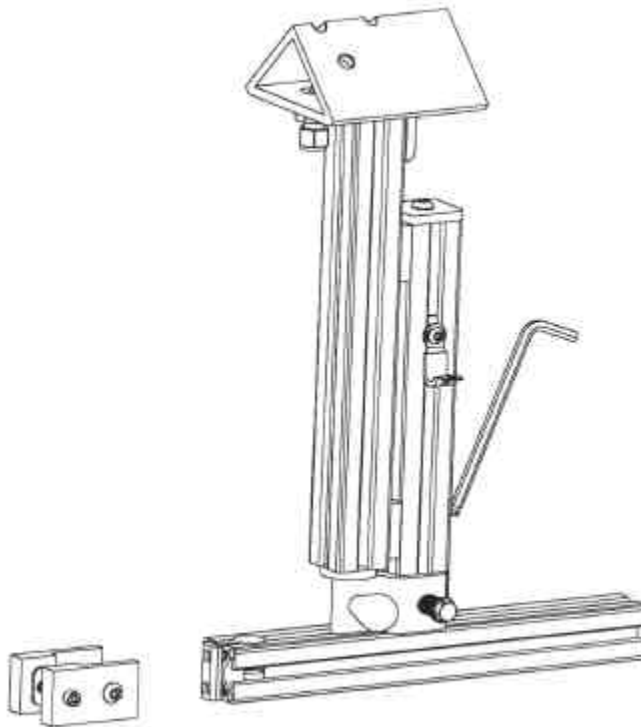


# X-ROCKETS

## LAUNCH SYSTEMS

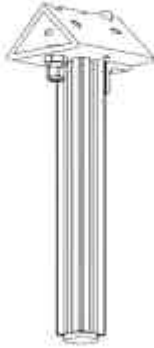
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Drop-Down Launcher Basic Kit -1			
Stock No.	Description	Function	List Price
LNCH-15-02	1.5" Drop-Down, I-L Motor Launcher	Complete w/ Slide and Base Rail, TWO HOSE CLAMPS for NOS & GOX flex lines, AND adapter brackets to mount to 1.0" rail	\$ 250.00



**BASIC KIT 1 #LNCH-15-02**

NOTE: All assemblies include Stainless Steel machine screws, and black zinc plated rail Tee-Nuts.



**COMBO L/M BLAST HOUSE  
 MODIFICATION # LNCH-15-08**

Drop-Down Launcher Sub-Assemblies			
Stock No.	Description	Function	List Price
LNCH-15-04	1.5" Base Rail	Attaches to any 1.5" rail, and #ADAP-15-01, #ADAP-15-02 Adapters	\$ 35.00
LNCH-15-05	1.5" Dual Base Rail	2' Long rail section attaches perpendicular to end of 1.5" launch rail (Piggyback 1.5"/1.0" Rail)	\$ 30.00
LNCH-15-06	M Blast House & Rail Assy	M-Stem blast house, w/ 1/2" SS stem fitting and support rail. Slides onto existing launcher	\$ 100.00
LNCH-15-07	Cluster Blast House & Rail Assy	Combination blast house, support rail, w/ fittings for (2) cluster launch, 3.00" on center.	\$ 140.00
LNCH-15-08	Combination Blast House Modification	Machining of House, and adapter tube allows either J/L or M stems, AND (2) cluster I/J/K	\$ 25.00
LNCH-15-09	1.5" Support Brace for M Flights	10" long rail piece and angle brackets mounts from launch rail to launcher slide	\$ 30.00
LNCH-15-11	1.5" to 1.0" Adapter Plate Kit	Pair of plates mount to 1.5" Base Rail to accept a 1.0" launch rail (Inc. in Basic Kit 1)	\$ 25.00



**M BLAST HOUSE #LNCH-15-06**

Flex Hoses & Fittings			
Stock No.	Description	Function	List Price
LNCH-25-01	SS Flex Line Kit	18" long SS Braided lines, -4AN-1/4 NPT BH fittings, and bracket	\$ 110.00
LNCH-25-05	Check Valve	1/4 NPT(M/F) brass check valve	\$ 20.00
LNCH-25-10	10' long NOS & GOX Hoses	Stainless Steel/Teflon lines with RED and BLUE -4AN fittings to connect up to tanks	\$ 110.00
LNCH-25-11	-4AN x 1/4" NPT(M) Blue Fitting	Adapts 1/4" NPT to SS flex hose - N2O	\$ 5.00
LNCH-25-12	-4AN x 1/4" NPT(M) Red Fitting	Adapts 1/4" NPT to SS flex hose - GOX	\$ 5.00

