Steel	LH
19010-SNC-00-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, RH-Low Position	4.905"	10"	Steel	RH
7010-SNC-01-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, SST, LH-Low Position	4.905"	10"	SST	LH
7010-SNC-00-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Clip-on, SST, RH-Low Position	4.905"	10"	SST	RH
19010-SASR1-01-L	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, LH-Low Position	4.905"	10"	Steel	LH
19010-SASR1-00-L	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, RH-Low Position	4.905"	10"	Steel	RH
7010-SASR1-01-L	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, SST, LH-Low Position	4.905"	10"	SST	LH
7010-SASR1-00-L	Two Bar Hinge, 10", Standard, Adjustable, Snap-on, SST, RH-Low Position	4.905"	10"	SST	RH
19010-SNSR1-01-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, LH-Low Position	4.905"	10"	Steel	LH
19010-SNSR1-00-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, RH-Low Position	4.905"	10"	Steel	RH
7010-SNSR1-01-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, SST, LH-Low Position	4.905"	10"	SST	LH
7010-SNSR1-00-L	Two Bar Hinge, 10", Standard, Non-Adjustable, Snap-on, SST, RH-Low Position	4.905"	10"	SST	RH

10"Washbility Two Bar Hinge



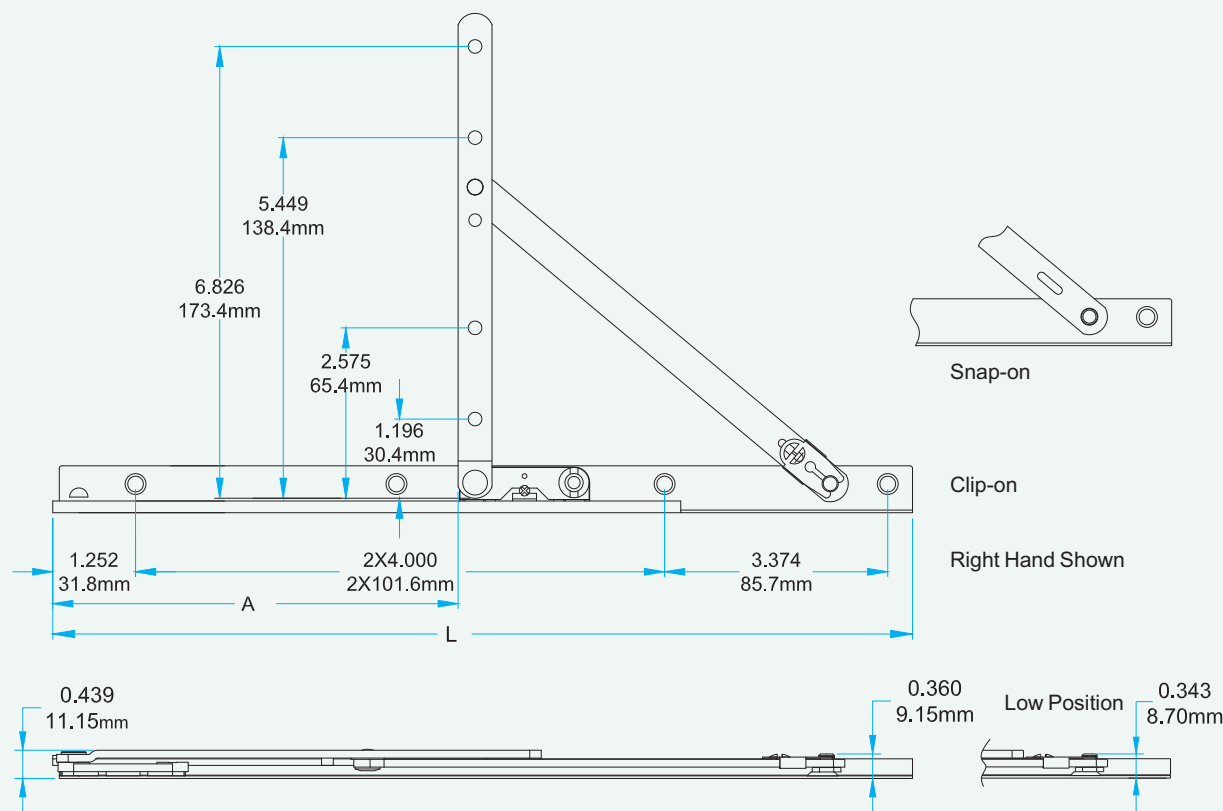
Part Number	Product Name	"A"	"L"	Material	Hand
19010-WAC-01	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, LH	5.531"	10"	Steel	LH
19010-WAC-00	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, RH	5.531"	10"	Steel	RH
7010-WAC-01	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, SST, LH	5.531"	10"	SST	LH
7010-WAC-00	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, SST, RH	5.531"	10"	SST	RH
19010-WNC-01	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, LH	5.531"	10"	Steel	LH
19010-WNC-00	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, RH	5.531"	10"	Steel	RH
7010-WNC-01	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, SST, LH	5.531"	10"	SST	LH
7010-WNC-00	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, SST, RH	5.531"	10"	SST	RH
19010-WASR1-01	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, LH	5.531"	10"	Steel	LH
19010-WASR1-00	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, RH	5.531"	10"	Steel	RH
7010-WASR1-01	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, SST, LH	5.531"	10"	SST	LH
7010-WASR1-00	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, SST, RH	5.531"	10"	SST	RH
19010-WNSR1-01	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, LH	5.531"	10"	Steel	LH
19010-WNSR1-00	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, RH	5.531"	10"	Steel	RH
7010-WNSR1-01	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, SST, LH	5.531"	10"	SST	LH
7010-WNSR1-00	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, SST, RH	5.531"	10"	SST	RH
19010-WAC-01-L	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, LH-Low Position	5.531"	10"	Steel	LH
19010-WAC-00-L	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, RH-Low Position	5.531"	10"	Steel	RH
7010-WAC-01-L	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, SST, LH-Low Position	5.531"	10"	SST	LH
7010-WAC-00-L	Two Bar Hinge, 10", Washbility, Adjustable, Clip-on, SST, RH-Low Position	5.531"	10"	SST	RH
19010-WNC-01-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, LH-Low Position	5.531"	10"	Steel	LH
19010-WNC-00-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, RH-Low Position	5.531"	10"	Steel	RH
7010-WNC-01-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, SST, LH-Low Position	5.531"	10"	SST	LH
7010-WNC-00-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Clip-on, SST, RH-Low Position	5.531"	10"	SST	RH
19010-WASR1-01-L	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, LH-Low Position	5.531"	10"	Steel	LH
19010-WASR1-00-L	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, RH-Low Position	5.531"	10"	Steel	RH
7010-WASR1-01-L	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, SST, LH-Low Position	5.531"	10"	SST	LH
7010-WASR1-00-L	Two Bar Hinge, 10", Washbility, Adjustable, Snap-on, SST, RH-Low Position	5.531"	10"	SST	RH
19010-WNSR1-01-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, LH-Low Position	5.531"	10"	Steel	LH
19010-WNSR1-00-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, RH-Low Position	5.531"	10"	Steel	RH
7010-WNSR1-01-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, SST, LH-Low Position	5.531"	10"	SST	LH
7010-WNSR1-00-L	Two Bar Hinge, 10", Washbility, Non-Adjustable, Snap-on, SST, RH-Low Position	5.531"	10"	SST	RH

13"E Gress Two Bar Hinge



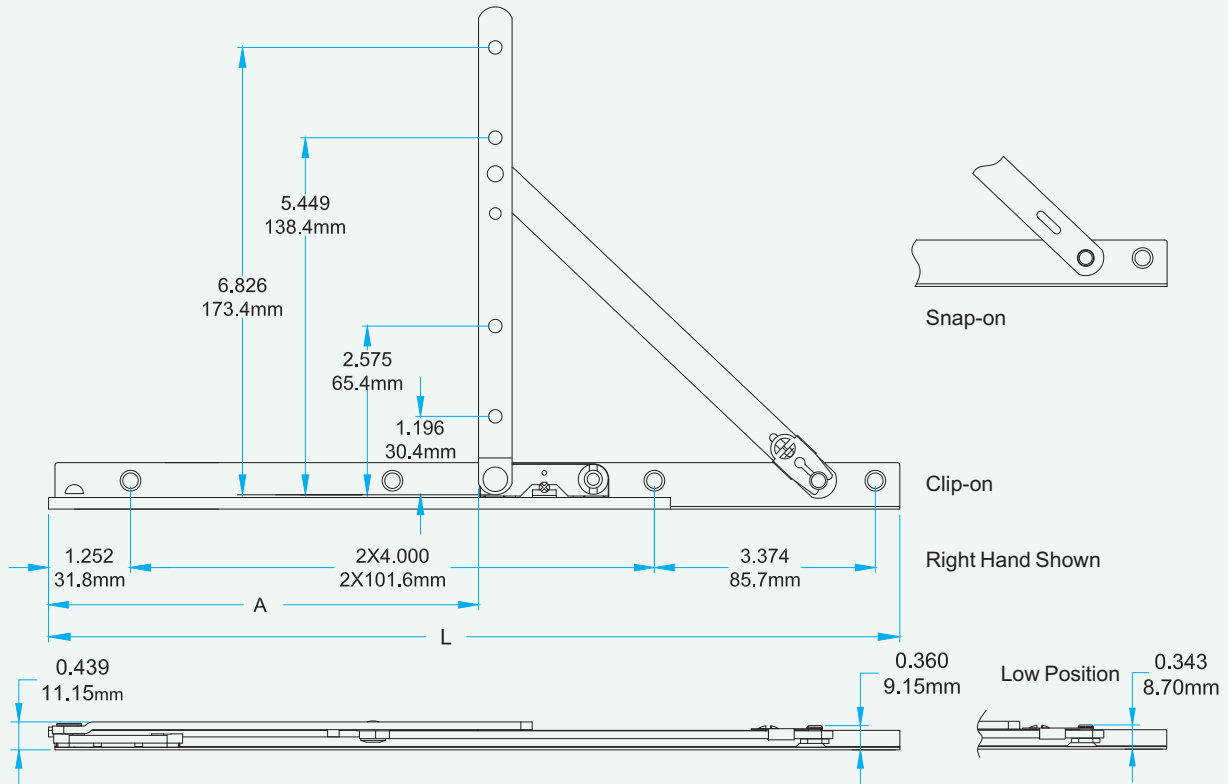
Part Number	Product Name	"A"	"L"	Material	Hand
19013-EAC-01	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, LH	2.232"	13"	Steel	LH
19013-EAC-00	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, RH	2.232"	13"	Steel	RH
7013-EAC-01	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, SST, LH	2.232"	13"	SST	LH
7013-EAC-00	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, SST, RH	2.232"	13"	SST	RH
19013-ENC-01	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, LH	2.232"	13"	Steel	LH
19013-ENC-00	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, RH	2.232"	13"	Steel	RH
7013-ENC-01	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, SST, LH	2.232"	13"	SST	LH
7013-ENC-00	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, SST, RH	2.232"	13"	SST	RH
19013-EASR1-01	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, LH	2.232"	13"	Steel	LH
19013-EASR1-00	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, RH	2.232"	13"	Steel	RH
7013-EASR1-01	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, SST, LH	2.232"	13"	SST	LH
7013-EASR1-00	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, SST, RH	2.232"	13"	SST	RH
19013-ENS1-01	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, LH	2.232"	13"	Steel	LH
19013-ENS1-00	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, RH	2.232"	13"	Steel	RH
7013-ENS1-01	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, SST, LH	2.232"	13"	SST	LH
7013-ENS1-00	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, SST, RH	2.232"	13"	SST	RH
19013-EAC-01-L	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, LH-Low Position	2.232"	13"	Steel	LH
19013-EAC-00-L	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, RH-Low Position	2.232"	13"	Steel	RH
7013-EAC-01-L	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, SST, LH-Low Position	2.232"	13"	SST	LH
7013-EAC-00-L	Two Bar Hinge, 13", E-gress, Adjustable, Clip-on, SST, RH-Low Position	2.232"	13"	SST	RH
19013-ENC-01-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, LH-Low Position	2.232"	13"	Steel	LH
19013-ENC-00-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, RH-Low Position	2.232"	13"	Steel	RH
7013-ENC-01-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, SST, LH-Low Position	2.232"	13"	SST	LH
7013-ENC-00-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Clip-on, SST, RH-Low Position	2.232"	13"	SST	RH
19013-EASR1-01-L	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, LH-Low Position	2.232"	13"	Steel	LH
19013-EASR1-00-L	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, RH-Low Position	2.232"	13"	Steel	RH
7013-EASR1-01-L	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, SST, LH-Low Position	2.232"	13"	SST	LH
7013-EASR1-00-L	Two Bar Hinge, 13", E-gress, Adjustable, Snap-on, SST, RH-Low Position	2.232"	13"	SST	RH
19013-ENS1-01-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, LH-Low Position	2.232"	13"	Steel	LH
19013-ENS1-00-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, RH-Low Position	2.232"	13"	Steel	RH
7013-ENS1-01-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, SST, LH-Low Position	2.232"	13"	SST	LH
7013-ENS1-00-L	Two Bar Hinge, 13", E-gress, Non-Adjustable, Snap-on, SST, RH-Low Position	2.232"	13"	SST	RH

