



F.A.S.T. DISTRIBUTOR

Park Brake Levers & Cables



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PARKING BRAKE LEVERS

Orscheln hand levers are designed on the principle of variable mechanical advantage, and therefore, variable hand effort. During the initial movement of the lever from the “off” to the “on” position, there is great linear movement compared to the output effort. As the lever approaches the “on” position, the output effort becomes greater in comparison to the linear movement. As the lever passes over center, or toggle position, the mechanical advantage is theoretically infinite.

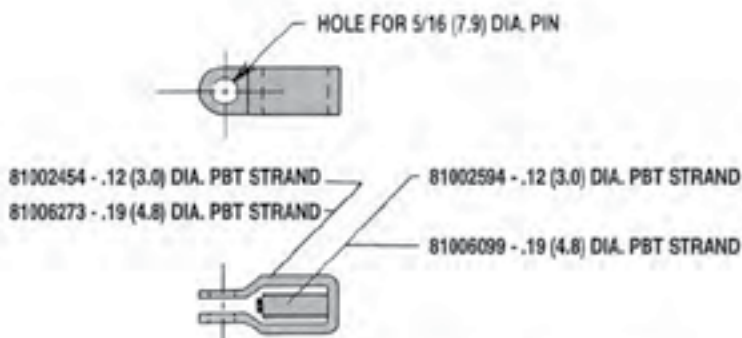
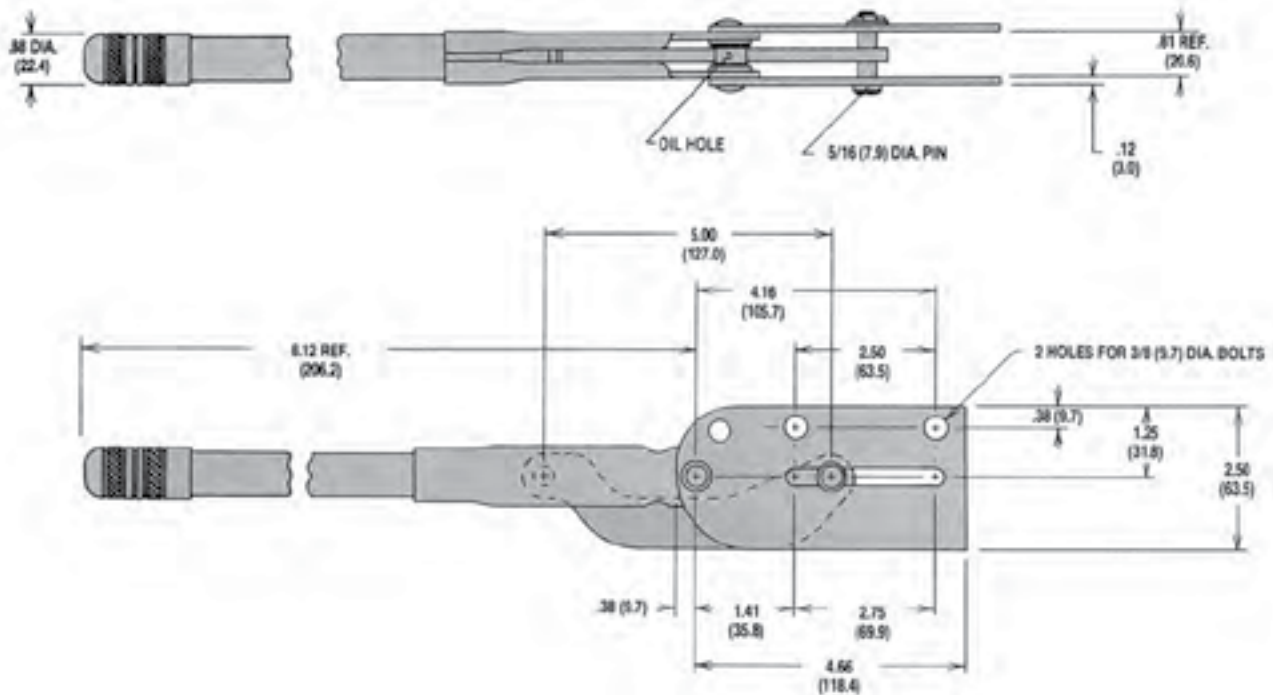
Orscheln hand levers also provide a screw-type adjustment feature which allows the operator to make system adjustments. This is accomplished by simply turning the adjustment knob on the lever handle. Orscheln’s standard levers are shown in this section. Using these standard levers where possible can generally provide shorter lead-times and lower costs. When custom designs are needed, we offer many options and variations. The key characteristics to remember in designing a lever system include required lever output, mounting location, operator access, and handle effort. Mounting bracket design should be determined by travel, cable clamp pattern, and mounting preference.

HAND LEVERS

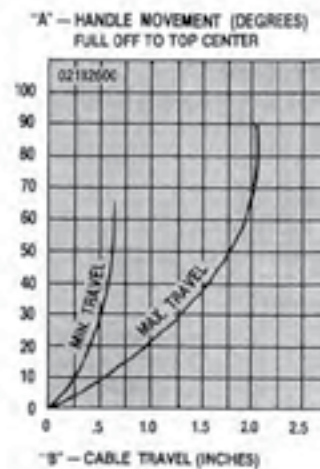
ORSCHELN LEVER NO. 02182600

Recommended Applications and Features:

Side Mount with Mounting Holes for Frame or Other Areas where Mounting Surface Structure will Support Brake Load. Usually Used with Rod Direct to Brake. Spacers Supplied.



THESE ARE RECOMMENDED CABLE PARTS FOR CONNECTING A CABLE TO THIS LEVER ASSEMBLY.

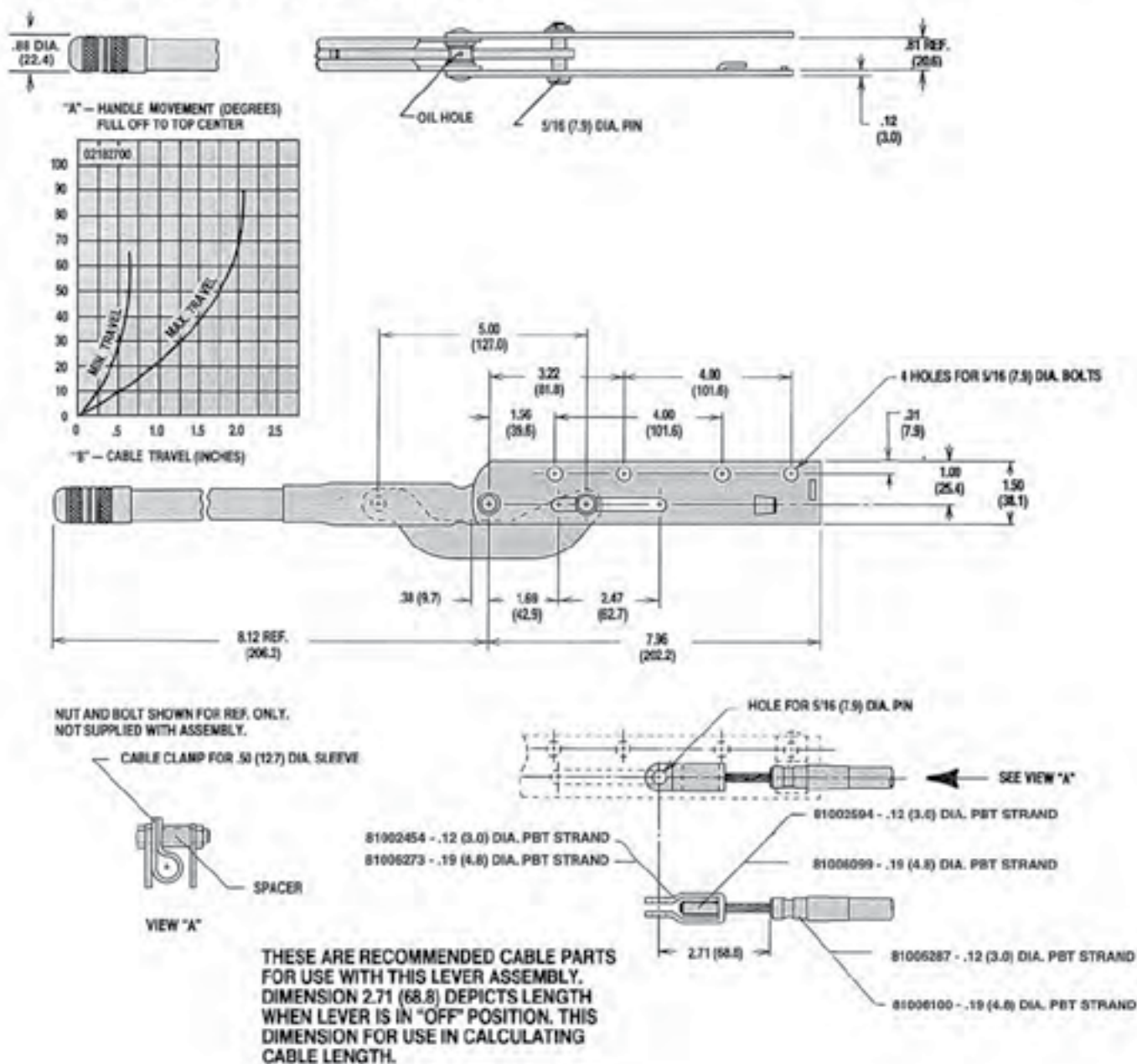


HAND LEVERS

ORSCHELN LEVER NO. 02182700

Recommended Applications and Features:

Side Mount with Alternate Sets of Mounting Holes for Cowl, Instrument Panel, Seat Riser and Frame Installations. Use with One Cable. With Mounting Hole for Cable Clamp. Clamp and Spacers Supplied.

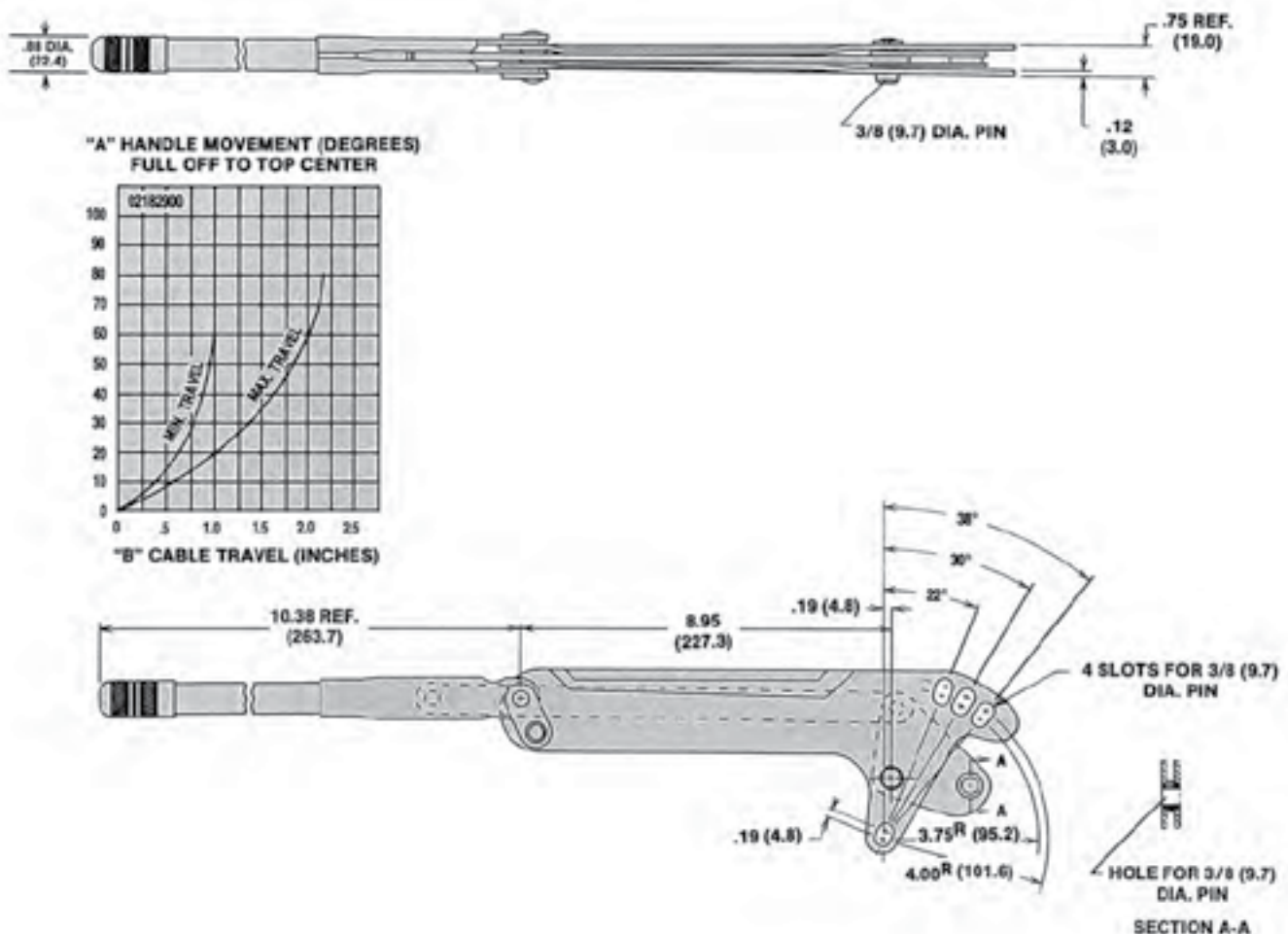


ORSCHLN LEVER NO. 02182900

Recommended Applications and Features:

**Transmission Mount Type for Mounting on Transmission Bosses, Frames, etc.
Bellcrank Changes Travel 90 Degrees without Load Loss.**

Normally Used with Rod, can be Used with Cable by Attaching Strand with Clevis to Bellcrank and Conduit to Common Mounting Surface. Mounting Spacers Supplied.