I-L Fill Stems & Parts			
Stock No.	Description	Function	List Price
LNCH-38-01	I-L Fill Stem Assembly	N2O & GOX tubes, Swagelok brass fittings, -4AN connectors, <b>(less check valve)</b>	\$ 110.00
LNCH-38-02	3/8" SS Blast House Fitting I-L	3/8" SS fill stem fitting for blast house (modified for clamp-and-release)	\$ 35.00
LNCH-38-03	SS 3/8" Ferrule Set	Replacement SS ferrule set for 3/8" SS fill stem blast house fitting (modified)	\$ 5.00
LNCH-38-04	SS 3/8" Compression Nut	Replacement SS Compression nut for 3/8" SS fill stem blast house fitting	\$ 8.00
LNCH-38-05	I-L Fill Stem Tubes	316 SS N2O & GOX tubes, with brass ferrules, nuts	\$ 35.00
LNCH-38-06	I-K Fill Stem Tubes	316 SS N2O & GOX tubes (short type), w/ brass ferrules, nuts	\$ 25.00

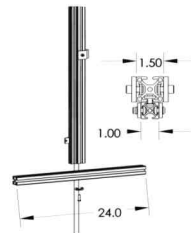
M Fill Stems & Parts			
Stock No.	Description	Function	List Price
LNCH-50-01	M Fill Stem Assembly	N2O & GOX tubes, Swagelok brass fittings, -4AN connectors, <b>(less check valve)</b>	\$ 138.00
LNCH-50-02	1/2" SS Blast House Fitting - M	1/2" SS fill stem fitting for blast house (modified for clamp-and-release)	\$ 35.00
LNCH-50-03	SS 1/2" Ferrule Set	Replacement SS ferrule set for 1/2" SS fill stem blast house fitting (modified)	\$ 5.00
LNCH-50-04	SS 1/2" Compression Nut	Replacement SS comp.nut for 1/2" SS fill stem blast house fitting	\$ 8.00



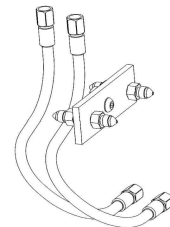
**CLUSTER HOUSE #LNCH-15-07**



**1.5" BASE RAIL #LNCH-15-04**



**1.5" DUAL BASE RAIL #LNCH-15-05**



**FLEX LINES #LNCH-25-01**

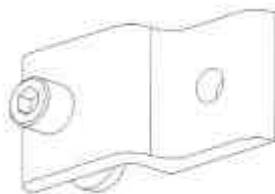
# X-ROCKETS LAUNCH SYSTEMS

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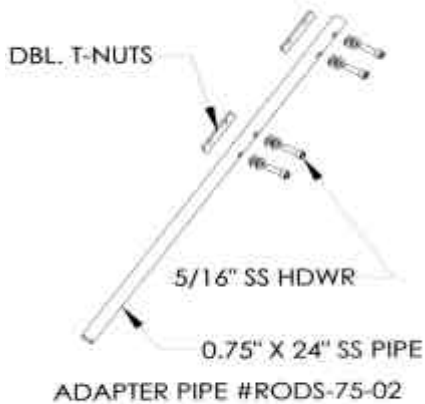
1.5" RAIL KITS			
Stock No.	Description	Function	List Price
RAIL-15-00	1.5" Rail Kit	2-Pc. 1.5" x 10' long rail, connector plates, Rocket Stop, Mount Pipe, 1/4" Allen Key & all Hrdw. Ships UPS.	\$ 175.00
RAIL-15-01	1.5" 2-Pc. Rail & Connector Plates only	2-Pc. 1.5" x 10' long rail - extruded 6105-T5 aluminum, rail connector, joining plates, SS hardware, 1/4" ball-end Allen wrench.	\$ 140.00
RAIL-15-02	1.5" Rocket Stop	One-bolt bracket holds rocket on rail up off blast plate, SS SHCS and zinc t-nut included.	\$ 8.00
RAIL-15-03	1.5" Rail Connector Plates & Hrdw.	0.5" x 1.5" Aluminum bar, (2) side joining plates and SS Hrdw. for 2-Pc. Rail	\$ 45.00
RAIL-15-10	1.5" 1-Pc. Rail Cut-to-Length, 10'	1-Pc. 1.5" x Ft. "Lite" extruded aluminum rail, 10' Long. Truck Shipping.	\$ 75.00
RAIL-15-XX	1.5" Rail Cut-to-Length, Ft.	1-Pc. 1.5" x Ft. "Lite" or Std. extruded aluminum rail, cut to length. 20' Max. Special Shipping.	\$ Call
RODS-75-02	0.75" x 24" SS Pipe & Hrdw.	Adapts 1.5 Rail to any pad that accepts a 0.75" rod	\$ 35.00



