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From: Sam O. Olivarez <soolivarez@ebsci.com>

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Sam O Olivarez, Technical Sales

Subject: working with "fluid power"

Thank you for letting me meet with you in your office last week.

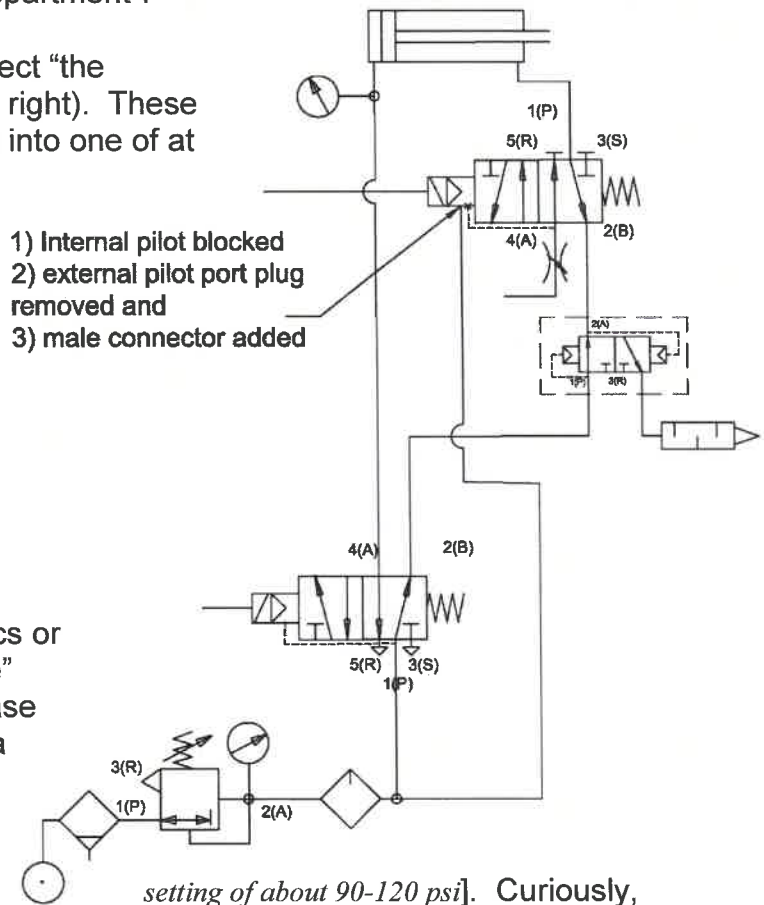
After our discussion, I put together some information about "fluid power"(in general, and hose & fittings in particular – see attached article titled "Hydraulic Hose vs. Industrial Hose...") and some thoughts that BSCI (Barrera's Supply) has learned over the last 50+years – about the time that we dedicated a portion of our building as a "hose department".

Usually, "hose" and/or "tubing" are used to connect "the COMPONENTS in a circuit (as illustrated on the right). These "schematics" (schematic drawing) can usually fit into one of at least three categories:

category	examples
1) circuit"	lines, intersections, other
2) users of the fluid: , direction	cylinders or motors valves, pilots, spring
3) controlling	
4) general controlling Others	flow, check, silencers
5) preparation	filters, lubricators, regulators, gauges
6) annotations	Port number(s), etc

When working with Fluid Power (either hydraulics or pneumatics), components work "under pressure" a.k.a. PSI – Pounds per Square Inch. In the case of "hydraulics" this is usually accomplished via a liquid [*probably a petroleum base*] fluid – whose pressure can range up to 3,000 psi and in the case of "pneumatics", this fluid is in the gaseous state [*like compressed air - usually at a "compressed air" retains "water vapor when compressed" and this can "rust out" any metal which it touches!*

When the hydraulic fluid is "leaking" in the liquid state, this can be messy and annoying; and, when the pneumatic fluid (is in the gaseous state), the leak(s) can maybe be heard as a "hiss" or seen as a vapor.