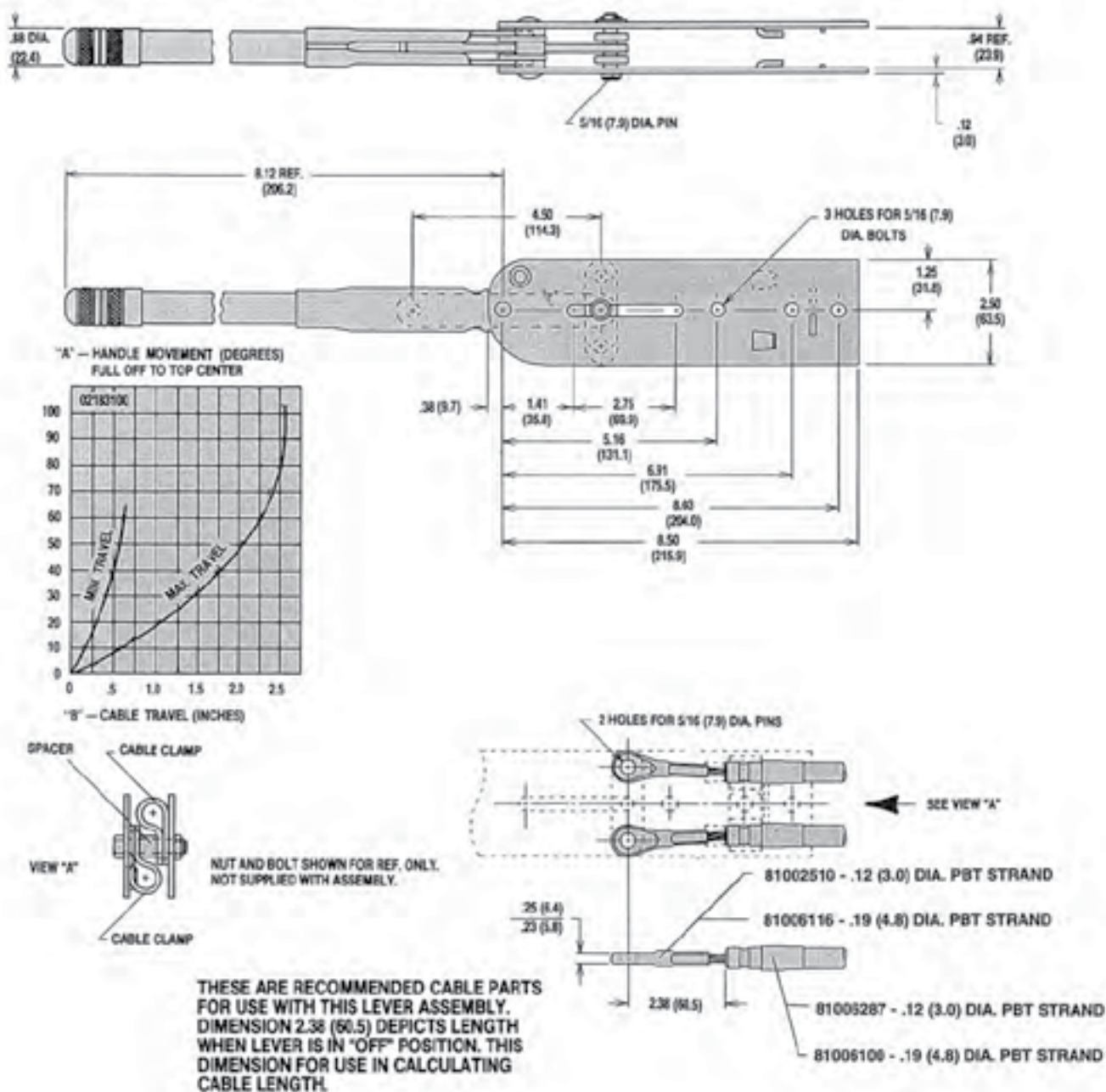


HAND LEVERS

ORSCHLN LEVER NO. 02183100

Recommended Applications and Features:

Side Mount for Cowl Instrument Panel, Seat Riser and Frame Installation.
For Use with 2 Cables. With Mounting Holes for Cable Clamps.
Equalizers, Pins, Clamps and Spacers Supplied.

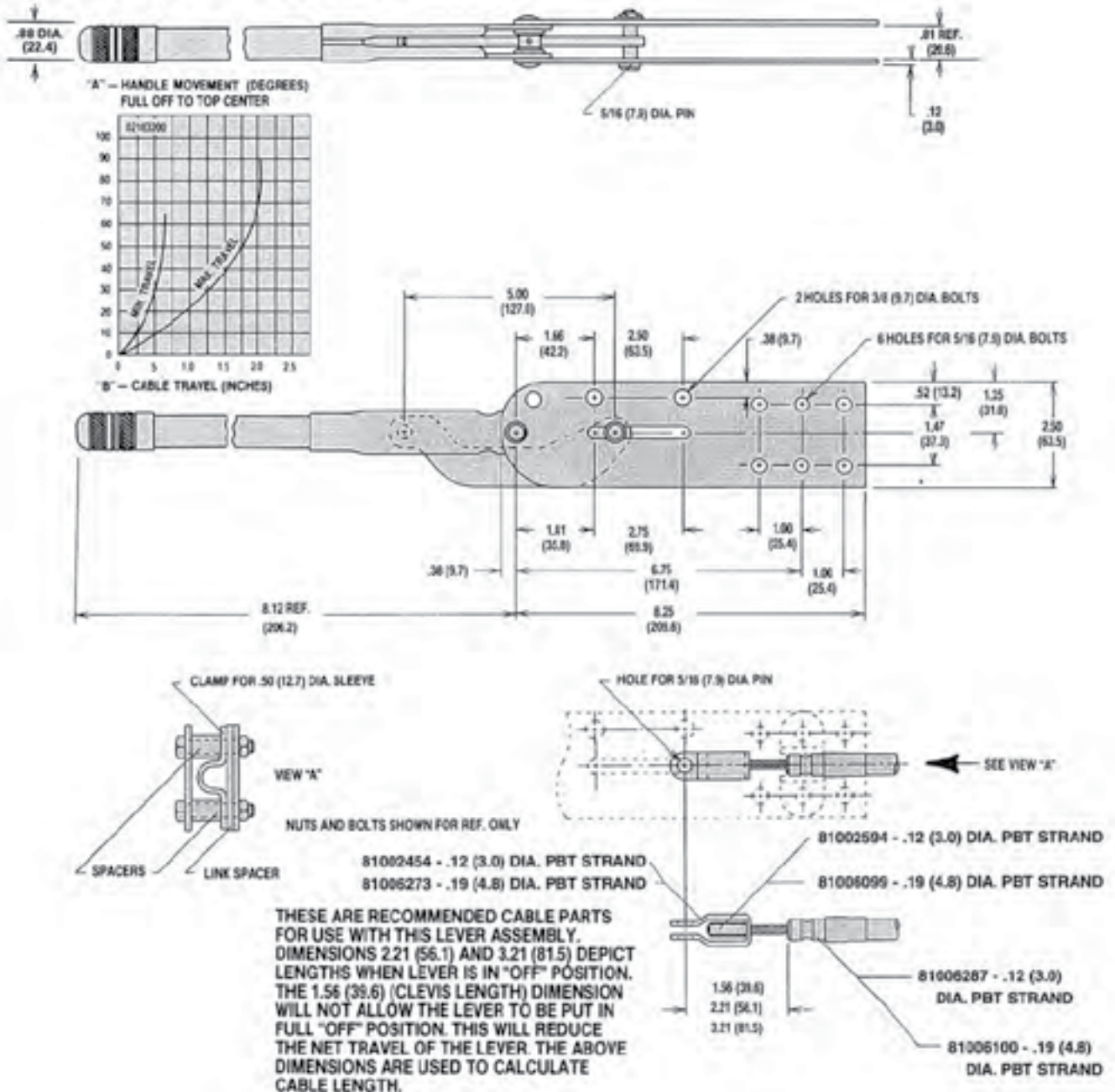


HAND LEVERS

ORSCHELN LEVER NO. 02183200

Recommended Applications and Features:

Side Mount for Cowl, Instrument Panel, Seat Riser and Frame Installations.
Use with One Cable. Supplied with alternate sets of cable clamp holes.
Clamp and spacers supplied.

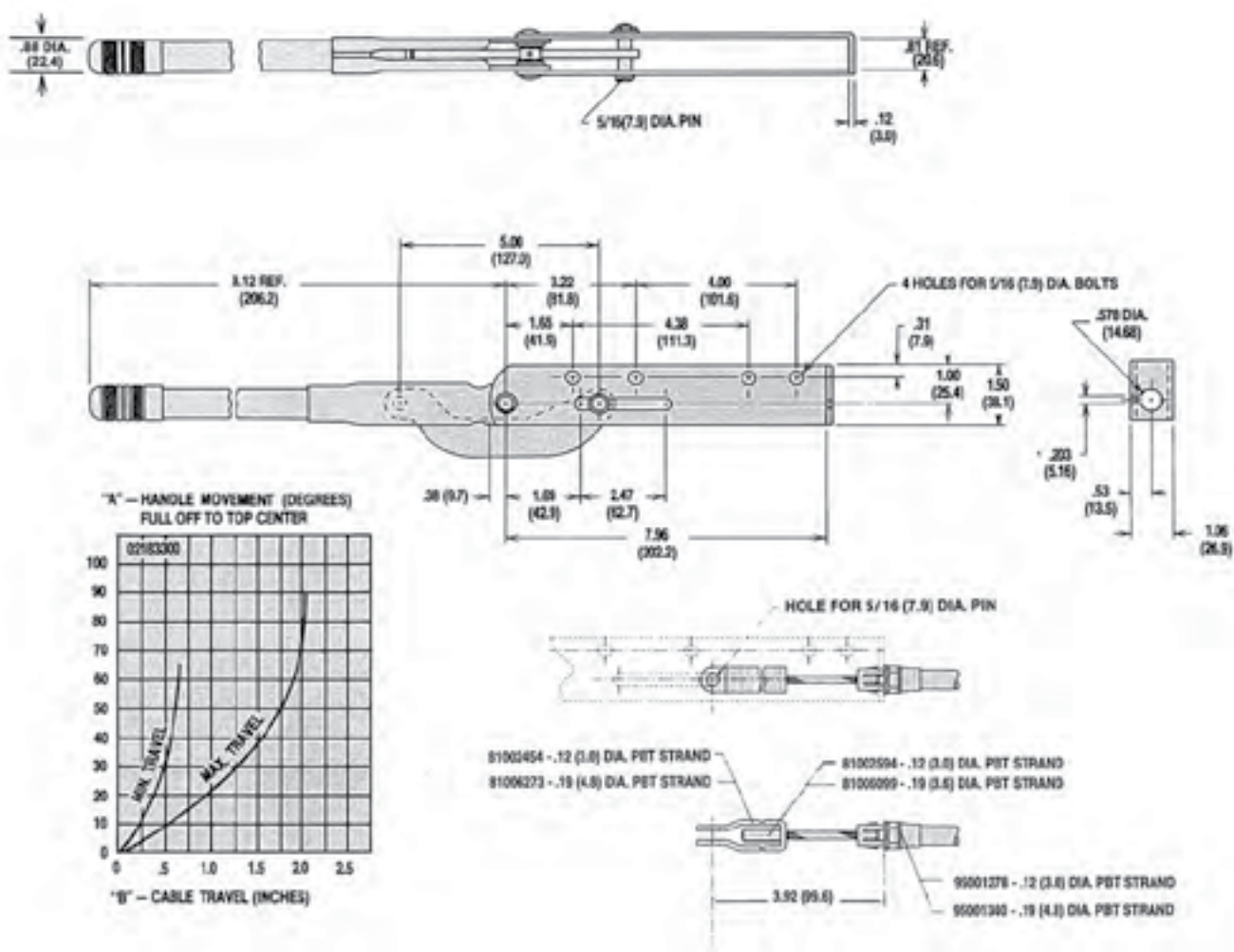


HAND LEVERS

ORSCHELN LEVER NO. 02183300

Recommended Applications and Features:

Side Mount with Alternate Sets of Mounting Holes for Cowl, Instrument Panel, Seat Risers and Frame Installations. Use with One Cable. Conduit Anchor Slot and Hole in Flange. Mounting Spacers Supplied.



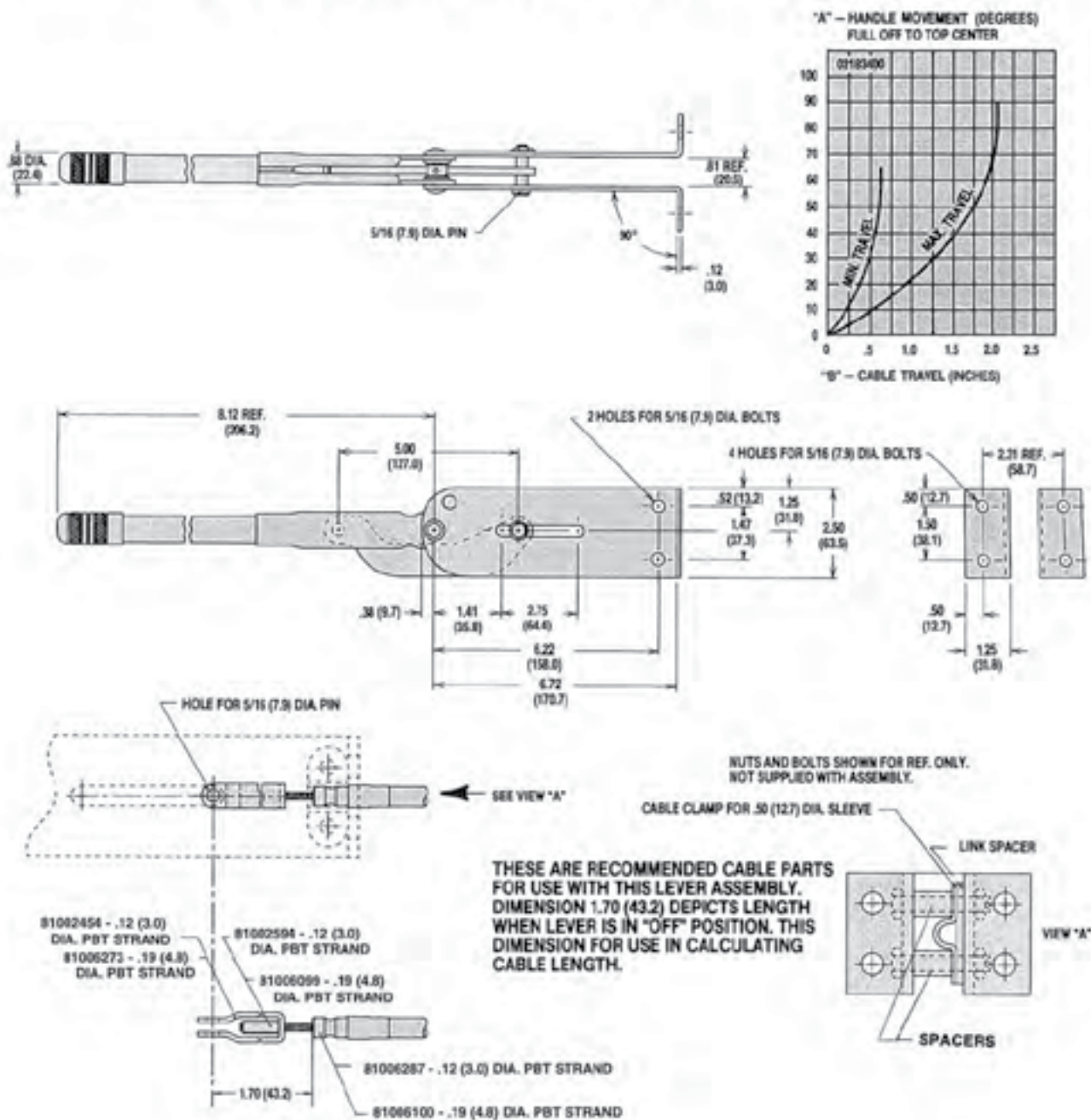
THESE ARE RECOMMENDED CABLE PARTS FOR USE WITH THIS LEVER ASSEMBLY. DIMENSION 3.12 (79.2) DEPICTS LENGTH WHEN LEVER IS IN "OFF" POSITION. THIS DIMENSION FOR USE IN CALCULATING CABLE LENGTH.

