TRACERS Launch Stack

Ordering Instructions



A few notes:

- The set consists of **1,528 total parts** and **98 lots** (unique items).
 - \circ The total price of this set should be between **\$130** and **\$160**, maybe a bit less if you're lucky 😊 .
- All necessary files purchase instructions, parts lists, build instructions are located here: https://tracers.physics.uiowa.edu/lego-model
- This set of instructions details how to use the BrickLink.com marketplace to buy all the pieces for the set. If you know of another method to purchase parts, feel free!
- These Lego models are for enjoyment and outreach. Neither the TRACERS mission nor anyone associated will financially benefit from purchases.
- If you have problems ordering:
 - o BrickLink customer support: email <u>bricklink@support.lego.com</u> or visit <u>https://www.bricklink.com/helpDesk.asp</u>
 - o If you run into issues with the files or have questions about the instructions, email gabriel-martin@uiowa.edu.
 - o If you do not receive all the pieces, you will need to work with the BrickLink vendors from whom you ordered.

Ordering the parts through BrickLink

- 1. Before you continue, it is helpful to be logged into your <u>https://www.bricklink.com</u> account in the same browser you are using for this order.
- 2. Locate the full parts list and save it to your computer.
 - a. Go to https://tracers.physics.uiowa.edu/lego-model
 - b. Scroll down to the "Files to use when purchasing" and click on "Parts List Launch Stack (BrickLink friendly XML file in a ZIP folder)"



3. Use the XML parts list you just downloaded to create a Wanted List on BrickLink.



- a. Go to <u>https://rebrickable.com</u> and login to your account (or register, first).
- b. Using the menu at the top of the page, navigate to "My LEGO", and select "My Part Lists".



Hint: this process will go faster if you register and are logged in ahead of time to your own accounts at the following websites:

- <u>https://rebrickable.com</u>
- <u>https://www.bricklink.com</u>

c. Click "Add new Part List" on the left side of the My Parts List page.



Parts window.

d. Click "Import/Delete Parts". (You can edit the name, but these instructions keep it as "Unnamed Part List")



e. Drag and drop the XML parts list file into the Import Parts window (or use the Select a File button). Click "Append Parts", then close the Import



f. Click on the new part list ("Unnamed Part List" in the image below) to open it.

Part Lists	Unnamed Part List						
Help Guide	Used in Builds: Yes • C Edit List Details						
list. Select a list below to show its parts.	Import/Delete Parts Add Part						
Part Lists	Image: Color • Image: Display Options • 100 • < Prev						
	Showing 98 of 98 unique parts/colors Q (1,528 total quantity)						
+ Add new Part List 🛛							

g. Click "Export Parts" and select "BrickLink XML" (important!)



h. A window like the one below will open. Click on the text in the gray box to copy it. Click "BrickLink Upload Page".



i. You should automatically be taken to the "Upload to Wanted List" page on BrickLink.com. Click on the "Upload BrickLink XML format" tab.

Wanted Lists Upload Part Out Search Buy	
Upload to Wanted List	FAQ and Help
Upload a file from your computer Upload BrickLink XML format	
Add to: Default Wanted List (0) 🔻	
Drag and drop a file here to get started	

- j. Click "Copy and paste here", paste the copied text into the box (as shown below).
 - i. In the "Add to:" drop-down, choose "Create New Wanted List". Name it something obvious, like "TRACERS launch stack"
 - ii. Hit "Proceed to verify items->".