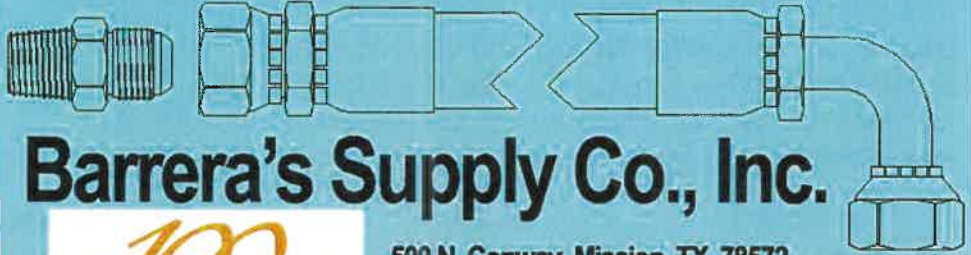


setting of about 90-120 psi]. Curiously,

This “fluid” is transferred from one part of the circuit’s components to another via piping or tubing. It is these “transfer” components about which BSCI’s “Hose Department” specializes. (Entrance is at the alley of 500 N Conway and Rafael Ramirez (5th) Street.



Hose Department →



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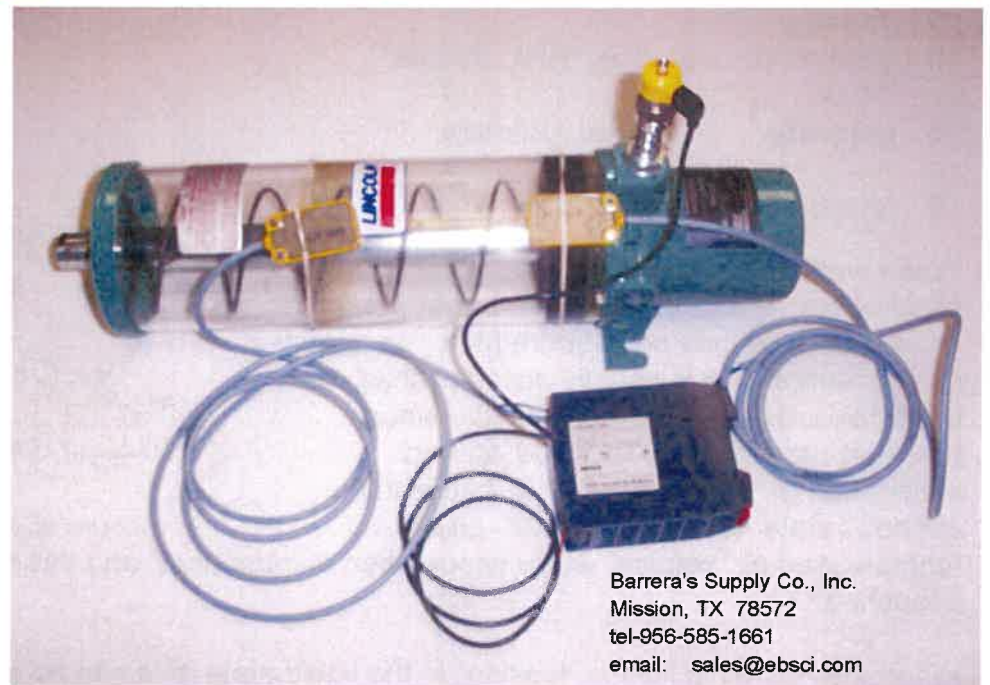
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Besides Hose & Fittings, BSCI is also an authorized distributor for Lincoln Lubrication and has put together systems for providing grease or oil to automatically keep a piece of equipment lubricated.

It is assumed that one of the areas of responsibility for which The City of Mission's Facilities and Fleet operations is probably charged with the responsibility to make sure that some of the city's equipment is properly and periodically lubricated.



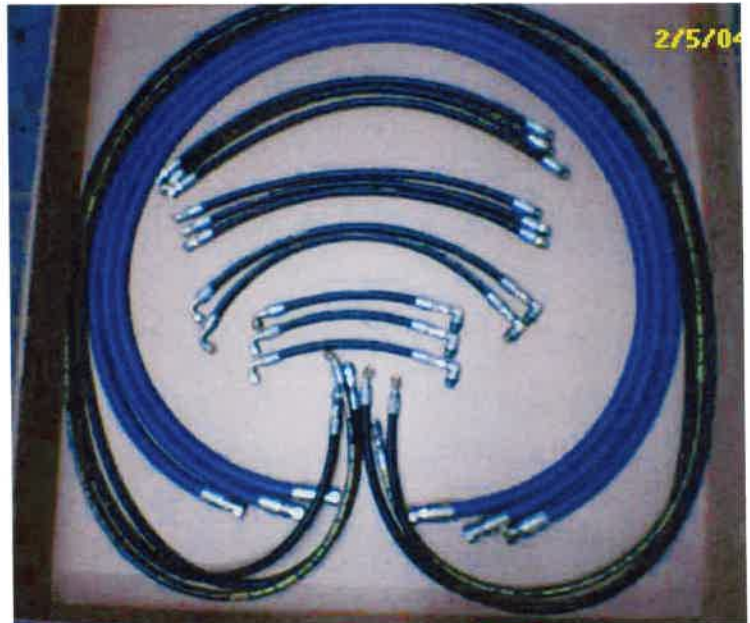
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As the photos on the previous page and this page illustrate, BSCI also has the capacity to design and assemble complete circuits for pneumatic systems in particular and hydraulic system in general.