HAND LEVERS

ORSCHELN LEVER NO. 02183400

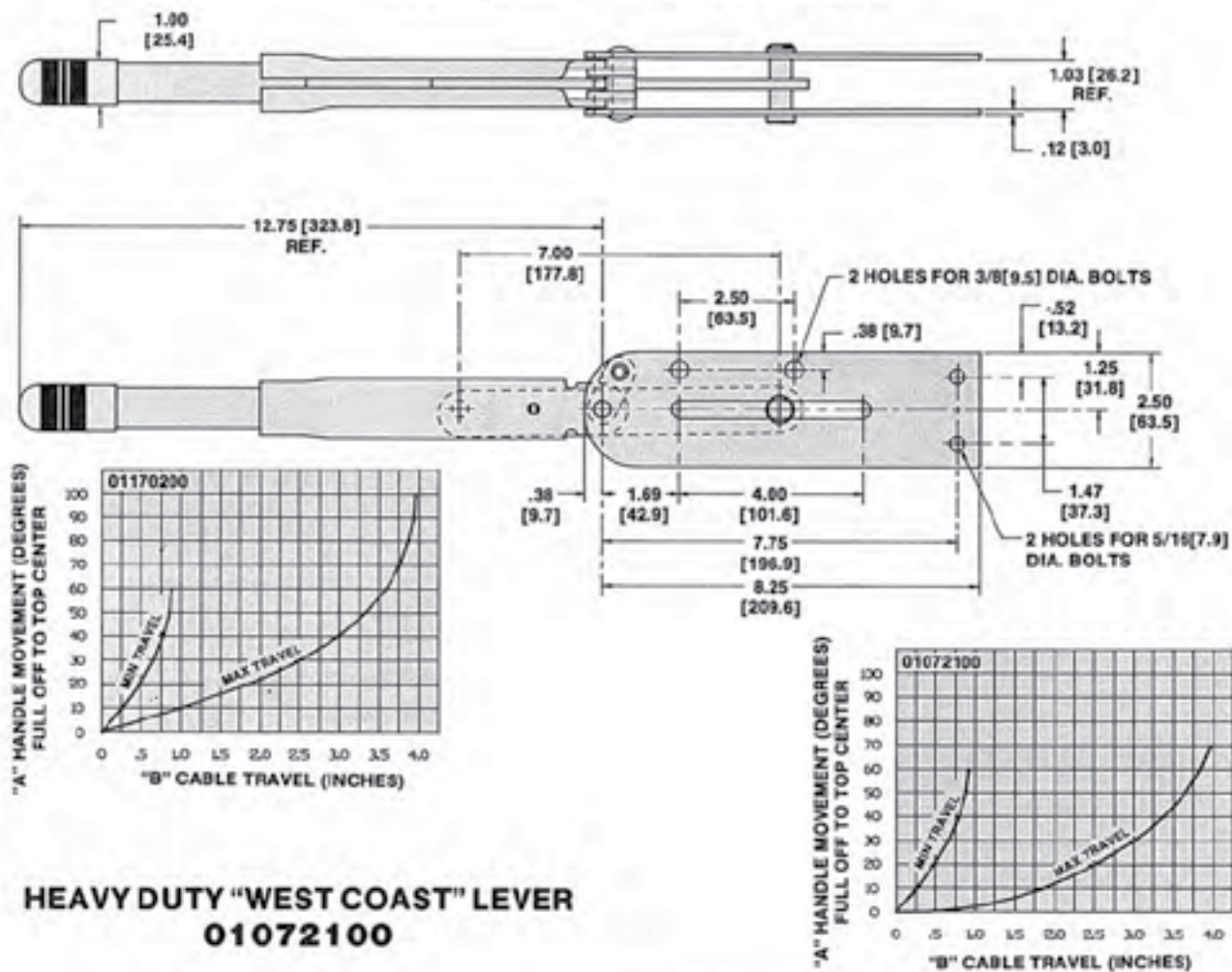
Recommended Applications and Features:

Flange Mount for Bulkhead, Island or Floor Installation. Use with One Cable.
With Mounting Holes for Cable Clamp. Clamp and Spacers Supplied.

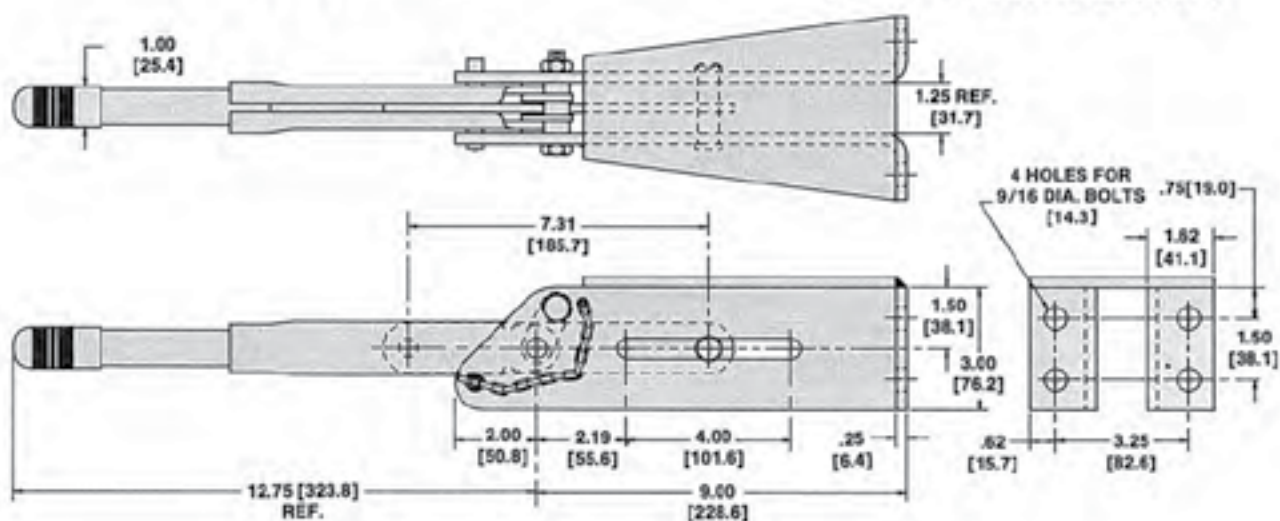


HAND LEVERS

"WEST COAST" LEVER 01170200

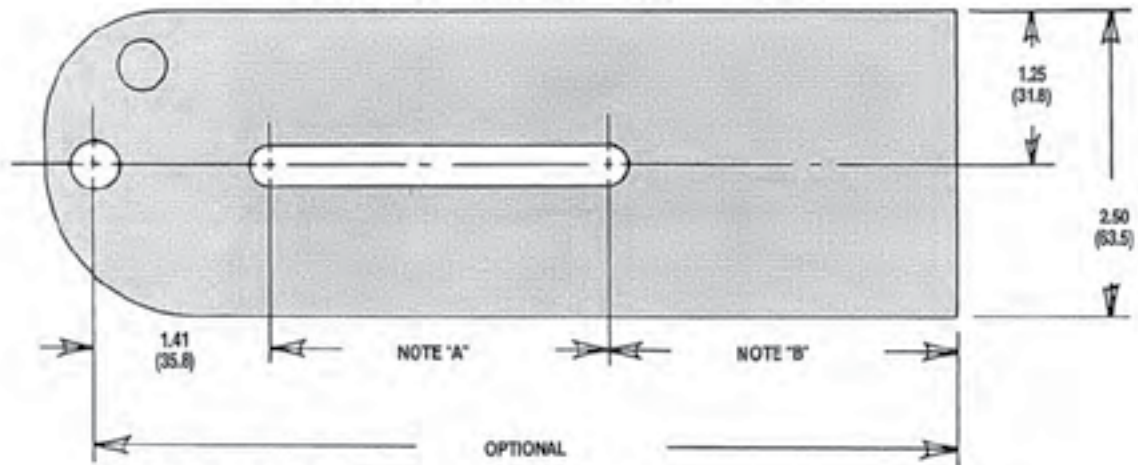


HEAVY DUTY "WEST COAST" LEVER 01072100



HAND LEVERS

MOUNTING BRACKETS

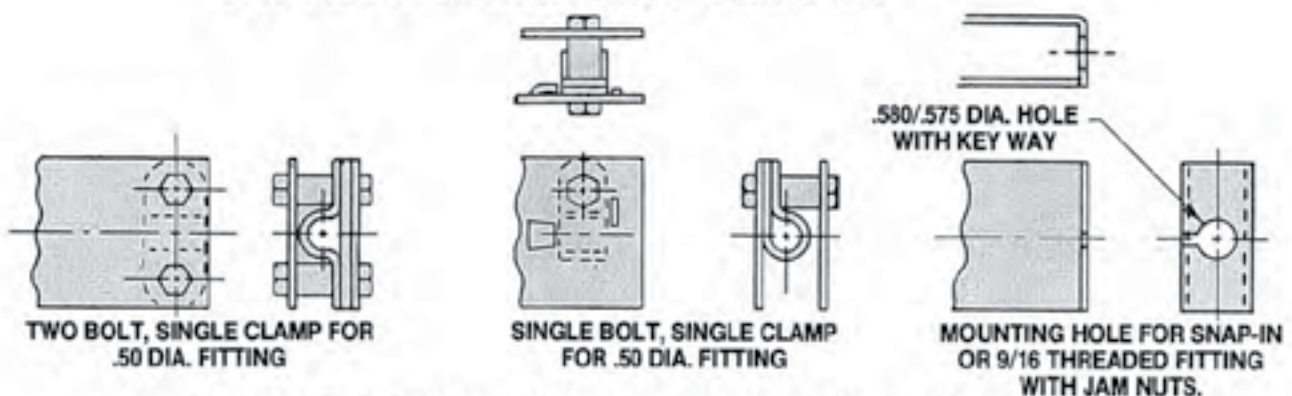


NOTE "A": SLOT OPTIONS

- 1) WITH STANDARD HANDLE, SLOT FOR 5/16 DIA. PIN, 2.75 LONG
- 2) WITH "WEST COAST" HANDLE, SLOT FOR 3/8 DIA. PIN, 4.00 LONG

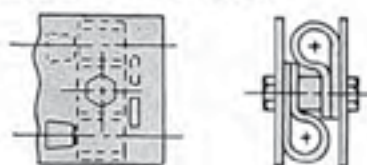
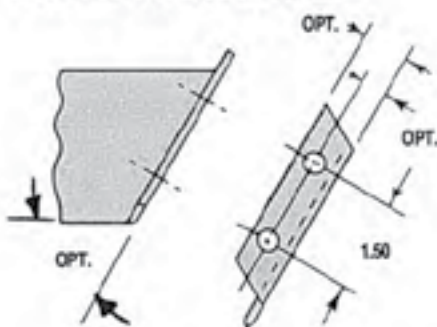
NOTE "B" CUSTOMER OPTION

THIS PORTION OF THE BRACKET IS FOR CUSTOMER OPTIONS.
MOUNTING HOLES CAN BE LOCATED AT ANY POINT. STANDARD BRACKET WILL
BE USED WHENEVER POSSIBLE WITH CUSTOMER APPROVAL.



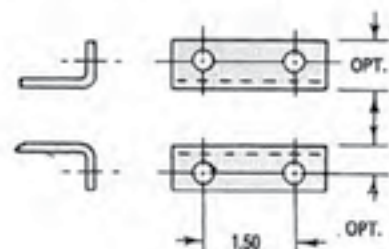
NOTE: CLAMPS AND SPACERS ARE PROVIDED AS ADDITIONAL PARTS WITH LEVER,
NUTS AND BOLTS ARE SHOWN AS REF. ONLY.