13" Standard Two Bar Hinge



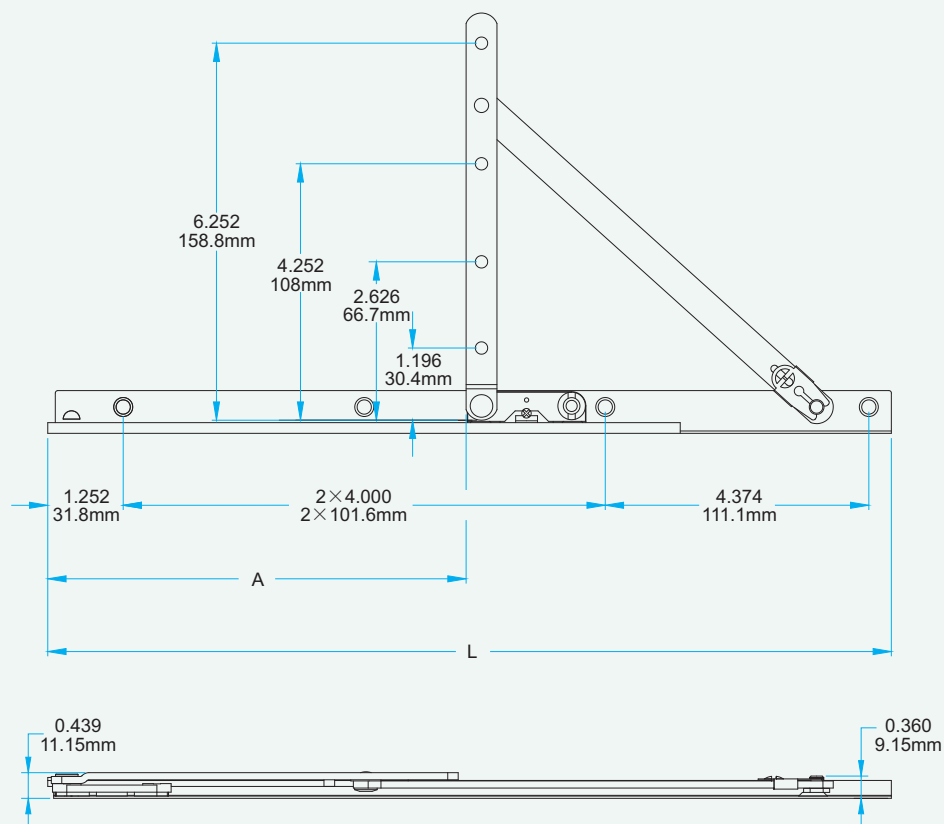
Part Number	Product Name	"A"	"L"	Material	Hand
19013-SAC-01	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, LH	6.130"	13"	Steel	LH
19013-SAC-00	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, RH	6.130"	13"	Steel	RH
7013-SAC-01	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, SST, LH	6.130"	13"	SST	LH
7013-SAC-00	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, SST, RH	6.130"	13"	SST	RH
19013-SNC-01	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, LH	6.130"	13"	Steel	LH
19013-SNC-00	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, RH	6.130"	13"	Steel	RH
7013-SNC-01	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, SST, LH	6.130"	13"	SST	LH
7013-SNC-00	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, SST, RH	6.130"	13"	SST	RH
19013-SASR1-01	13" Adjustable Hinge, Standard, Snap-on, LH	6.130"	13"	Steel	LH
19013-SASR1-00	13" Adjustable Hinge, Standard, Snap-on, RH	6.130"	13"	Steel	RH
7013-SASR1-01	13" Adjustable Hinge, Standard, Snap-on, SST, LH	6.130"	13"	SST	LH
7013-SASR1-00	13" Adjustable Hinge, Standard, Snap-on, SST, RH	6.130"	13"	SST	RH
19013-SNSR1-01	13" Non-Adjustable Hinge, Standard, Snap-on, LH	6.130"	13"	Steel	LH
19013-SNSR1-00	13" Non-Adjustable Hinge, Standard, Snap-on, RH	6.130"	13"	Steel	RH
7013-SNSR1-01	13" Non-Adjustable Hinge, Standard, Snap-on, SST, LH	6.130"	13"	SST	LH
7013-SNSR1-00	13" Non-Adjustable Hinge, Standard, Snap-on, SST, RH	6.130"	13"	SST	RH
19013-SAC-01-L	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, LH-Low Position	6.130"	13"	Steel	LH
19013-SAC-00-L	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, RH-Low Position	6.130"	13"	Steel	RH
7013-SAC-01-L	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, SST, LH-Low Position	6.130"	13"	SST	LH
7013-SAC-00-L	Two Bar Hinge, 13", Standard, Adjustable, Clip-on, SST, RH-Low Position	6.130"	13"	SST	RH
19013-SNC-01-L	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, LH-Low Position	6.130"	13"	Steel	LH
19013-SNC-00-L	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, RH-Low Position	6.130"	13"	Steel	RH
7013-SNC-01-L	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, SST, LH-Low Position	6.130"	13"	SST	LH
7013-SNC-00-L	Two Bar Hinge, 13", Standard, Non-Adjustable, Clip-on, SST, RH-Low Position	6.130"	13"	SST	RH
19013-SASR1-01-L	13" Adjustable Hinge, Standard, Snap-on, LH-Low Position	6.130"	13"	Steel	LH
19013-SASR1-00-L	13" Adjustable Hinge, Standard, Snap-on, RH-Low Position	6.130"	13"	Steel	RH
7013-SASR1-01-L	13" Adjustable Hinge, Standard, Snap-on, SST, LH-Low Position	6.130"	13"	SST	LH
7013-SASR1-00-L	13" Adjustable Hinge, Standard, Snap-on, SST, RH-Low Position	6.130"	13"	SST	RH
19013-SNSR1-01-L	13" Non-Adjustable Hinge, Standard, Snap-on, LH-Low Position	6.130"	13"	Steel	LH
19013-SNSR1-00-L	13" Non-Adjustable Hinge, Standard, Snap-on, RH-Low Position	6.130"	13"	Steel	RH
7013-SNSR1-01-L	13" Non-Adjustable Hinge, Standard, Snap-on, SST, LH-Low Position	6.130"	13"	SST	LH
7013-SNSR1-00-L	13" Non-Adjustable Hinge, Standard, Snap-on, SST, RH-Low Position	6.130"	13"	SST	RH

13"Washbilty Two Bar Hinge



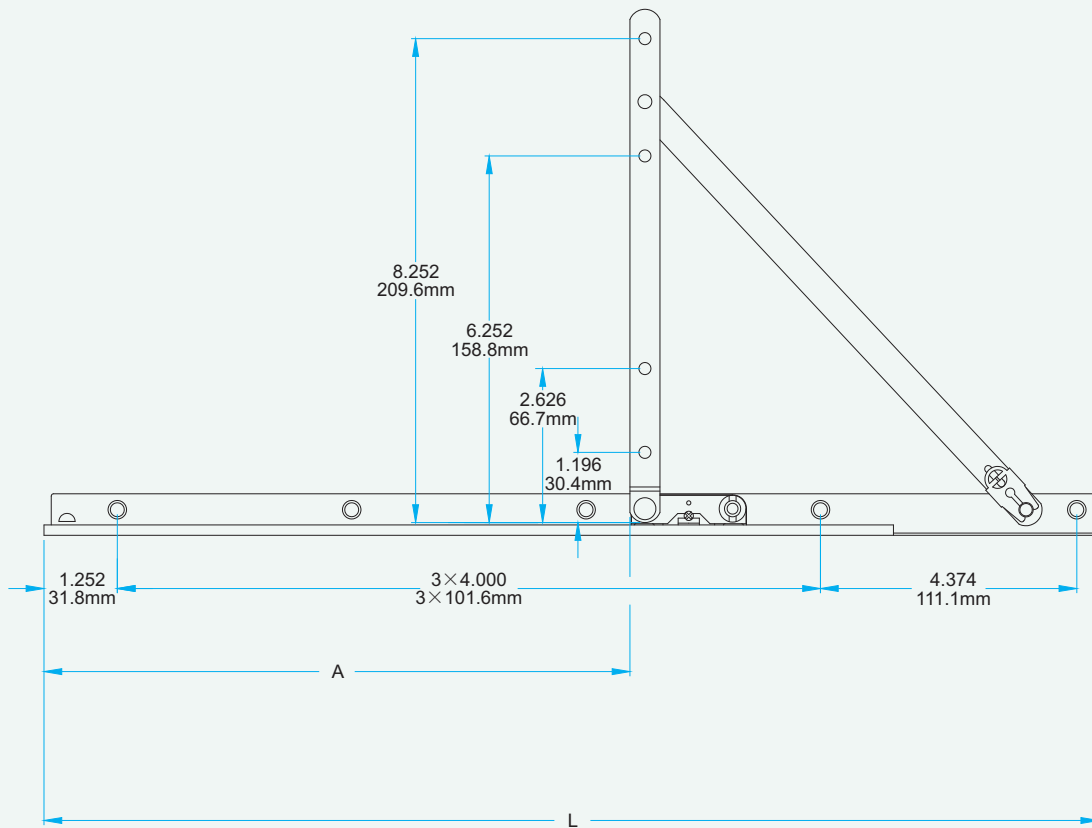
Part Number	Product Name	"A"	"L"	Material	Hand
19013-WAC-01	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, LH	6.567"	13"	Steel	LH
19013-WAC-00	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, RH	6.567"	13"	Steel	RH
7013-WAC-01	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, SST, LH	6.567"	13"	SST	LH
7013-WAC-00	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, SST, RH	6.567"	13"	SST	RH
19013-WNC-01	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, LH	6.567"	13"	Steel	LH
19013-WNC-00	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, RH	6.567"	13"	Steel	RH
7013-WNC-01	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, SST, LH	6.567"	13"	SST	LH
7013-WNC-00	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, SST, RH	6.567"	13"	SST	RH
19013-WASR1-01	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, LH	6.567"	13"	Steel	LH
19013-WASR1-00	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, RH	6.567"	13"	Steel	RH
7013-WASR1-01	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, SST, LH	6.567"	13"	SST	LH
7013-WASR1-00	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, SST, RH	6.567"	13"	SST	RH
19013-WNSR1-01	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, LH	6.567"	13"	Steel	LH
19013-WNSR1-00	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, RH	6.567"	13"	Steel	RH
7013-WNSR1-01	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, SST, LH	6.567"	13"	SST	LH
7013-WNSR1-00	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, SST, RH	6.567"	13"	SST	RH
19013-WAC-01-L	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, LH-Low Position	6.567"	13"	Steel	LH
19013-WAC-00-L	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, RH-Low Position	6.567"	13"	Steel	RH
7013-WAC-01-L	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, SST, LH-Low Position	6.567"	13"	SST	LH
7013-WAC-00-L	Two Bar Hinge, 13", Washbilty, Adjustable, Clip-on, SST, RH-Low Position	6.567"	13"	SST	RH
19013-WNC-01-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, LH-Low Position	6.567"	13"	Steel	LH
19013-WNC-00-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, RH-Low Position	6.567"	13"	Steel	RH
7013-WNC-01-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, SST, LH-Low Position	6.567"	13"	SST	LH
7013-WNC-00-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Clip-on, SST, RH-Low Position	6.567"	13"	SST	RH
19013-WASR1-01-L	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, LH-Low Position	6.567"	13"	Steel	LH
19013-WASR1-00-L	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, RH-Low Position	6.567"	13"	Steel	RH
7013-WASR1-01-L	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, SST, LH-Low Position	6.567"	13"	SST	LH
7013-WASR1-00-L	Two Bar Hinge, 13", Washbilty, Adjustable, Snap-on, SST, RH-Low Position	6.567"	13"	SST	RH
19013-WNSR1-01-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, LH-Low Position	6.567"	13"	Steel	LH
19013-WNSR1-00-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, RH-Low Position	6.567"	13"	Steel	RH
7013-WNSR1-01-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, SST, LH-Low Position	6.567"	13"	SST	LH
7013-WNSR1-00-L	Two Bar Hinge, 13", Washbilty, Non-Adjustable, Snap-on, SST, RH-Low Position	6.567"	13"	SST	RH

14"Awning Two Bar Hinge



Part Number	Product Name	"A"	"L"	Material	Hand
19014-SAC-01	Two Bar Hinge, 14", Standard, Adjustable, Clip-on, LH	6.941"	14"	Steel	LH
19014-SAC-00	Two Bar Hinge, 14", Standard, Adjustable, Clip-on, RH	6.941"	14"	Steel	RH
7014-SAC-01	Two Bar Hinge, 14", Standard, Adjustable, Clip-on, SST, LH	6.941"	14"	SST	LH
7014-SAC-00	Two Bar Hinge, 14", Standard, Adjustable, Clip-on, SST, RH	6.941"	14"	SST	RH
19014-SNC-01	Two Bar Hinge, 14", Standard, Non-Adjustable, Clip-on, LH	6.941"	14"	Steel	LH
19014-SNC-00	Two Bar Hinge, 14", Standard, Non-Adjustable, Clip-on, RH	6.941"	14"	Steel	RH
7014-SNC-01	Two Bar Hinge, 14", Standard, Non-Adjustable, Clip-on, SST, LH	6.941"	14"	SST	LH
7014-SNC-00	Two Bar Hinge, 14", Standard, Non-Adjustable, Clip-on, SST, RH	6.941"	14"	SST	RH