This photo (on the left) shows a 5-gallon bucket installed as part of a “pressure primer” that BSCI designed for a local maquila. The contents of the grease bucket can be any viscosity (flow) and can be discharged as needed.

BSCI can work with you and/or the City of Mission Facilities and/or Fleet operation (or maybe the engineering department) to determine if this delivery system should be appropriate for a permanent installation, and whether it should be either manual or mechanically operated (maybe via an automated system – see below).

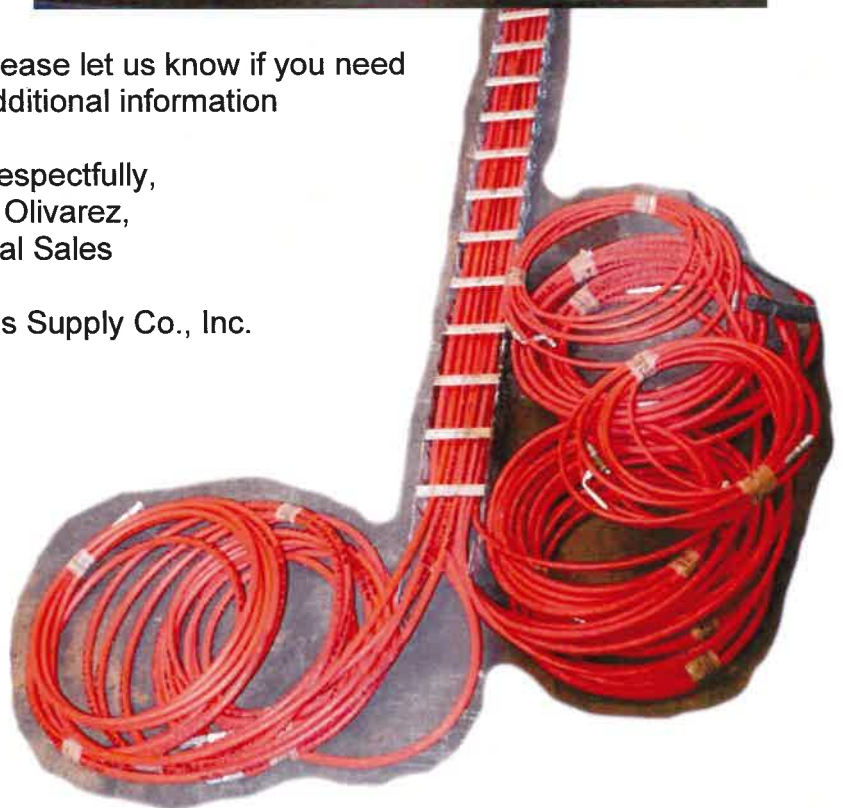
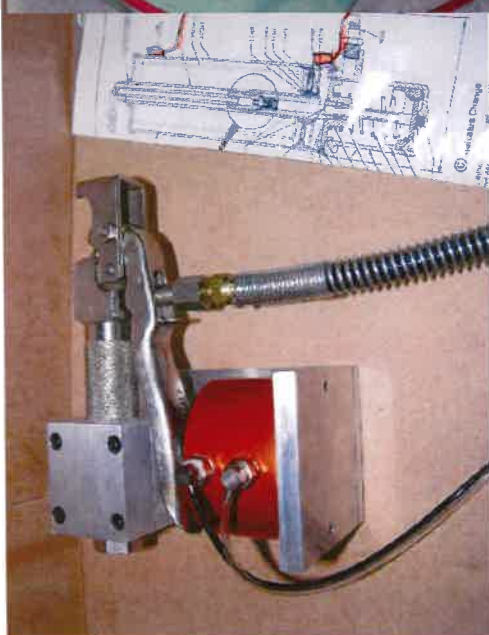
The “ORANGE” hose illustrated below, is “Electrical Non-Conductive” and is often required for equipment (booms) used on or around “High-Voltage” power lines. These hoses are “non-wire” braid or spiral re-enforced.