ANGULAR FLANGE
AVAILABLE WITH ANY SINGLE OR
DOUBLE CLAMP PATTERN



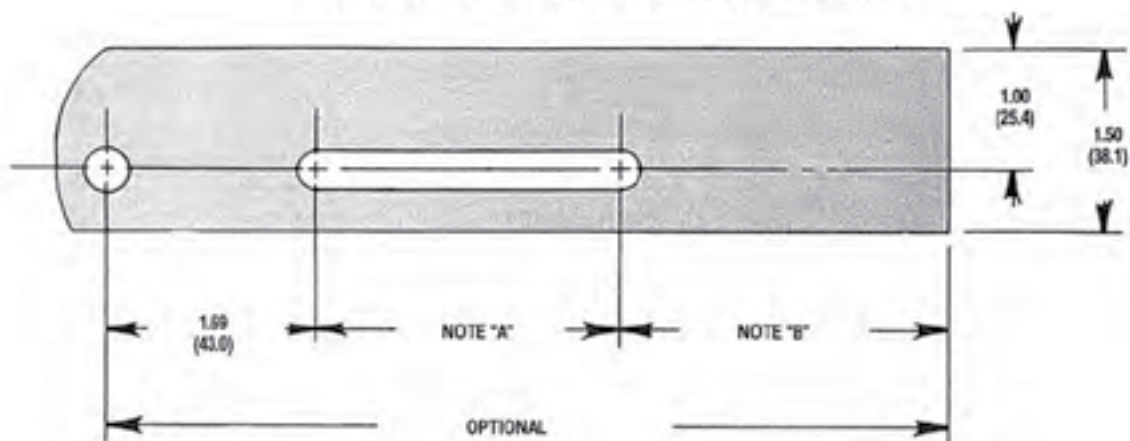
SINGLE BOLT, DOUBLE CLAMP
FOR .50 DIA. FITTINGS

90 DEGREE FLANGE
AVAILABLE WITH ANY SINGLE
OR DOUBLE CLAMP PATTERN



HAND LEVERS

MOUNTING BRACKETS

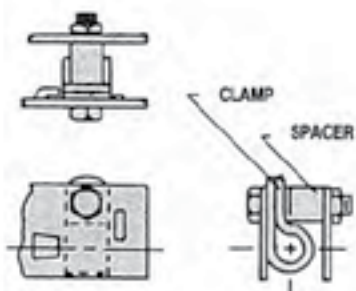


NOTE "A": SLOT OPTIONS

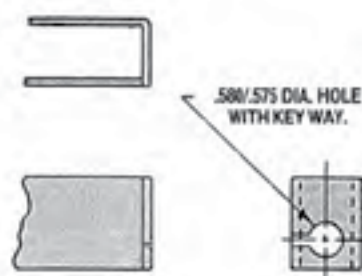
1) WITH STANDARD HANDLE, SLOT FOR 5/16 DIA. PIN, 2.47 LONG

NOTE "B": CUSTOMER OPTION

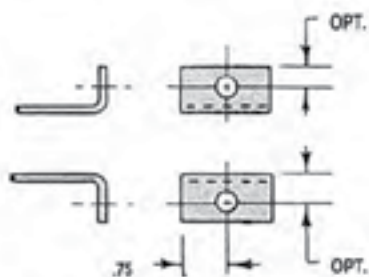
THIS PORTION OF THE BRACKET IS FOR CUSTOMER OPTIONS.
MOUNTING HOLES CAN BE LOCATED AT ANY POINT. STANDARD BRACKET WILL
BE USED WHENEVER POSSIBLE WITH CUSTOMER APPROVAL.



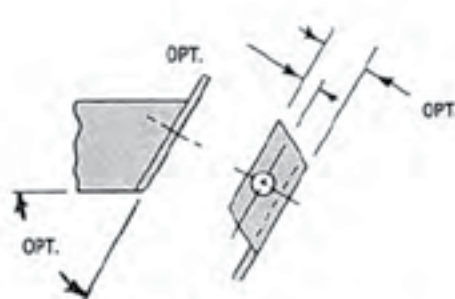
SINGLE CLAMP FOR .50 DIA. FITTING
CLAMP AND SPACER ARE ADDITIONAL PARTS
WITH LEVER.
NUT AND BOLT ARE SHOWN FOR REF. ONLY



**MOUNTING HOLE FOR SNAP-IN OR
9/16 THREADED FITTING WITH JAM NUTS**



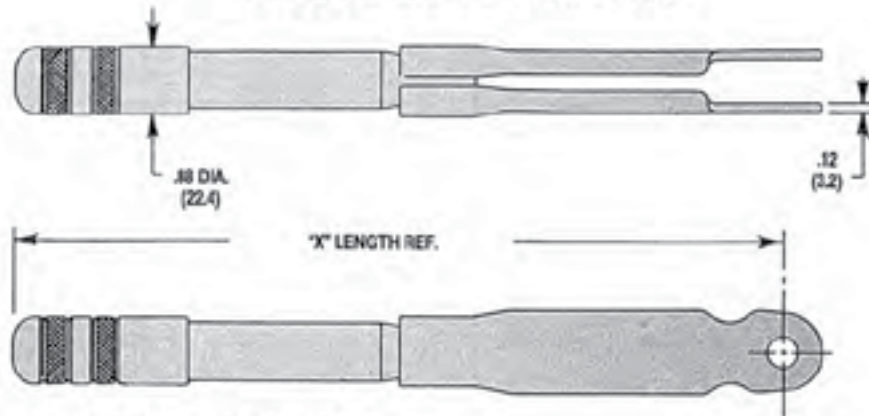
90 DEGREE FLANGE
AVAILABLE WITH SINGLE CLAMP



ANGULAR FLANGE
AVAILABLE WITH SINGLE CLAMP

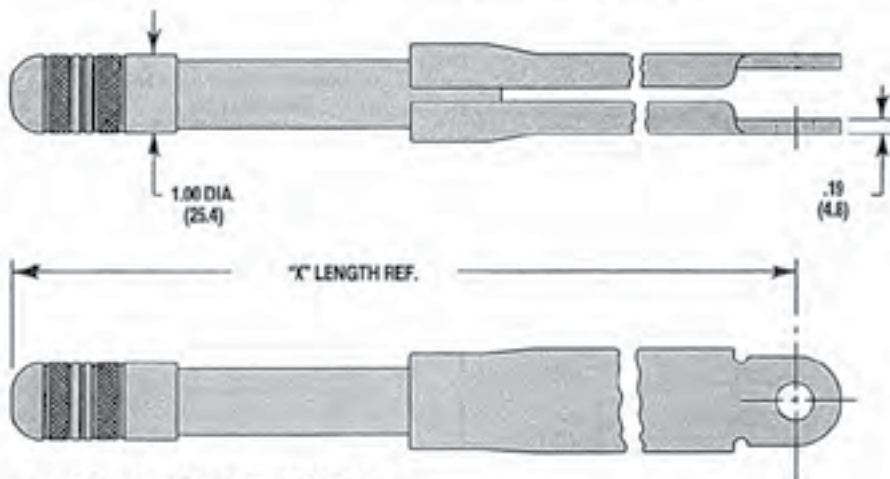
HAND LEVERS

HANDLE OPTIONS



STANDARD LEVER HANDLE:

1. MAX. LEVER OUTPUT 3000 LBS. (13.3 KN)
2. STANDARD LENGTHS "X":
 8.12 (206)
 8.94 (227)
 9.88 (251)
 10.38 (264)
 12.00 (305)
3. ADJUSTMENT KNOB IS FRICTION CONTROLLED
4. RECOMMENDED USAGE: FORK LIFTS, ALL SIZES
 TRUCK TRACTOR
 LIGHT TRAILERS 3000 LBS. G.V.W.
 LIGHT INDUSTRIAL EQUIPMENT



"WEST COAST" LEVER HANDLE

1. MAX. LEVER OUTPUT 4000 LBS. (17.8KN)
2. STANDARD LENGTHS:
 11.12 (282)
 12.75 (324)
 14.00 (356)
3. ADJUSTMENT KNOB IS FRICTION CONTROLLED
4. RECOMMENDED USAGE: HEAVY CONSTRUCTION EQUIPMENT

HAND LEVERS

LEVER LOCK OPTIONS



SAFETY HOOK OPTION WITH STANDARD HANDLE

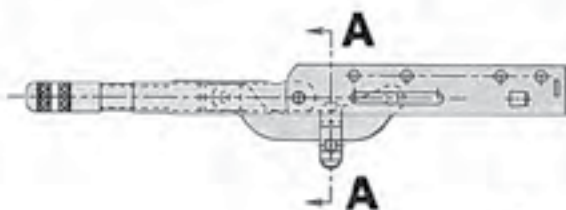
HANDLE LENGTHS "Y"
5.81 (21)
10.16 (24)
12.80 (30)



RATCHET AND PAWL OPTION WITH STANDARD HANDLE

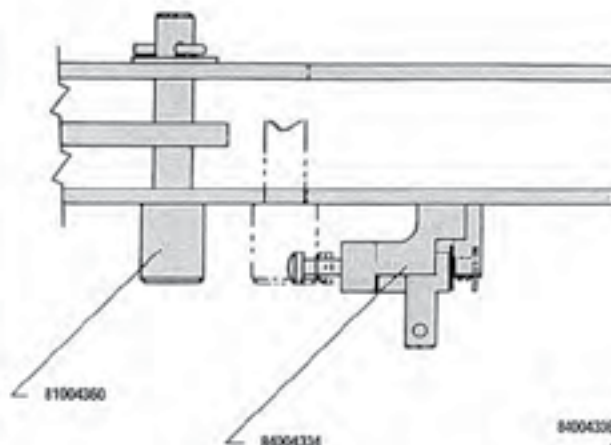
HANDLE LENGTHS "Y"
5.81 (21)
10.16 (24)
12.80 (30)

PROVISION FOR PADLOCK



SEC. A - A

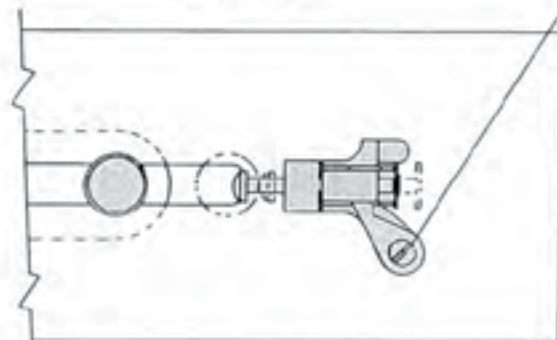
LIGHT SWITCH OPTIONS



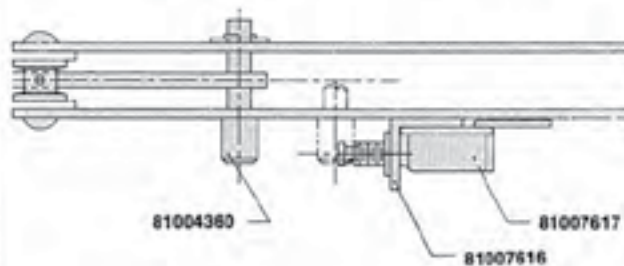
81004360

84004354

84004356



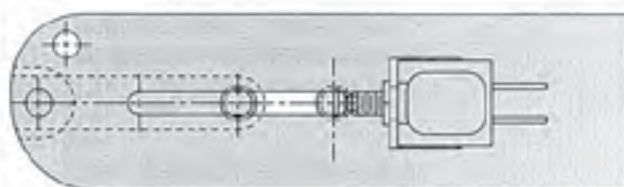
OPTION: "BRAKE ON" LIGHT SWITCH
NORMALLY ON
NOT RECOMMENDED FOR USE IN HOSTILE ENVIRONMENTS