		FAQ and Help
d a file from your computer Upload BrickLink XML format		
Add to: Create New Wanted List TRACERS launch stac	k	
ITEMID> <color>3</color> <minqty>6</minqty> <ite< td=""><td>M><itemtype>P<!-- Wanted List</td--><td>ID</td></itemtype></td></ite<>	M> <itemtype>P<!-- Wanted List</td--><td>ID</td></itemtype>	ID
ITEM> <item><itemtype>P</itemtype><itemid>6063COLOR><minqty>2</minqty></itemid></item> <item><itemtype>PTEMID>COLOR>3<minqty></minqty></itemtype></item> <item><itemtype>PITEMTYPE><itemid>18674</itemid>COLOR>3<minq ITEM><itemid>18674</itemid>COLOR>3<minq ITEM><itemid>18674</itemid>COLOR>3COLOR><minqty></minqty></minq </minq </itemtype><itemid>3070COLOR><minqty></minqty></itemid></item> <itemid>3070ITEMID>COLOR>3</itemid> COLOR>3 <td>D><color>3<!--<br-->EMTYPE><itemid>87580<!--<br-->M><itemtype>P<!--<br-->TY>4<!--<br-->D><color>3<!--<br-->EMTYPE><itemid>15712<!--<br-->M><itemtype>P<!--<br-->NOTY>16<!--</td--><td>0</td></itemtype></itemid></color></itemtype></itemid></color></td>	D> <color>3<!--<br-->EMTYPE><itemid>87580<!--<br-->M><itemtype>P<!--<br-->TY>4<!--<br-->D><color>3<!--<br-->EMTYPE><itemid>15712<!--<br-->M><itemtype>P<!--<br-->NOTY>16<!--</td--><td>0</td></itemtype></itemid></color></itemtype></itemid></color>	0

k. Scroll to the bottom and click "Add to Wanted List".

	98138 Dark Bluish Gray	Any	×	\diamond	4 🗘	0	\sim	//.		U	
	Tile, Round 1 x 1 98138 Light Bluish Gray	Any	•	0	8 0	0	\sim	11.			
100	Bracket 1 x 2 - 1 x 2 Inverted 99780 Black	Any	•	0	4 🗘	0	\diamond	11.			
								A	dd to Wan	ited List	

I. Click the View "TRACERS launch stack" button



4. Notes Before Purchasing!

Depending on your needs, this can be simple, or it may take a few additional steps.

- So to **Step 5** for "Easy Buy" if you don't mind ordering from any region or country, and don't want to mess with any store filtering options.
- > Go to Step 6 if you need to order from within your own country or want to check out some store filtering options.

5. Using the "Easy Buy" function to (finally) purchase your TRACERS pieces.

a. After step 3.n, you should see a page like what's shown below. Click the "Wanted Lists" tab.

Wanted Lists Up	oad Part Out Searc	h Buy				
TRACERS la	unch stack			0%		
Search Wanted Lis	t	Q More Options	Edit Downloa	d Upload	Add Item Apply Ord	er Se
98 items found 25	per pg v 1	of 4 Go < >		Sort By	Item Name v O	rder Up
		Apply: Color Condition	Price Quantity	Remark	Ô	Buy
0 selected	Move C Copy	Apply: Color Condition				
0 selected E	Move C Copy Description	Conditio	n Max Price	Quantity	Remarks	No

b. Click the "Easy Buy" button next to your "TRACERS launch stack" wanted list. It might take a bit to find stores that can fulfill the whole order.

Wanted Lists Upload	Part Out Sear	rch Buy			
gabrielmartin's Wa	anted Lists (2	Lists)			+ Create New List
By Category By Color		Search Wanted Lists by name	S	ort by: Newest	v Order: Up v 🔳 🗎
Categories	Items	Name	Items	Completion	
Parts	98	TRACERS launch stack	98	0%	🗱 Easy Buy 🔹 Setup
Bar	4				
Bracket	4	Default Wanted List	0	0%	🗱 Easy Buy 🔅 Setup

- c. An Easy Buy window like the screenshot to the right will eventually appear.
 - i. Make sure it says **98 unique parts** and **1528 total parts**.
 - ii. It might be worth naming the source (see arrow below) "TRACERS easy buy".
 - iii. Make sure the total price between this isn't outrageous (the full set should be ~\$130-\$180 before shipping and handling).
 - iv. If you like what you see, click the green "Create carts" button.