Please let us know if you need additional information

Respectfully,

Sam O. Olivarez,
Technical Sales
BSCI
Barrera's Supply Co., Inc.





Qty	Unit	PART NUMBER	DESCRIPTION	Price	Total
1		16 FTX-S	Male Conn.		11.80

Qty	U/M	Part Number	Descr	Price	Tt
1	ea	16FTX-S	Male Connector		11.80

1		101434-4			13.08
1		BH2-60			41.07

Qty	U/M	Part Number	Descr	Price	Tt
1	ea	10143-4-4	Male Coupler		13.08
1	Ea	BH2-60	Quick Coupler		41.07

		Hose Assy.		
1		487TC-8		93.35
		x 10143-12-8		
		x 10643-8-8		
		x 63"		

Qty	U/M	Part Number	Descr	Price	Tt
		Hose Assy			
1		487TC-8	hose		93.35
		x 10143-12-8	end#1		
		x 10643-8-8	end#2		
		x 63"8	length		

1		12F650X-S Straight conn.	<81.24	
1		12C50X-S E	25.20	
1		12HTX-S	13.59	
2		10643-12-12 Krimped	26.77	53.54

Qty	U/M	Part Number	Descr	Price	Tt
1		12F650X-S	Straight Connector		81.24
1		12C50X-S	E		25.20
1		12HTX-S			13.59
2		10643-12-12	Krimped	26.77	53.54

Qty	Unit	PART NUMBER	DESCRIPTION	Net Price	Net Total
1		9008-06-06 Adapter			17.94
1		3/8 DD-S Elbow			13.86

Qty	U/M	Part Number	Descr	Price	Tt
1		9008-06-06	Adapter		47.94
1		3/8 DD-S	Elbow		13.86

Qty	Unit	PART NUMBER	DESCRIPTION	Price	Total
1		216P-12	Hex Nipple		22.94
10		2-007	O-Rings	.35	3.50

Qty	U/M	Part Number	Descr	Price	Tt
1		216P-12	Hex Nipple 3/4" npt		22.94
10		2-007	O-Rings	.35	3.50

2		ES12HB	Silencer	13.63	27.26
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Qty	U/M	Part Number	Descr	Price	Tt
2		ES12HB		13.63	27.26

Qty	Unit	PART NUMBER	DESCRIPTION	Price	Total
1		919-10			274.18
		x 10691N-10-10			
		x 10691N-10-10			
		x 10 ft			
2		10PNTX-S	Plugs	6.91	13.82
					288.00

Qty	U/M	Part Number	Descr	Price	Tt
1		919-10	Hose 5/8		274.18
		x 10691N-10-10	End #1		
		x 10691N-10-10	End #2		
		x 10 ft	length		
2		10PNTX-S	Plugs	6.91	13.82
					288.00

Qty	Unit	PART NUMBER	DESCRIPTION	Net Price	Net Total
1		6F50XS	Adapter		4.40

Qty	U/M	Part Number	Descr	Price	Tt
1		6F50X-S	3/8 flare x O-ring Adapter		4.40

Qty	Unit	PART NUMBER	DESCRIPTION	Price	Total
1		16 FTX-S	Male Conn.		11.80

Qty	U/M	Part Number	Descr	Price	Tt
1	ea	16FTX-S	Male Conn		11.80

1		10143-4-4			13.08
1		BH2-60			41.07

Qty	U/M	Part Number	Descr	Price	Tt
1	ea	10143-4-4	Male Coupler		13.08
1	Ea	BH2-60	Quick Coupler		41.07

1		Hose Assy. 487TC-8 x 10143-12-8 x 10643-8-8 x 63"			93.35
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Qty	U/M	Part Number	Descr	Price	Tt
		Hose Assy			
1		487TC-8	hose		93.35
		x 10143-12-8	end#1		
		x 10643-8-8	end#2		
		x 63"	length		

1		12 F650V-S Straight Conn.			<8/24>
1		12 C50X-S E			25.20
1		12 HTX-S			13.59
2		10643-12-12 Krimged			26.77 53.54



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Qty	U/M	Part Number	Descr	Price	Tt
1		12F650X-S	Straight Connector		81.24
1		12C50X-S	E		25.20
1		12HTX-S			13.59
2		10643-12-12	Krimped	26.77	53.54

Qty	Unit	PART NUMBER	DESCRIPTION	Net Price	Net Total
1		9008-06-06	Adapter		17.94
1		3/8 DD-S	Elbow		13.86