81004360

81007617

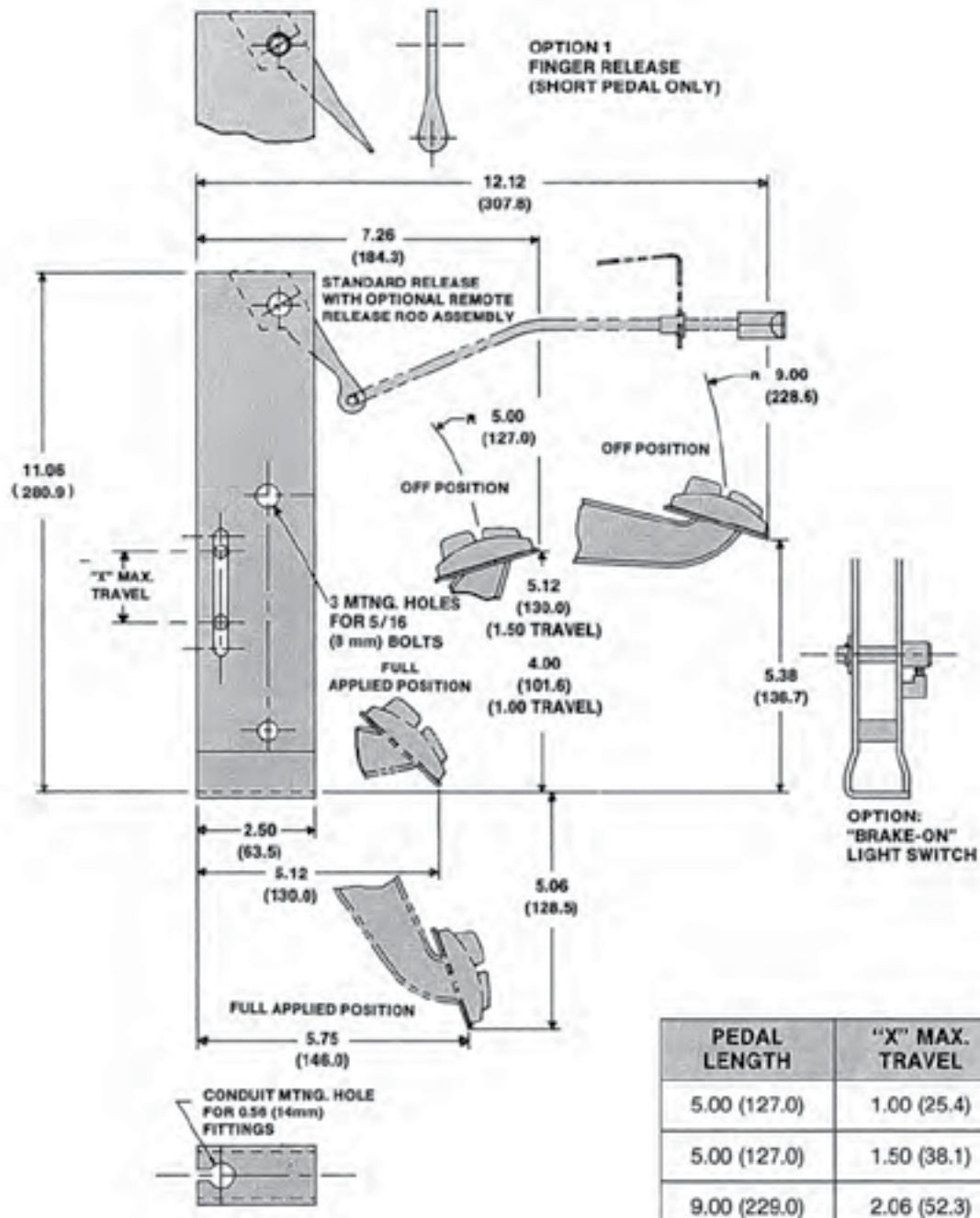
81007616



OPTION: "BRAKE ON" LIGHT SWITCH
NORMALLY ON
WEATHER RESISTANT

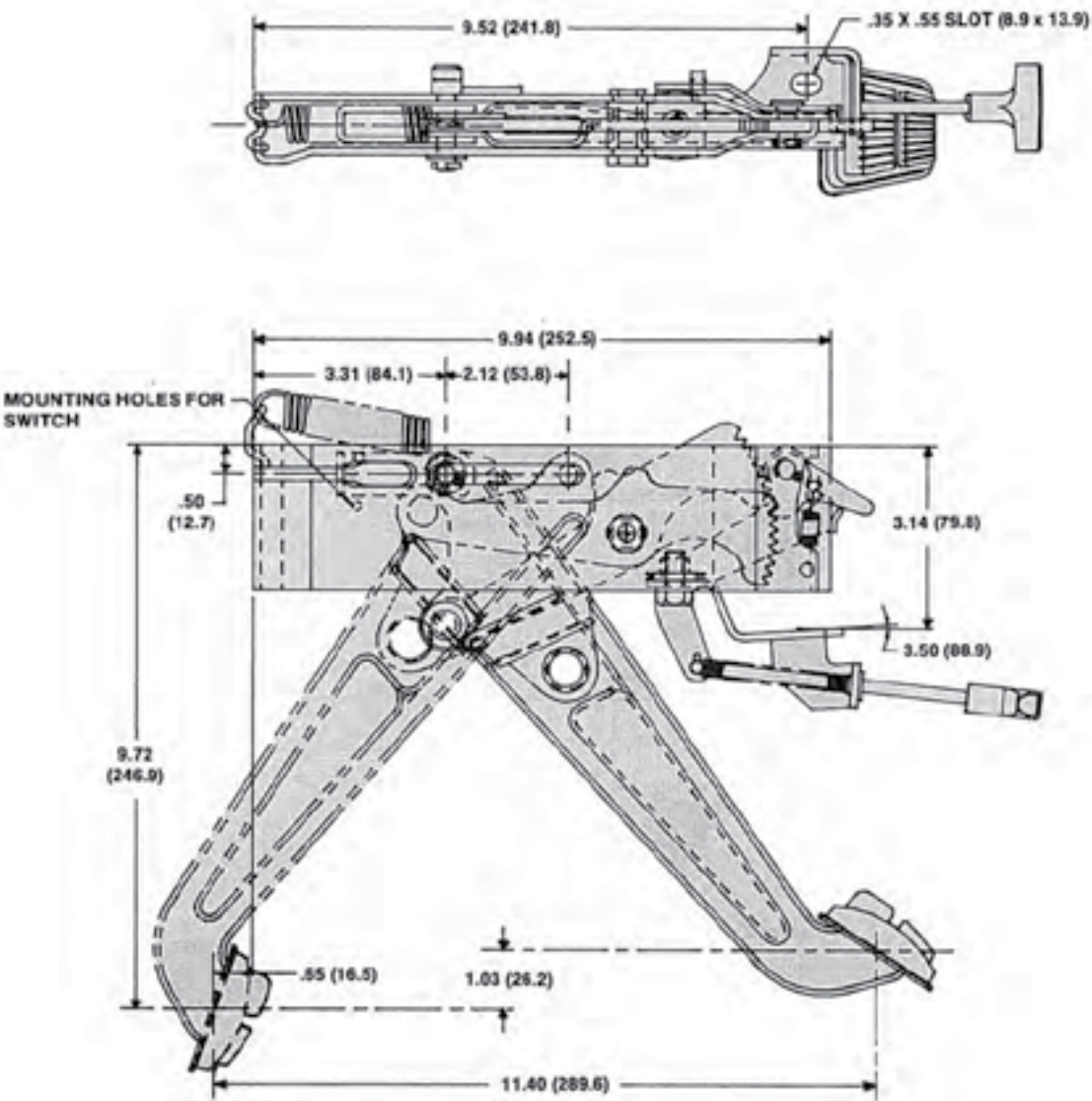
FOOT PEDALS

FOOT PEDALS



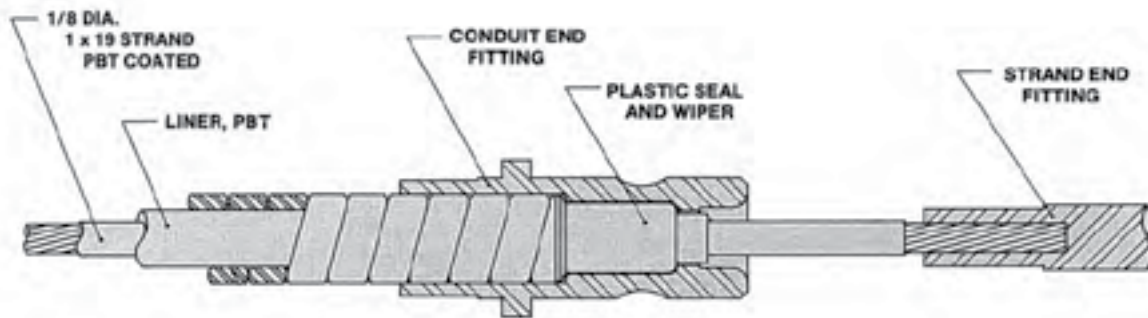
FOOT PEDALS

PEDAL LENGTH	MAX. TRAVEL
9.72 (246.9)	2.12 (53.9)



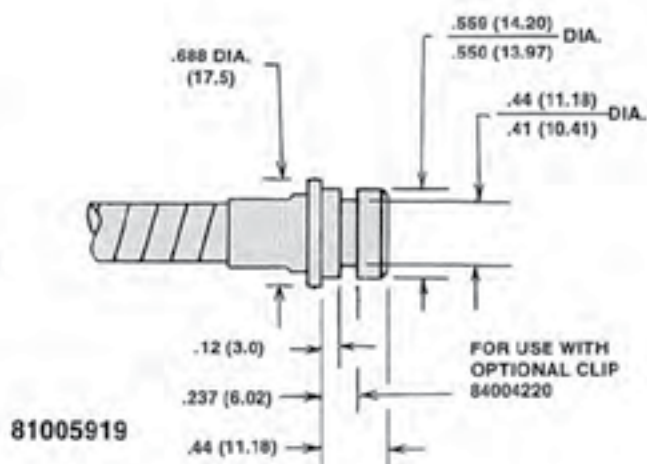
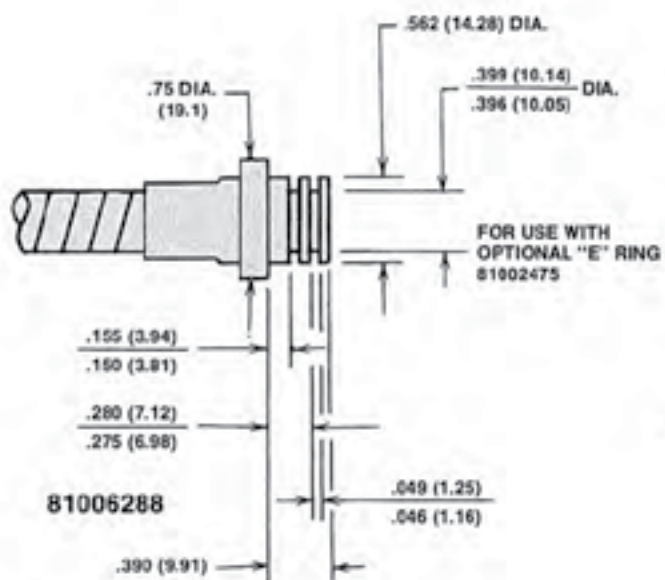
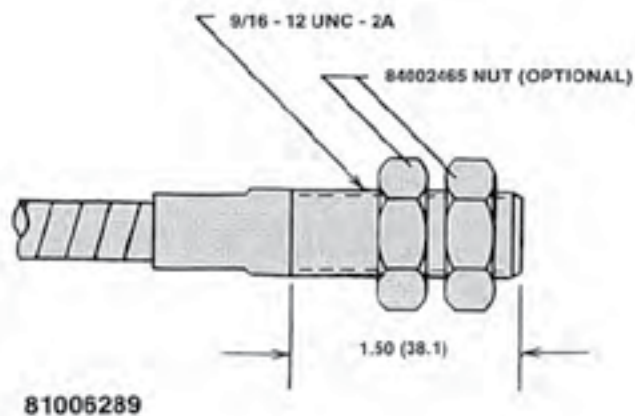
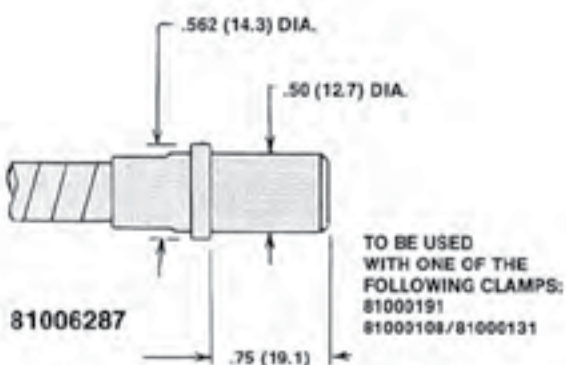
1/8" PBT BRAKE CABLES

PBT is short for Polybutylene Terephthalate: These cables utilize PET coated strand, PET liner, a patented seal with internal and external features and boundary lubrication. All of these features combine to give Orscheln cables far better corrosion protection than ordinary galvanized constructions. The 1/8" PET cables are designed for use in light to medium duty applications. These cables are rated at 1,200 pounds or less.



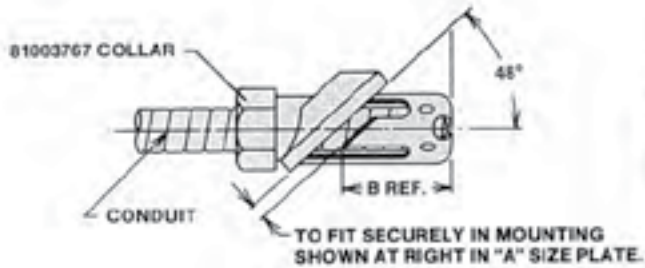
1/8 PBT

CONDUIT END FITTINGS

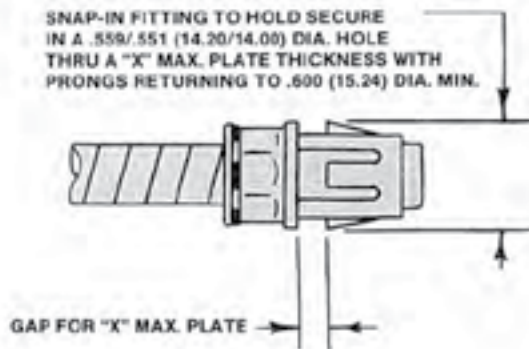


1/8 PBT

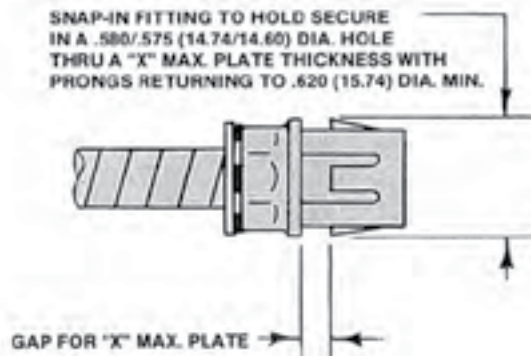
CONDUIT END FITTINGS



PART NO.	A	B
95001244	.130/.105 (3.30/2.67)	1.03 (26.2)
95001388	.205/.170 (5.21/4.32)	.93 (23.6)



PART NO.	"X" MAX. PLATE
95001218	.133 (3.38)
95001434	.193 (4.90)

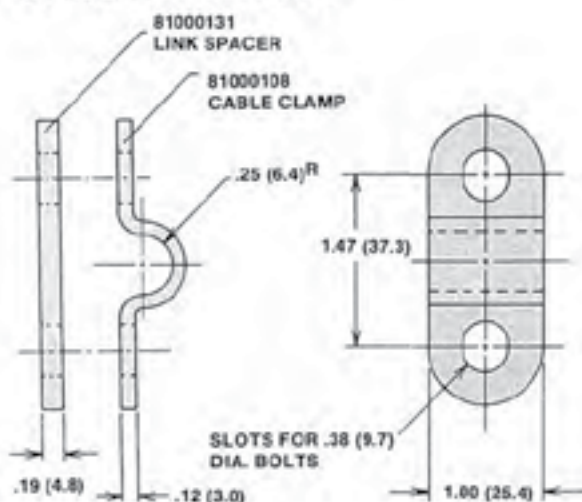


PART NO.	"X" MAX. PLATE
95001278	.133 (3.38)
95001279	.200 (5.08)