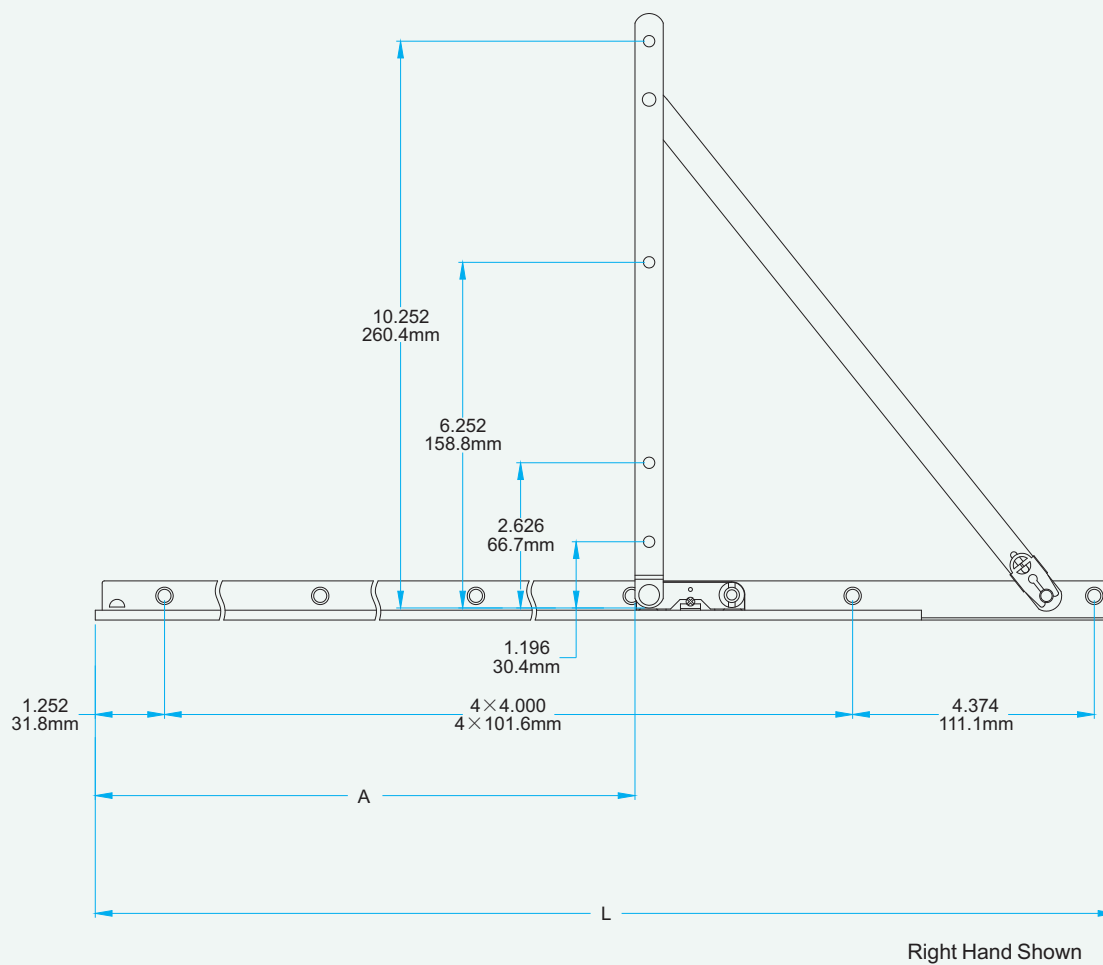
18"Awning Two Bar Hinge



Right Hand Shown

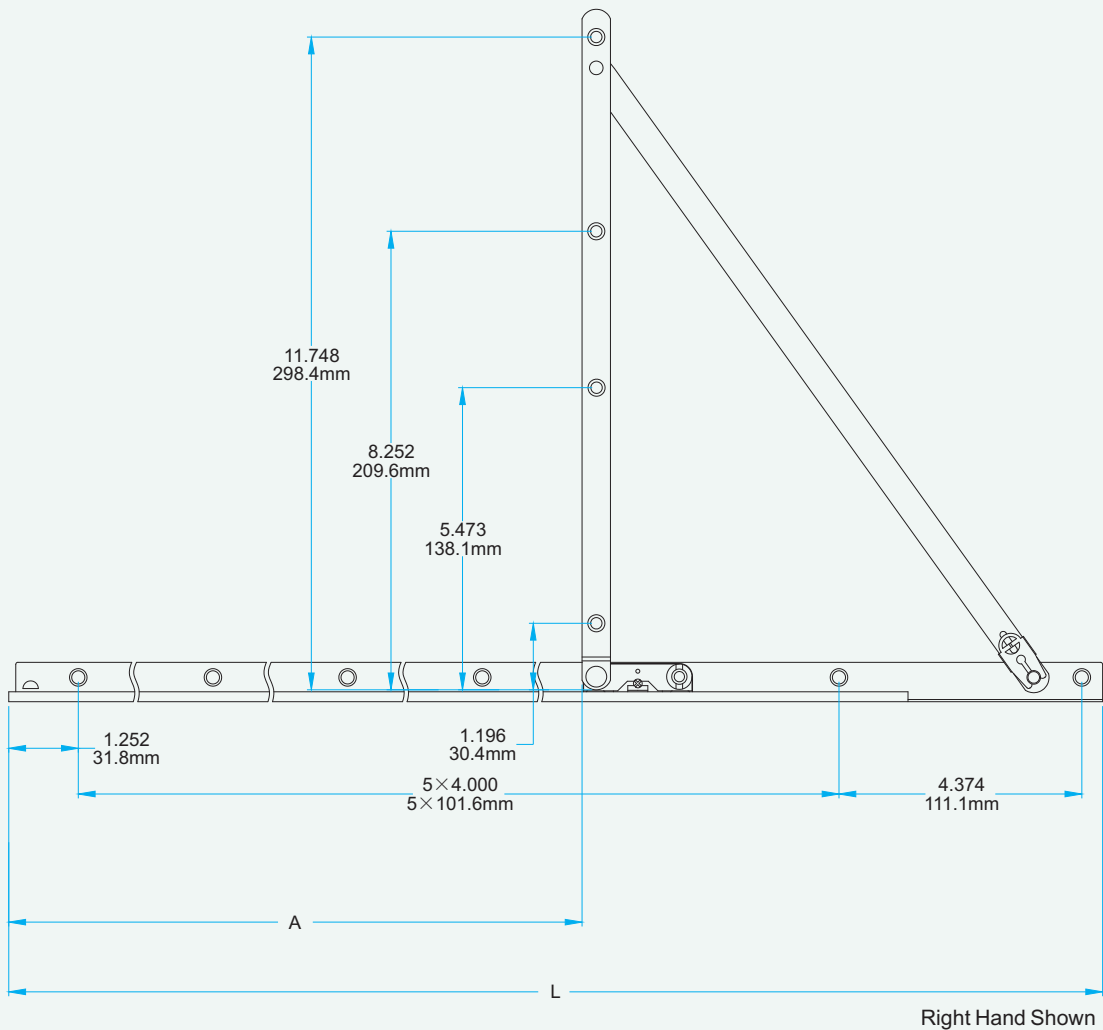
Part Number	Product Name	"A"	"L"	Material	Hand
9018-SAC-01	Two Bar Hinge, 18", Standard, Adjustable, Clip-on, LH	10"	18"	Steel	LH
19018-SAC-00	Two Bar Hinge, 18", Standard, Adjustable, Clip-on, RH	10"	18"	Steel	RH
7018-SAC-01	Two Bar Hinge, 18", Standard, Adjustable, Clip-on, SST, LH	10"	18"	SST	LH
7018-SAC-00	Two Bar Hinge, 18", Standard, Adjustable, Clip-on, SST, RH	10"	18"	SST	RH
19018-SNC-01	Two Bar Hinge, 18", Standard, Non-Adjustable, Clip-on, LH	10"	18"	Steel	LH
19018-SNC-00	Two Bar Hinge, 18", Standard, Non-Adjustable, Clip-on, RH	10"	18"	Steel	RH
7018-SNC-01	Two Bar Hinge, 18", Standard, Non-Adjustable, Clip-on, SST, LH	10"	18"	SST	LH
7018-SNC-00	Two Bar Hinge, 18", Standard, Non-Adjustable, Clip-on, SST, RH	10"	18"	SST	RH

22"Awning Two Bar Hinge



Part Number	Product Name	"A"	"L"	Material	Hand
19022-SAC-01	Two Bar Hinge,22", Standard,Adjustable,Clip-on,LH	13.311"	22"	Steel	LH
19022-SAC-00	Two Bar Hinge,22", Standard,Adjustable,Clip-on,RH	13.311"	22"	Steel	RH
7022-SAC-01	Two Bar Hinge,22", Standard,Adjustable,Clip-on,SST,LH	13.311"	22"	SST	LH
7022-SAC-00	Two Bar Hinge,22", Standard,Adjustable,Clip-on,SST,RH	13.311"	22"	SST	RH
19022-SNC-01	Two Bar Hinge,22", Standard,Non-Adjustable,Clip-on,LH	13.311"	22"	Steel	LH
19022-SNC-00	Two Bar Hinge,22", Standard,Non-Adjustable,Clip-on,RH	13.311"	22"	Steel	RH
7022-SNC-01	Two Bar Hinge,22", Standard,Non-Adjustable,Clip-on,SST,LH	13.311"	22"	SST	LH
7022-SNC-00	Two Bar Hinge,22", Standard,Non-Adjustable,Clip-on,SST,RH	13.311"	22"	SST	RH

26"Awning Two Bar Hinge



Part Number	Product Name	"A"	"L"	Material	Hand
19026-SAC-01	Two Bar Hinge,26", Standard,Adjustable,Clip-on,LH	16.626"	26"	Steel	LH
19026-SAC-00	Two Bar Hinge,26", Standard,Adjustable,Clip-on,RH	16.626"	26"	Steel	RH
7026-SAC-01	Two Bar Hinge,26", Standard,Adjustable,Clip-on,SST,LH	16.626"	26"	SST	LH
7026-SAC-00	Two Bar Hinge,26", Standard,Adjustable,Clip-on,SST,RH	16.626"	26"	SST	RH
19026-SNC-01	Two Bar Hinge,26", Standard,Non-Adjustable,Clip-on,LH	16.626"	26"	Steel	LH
19026-SNC-00	Two Bar Hinge,26", Standard,Non-Adjustable,Clip-on,RH	16.626"	26"	Steel	RH
7026-SNC-01	Two Bar Hinge,26", Standard,Non-Adjustable,Clip-on,SST,LH	16.626"	26"	SST	LH
7026-SNC-00	Two Bar Hinge,26", Standard,Non-Adjustable,Clip-on,SST,RH	16.626"	26"	SST	RH

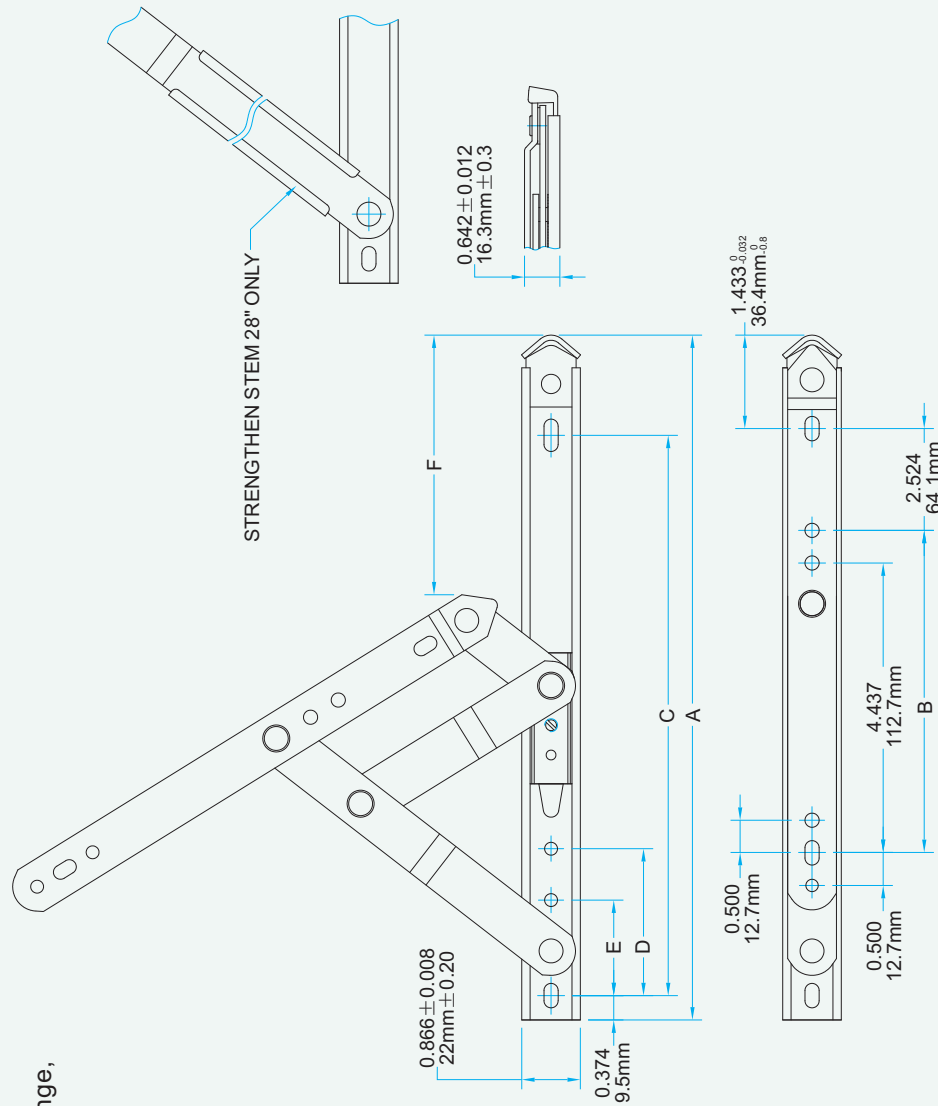
Heavy Duty 4-Bar Hinges (011SS Series)