Qty	U/M	Part Number	Descr	Price	Tt
1		9008-06-06	Adapter		47.94
1		3/8 DD-S	Elbow		13.86

Qty	Unit	PART NUMBER	DESCRIPTION	Price	Total
1		216P-12	Hex Nipple		22.94
10		2-007	O-Rings	.35	3.50

Qty	U/M	Part Number	Descr	Price	Tt
1		216P-12	Hex Nipple 3/4" npt		22.94
10		2-007	O-Rings	.35	3.50

2		ES12HB	Silencer	13.63	27.26
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Qty	U/M	Part Number	Descr	Price	Tt
2		ES12HB		13.63	27.26

Qty	Unit	PART NUMBER	DESCRIPTION	Unit Price	Total
1		919-10			274.18
		x 10691N-10-10			
		x 10691N-10-10			
		x 10 ft			
2		10PNTX-S	Plugs	6.91	13.82
					288.00

Qty	U/M	Part Number	Descr	Price	Tt
1		919-10	Hose 5/8		274.18
		x 10691N-10-10	End #1		
		x 10691N-10-10	End #2		
		x 10 ft	length		
2		10PNTX-S	Plugs	6.91	13.82
					288.00

Qty	Unit	PART NUMBER	DESCRIPTION	Net Price	Net Total
1		6F50X-S	Adapter		4.40

Qty	U/M	Part Number	Descr	Price	Tt
1		6F50X-S	3/8 flare x O-ring Adapter		4.40

1		387TC-12			109.69
		x 10643-10-12			
		x 10643-12-12			
		x 34"			
1		12 GTX-S			16.05
1		20143-12-12			94.86

Qty	U/M	Part Number	Descr	Price	Tt
1		387TC-12	Hose ¾ id		109.69
		x 10643-10-12	End #1 5/8 JIC fem		
		x 10643-12-12	End #2 ¾ JIC fem		
		x ¾ in	length		
1		12 GTX-S	Fem flare Plug		16.05
1		20143-12-12	reusable male NPT		94.86



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1		8 x H L6		40 ⁶⁰	40 ⁶⁰
1		8 G6X-S		23 ⁶⁴	23 ⁶⁴
1		3/8 x 1/4 PTR-S Red. Bushing		3 ⁹⁹	3 ⁹⁹
4		8 PNTX-S Plugs		5 ²⁰	20 ⁸⁰
4		8 FNTX-S caps		5 ⁸⁵	23 ⁴⁰

Qty	U/M	Part Number	Descr	Price	Tt
1		8XHL6			109.69
1		8G6X-S	Fem JIC swivel		23.64
1		3/8 x 1/4 PTR-S	Reducer bushing		3.99
4		8-PNTX-S	Plugs JIC	5.20	20.80
4		8-FNTX-S	Caps JIC	5.85	23.40

5ft		1J-158-01		90 ⁴	4 ⁵⁰
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Qty	U/M	Part Number	Descr	Price	Tt
5ft		1J-158-01	hose	.90	4.40

1		5 GTX-S		22 ⁰⁰	22 ⁰⁰
1		1/4 x 1/8 GG-S		8 ⁵¹	8 ⁵¹
1		5320 Proto		6 ²⁶	6 ²⁶

Qty	U/M	Part Number	Descr	Price	Tt
1		5 GTX-S	Female JIC	22.00	22.00
1		1/4 x 1/8 GG-S	Female reducer npt	8.51	8.51
1		5320 Proto tool		6.26	6.26

30		5203L-08		7 ⁴⁵	223 ⁵⁰
30		9500 14mm Washer		1 ⁰⁰	30 ⁰⁰

Qty	U/M	Part Number	Descr	Price	Tt
30	ea	5203L-08		7.45	233.50
30	ea	9500-14	mm washer	1.00	41.07

40ft		3/8 049		5.75	230.00
80ft		1/2 049		6.75	540.00
40ft		5/8 065	065	9.75	390.00
11ft		1" x 065		16.00	176.00

Qty	U/M	Part Number	Descr	Price	Tt
40	ft	3/8od 049	Steel tubing	5.75	230.00
80	ft	1/2od 049	Steel tubing	6.75	540.00
40	ft	5/8od 065	Steel tubing	9.75	390.00
11	ft	1" x 065	Steel tubing	16.00	176.00

21		66 C 4-2		6.00	126.00
24		222 P 2-2		3.07	73.68
24		5000 Grease Fitting		1.00	24.00