Easy Buy X	
 Carts succesfully created! Click on the Cart icon at the top right to checkout from stores with your selected items. 	
View carts	



e. You will see a screen like the image below.

k	Marketplace 🗸	Studio 🗸	BrickLink Designer Progra	am 🗸	Comm	nunity 🗸	All Items	✓ Sear	ch		Q	C F
	My Store Cart	S (3 stores, 12	6 lots)									
1	Source • K Easy Buy		Import Export		Sort by:	Store name	•	Sear	ch	٩		
	TRACERS easy bu	у 🗹	Domestic (2 stores, 74	lots)				Gra	nd total: US \$	85.31 🗸		
			Store name	Lots	Items	Source	Subtotal	S&H	Order total			
			🗆 🗲 BrickVibe	16	328	% 16	US \$ 30.77	US \$ 6.79	US \$ 37.56	View cart		
			C 🗲 PCB Bricks	58	595	% 58	US \$ 38.75	US \$ 9.00	US \$ 47.75	View cart		
			International (1 store	, 52 lots)				Gran	d total: US \$~	·82.29 🗸		
			Store name	Lots	Items	Source	Subtotal	S&H	Order total			
			🗆 🚘 🗲 3 BRICKS sale	52	605	% 52	US \$ ~61.82	US \$ ~20.47	US \$ ~82.29	View cart		

- f. From here, you will finalize payment for each of the carts that were created by the Easy Buy function.
 - i. To finalize payment for a store, first click "View cart" on the right side of that store's row.
 - 1. Then click "Proceed to checkout" and follow the payment instructions.

BrickVibe (54	4942) ∻ ≡ USA Mi	n. Buy: none Lot Limit: 300)			
ESTIMATED WEIGHT 6.00oz / 170.13g	SHIPPING & HANDLING US \$6.79	ITEM TOTAL (328 ITEMS) US \$30.77	ORDER TOTAL US \$37.56			Proceed to checkout \rightarrow
328 items, 16 lo	ots		♡ Add to Wanted List	🕄 Update cart	Sort by:	Item name, color 🔹
Image	Description			Each	Quantity	Item(s) total
	Brick 1 x 2			US \$0.144	- 8 +	US \$1.15

ii. To navigate back to the "My Store Carts" window to make payment for other stores/carts, just hover over the cart icon in the top right corner and click "View All Carts".

- 6. Filtering options \rightarrow select store(s) \rightarrow create cart(s) \rightarrow finalize payment for your cart(s)!
 - a. After step 3.n, you should see a page like what's shown below. Click "More Options"

		/			
Wanted Lists Upload Part Out Search	Buy				
TRACERS launch stack			0%		
Search Wanted List	Q More Options -	Edit Download	Upload	Add Item Apply Order	Setup
98 items found 25 per pg v 1	of 4 Go < >		Sort By	Item Name v Order	Up v
0 selected 🕒 Move 🗘 Copy	Apply: Color Condition	Price Quantity	Remark	D	Buy All
Image Description	Condition	Max Price	Quantity	Remarks	Notify
□ Bar 6L with Stop Ring 63965 ■ Black	-		Want: 8 Have: -	-	X

- b. These options will filter out stores/vendors based on what you select.
 - i. If, for example, you want to purchase from within your country, select the bullet next to "**Any Country**", then choose your country from the dropdown.
- c. Of course, you should select the box next to "Exclude Stores that do not ship to me".
- d. Hit "Apply"

Vanted Lists Upload Part	t Out Search	Buy				
FRACERS launch s	tack			0%		
Search Wanted List		Q Fewer Options	Edit Downloa	d Upload	Add Item	Apply Order Setu
fiew by Category		Item filters		Iten	ns for Sale Op	otions
All Items	98	Color:	All colors	✓ Iten	ns for Sale:	Hide Show
○ Parts	98	Years:	All years	↓ Loc	ation:	O Any Region
⊖ Bar	4	Condition	Any			Ami Country
O Bracket	4	Condition?	Any	v		Any Country
O Brick	6	Price:	min 🗘 🔤 max 🗘			Exclude Stores that do not ship to me
 Brick, Modified 	5	Wanted Qty:	min C _ max C	Cor	Stores by:	Store Name
O Brick, Round	2	Email notified:		301	i Stores Dy:	Store Name V
O Cone	1	cmail notified.		Exc	lude:	Incomplete Super Lots
⊖ Hinge	3	Found in:	Order ID	0		0
			☐ Hide Items if Have Qty is ≥ Want Qty			
						Reset Form App

r your account icon (a s ″. Peruse at your	gabrielmartin O feedback
	My Messages
	k 贞 My BrickLink
	My Activity
	🗢 My Wanted Lists
	Hy Orders
	My Quote Requests
	읍 My Favorite Stores
CIICK IVIY Wanted Lists .	금 My Collection
	Ny Designs
any filters you use. Click	My Submissions
	Account Settings
	2 Holp Contor
FAQ and Help	