NOTE:

1. 77010—304 SST material four bar hinge, length 10"
2. 011—Four bar hinge series
3. HD—Heavy duty
4. SP—Standard Stop
5. NP—No stop

Ordering example

77010-011HD-SP:
10" 304 SST four bar hinge,
heavy duty, standard stop,
011 series
77012-011HD-NP-100:
12" 304 SST four bar hinge,
heavy duty, no stop, loose rivet,
011 series

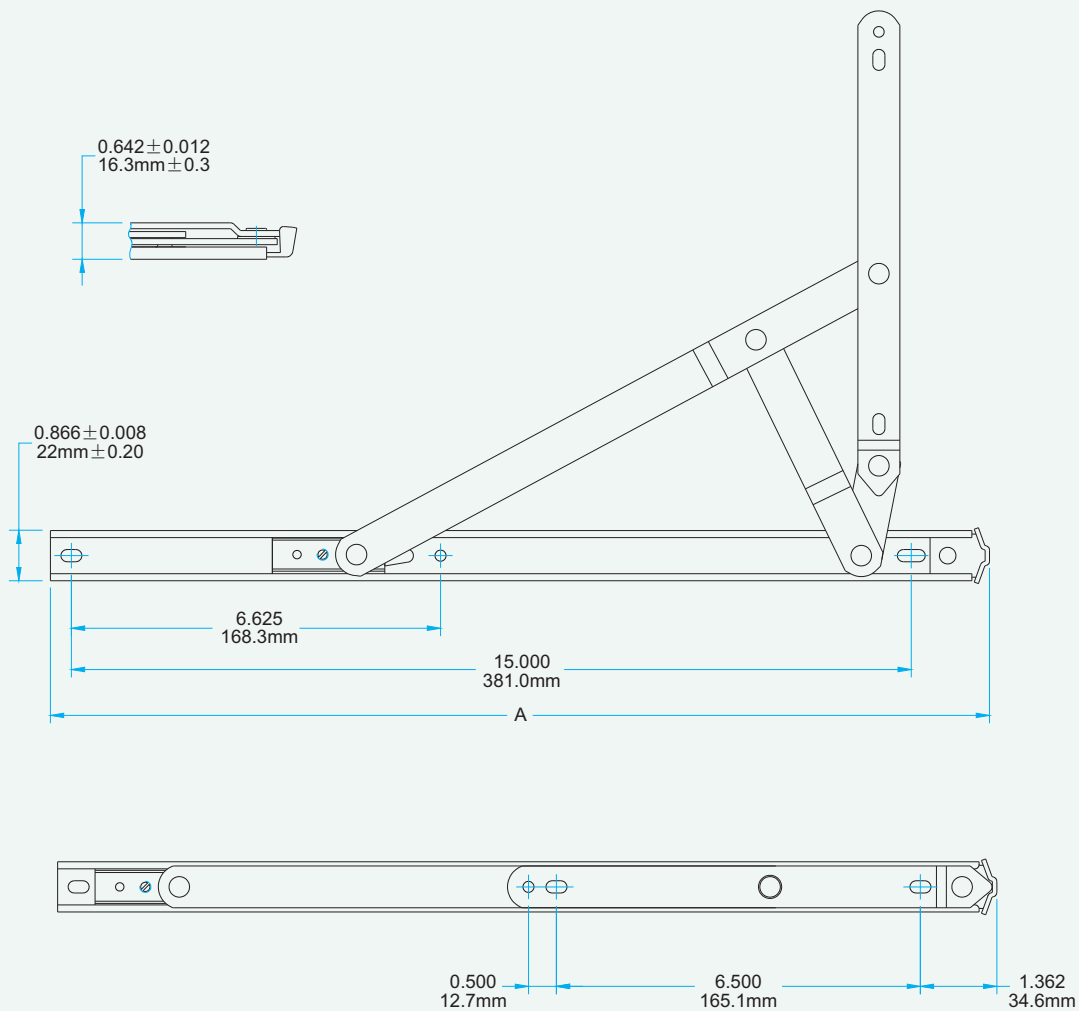


Part Number		Degree of Opening									
STD. STOP	NO STOP	HINGE LENGTH	A	B	C	STD. STOP	STD. STOP	NO STOP	STD. STOP	NO STOP	LOOSE RIVETS
77010-011HD-SP	77010-011HD-NP	10"	10.5"	N/A	8.591	2.250	1.375	4.000	6.189	58°	100
		(254.0mm)	(266.7mm)		(218.2mm)	(57.2mm)	(35.0mm)	(101.6mm)	(157.2mm)		
77012-011HD-SP	77012-011HD-NP	12"	12.5"	4.938	10.591	4.000	1.625	4.205	7.776	52°	100
		(304.8mm)	(317.5mm)	(125.4mm)	(269.0mm)	(101.6mm)	(41.3mm)	(106.8mm)	(197.5mm)		
77014-011HD-SP	77014-011HD-NP	14"	14.5"	5.938	12.591	5.656	2.125	4.457	9.252	48°	100
		(355.6mm)	(368.3mm)	(150.8mm)	(319.8mm)	(143.7mm)	(54.0mm)	(113.2mm)	(235.0mm)		
77016-011HD-SP	77016-011HD-NP	16"	16.5"	6.938	14.591	6.938	2.625	5.188	10.752	49°	100
		(406.4mm)	(419.1mm)	(176.2mm)	(370.6mm)	(176.2mm)	(66.7mm)	(131.8mm)	(273.1mm)		
77018-011HD-SP	77018-011HD-NP	18"	18.5"	7.938	16.591	8.312	3.125	5.851	12.252	49°	100
		(457.2mm)	(469.9mm)	(201.6mm)	(421.4mm)	(211.1mm)	(79.3mm)	(147.7mm)	(311.2mm)		
77020-011HD-SP	77020-011HD-NP	20"	20.5"	8.938	18.591	9.625	3.625	6.508	13.811	49°	100
		(508.0mm)	(520.7mm)	(227.0mm)	(472.2mm)	(244.4mm)	(92.0mm)	(165.3mm)	(350.8mm)		
77024-011HD-SP	77024-011HD-NP	24"	24.5"	10.938	22.591	13.500	4.625	6.516	16.732	45°	100
		(609.6mm)	(622.3mm)	(277.8mm)	(573.8mm)	(342.9mm)	(117.4mm)	(165.5mm)	(425.0mm)		
77028-011HD-SP	77028-011HD-NP	28"	28.5"	12.938	26.591	17.000	N/A	6.972	N/A	40°	100
		(711.2mm)	(723.9mm)	(335.0mm)	(673.4mm)	(431.8mm)		(177.1mm)			

Heavy Duty Egress (90°) 4-Bar Hinge (012SS Series)

NOTE:

1. 770165—304 SST material four bar hinge, length (16.5")
2. 012—Four bar hinge series
3. HD—Heavy duty



Part Number	Hinge Length	A	Degree of Opening	Loose Rivets	Casement or Awning
770165-012HD	16.5"(419.1mm)	16.772(426.0mm)	90°	100	Casement Hinge

Heavy Duty (90°) Casement Hinge (013SS Series)

NOTE:

1. 77014—304 SST material four bar hinge, length 14"
2. 013—Four bar hinge series
3. HD—Heavy duty

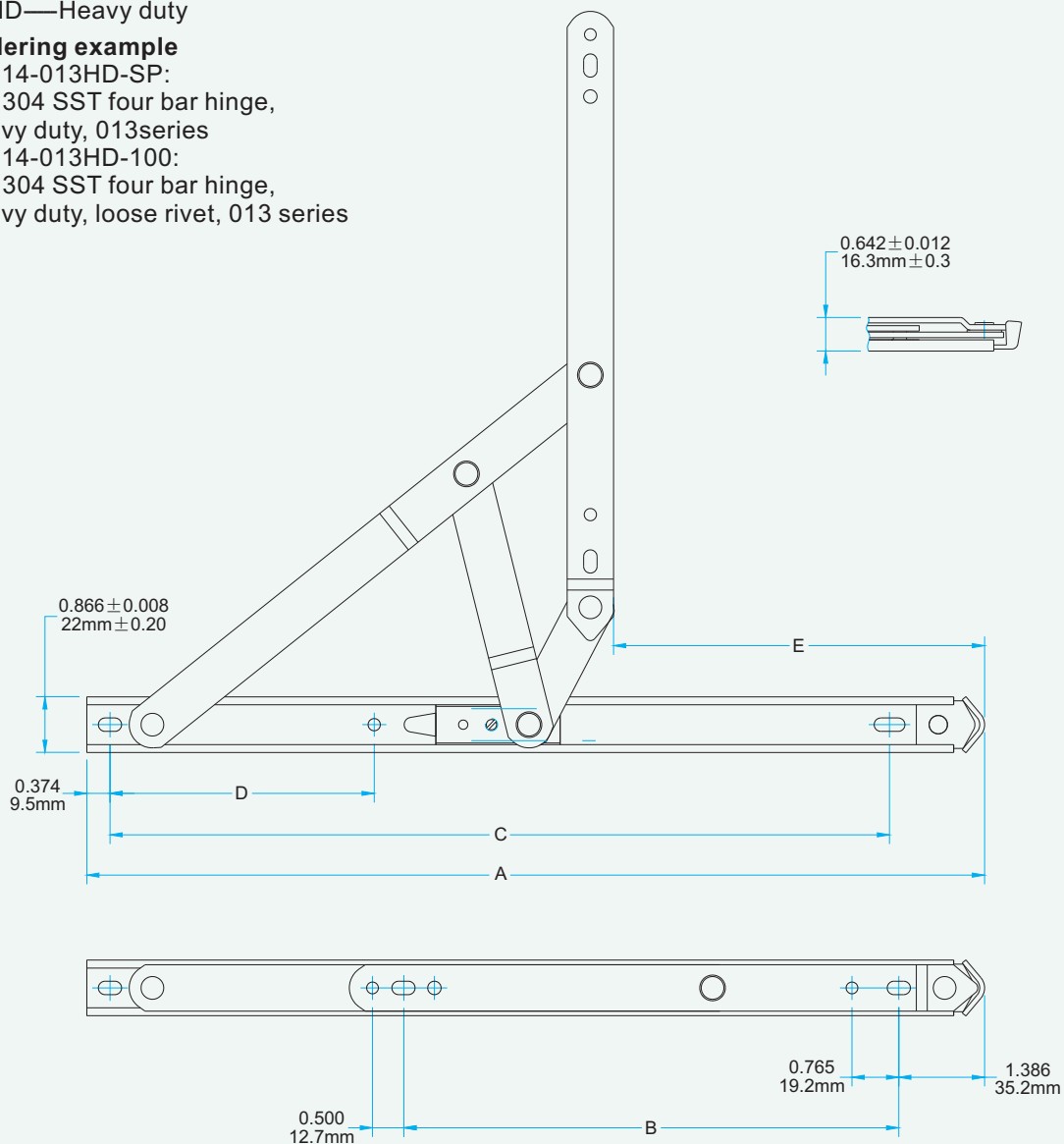
Ordering example

77014-013HD-SP:

14" 304 SST four bar hinge,
heavy duty, 013series

77014-013HD-100:

14" 304 SST four bar hinge,
heavy duty, loose rivet, 013 series

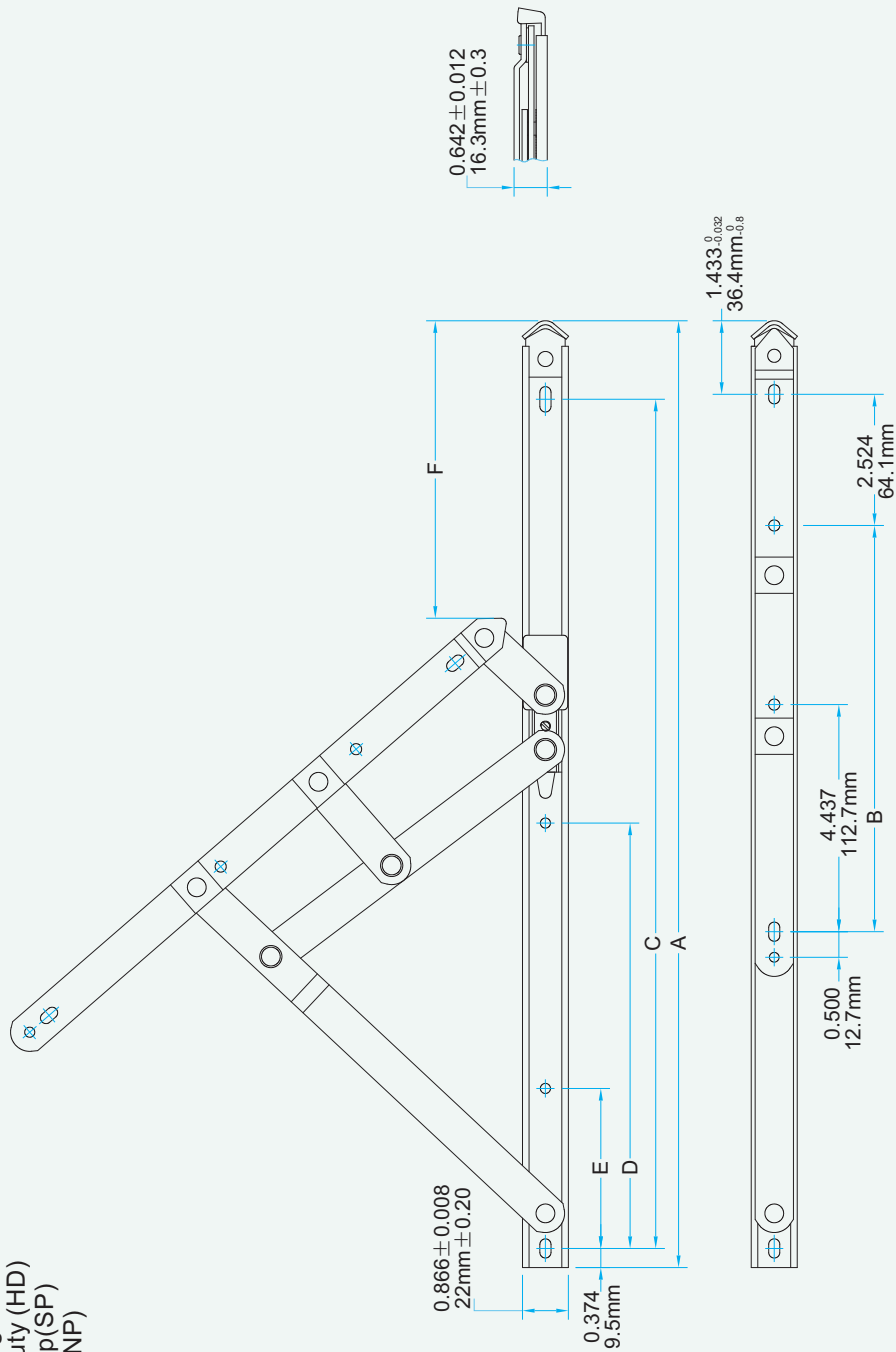


Part Number	Hinge Length	A	B	C	D	E	Degree of Opening	Loose Rivets	Casement or Awning
77014-013HD	14" (355.6mm)	14.5 (368.3mm)	8.0 (203.2mm)	12.591 (319.8mm)	4.268 (108.4mm)	6.000 (152.4mm)	90°	100	Casement Hinge
77016-013HD	16" (406.4mm)	16.5 (419.1mm)	8.0 (203.2mm)	14.591 (370.6mm)	6.705 (170.3mm)	5.571 (141.5mm)	90°	100	Casement Hinge
77018-013HD	18" (457.2mm)	18.5 (469.9mm)	8.0 (203.2mm)	16.591 (421.4mm)	9.016 (229.0mm)	5.323 (135.2mm)	90°	100	Casement Hinge

Super Heavy Duty 5-Bar Hinges (015SS Series)

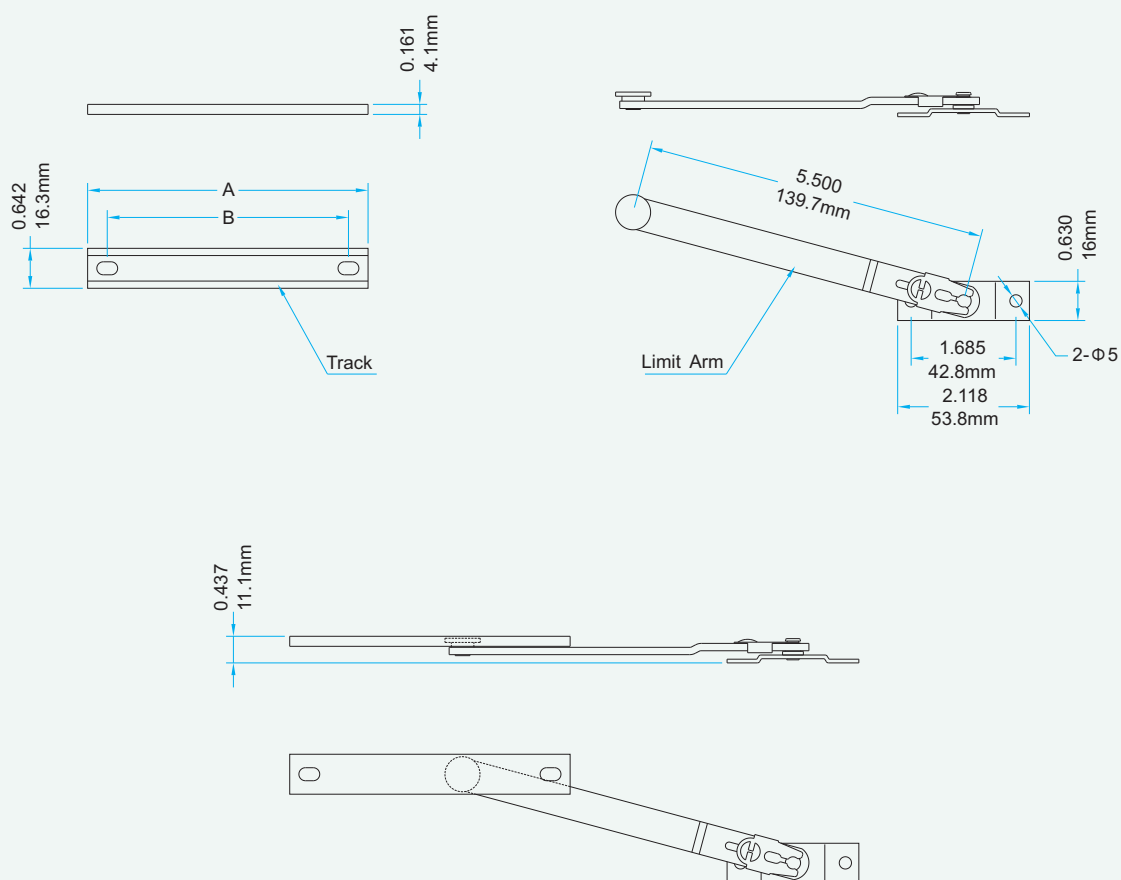
NOTE:

1. 77018—Stainless steel material and hinge, length (18")
2. 015—4-bar hinge series
3. HD—Heavy duty (HD)
4. SP—STD. stop(SP)
5. NP—No stop(NP)



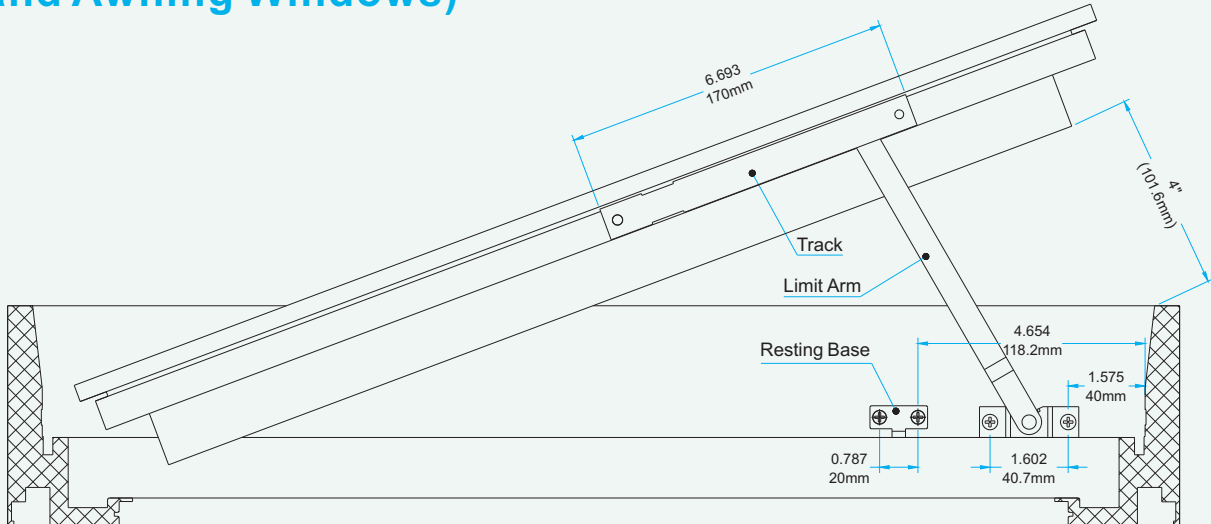
Part Number		F						Degree of Opening			
STD. STOP	NO STOP	HINGE LENGTH	A	B	C	STD. STOP D	NO STOP E	STD. STOP	NO STOP	STD. STOP	NO STOP
77018-015HD-SP	77018-015HD-NP	18" (457.2mm)	18.5" (469.9mm)	7.938 (201.6mm)	16.591 (421.4mm)	8.312 (211.1mm)	3.125 (79.3mm)	5.851 (147.7mm)	12.252 (311.2mm)	49°	77°
77020-015HD-SP	77020-015HD-NP	20" (508.0mm)	20.5" (520.7mm)	8.938 (227.0mm)	18.591 (472.2mm)	9.625 (244.4mm)	3.625 (92.0mm)	6.508 (165.3mm)	13.811 (350.8mm)	49°	77°
77024-015HD-SP	77024-015HD-NP	24" (609.6mm)	24.5" (622.3mm)	10.938 (277.8mm)	22.591 (573.8mm)	13.500 (342.9mm)	4.625 (117.4mm)	6.516 (165.5mm)	16.732 (425.0mm)	45°	77°
77028-015HD-SP	77028-015HD-NP	28" (711.2mm)	28.5" (723.9mm)	12.938 (335.0mm)	26.591 (675.4mm)	17.000 (431.8mm)	N/A	6.972 (177.1mm)	N/A	40°	N/A

Limit Device

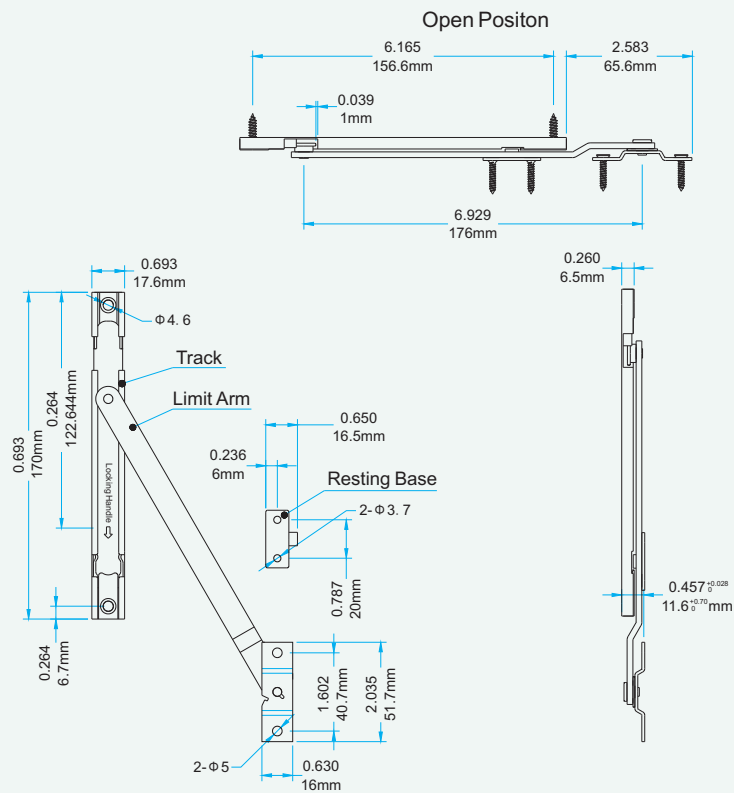


Part Number	A	B
70001	4.508"	3.878"
70002	6.300"	5.670"

WOCD (Window Opening Control Device for Casement and Awning Windows)



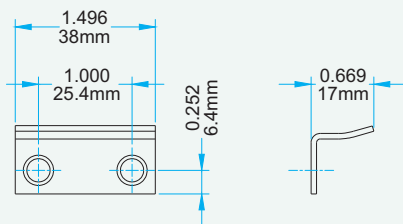
Right Hand Shown



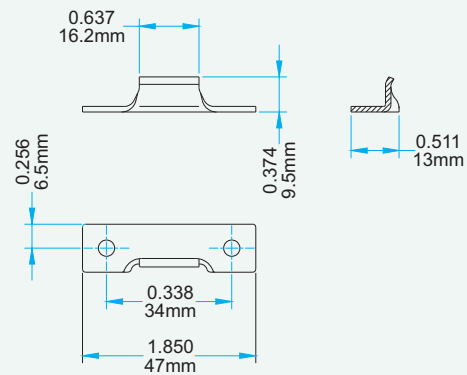
Part Number	Material	Match Color	Description
WOCD701-RH	Steel	Red	Casement and awning window opening control device, Right handed, Steel
WOCD701-LH	Steel	Green	Casement and awning window opening control device, Left handed, Steel
WOCD701-304-RH	SST	Red	Casement and awning window opening control device, Right handed, Stainless Steel
WOCD701-304-LH	SST	Green	Casement and awning window opening control device, Left handed, Stainless Steel