Qty	U/M	Part Number	Descr	Price	Tt
21	ea	66 C 4-2	Brass fem reducer	6.00	126.00
24	ea	222 P 2-2	npt male connector	3.07	73.68
24	ea	5000	grease fittings	1.00	24.00

2		510D-6 x 15C568-6		192.55	385.10
		x 15C568-6			
		17 ft OAL			
2		8 PNLO-S	Plugs	6.00	12.00
2		8 FNL-S	Cap	8.50	17.00

Qty	U/M	Part Number	Descr	Price	Tt
2		510D-6	Hose asbly 3/8 id	192.55	385.10
		1JCS68-6	End #1		
		1JCS68-6	End#2		
		17 feet	OAL		
2		8 - PNLO-S	Plugs	6.00	12.00
2		8 - FNL-S	Cap	8.50	17.00

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1		8 CTX-S		11.78	11.78
Qty	U/M	Part Number	Descr	Price	Tt
1		8 CTX-S	flare JIC	11.78	11.78

Hydr. Hose Assemblies					
2		486 TC-4		58.02	116.04
		x 1J943-6-4	End #1		
		x 10643 6-4	End#2		
		x 11 inches	OAL		
Qty	U/M	Part Number	Descr	Price	Tt
2		486 TC-4	Hose asmbly 1/4 id	58.02	116.04
		x 1J943-6-4	End #1		
		x 10643 6-4	End#2		
		x 11 inches	OAL		

Steel tube Assembly					
1		3/8 x 065		58.02	116.04
		x 2 6 TX-S	End #1		
		x 2 6 BTX-S	End #2		
		x 76 inches	OAL		
Qty	U/M	Part Number	Descr	Price	Tt
		Steel Tube Assembly			
1		3/8 x 065	Steel tubing	58.02	116.04
2		x 6 TX-S flare	End #1 End #1		
2		x 6 BTX-S flare nut	End #2 End #2		
		x 76 inches	OAL		

1		2202 P6-6		11.00	11.00
2		68C6-6		7.50	15.00
2		125 HBL 6-6		5.00	10.00

	Hydr Hose Assembly		
1	487TC-4 x 106434-4 x 139434-4 x 10ft. 49	116 ⁷⁴	116 ⁷⁴
1	5 gallon hydr oil	66 ⁰⁰	66 ⁰⁰

1	387TC-12 x 1JS4310-12 x 1JS4312-12 x 26" OAC	160 ⁴⁷	160 ⁴⁷
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2	787TC-6 x 1054310-6 x 1034366-79 x 58 1/2" OAC	150 ⁸⁴	150 ⁸⁴
10ft	NPS 077 Hose Protector	15 ⁰⁰	15 ⁰⁰
4	ear lamps	25 ⁰⁰	100 ⁰⁰
	Tax id # 2000260		

	Hydr Hoses Assembly		
2	487TC-12 x 1JS4312-12 x 1JS4312-12 x 10ft + 8'6" OAC	659 ⁰²	659 ⁰²

	Hydr. Hose Assembly	Price	Total
1	387TC-6 x 1064366 x 1064366 x 17 1/2" OAC	43 ³⁴	43 ³⁴



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Hydr Hose Assembly		
1	560TJ-6x103566-6 X1FL566-6 X16ft+8"	165 ⁴⁰ 165 ⁴⁰
1	9336-06-06 male Jis Union	13 ⁵⁰ 13 ⁵⁰

Hydr Hoses Asse			Price	Total
2	387TC-6x106436-6 X1C34312-6 1 X 19ft+6" OAL 1 X 19ft+3" OAL	201 ⁸⁰ 201 ⁸⁰ 200 ⁸⁰ 200 ⁸⁰		

Hydr Hoses Assembly			Price	Total
2	487TC12x1064312-12 X1374312-12 ① X 7'6 1/2" OAL ① X 6'1 1/2" OAL	245 ⁸⁰ 245 ⁸⁰ 210 ¹⁶ 210 ¹⁶		
12ft	5HP 125B Hose Coil Protector	5 ²⁵ 5 ²⁵		

Hydr Hoses Assembly			Price	Total
1	387TC-6x106438-6 X139436-6 X70 1/2" OAL	95 ¹⁶ 95 ¹⁶ 95 ¹⁶		
1	387TC-6x106438-6 X141436-6 X70 1/2" OAL	103 ³⁷ 103 ³⁷ 103 ³⁷		
11ft	NPS 09L-100 sleeve hose Protector	15 ⁹ 15 ⁹		
4	earclamps	2 ⁵⁰ 2 ⁵⁰		