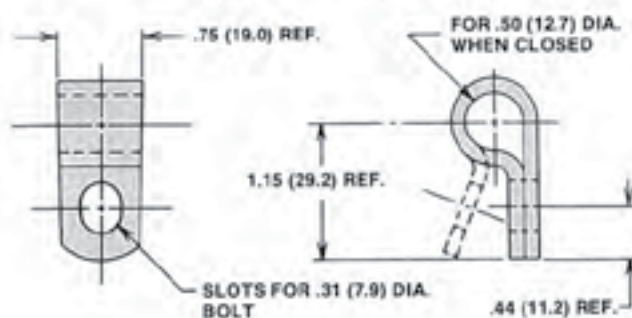
1/8 PBT

CONDUIT MOUNTING CLAMPS

81000108 CABLE CLAMP
81000131 LINK SPACER



81000191 CABLE CLAMP



CONDUIT MOUNTING CLIPS

84002475



OPTIONAL WITH END FITTINGS
81002456
81006102
81006288

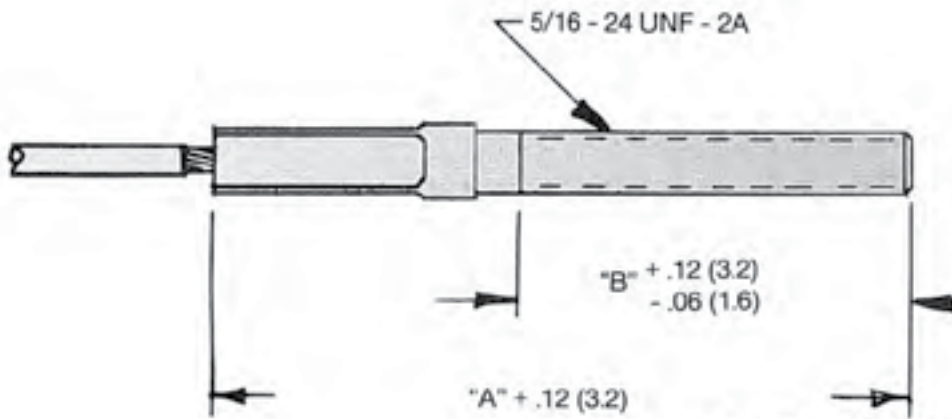


84004220

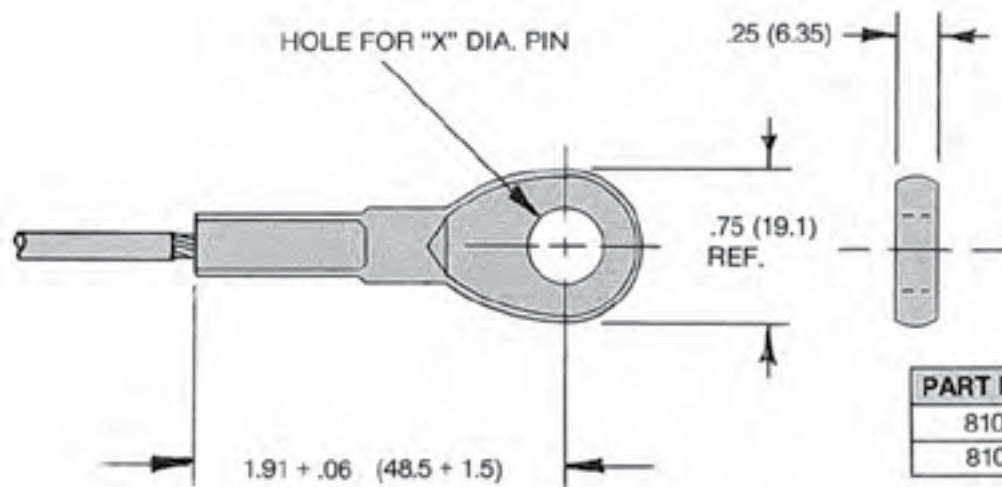
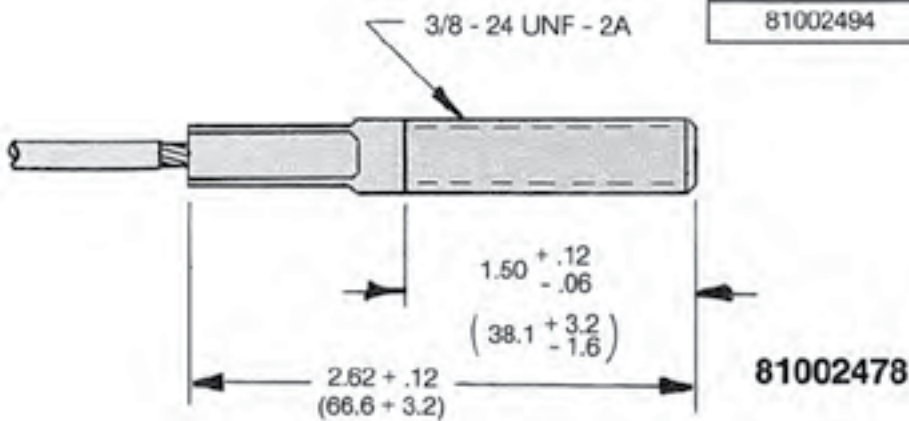
OPTIONAL WITH
END FITTINGS
81005919
81006103

1/8 PBT

OPTIONAL STRAND END FITTINGS



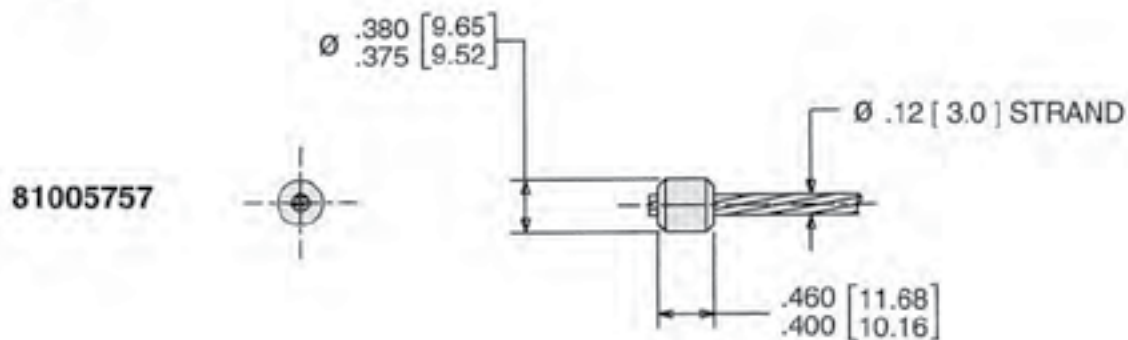
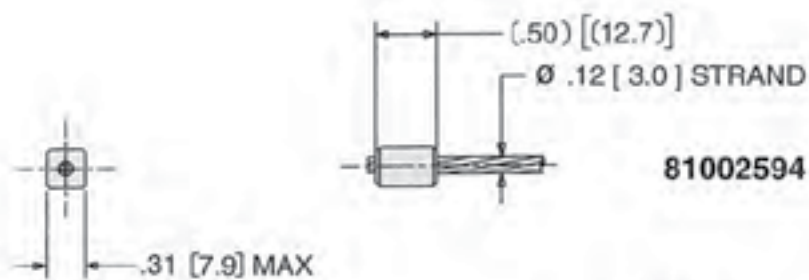
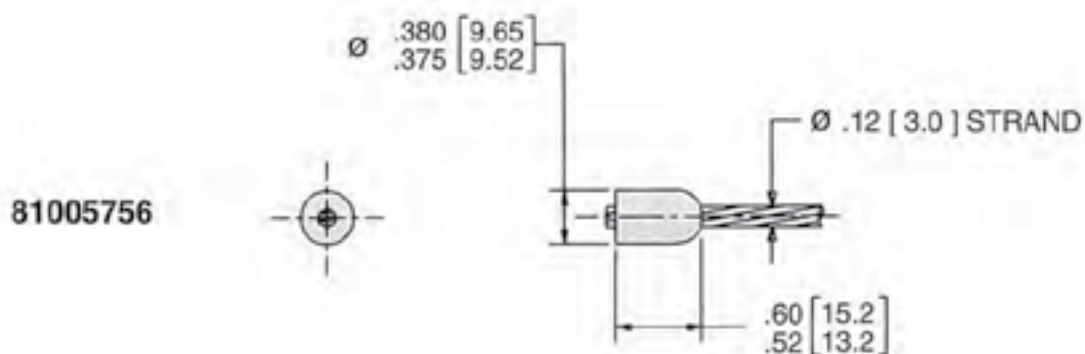
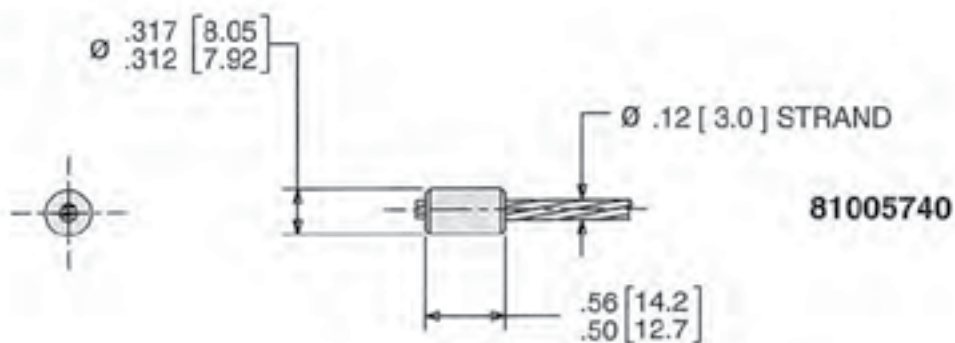
PART NUMBER	A	B
81002491	2.88 (73.2)	1.50 (38.1)
81002494	3.62 (92.0)	2.25 (57.2)



PART NUMBER	"X" DIA. PIN.
81002510	.31 (8.0)
81002519	.38 (9.5)

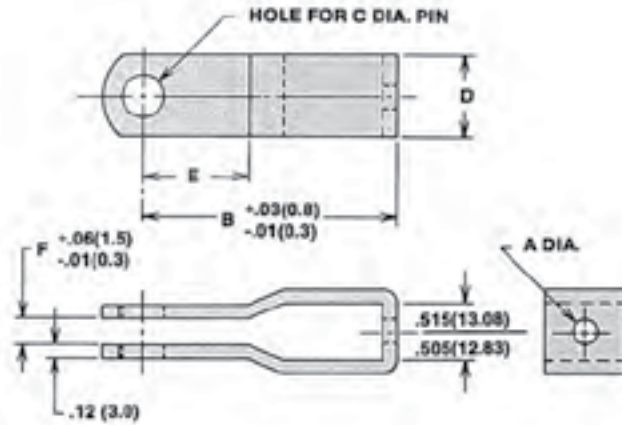
1/8 PBT

STRAND END FITTINGS



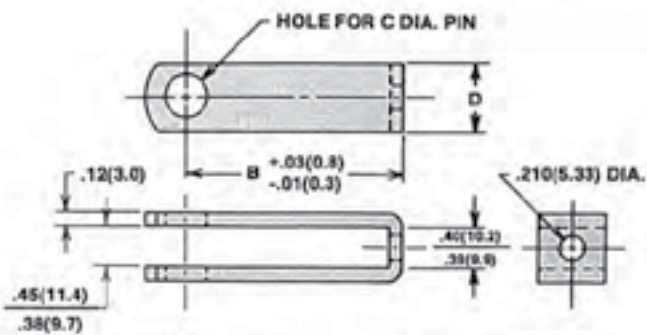
1/8 PBT

1/8 CLEVIS

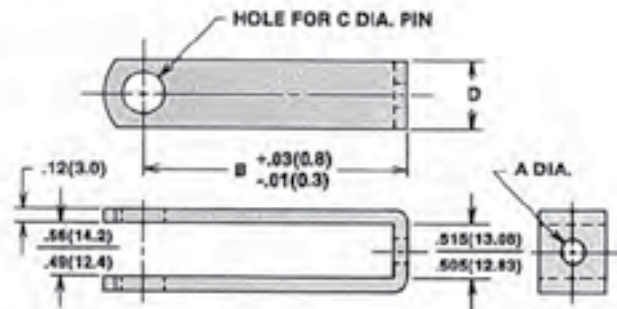


PART NO.	A	B	C	D	E	F
*81002454	.210(5.33)	1.66(41.9)	.31(7.9)	.62(15.8)	.31(7.9)	.19(4.8)
81002535	.210(5.33)	2.38(60.5)	.31(7.9)	.75(19.0)	1.09(27.7)	.25(6.4)
81002536	.210(5.33)	2.38(60.5)	.38(9.7)	.75(19.0)	1.09(27.7)	.25(6.4)
81002537	.210(5.33)	1.75(44.4)	.31(7.9)	.62(15.8)	.38(9.7)	.25(6.4)
81002646	.359(9.12)	1.75(44.4)	.31(7.9)	.75(19.0)	.38(9.7)	.25(6.4)
81002685	.359(9.12)	2.38(60.5)	.31(7.9)	.75(19.0)	1.09(27.7)	.25(6.4)
81002858	.359(9.12)	4.00(101.6)	.38(9.7)	.75(19.0)	.50(12.7)	.25(6.4)
81002963	.359(9.12)	3.00(76.2)	.31(7.9)	.75(19.0)	.75(19.0)	.25(6.4)

* Designed for use in Orscheln COWL TYPE lever assemblies.



PART NO.	B	C	D
81002545	1.62(41.2)	.31(7.9)	.62(15.8)
81002546	2.00(50.8)	.31(7.9)	.62(15.8)
81002550	2.00(50.8)	.38(9.7)	.75(19.0)

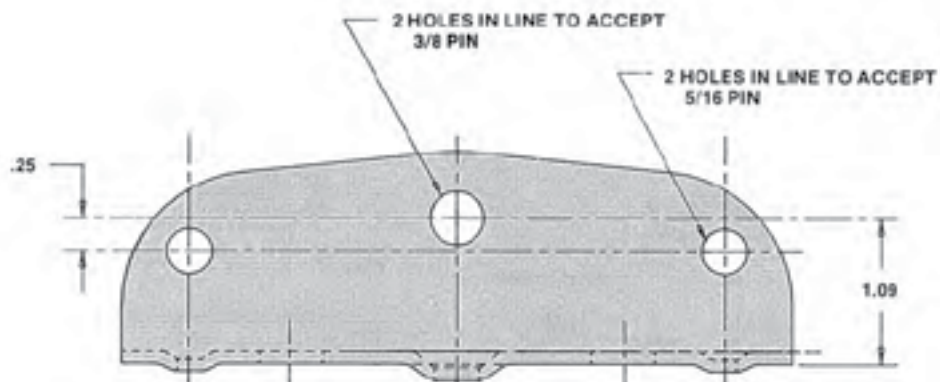
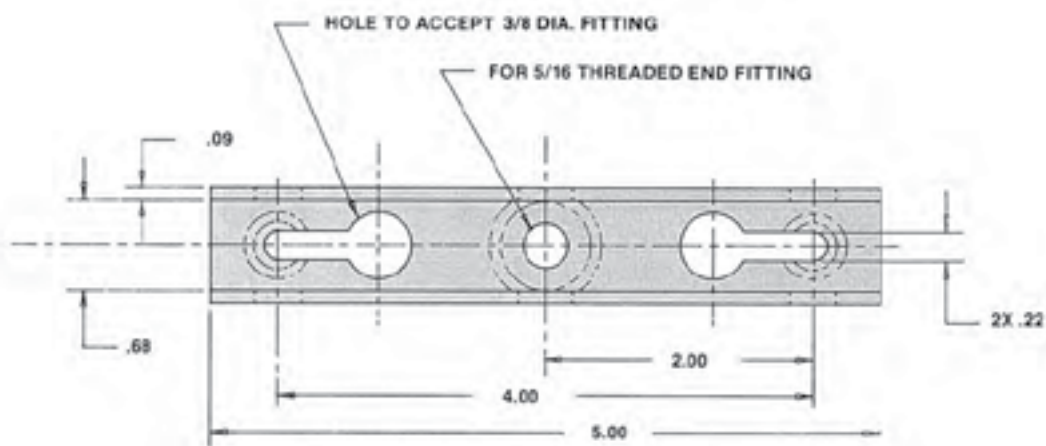


PART NO.	A	B	C	D
*81002467	.210(5.33)	1.94(49.3)	.38(9.7)	.75(19.0)
81002578	.210(5.33)	1.38(35.0)	.31(7.9)	.62(15.8)
81002635	.323(8.20)	2.50(63.5)	.31(7.9)	.62(15.8)
81002914	.323(8.20)	2.50(63.5)	.38(9.7)	.75(19.0)

* For use with Orscheln BELL CRANK TYPE lever assemblies.