Snubbers

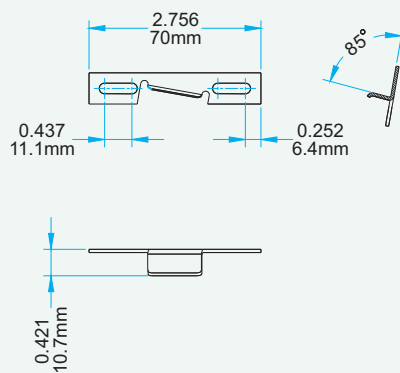
19091 \ 7091



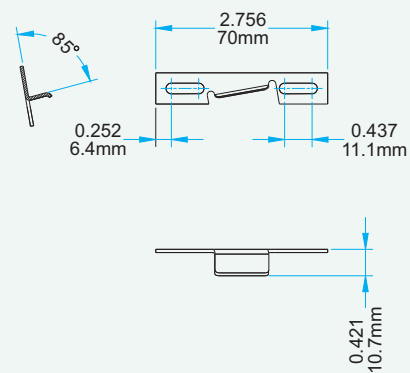
19092 \ 7092



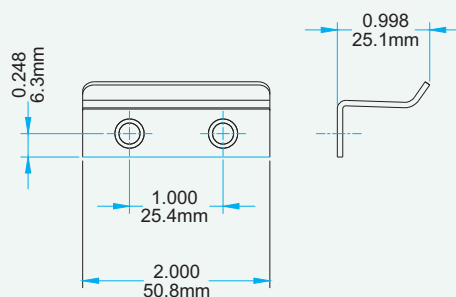
190001



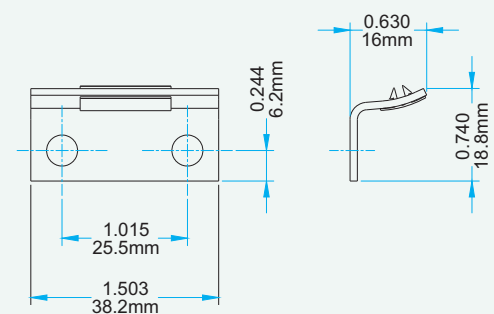
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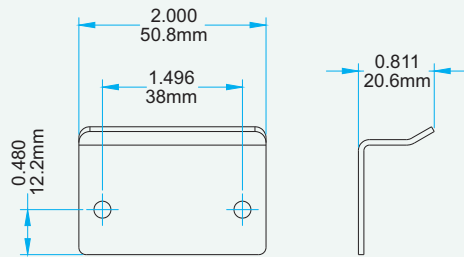
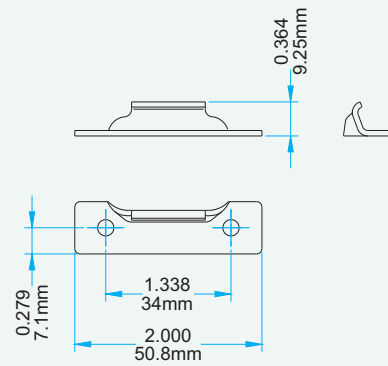
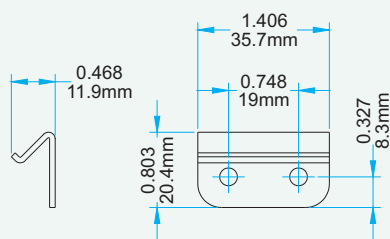
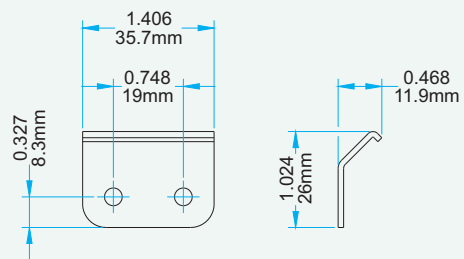


190102 \ 90102 \ 70102

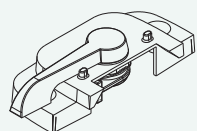


190010



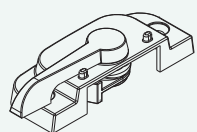
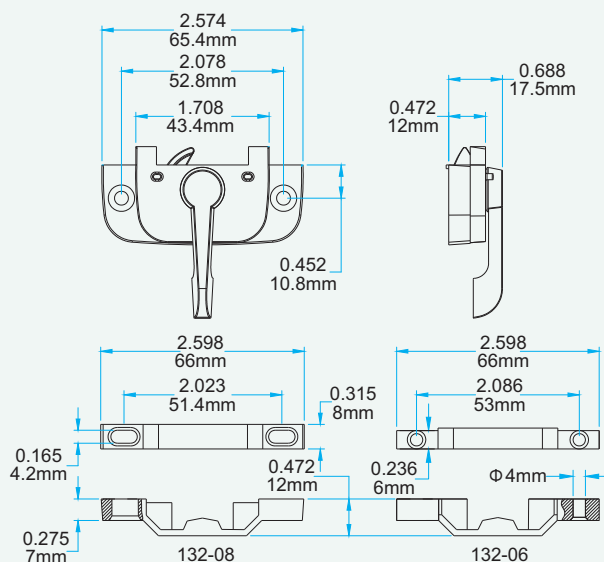
19093 \ 7093

190011 \ 70011

19097 \ 7097

19098 \ 7098


Sash Locks With Keeper



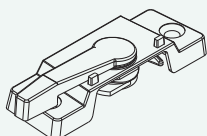
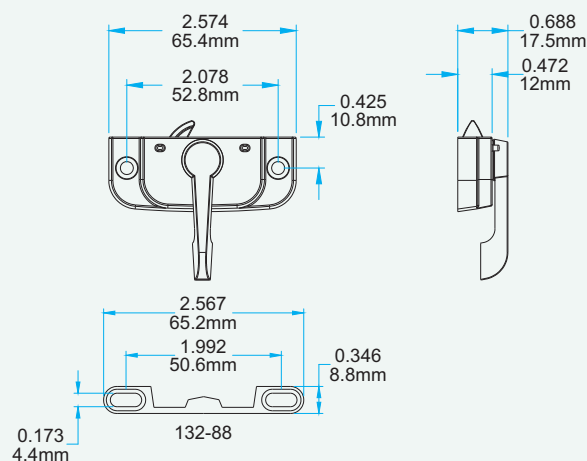
Right Hand Shown

Part Number	Model	Hand
132-100	100	RH
132-101	101	LH



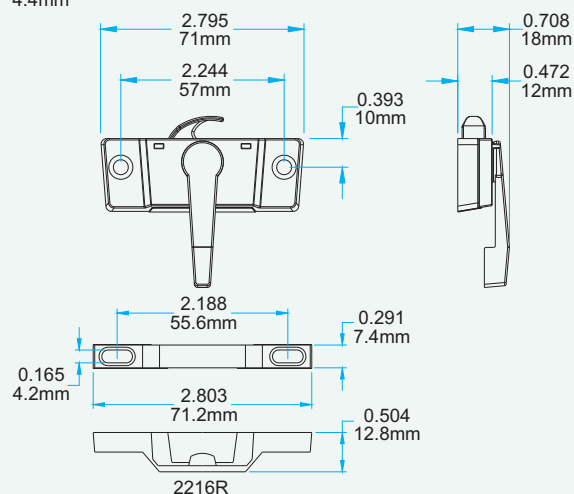
Right Hand Shown

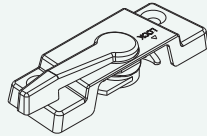
Part Number	Model	Hand
132-200	200	RH
132-201	201	LH



Right Hand Shown

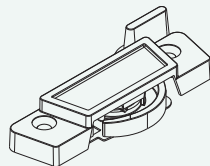
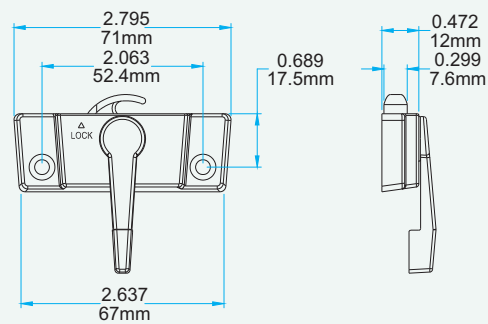
Part Number	Model	Hand
132-220	220	RH
132-221	221	LH





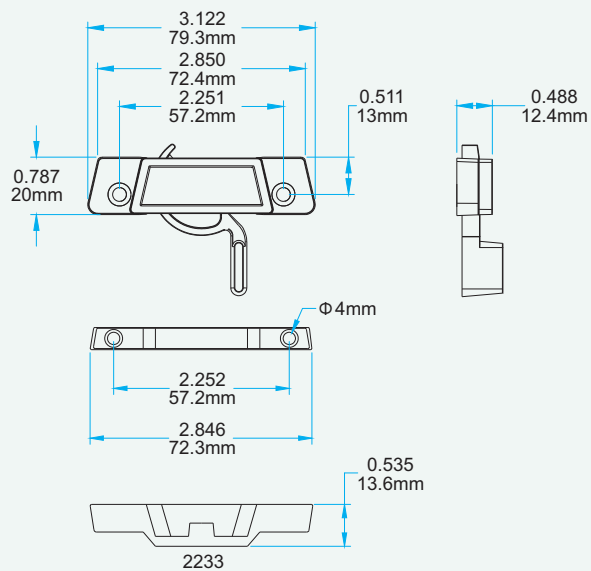
Left Hand Shown

Part Number	Model	Hand
132-210R	210	RH
132-210L	210	LH

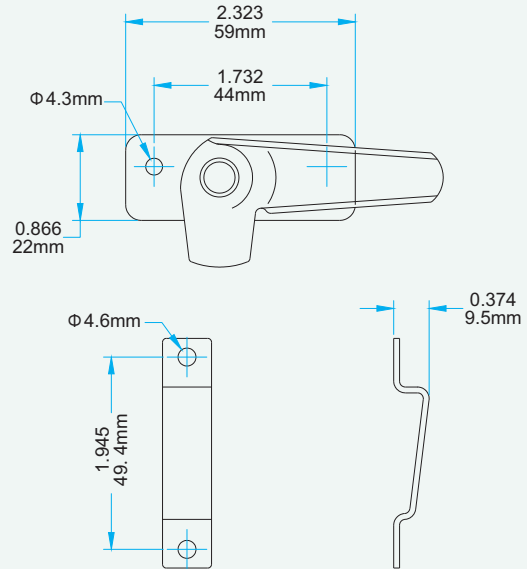
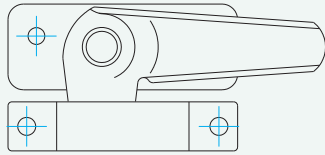


