Final budget						
Part	Description	Part number	Qty used	Supplier	unit price	Preowned
Rover						
65mm Off Road Tires		2.72134E+11	1	Ebay Vendor: skull_m	2.72134E+11	No
Aluminium Sheet		-	33000	Early Bird Steel Brisba	-	No
Romak Hexagon Nuts		2310899	0	Bunnings Warehouse	2310899	No
Romak M3 Bolts		2310352	0	Bunnings Warehouse	2310352	No
Eiger 40Lumen Torches		4410536	1	Bunnings Warehouse	4410536	No
Waterproof LED strip		-	12	Ebay Vendor: green-li	-	No
3mm Hex Wheel Adapto	or	PL-2682	2	Little Bird Electronics	PL-2682	No
12V 9.8kg/cm torque mi	icro motors		4	Ebay Vendor: ce10wy		No
P65 Electronics Enclosu	re					No
5- Notch Make-a-bracke	et .	-	1	Carinya	-	No
Cable Spirals			1 meter	Ebay Vendor: lucky.wa	<u>I                                    </u>	No
9g Micro Servo				Ebay Vendor: xinguan	g-buy	No
Zenith 20mm Angle Brad	cket	2760591	2	Bunnings Warehouse	2760591	No
Claw						
Servo	13Kgcm	MG995	1		5.1	No
Aluminium servo claw			1	Ebay Vendor: flyfunte	ch2014	No
Claw arm		I/N: 3962006	1	Bunnings Warehouse		No
Bolts			14	Bunnings Warehouse		No
Rubber bands	No.18			Officeworks		No
Alluminium bracket	90 degrees bent		30mm	Bunnings Warehouse	3.84 aud/m	No
Plexiglass			50mm x 20 mm	-	0.6	Yes
Nuts			13	Bunnings Warehouse		No
Buoy						
Bolts						
Nuts						
EVA Foam Tiles	EVA Foam Tiles		0.4	Kmart	10	No

25m PVC Pipe						
25m PVC Pipe Elbow Cor	nector					
Food Containers	Food Containers		2	Woolworths	1.666666667	Yes
Spiral Binding						
Miscellaneous						
15 Core Unscreened PVC	15 Core Unscreene	d PVC Cable	2	RS	2.372	No
Motor Driver			1			Yes
Buck			1			No
HC-05			1			No
Rocker Switch, Non Illum	Rocker Switch, Non	A8L-11-15N1	1		1.52	No
Battery Pack	10 Batteries pack		1	Jaycar	4.75	No
DB15 Male Header	DB15 Male Header		2	Digikey	0.51214	No
DB15 Backshell	DB15 Backshell		2	Digikey	0.345	No
Central Controller PCB						
Atmega324	Atmega324	Atmega324-AU-1322	1	Mouser	4.06	Yes
10K Ohm Resistor	10K Ohm Resistor		1	Digikey	0.00148	No
1K Ohm Resistor	1K Ohm Resistor		9	Digikey	0.00106	No
1uF Capacitor	1uF Capacitor		4	Jameco	0.023	No
100pF Capacitor	100pF Capacitor		5	Jameco	0.005	No
L7805CD2T Volateg Regu	Positive voltage reg	L7805CD2T	1	Mouser	0.321	No
L293D Motor Driver	Push-pull four chan	L293D	1	Digikey	2.84	Yes
16 Pin Socket	16 Pin Socket		1	Jameco	0.39	Yes
2 Pin Header	KK Style - Straight H	leader Male		Element14	0.113	No
2 Pin Header	KK Style - Straight H	leader Female		Element14	0.031	No
3 Pin Header	KK Style - Straight H	leader Male		Element14	0.296	
3 Pin Header	KK Style - Straight H			Element14	0.099	
4 Pin Header	KK Style - Straight H			Element14	0.408	
4 Pin Header	KK Style - Straight H	leader Female		Element14	0.139	No
Crimp	KK Style Crimp		29	Element14	0.027	No
2x3 Pin Header	6 Way 2 Row Head	er	1	modDIY	0.59	No
DB15 Female Header	DB15 Female Head			Digikey	0.81788	No
Diode	0603 Series Blue LE	697-3617	4	RS	0.243	No