1.5" RAIL KIT #RAIL-15-00



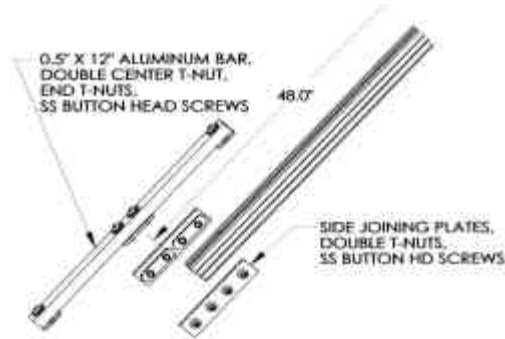
ROCKET STOP #RAIL-15-02



1.0" RAIL KITS			
Stock No.	Description	Function	List Price
RAIL-10-00	1.0" Rail Kit	1-Pc. 1" x 6' long rail, Rocket Stop, 0.5" Mount Rod, 3/16" Allen Key & all Hrdw. Ships UPS.	\$ 63.00
RAIL-10-01	1.0" Rail Only	1-Pc. 1" x 6' long rail - extruded 6105-T5 aluminum	\$ 30.00
RAIL-10-02	1.0" Rocket Stop	One-bolt bracket holds rocket on rail up off blast plate, SS SHCS and zinc t-nut included	\$ 8.00
RAIL-10-03	1.0" Rail 4' Extension Kit	1-Pc. 1" x 4' long rail, side joining plates, and Hrdw. To make 10' 2-Pc. free-standing rail.	\$ 55.00
RAIL-10-04	1.0" Rail Connector Plates & Hrdw.	0.5" x 1.0" Aluminum Angle, side joining plate and SS Hrdw. For 2-Pc. rail.	\$ 33.00
RAIL-10-05	1.0" Rail Side Connector Plates & Hrdw. only	(2) Side joining plates and SS Hrdw. only. For 2-Pc. Rail mounted piggyback.	\$ 20.00
RAIL-10-06	1.0" Rail Piggyback Hrdw.	Mounts 1.0" rail on center of 1.5" rail face. (2) Hrdw. sets per rail section.	\$ 5.00
RAIL-10-10	1.0" Rail Only, 10' Long	1-Pc. 1" x 10' long rail. Must be supported along length with structural member or 1.5" rail. Use Piggyback Hrdw. Truck shipping.	\$ 40.00
RODS-05-01	0.50" x 18" SS Rod & Hrdw.	Adapts 1.0" Rail to any pad that accepts a 0.50" rod	\$ 25.00



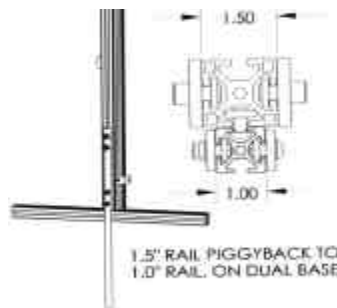
1.0" RAIL KIT #RAIL-10-00



1.0" RAIL 4' EXTENSION #RAIL-10-03



ROCKET STOP #RAIL-10-02

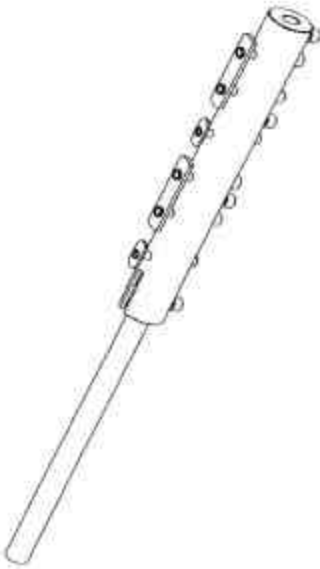


1.5" RAIL PIGGYBACK TO 1.0" RAIL, ON DUAL BASE

# X-ROCKETS LAUNCH SYSTEMS

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<b>ADAPTERS</b>			
Stock No.	Description	Function	List Price
ADAP-15-01	Universal Adapter & 12" Ext. Pad Pipe	1.5" x 12" long Aluminum adapter w/ 0.75" x 18" long pad pipe, accepts # LNCH-15-03 Horizontal Base Rail of Drop-down launcher, accepts 1.5" and 1.0" Rails directly, accepts up to 0.5" launch rod in top end. SS SHCS hdrw. & rail t-nuts for both rails included.	\$ 135.00
ADAP-15-02	Rod Adapter & 12" Ext. Pad Pipe	1.5" x 15" long Aluminum adapter, w/ 0.75" x 18" long pad pipe, accepts # LNCH-15-03 Base Rail of Drop-Down Launcher, accepts up to 0.5" rocket launch rod, or 0.5" rod used w/ 1.0" Rail Kit	\$ 65.00



**UNIVERSAL ADAPTER #ADAP-15-01**



**ROD ADAPTER #ADAP-15-02**

NOTE: All assemblies include Stainless Steel machine screws, and black zinc plated rail Tee-Nuts.