Right Hand Shown

Part Number	Model	Hand
132-300	300	RH
132-301	301	LH



Awning Level Lock

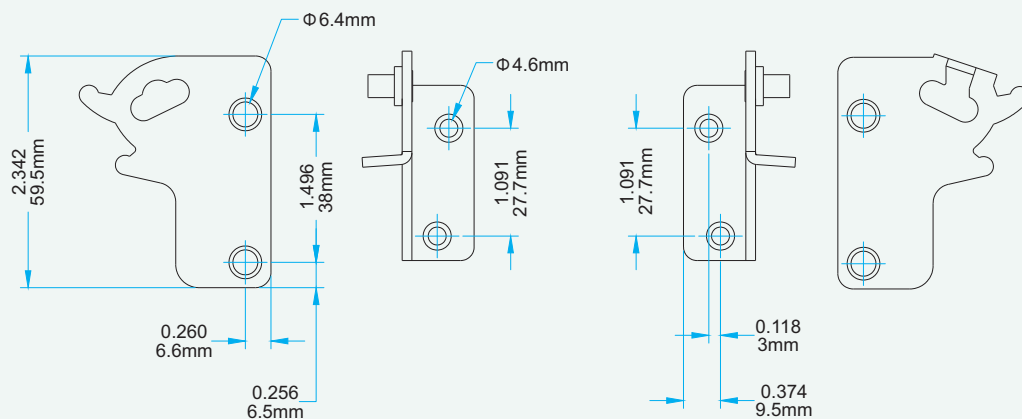


Part Number	Model	Hand
132-678R1	Stell	Non
132-7777R1	SST	Non

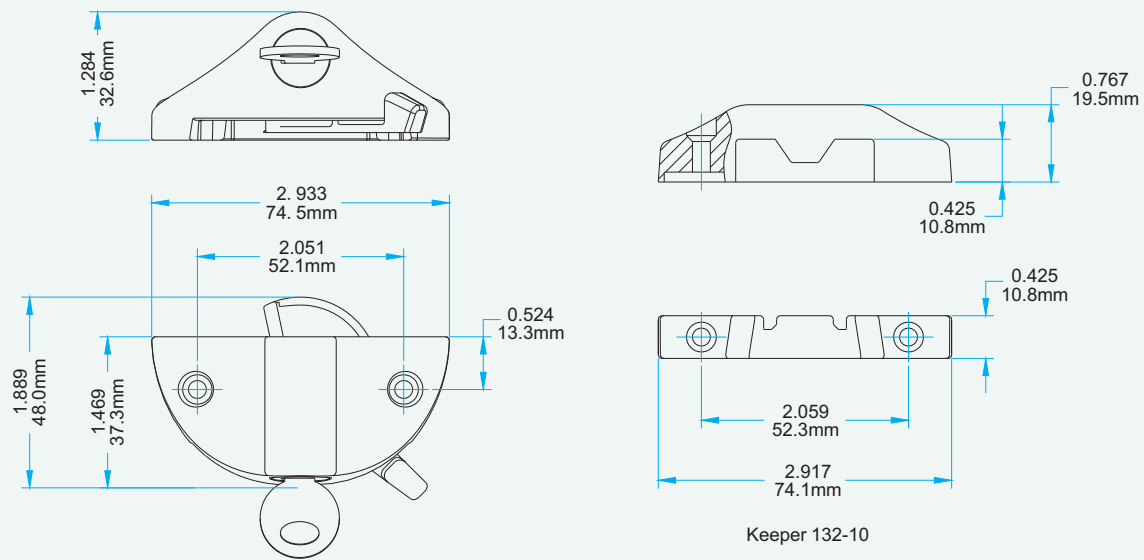
Hopper Hinge -Sidemount

Hopper Hinge L/H and R/H

Part Number	Model
132-680	Stell
132-7800	SST

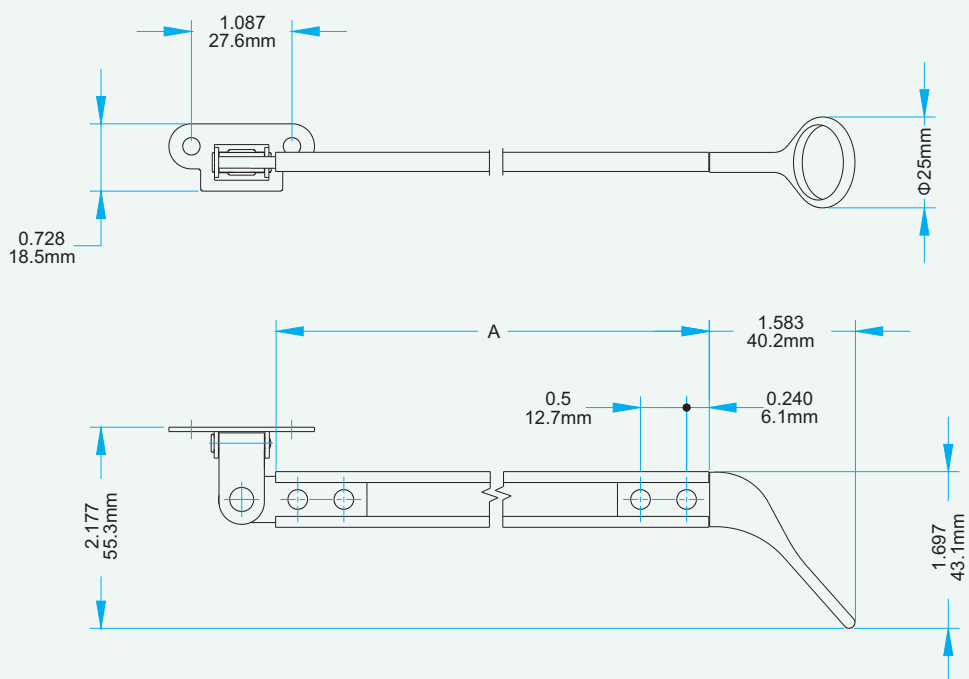
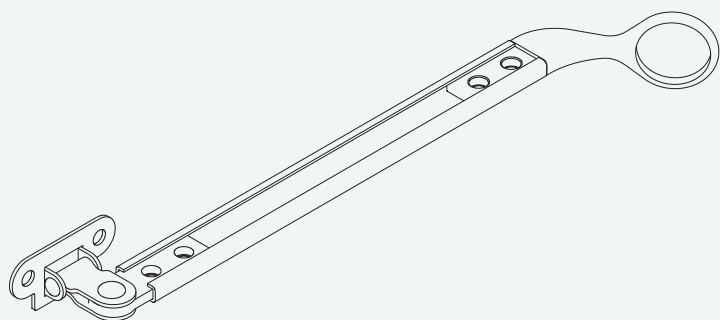


Sash Lock With Key



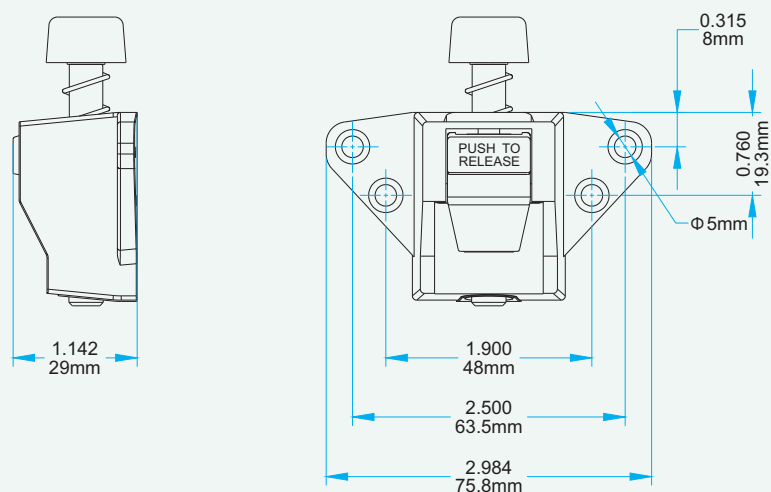
Part Number	Model	Hand
132-500	500	Non

Push Bar Operator

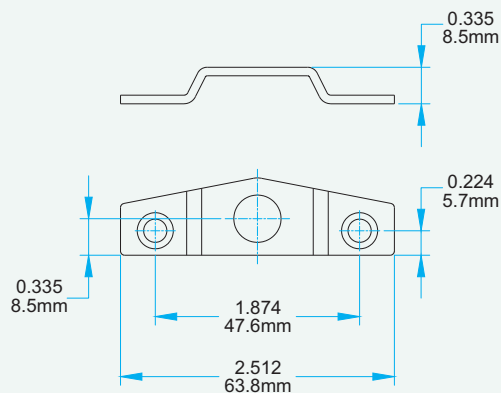


Part Number	A	Hand
132-521	6"	Non
132-522	12"	Non

Winged Base Foot Lock Kit



Foot Lock Keepers



Pan Head Screws



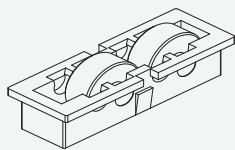
ST4.2×25

Part Number: 132-531

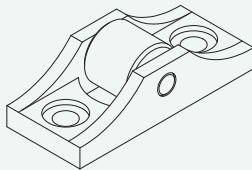
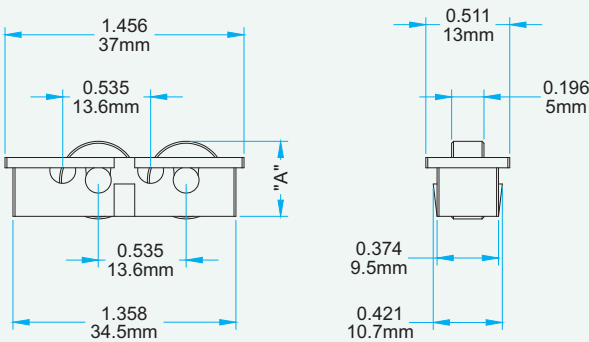
Includes

- (1) Winged Baes Foot Lock Kit
- (2) Foot Lock Keepers
- (8) ST4.2×25 Pan Head Screws

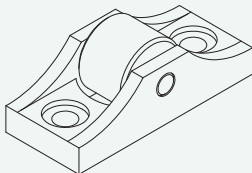
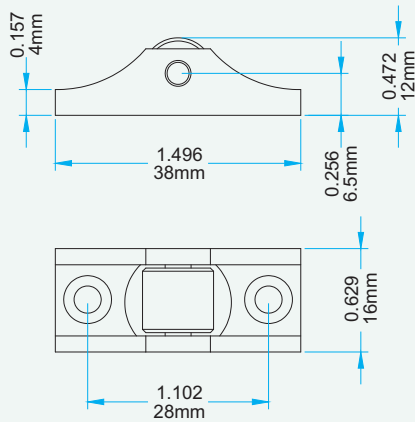
Slider Wheels



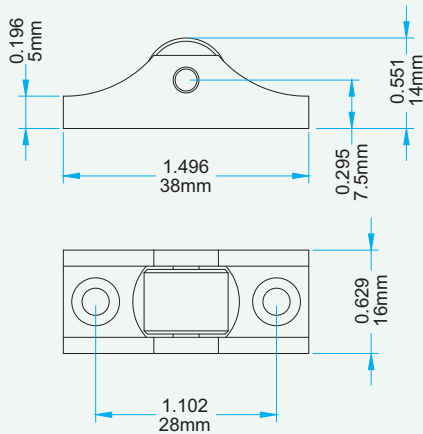
Part Number	Material	Finish	"A"
2001-L	Brass	Chrome Plated	0.466"
2001-H	Brass	Chrome Plated	0.515"

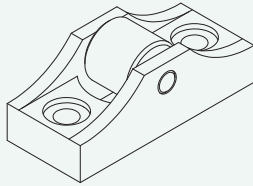


Part Number	Material	Finish
2012	Brass	Chrome Plated

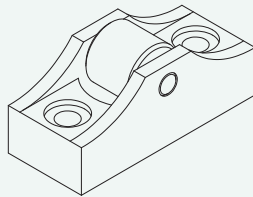
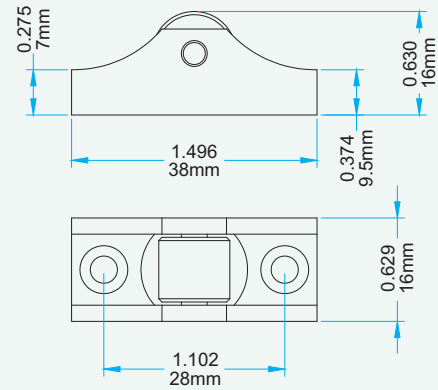


Part Number	Material	Finish
2014	Brass	Chrome Plated

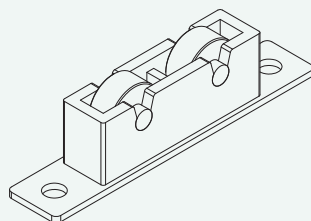
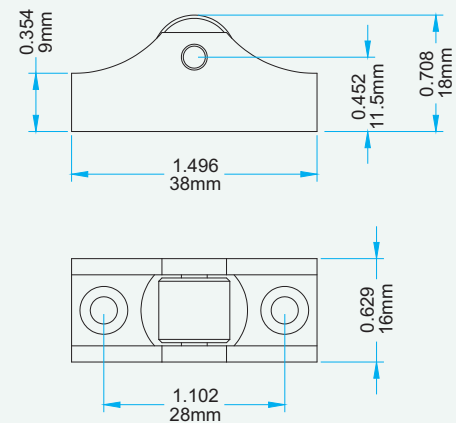




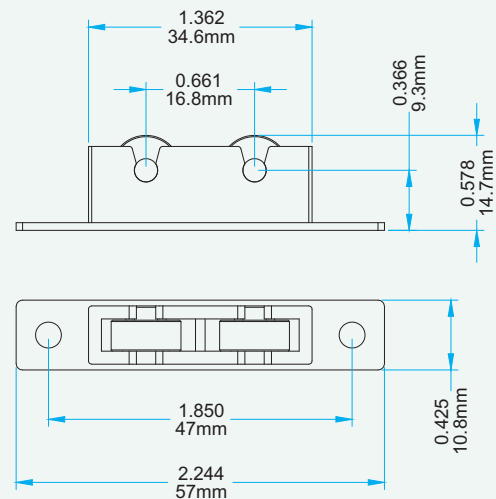
Part Number	Material	Finish
2016	Brass	Chrome Plated



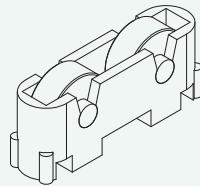
Part Number	Material	Finish
2018	Brass	Chrome Plated



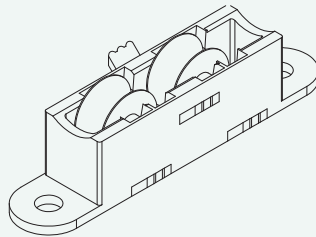
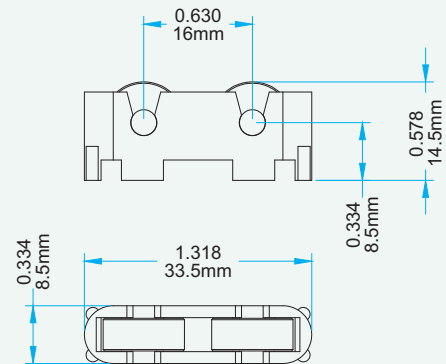
Part Number	Material	Finish
2035	Brass	Chrome Plated



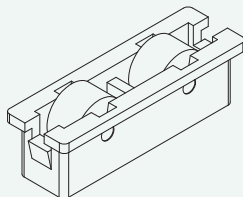
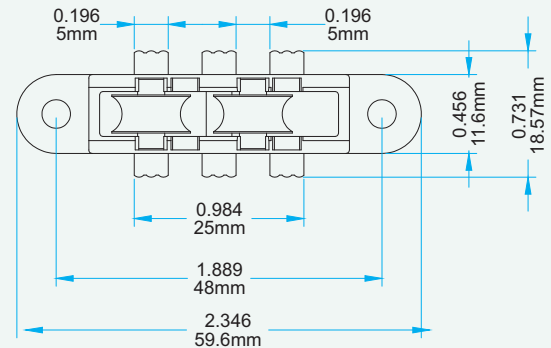
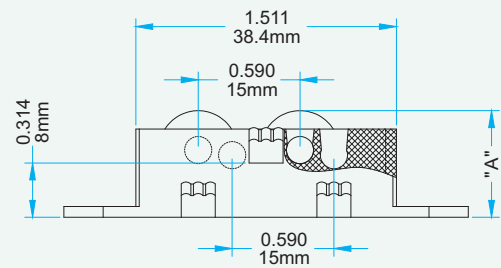
Slider Wheels



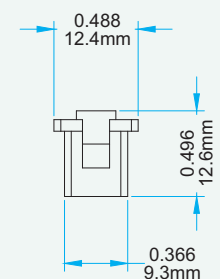
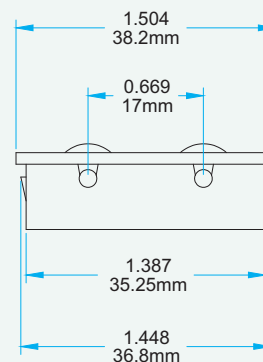
Part Number	Material	Finish
2038	Brass	Chrome Plated