Motor Shield	2A(MAX single bridge)			gogo-life	1.36	No
PCB	55mm x 60mm x 1.6mm 2 layer PCB			PCBway	1	No
Distribution PCB						
1K Ohm Resistor	1K Ohm Resistor		3	Digikey	0.00106	No
1uF Capacitor	1uF Capacitor		2	Jameco	0.023	No
100pF Capacitor	100pF Capacitor		4	Jameco	0.005	No
3 Pin Header	KK Style - Straight H	leader Male	3	Element14	0.296	No
3 Pin Header	KK Style - Straight H	leader Female	3	Element14	0.099	No
4 Pin Header	KK Style - Straight Header Male			Element14	0.408	No
4 Pin Header	KK Style - Straight H	leader Female	5	Element14	0.139	No
Crimp	KK Style Crimp		29	Element14	0.027	No
DB15 Female Header	DB15 Female Head	er	1	Digikey	0.81788	No
Diode	0603 Series Blue LE	697-3617	1	RS	0.243	No
PCB	38mm x 45mm x 1.	6mm 2 layer PCB	1	PCBway	1	No
Video feedback						
VHS-USB adaptor	VHS to usb convert	er	1		6.28	No
Transmitter/Receiver	2.4Ghz Analogue sig	gnal	1	BYNCG Car Accessorie	4.95	No
Rearview Camera	NTSC/PAL		1	755shipping	4.55	No
Battery Pack	12 V battery holder	12 V battery holder			1.3	No
Microservo	5V micro servoi		1	Ociodual	1.5	No

25 mm Saddles				
Alluminium:				
Sheet			33000	1
Rod				1
Wood				
	M3 romak		20	
Nuts	romak hexagon		20	

Glands		3	
Conduit pipe		1.515151515	1.48
Manipulator		1	5.95 AUD
DC motor		4	8.86
Servo		1	
Foam			
Containers			
Stepper		1	
Brackets		2	

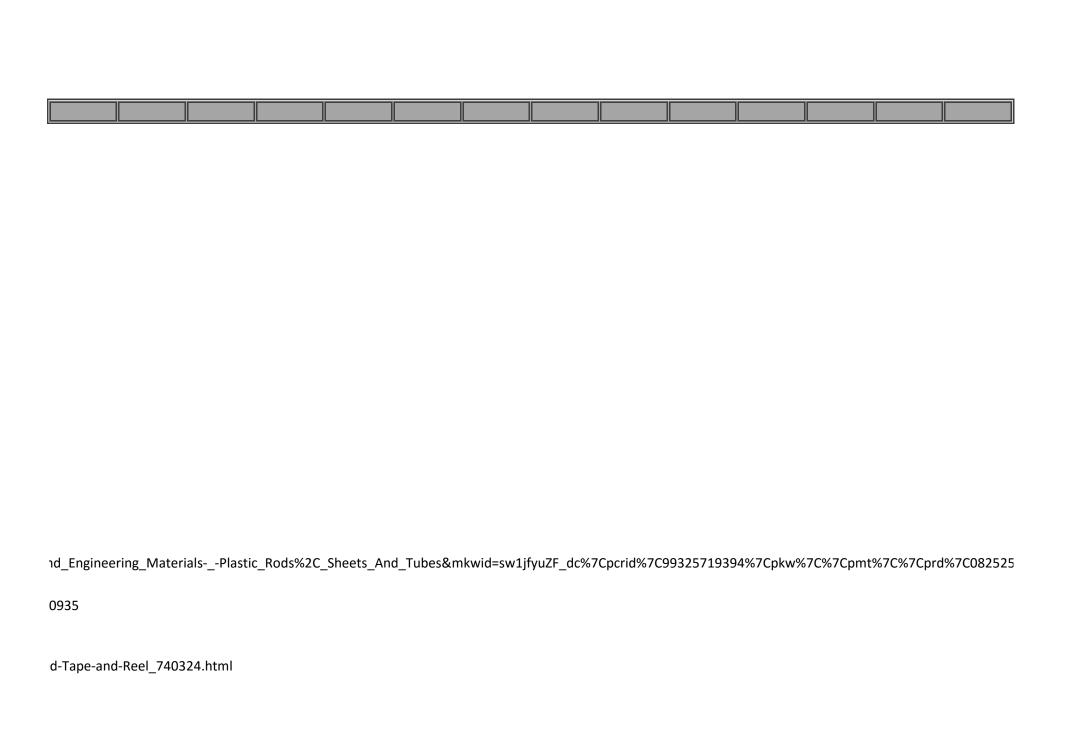
Datashee	et provide Cost	Sum Total
	61.9806	165.4581733
No	6.9	
No	2.19	
No	1.95	
No	1.95	
No	3.67	
No	0.3356	
No	5.98	
No	35.44	
No		
No	0.435	
No	0.15	
Yes	1.69	
No	1.29	
	33.45	
Yes	5.1	
Yes	8.54	
No	5	https://www.bunnings.com.au/carinya-175x200x19x15mm-varnished-plywood-angle-bracket_p3962006
No	5	
No		https://www.officeworks.com.au/shop/officeworks/p/j-burrows-no-18-rubber-bands-100g-jbrb18100b?cm_vc=subcat1
No		https://www.bunnings.com.au/metal-mate-12-x-12-x-1-4mm-1m-aluminium-equal-angle_p1067849
No	0.3	http://au.rs-online.com/web/p/products/0825253/?grossPrice=Y&cm_mmc=AU-PLAgooglePLA_AU_EN_Abrasives_Ar
No	5	
	<u></u>	https://www.digikey.com/product-detail/en/microchip-technology/ATMEGA324P-20AUR/ATMEGA324P-20AURCT-ND/344
		https://www.digikey.com/product-detail/en/yageo/RC0402JR-0710KP/YAG1281TR-ND/4935296
		https://www.digikey.com/product-detail/en/yageo/RC0402JR-071KL/311-1.0KJRTR-ND/726408
No	4	http://www.jameco.com/z/12063G105ZAT2A-AVX-Capacitor-1-uF-25-Volt-Y5-Volt-20-To-80-Surface-Mount-1206-Embosse