1/8 PBT

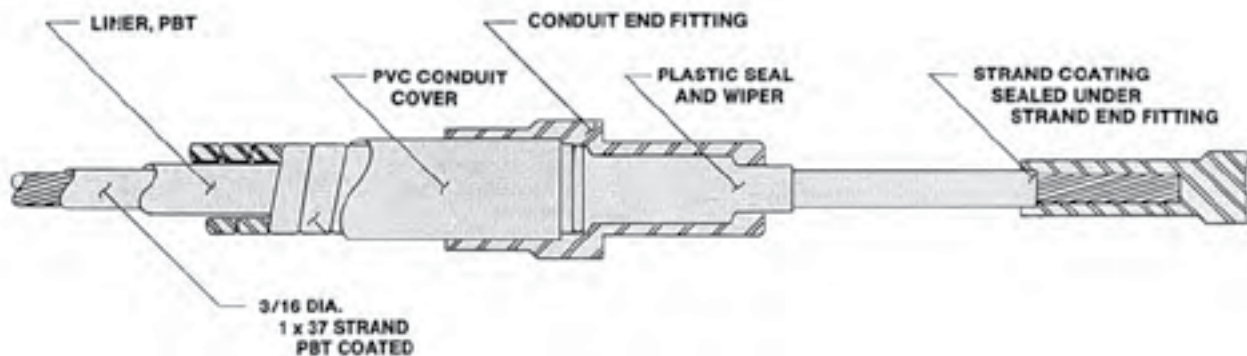
EQUALIZER 81007269



3/16 PBT

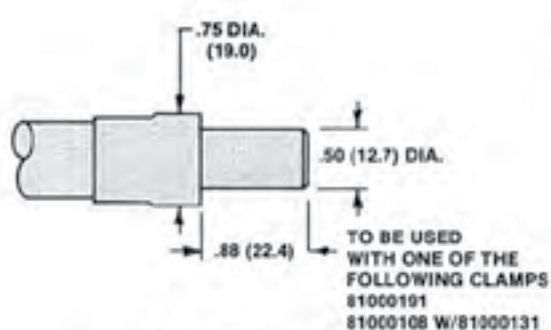
3/16" PBT BRAKE CABLES

3/16" PBT cables offer the same qualities as the 1/8" cables. However, this size of cable is recommended for heavier loads up to 3,000 pounds. Many of the characteristics described in the cable design section will help you in determining which size of cable is right for your application.

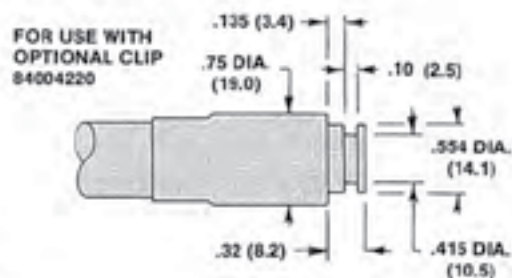


3/16 PBT

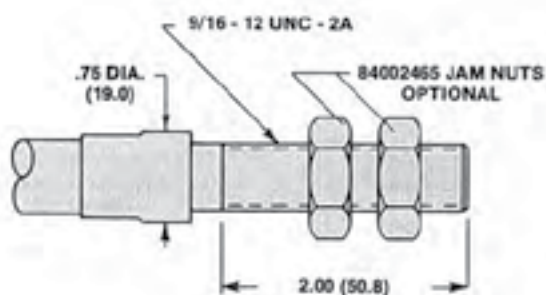
CONDUIT END FITTINGS



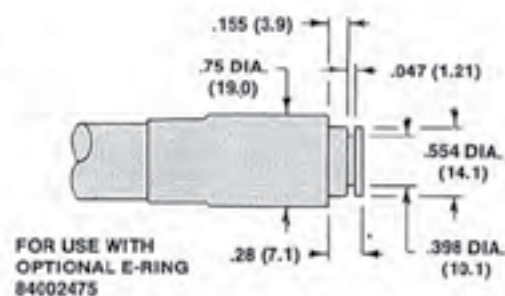
81006100



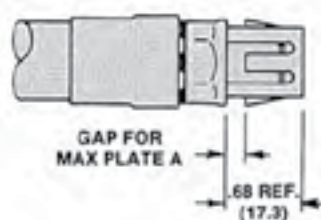
81006103



81006101



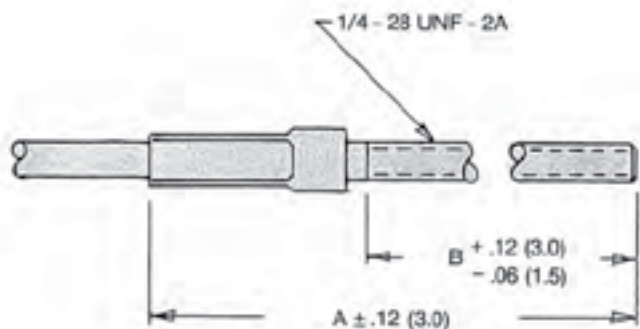
81006102



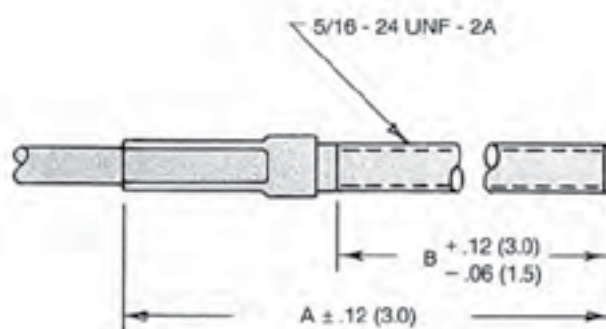
PART TO BE SECURE IN A .580/.575 (14.8/14.6) DIA. HOLE
THRU "A" MAX PLATE WITH PRONGS
RETURNING TO .52 (15.7) DIA. MIN.

PART NO.	A
95001340	.127 (3.0)
95001341	.193 (4.9)
95001339	.253 (6.4)

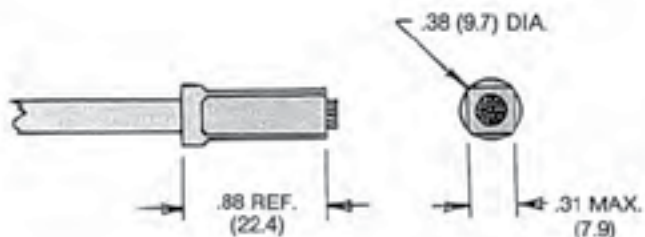
OPTIONAL STRAND END FITTINGS



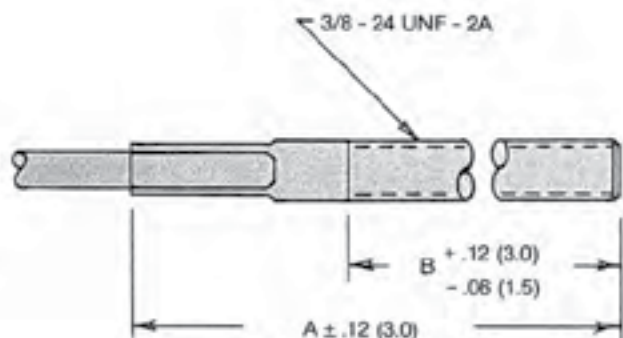
PART NO.	A	B
81006109	3.00 (76.2)	1.50 (38.1)



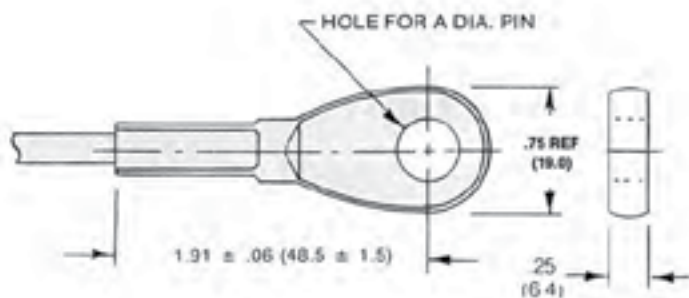
PART NO.	A	B
81006111	3.00 (76.2)	1.50 (38.1)
81006112	3.75 (95.3)	2.25 (57.2)



81006099



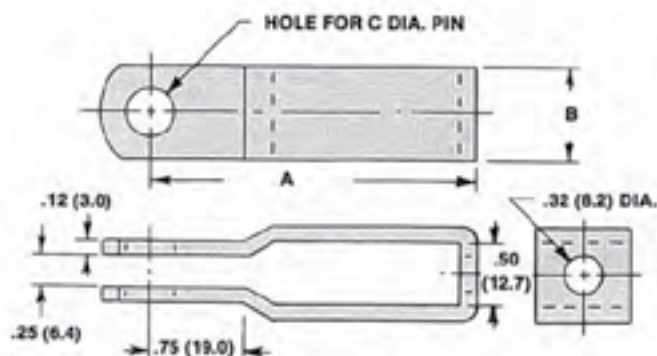
PART NO.	A	B
81006113	2.62 (66.6)	1.50 (38.1)
81006114	3.62 (92.0)	2.50 (63.5)



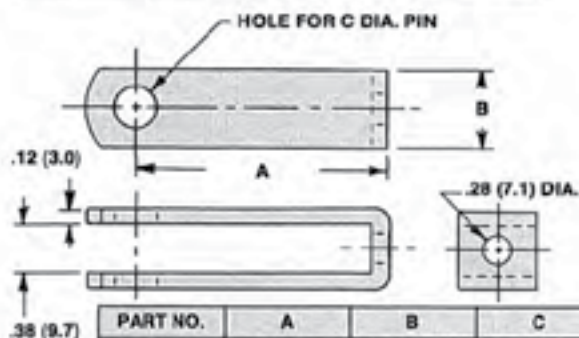
PART NO.	A
81006116	.31 (7.9)
81006117	.38 (9.7)

3/16 PBT

3/16 CLEVIS

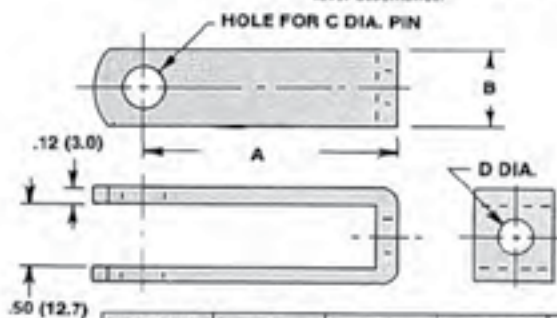


PART NO.	A	B	C
81002963	3.00 (76.2)	.62 (15.8)	.31 (7.9)
81006106	3.00 (76.2)	.75 (19.0)	.38 (9.7)



PART NO.	A	B	C
*81006273	1.50 (38.1)	.62 (15.8)	.31 (7.9)
81006107	2.00 (50.8)	.62 (15.8)	.31 (7.9)
81006108	1.62 (41.2)	.75 (19.0)	.38 (9.7)

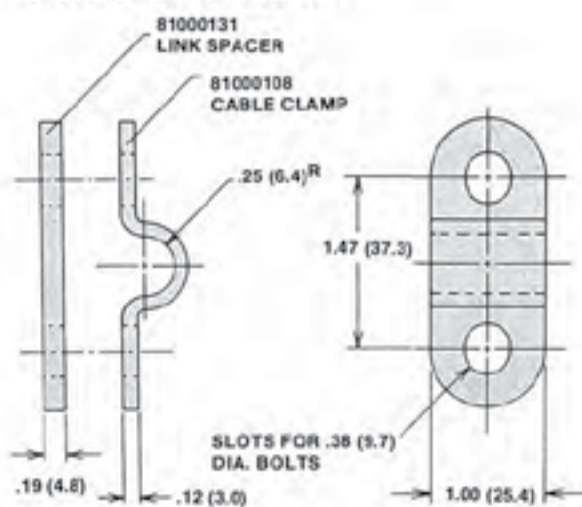
* Designed for use in Orachain COWL TYPE lever assemblies.



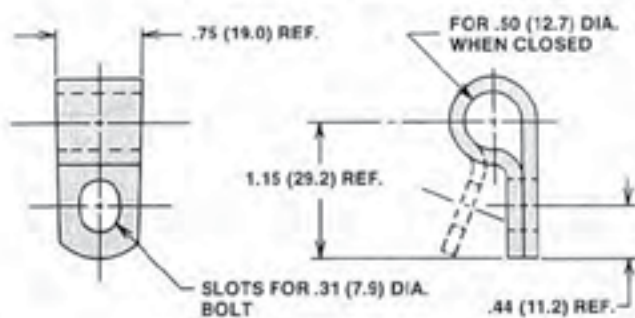
PART NO.	A	B	C	D
81002635	2.50 (63.5)	.62 (15.8)	.31 (7.9)	.32 (8.2)
81002914	2.50 (63.5)	.75 (19.0)	.38 (9.7)	.32 (8.2)
81006104	2.00 (50.8)	.62 (15.8)	.31 (7.9)	.28 (7.1)
81006105	2.00 (50.8)	.75 (19.0)	.38 (9.7)	.28 (7.1)

CONDUIT MOUNTING CLAMPS

**81000108 CABLE CLAMP
81000131 LINK SPACER**



81000191 CABLE CLAMP



84002475



OPTIONAL WITH END FITTINGS
81002456
81006102
81006288



84004220

OPTIONAL WITH
END FITTINGS
81005919
81006103

CABLE DESIGN

CABLE SKETCH SHEET

CUSTOMER: _____ DATE: _____
PART NO.: _____ USE/JOB: _____

STRAND

CONDUIT

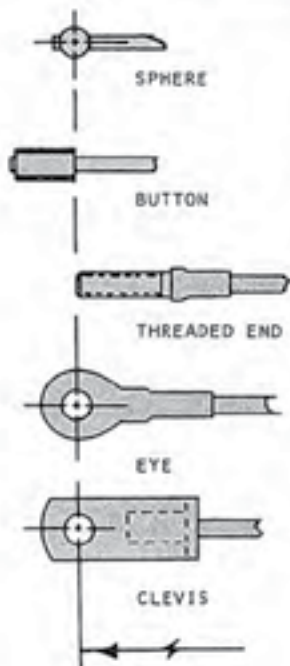
The diagram shows a cross-section of a cable assembly. It consists of a central core with multiple strands, labeled 'STRAND', surrounded by a protective layer labeled 'CONDUIT'. The assembly is shown in two views: a side view and a cross-sectional view. The side view shows the length of the assembly, while the cross-sectional view shows the internal structure. Below the diagram are two sets of blank lines for additional information.