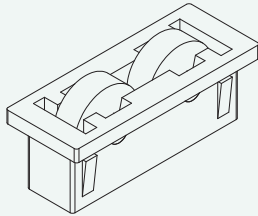


Part Number	Material	Finish	"A"
206500R1-L	Brass	Chrome Plated	0.588"
206500R1	Brass	Chrome Plated	0.618"

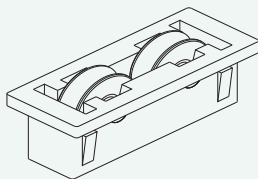
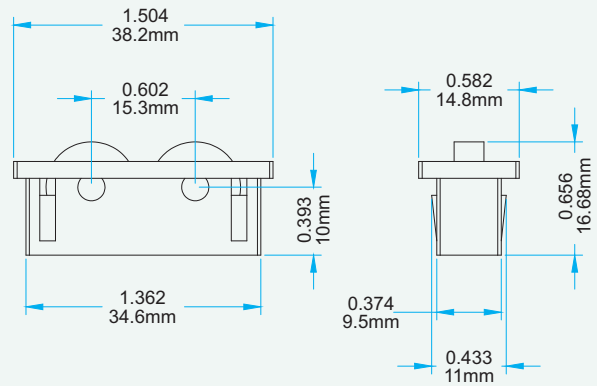


Part Number	Material
20012	Brass

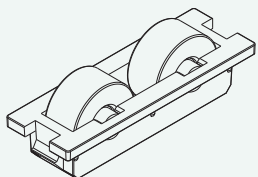
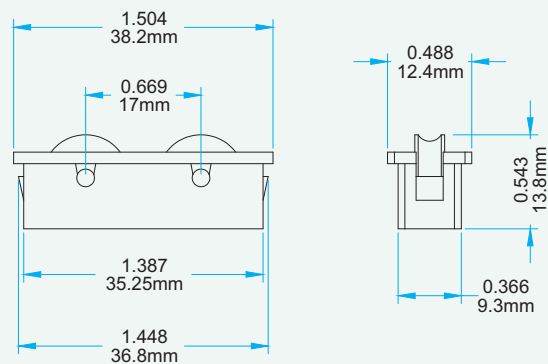




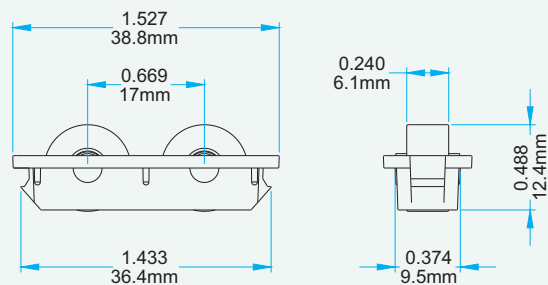
Part Number	Material
20014	Brass



Part Number	Material
20015	Brass

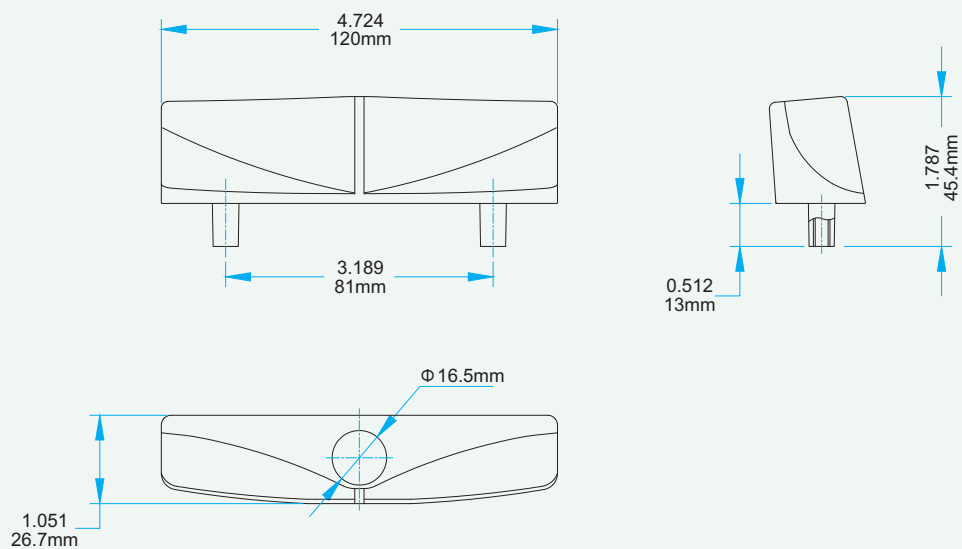


Part Number	Material
20016	Brass

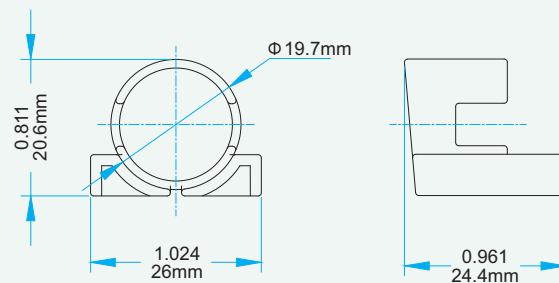


Sliding Door Handle-External&Retainer Cap

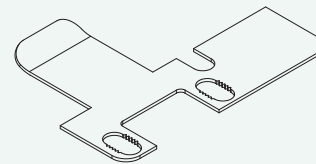
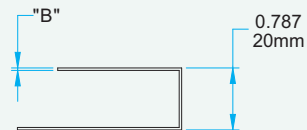
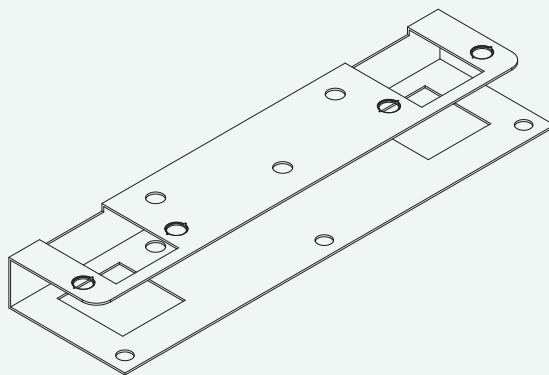
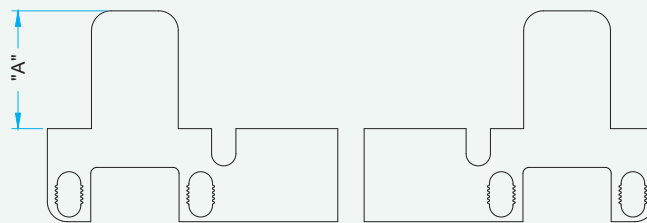
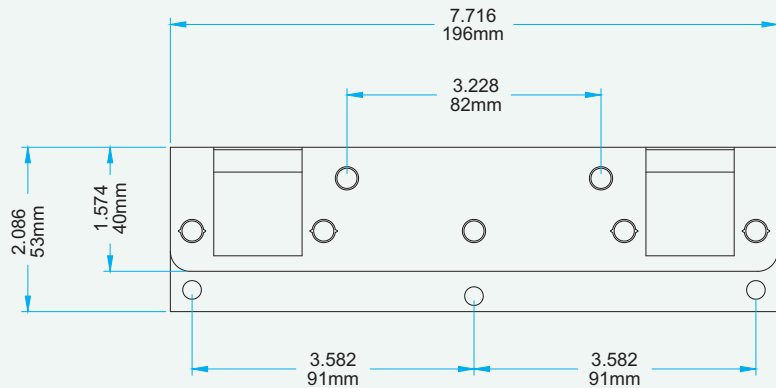
30004



20086

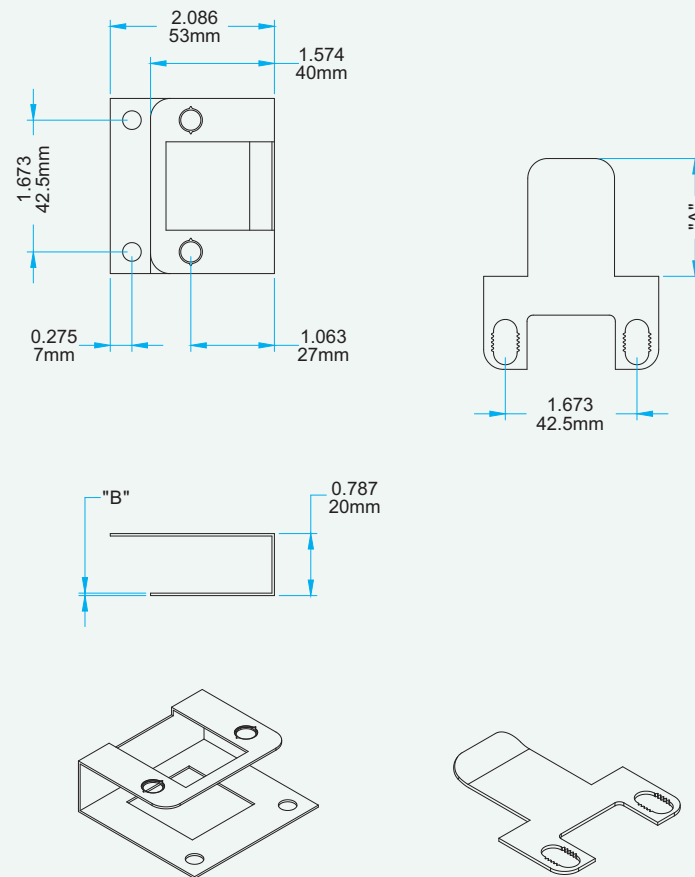


Door Striker



Product Name	Part Number	"A"	"B"	Material	Type
OutSwing Double Door Striker	4440	1.496"	0.031"	SST	
InSwing Double Door Striker	4441	0.787"	0.031"	SST	
OutSwing Double Door Striker	5550	1.496"	0.031"	Steel	Brassfinish
InSwing Double Door Striker	5551	0.787"	0.031"	Steel	Brassfinish
OutSwing Double Door Striker	4440-1	1.496"	0.047"	SST	
InSwing Double Door Striker	4441-1	0.787"	0.047"	SST	
OutSwing Double Door Striker	5550-1	1.496"	0.047"	Steel	Brassfinish
InSwing Double Door Striker	5551-1	0.787"	0.047"	Steel	Brassfinish

Door Striker

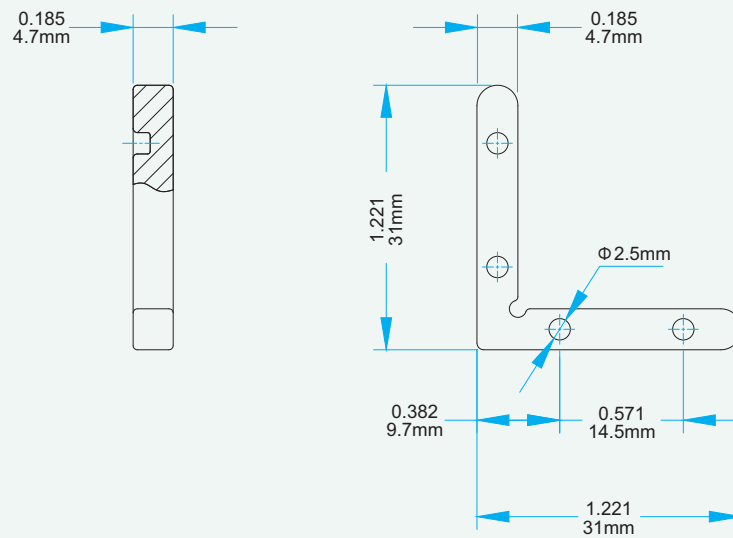


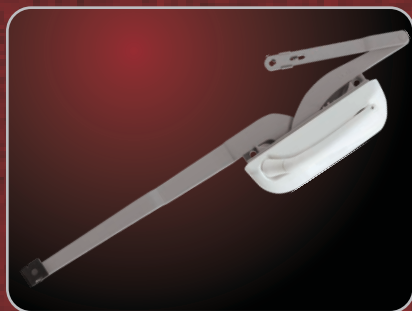
Product Name	Part Number	"A"	"B"	Material	Type
OutSwing Single Door Striker	6660	1.496"	0.031"	Steel	Brassfinish
InSwing Single Door Striker	6661	0.787"	0.031"	Steel	Brassfinish
OutSwing Single Door Striker	7770	1.496"	0.031"	SST	
InSwing Single Door Striker	7771	0.787"	0.031"	SST	
OutSwing Single Door Striker	1600	1.496"	0.031"	Steel	Chrome Plated
InSwing Single Door Striker	1601	0.787"	0.031"	Steel	Chrome Plated
OutSwing Single Door Striker	6660-1	1.496"	0.047"	Steel	Brassfinish
InSwing Single Door Striker	6661-1	0.787"	0.047"	Steel	Brassfinish
OutSwing Single Door Striker	7770-1	1.496"	0.047"	SST	
InSwing Single Door Striker	7771-1	0.787"	0.047"	SST	
OutSwing Single Door Striker	1600-1	1.496"	0.047"	Steel	Chrome Plated
InSwing Single Door Striker	1601-1	0.787"	0.047"	Steel	Chrome Plated



Sash Corner Key

30001





ISO9001:2008 Certified

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