	0	http://www.jameco.com/z/GRM1885C1H101JA01J-Murata-Capacitor-100pf-50-Volt-C0G-5-Surface-Mount-0603-Paper-Tag
		http://au.mouser.com/ProductDetail/STMicroelectronics/L7805CD2T-TR/?qs=%2fha2pyFaduj2Hv%2fZGx1UWnCsernFroYrL
No		https://www.digikey.com.au/product-detail/en/stmicroelectronics/L293D/497-2936-5-ND/634700
NO		http://www.jameco.com/z/6100-16-R-Socket-IC-16-Pin-Machine-Tooled-Low-Profile-0-3-Inch-Wide_37402.html
		http://au.element14.com/molex/22-27-2021/header-square-pin-2-54mm-2way/dp/9731148?MER=bn_level5_5NP_Engage
<u></u>		
Yes		http://au.element14.com/molex/22-01-3027/housing-square-pin-2-54mm-2way/dp/1462825?ost=22-01-3027&searchViev
Yes		http://au.element14.com/molex/22-27-2031/header-square-pin-2-54mm-3way/dp/9731156
Yes		http://au.element14.com/molex/22-01-3037/housing-female-3way/dp/1462838?ost=22-01-3037&searchView=table&iscrf
Yes		http://au.element14.com/molex/22-27-2041/header-square-pin-2-54mm-4way/dp/9731164?ost=22-27-2041&scope=part
Yes		http://au.element14.com/molex/22-01-3047/housing-female-4way/dp/1462831?MER=bn_level5_5NP_EngagementRecSin
No		http://au.element14.com/molex/08-50-0113/contact-crimp-terminal-30-22awg/dp/2063734?MER=bn_level5_5NP_Engage
Yes		https://www.moddiy.com/products/0.100%22-%282.54-mm%29-Breakaway-Male-Header%3A-2x40%252dPin%2C-Straight
Yes		https://www.digikey.com/product-detail/en/amphenol-fci/10090926-P154XLF/609-4022-ND/2350294
		http://au.rs-online.com/web/p/visible-leds/6973617/?searchTerm=697-3617&relevancy-data=636F3D3126696E3D493138
Yes		http://www.ebay.com.au/itm/L298N-Stepper-Motor-Drive-Dual-H-Bridge-Controller-Board-DC-Module-For-Arduino-/4013
Yes	0.00148	
Yes	0.00954	
Yes	0.092	https://www.digikey.com/product-detail/en/yageo/RC0402JR-071KL/311-1.0KJRTR-ND/726408
Yes	0.025	http://www.jameco.com/z/12063G105ZAT2A-AVX-Capacitor-1-uF-25-Volt-Y5-Volt-20-To-80-Surface-Mount-1206-Embosse
Yes	0.321	http://www.jameco.com/z/GRM1885C1H101JA01J-Murata-Capacitor-100pf-50-Volt-C0G-5-Surface-Mount-0603-Paper-Tag
Yes		http://au.element14.com/molex/22-27-2031/header-square-pin-2-54mm-3way/dp/9731156
No		http://au.element14.com/molex/22-01-3037/housing-female-3way/dp/1462838?ost=22-01-3037&searchView=table&iscrf
Yes		http://au.element14.com/molex/22-27-2041/header-square-pin-2-54mm-4way/dp/9731164?ost=22-27-2041&scope=part
Yes		http://au.element14.com/molex/22-01-3047/housing-female-4way/dp/1462831?MER=bn_level5_5NP_EngagementRecSin
Yes		http://au.element14.com/molex/08-50-0113/contact-crimp-terminal-30-22awg/dp/2063734?MER=bn_level5_5NP_Engage
Yes		https://www.digikey.com/product-detail/en/amphenol-fci/10090926-P154XLF/609-4022-ND/2350294
Yes		http://au.rs-online.com/web/p/visible-leds/6973617/?searchTerm=697-3617&relevancy-data=636F3D3126696E3D493138
Yes	0.556	
Yes	0.783	
Yes	0.59	http://www.ebay.com.au/itm/USB-2-0-Video-Audio-VHS-to-DVD-Converter-Capture-Card-Adapter-for-PC-WIN7-8-XP-/3022
No	0.81788	https://www.aliexpress.com/item/Car-backup-RCA-Video-2-4-Ghz-transmitter-Receiver-kit-for-Car-dvd-GPS-Player-Car/326