GENERAL CONSTRUCTION:

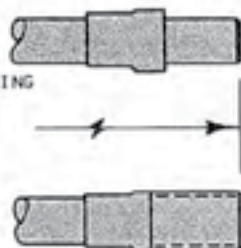
	CONDUIT	STRAND
☐	PBT	1/8
☐	PBT	3/16

LOCATIONS FOR ASSEMBLY DIMENSIONS:

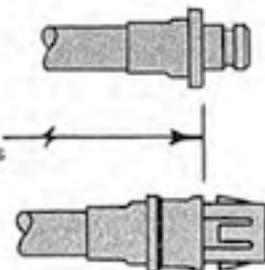
STRAND END FITTINGS



CONDUIT END FITTINGS



FITTINGS WITH
SHOULDERS
FOR LOAD POINTS

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery.

TRAILER PARKING BRAKE SYSTEM

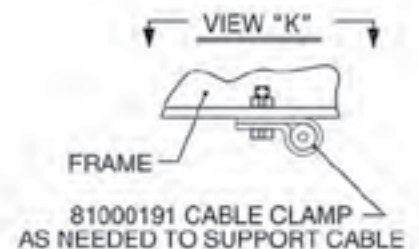
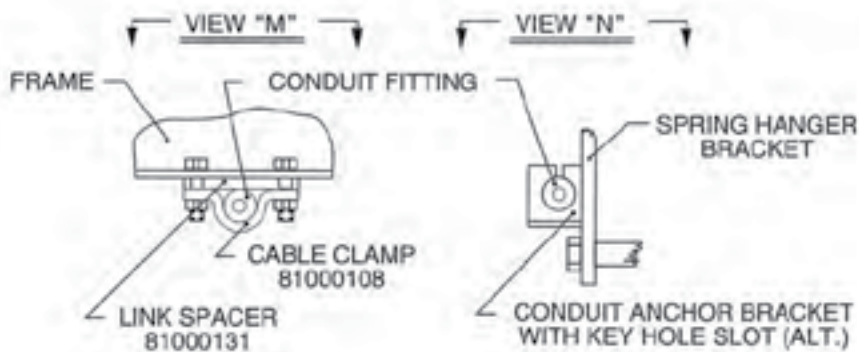
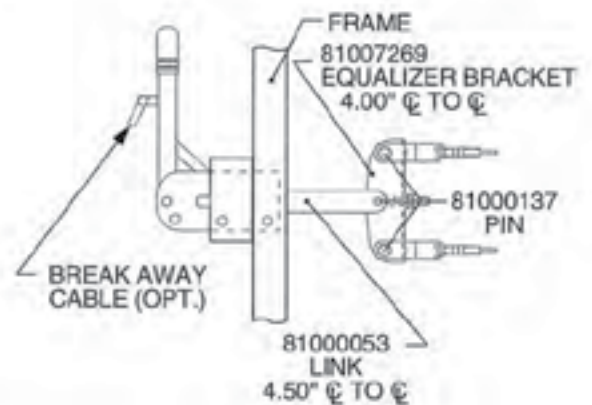
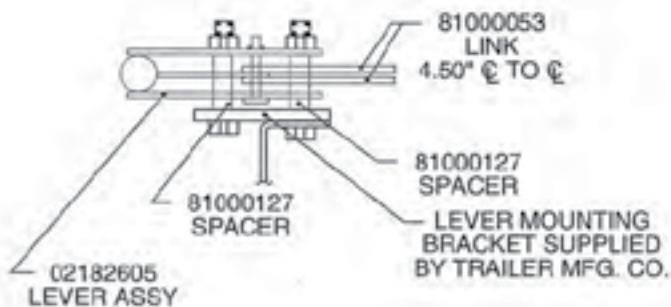
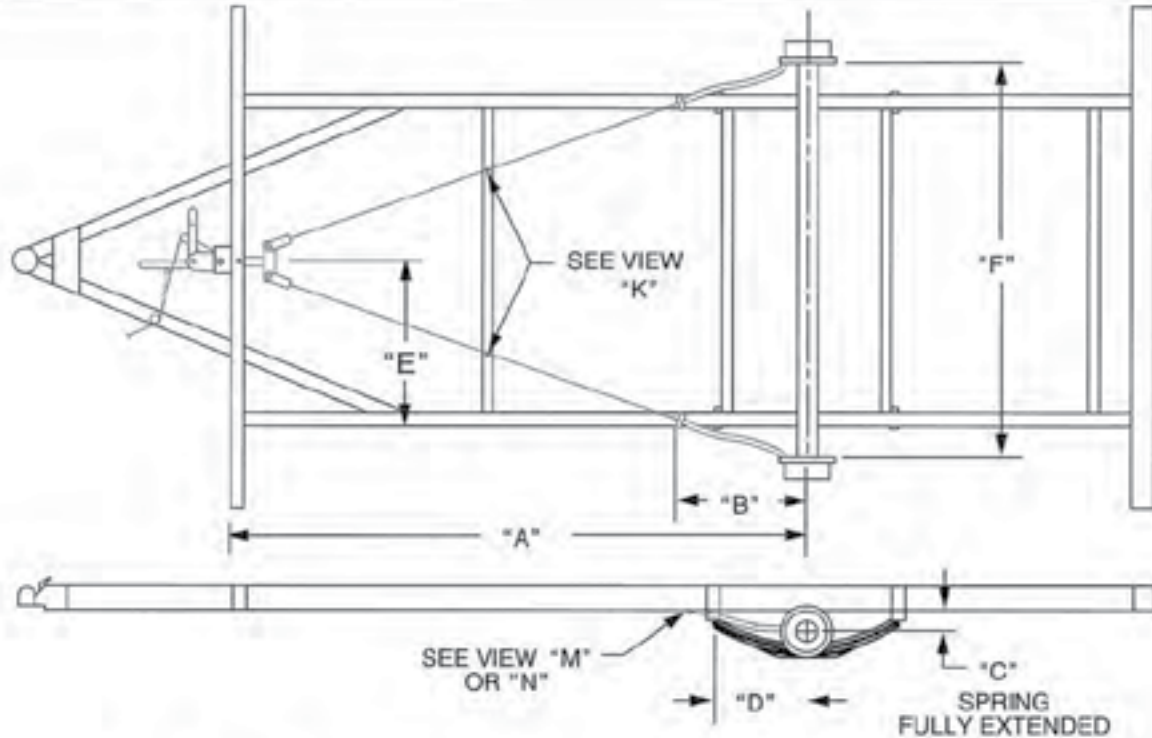


TRAILER PARKING BRAKE SYSTEMS

This section gives you three different layouts to choose from. By filling out and returning the specification sheet, you are assured of receiving a trailer system that is “custom” designed for your application. In addition, our break-away and padlock options provide additional protection. The mechanical break-away feature will engage the trailer brakes automatically if the towed vehicle becomes unhooked during transportation. The lockable over-center lever prevents any unauthorized person from moving the trailer once the system is engaged and locked.

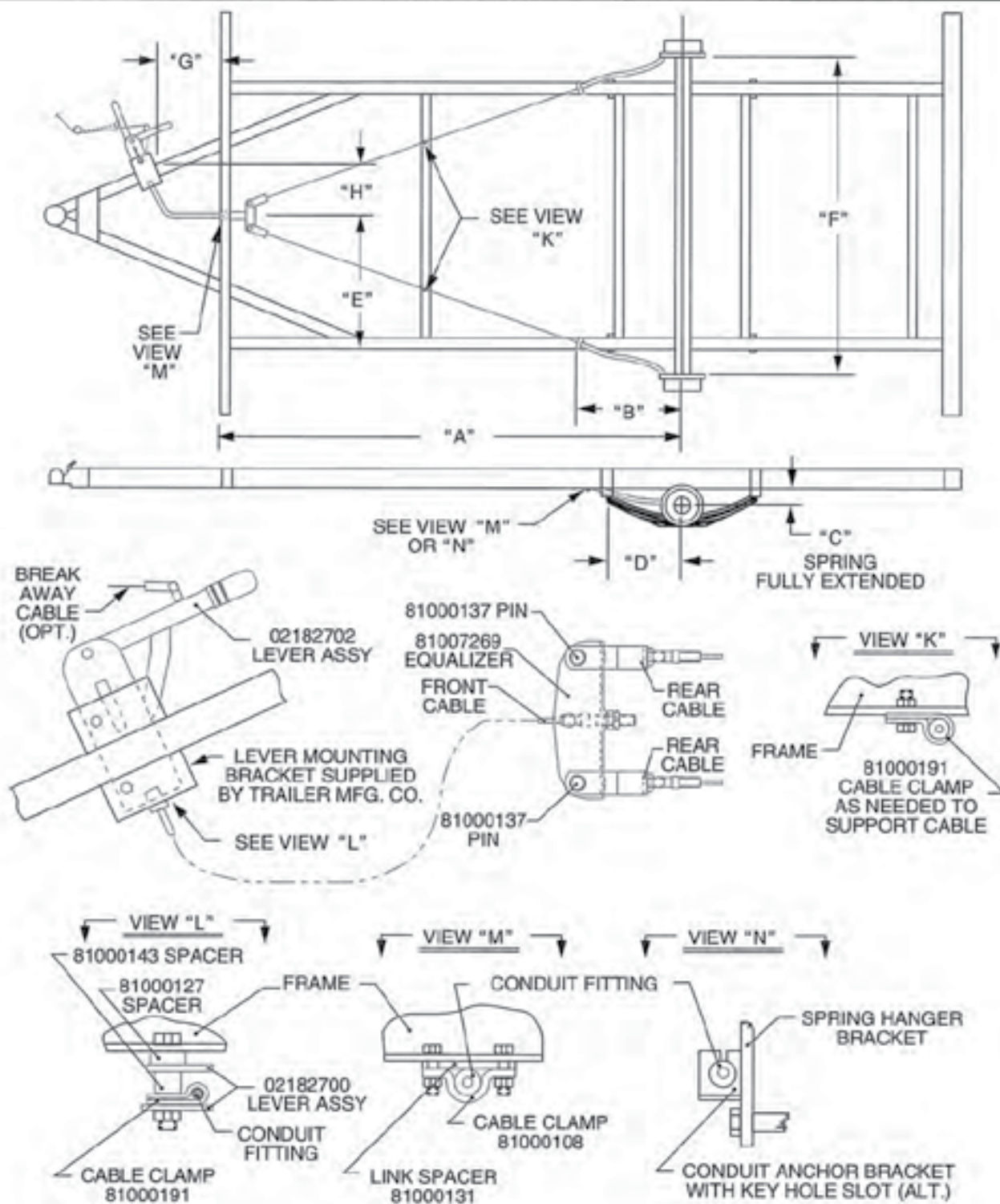
TRAILER PARKING BRAKE SYSTEM

LAYOUT NO. 1 SINGLE AXLE – BRAKE LEVER ON FRONT CROSSMEMBER

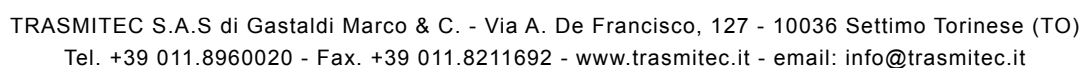


TRAILER PARKING BRAKE SYSTEM

LAYOUT NO. 2 SINGLE AXLE — BRAKE LEVER ON "A" FRAME



LAYOUT NO. 3 DUAL AXLE — BRAKE LEVER ON "A" FRAME



TRAILER PARKING BRAKE SYSTEM

ORSCHELN PARKING BRAKE SYSTEM SPECIFICATION SHEET

In order to ensure an accurate quote, please provide the following information:

- A1 _____ Front of frame to centerline axle. (Layouts 1 & 2)
A2 _____ Dual axle only. (Layout 3)
B1 _____ Centerline of axle to conduit mount on frame. (Layouts 1 & 2)
B2 _____ Dual axle only. (Layout 3)
C1 _____ Bottom of frame to centerline of axle. (Layouts 1 & 2)
C2 _____ Dual axle only. (Layout 3)
D1 _____ Centerline of axle to centerline of front spring hanger bracket through bolt.
(Layouts 1 & 2)
D2 _____ Dual axle only. (Layout 3)
E _____ Centerline of frame and equalizer to outside of frame.
F1 & 2 _____ Backing plate to backing plate.

“A” FRAME LEVER MOUNT INFORMATION

- G _____ Front of frame to edge of lever intersecting “A” frame. (Layouts 2 & 3)
H _____ Centerline of frame and equalizer to edge of lever intersecting “A” edge.
(Layouts 2 & 3)
I. _____ Notification of any obstacles below the trailer frame that may interfere with
cable routings.

GENERAL INFORMATION

1. Gross vehicle weight, fully loaded _____ pounds.
2. Brake manufacturer and part number:
Mfg. _____ Left _____ Right _____
3. Lever location, if other than shown on layouts _____
4. Type of axles _____
5. Frame material width at all points where cables are to mount _____



check » shift » accelerate » park

Markets

TRUCK



BUS



CONSTRUCTION



AGRICULTURE

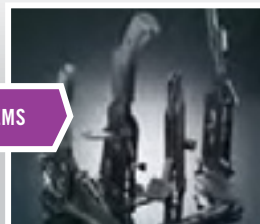


MILITARY



Products

PARK BRAKE SYSTEMS



MECHANICAL
CONTROL CABLES



FLUID LEVEL INDICATORS



ELECTRONIC THROTTLE
CONTROL SYSTEMS



SHIFT CONTROL SYSTEMS



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