No	1.36	http://www.ebay.com.au/itm/12Volt-Plastic-Battery-Holder-Box-Storage-Case-For-8Pcs-AA-Batteries-Wire-Leads-/1518794
No	1	http://www.ebay.com.au/itm/SERVO-9g-MICROSERVO-Modelismo-para-Arduino-Robotica-micro-Aeromodelismo-/401323
	6.83306	http://www.ebay.com/itm/Mini-3A-DC-DC-Converter-Adjustable-Step-down-Power-Supply-Module-replace-LM2596s-/262
Yes	0.00318	http://www.ebay.com/itm/Dual-Motor-Driver-TB6612FNG-L298N-Stepper-Motor-Driver-Module-F-Arduino-PIC-AVR-/1122
Yes	0.046	http://www.ebay.com/itm/1-5-10PCS-HC-06-HC-05-30ft-Wireless-Bluetooth-RF-Transceiver-Module-RS232-TTL-/28222135
Yes	0.02	
Yes	0.888	
Yes	0.297	
Yes	2.04	
Yes	0.695	
Yes	0.783	
No	0.81788	
Yes	0.243	
No	1	
	18.38	
No	6.28	https://www.bunnings.com.au/deta-20mm-medium-duty-rigid-cond
No	4.95	http://www.ebay.com.au/itm/Manipulator-Alloy-Paw-Arm-Mechanical-Robotic-Claw-Clamp-for-Arduino-Robot-MG995-/25
Yes	4.55	
No	1.3	
Yes	1.3	
Total	165.4581733	







ne-and-Reel\_1856644.html .%252b1BRzCOsKw2LpWRkFQSuA%3d%3d

ementRecSingleItem\_4

v=table&iscrfnonsku=false&ddkey=http%3Aen-AU%2FElement14 Australia%2Fsearch

nonsku=false&ddkey=http%3Aen-AU%2FElement14 Australia%2Fsearch

ementRecSingleItem\_2

t.html

4E525353746F636B4E756D6265724D504E266C753D656E266D6D3D6D61746368616C6C26706D3D5E283F69292852537C5253207C52532D293F5C647B337D28. 28880600?hash=item5d7110bbd8:g:Pa0AAOSwcaFZG7vg

d-Tape-and-Reel\_740324.html pe-and-Reel\_1856644.html

nonsku=false&ddkey=http%3Aen-AU%2FElement14 Australia%2Fsearch

 $number look ahead \& exaMfpn=true \& search ref=search look ahead \& search View=table \& iscrfnonsku=false \& ddkey=http \% 3 Aen-AU \% 2 FE lement 14\_Australia \% 2 Fw \% 2$ 

ementRecSingleItem\_2

4E525353746F636B4E756D6265724D504E266C753D656E266D6D3D6D61746368616C6C26706D3D5E283F69292852537C5253207C52532D293F5C647B337D28

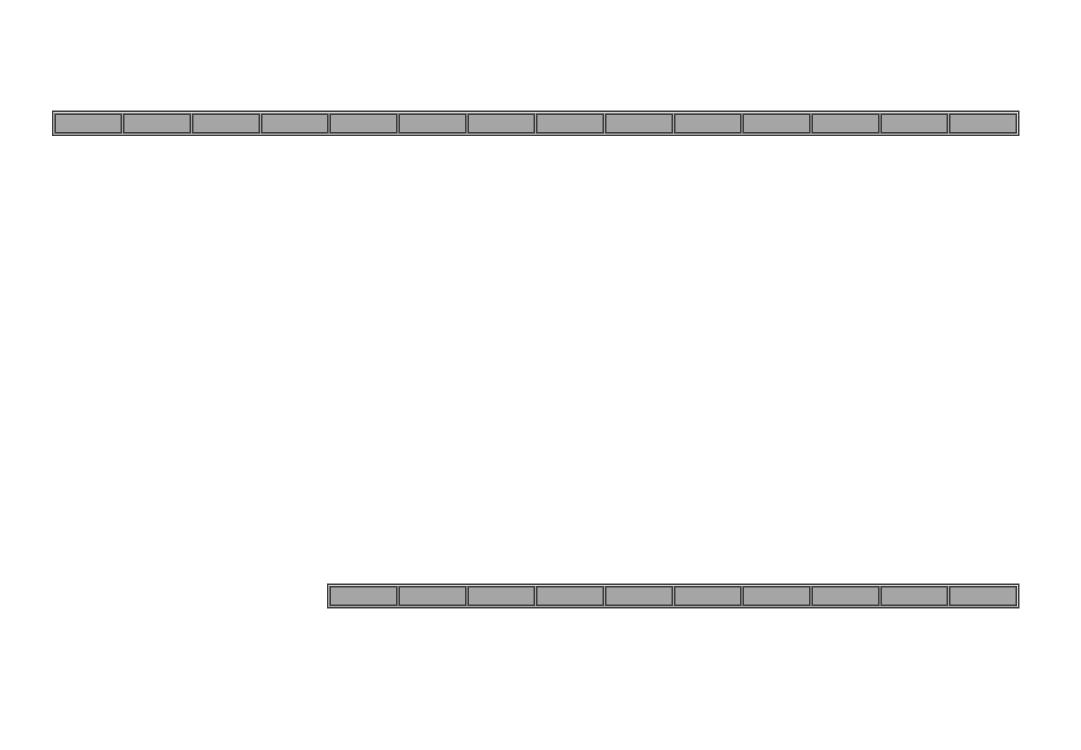
233765576?hash=item465e8946c8:g:b3QAAOSw32lYr6cl

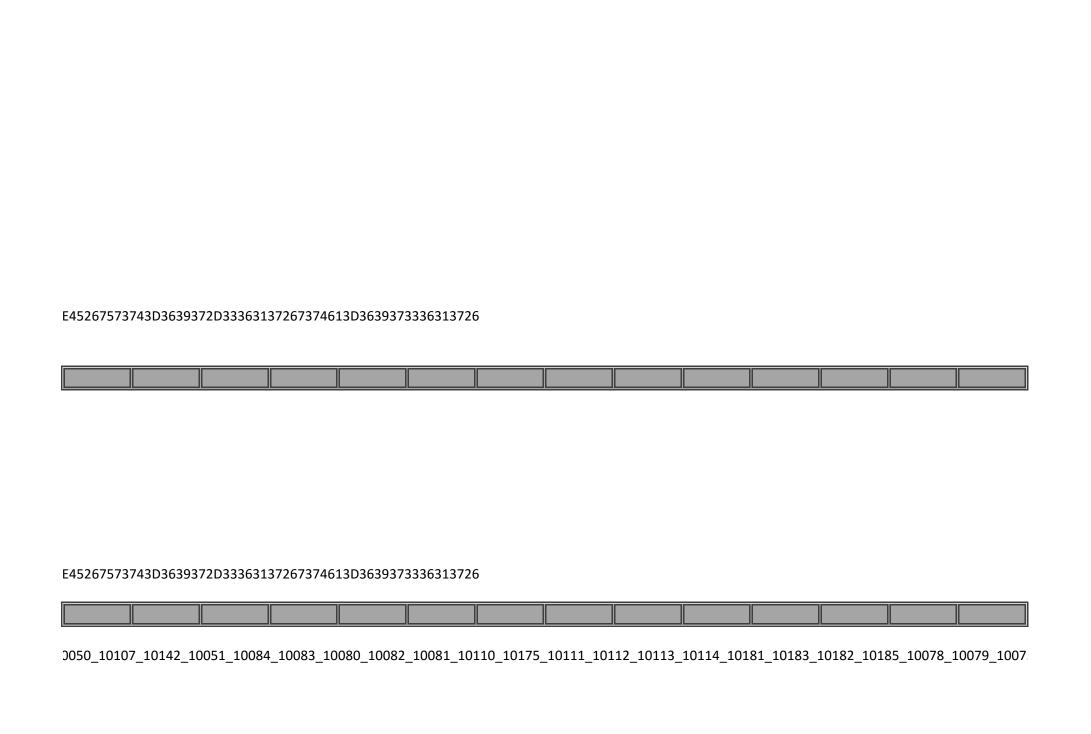
34710039.html?spm=2114.01010208.3.2.Ad3kPT&ws\_ab\_test=searchweb0\_0%2Csearchweb201602\_5\_10152\_10065\_10151\_10130\_10068\_436\_10136\_10137\_10136

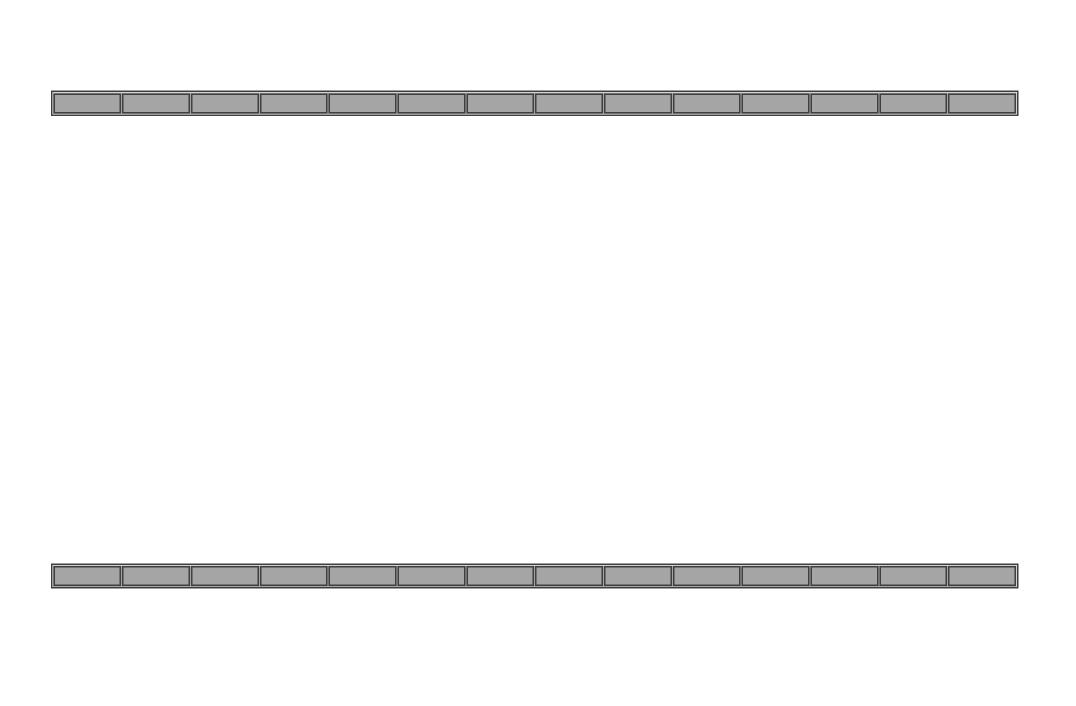
I40510?hash=item235cb8587e:g:i1oAAOSw5ZBWQEEk
335976?hash=item5d70bc2128:g:CP8AAOSwR29ZJDOv
136733300?hash=item3d08911e74:g:3b4AAOSwuAVW1QI1
36884243?var=&hash=item1a21d6f113:m:m\_HC9IKM7hc4LB5Mpio1e8Q
I296?var=&hash=item41b5b41180:m:mLTyAnZU3KIkLZHysLo8B5A

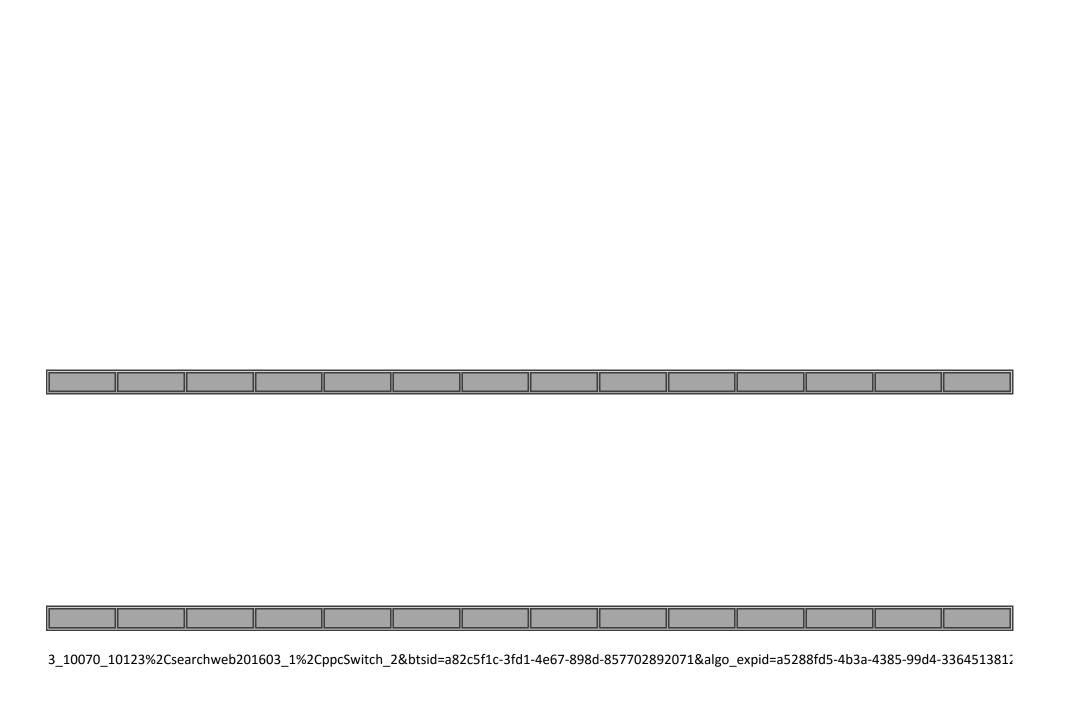
52857056617?hash=item3adf747d69:g:AloAAOSwB-1Y7Hc2

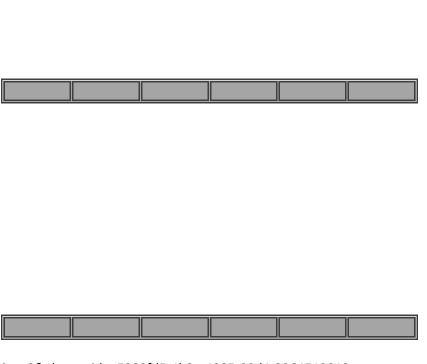
search						
5C73293F5B5C732D2F255C2E2C5D285C73	293F5C647B332C347D24	126706F3D313426736	SE3D592673743D52	535F53544F434E	35F4E554D424552	22677633D4E4F4
<u>                                     </u>			11 11	<u> </u>	1	l l
search						
5C73293F5B5C732D2F255C2E2C5D285C73	293F5C647B332C347D24	126706F3D313426736	E3D592673743D52	535F53544F434E	35F4E554D424552	22677633D4E4F4











2ee-0&algo\_pvid=a5288fd5-4b3a-4385-99d4-3364513812ee