Controls

- e. More filtering options are in two other places as well. We will direct you to them but will not provide detailed information. If needed, email bricklink@support.lego.com or visit https://www.bricklink.com/helpDesk.asp for other options.
 - i. Your **Account Settings** are worth looking through. To see those, hover over your account icon (a LEGO figure by default) in the top right corner, then click "**Account Settings**". Peruse at your leisure.

- ii. The "**Buy**" tab shows some other options.
 - 1. To navigate back to that page, hover over your account icon, then click "My Wanted Lists".
 - 2. Click the "**Buy**" tab near the top of the screen.
 - 3. Select the **"TRACERS launch stack**" wanted list on the left to apply any filters you use. Click **"Apply**"; it may take a moment to load the list of stores.

Wanted Lists Upload Part Out Se Buy Wanted Lists	earch Buy		FAQ and Help
Wanted Lists (2) Wanted Items 98/98 item(s) selected	Store Filters Collapse Store location	Store accepts	5 filters applied
Search for a Wanted List Default Wanted (0/0)	USA USA North America	US Dollar •	 Disliked stores (\$\$) Stores that do not ship to me Lots below Wanted qty
TRACERS launch (98/98) 0%	Anywhere No store found	Show first: 🗌 🏠 Favorited 🗌 🖸 C	Coupons Sort by: Unique lots
Арріу	Store name	Unique lots Item	count Min. buy Auto-select

f. Now you have a list of stores that can fulfill part of the TRACERS launch stack set. (Your list will likely differ from what's shown)

Wanted Lists Upload Part Ou	t Search	Buy					
Buy Wanted Lists						FAQ and Help	
Wanted Lists (2) Wanted Item 98/98 item(s) selected	s St	ore Filters Collapse -	Store accepts	Đ	xclude	5 filters applied	
Search for a Wanted List Default Wanted (0/0) 0%		USA North America Anywhere	US DollarInstant Checkout		 Disliked stores (\$) Stores that do not ship to me Lots below Wanted qty Lots over max price (2) 		
TRACERS launch (98/9	3) 0% 25	87 stores found	Show first: 🗌 🎝 Favorited 🗌	Coupons	Sort by: Unique	e lots 🔹	
	Sto	re name	Unique lots	Item count	Min. buy	Auto-select	
Apply	Ŗ	Bricks on the Dollar (30068) 🗖	% 94	532,755		Select	
	Č	Boston Red Blocks (8914) 🖬 🗲	93	33,889		Select	

Note: Stores within the USA all use paypal as an Instant Checkout option. Only some stores also accept credit/debit card payment. If you are OK using paypal for payment, continue to **Step g**. below.

If you are only buying from stores in the USA and *cannot* use paypal, do not click "Auto-select"; you will instead need to manually select stores to complete your order. Here is how to manually select stores:

- To see if a store accepts credit/debit: click on each store's name, navigate to that store's "Terms" tab, and scroll down to their Payment Policy section. Here it will tell you if they accept credit/debit. If they do not, you will know not to select that store.
- When you find a store you want to use, click the **Select** button next to that store, then click "**Confirm Selection**" on the next window.
- The list of stores will automatically update. Keep selecting stores until "Unique lots" shows 98 and "Item count" shows 1528.

Selected Stores (1)	1469/1528 assigned (96%)						
Store name	Country	Unique lots	Item count	Item price	Min. buy	Remove all	
MapleGroveBricks (6022) 👩	USA 🔤 USA	93	1,469	US \$258.21	US \$5.00	Edit Remove	
Subtotal	1 domestic	93	1,469	US \$258.21		Create carts	

- When done selecting stores (98 lots, 1528 items/pieces), click the "Create carts" button and follow on-screen instructions to purchase each cart.

g. Using "Auto-select" to choose stores.

i. Click the "Auto-select" button. An "Auto-Select Stores" window will pop-up; click "Start".

	TRACERS laur	TRACERS launch (98/98)								
_			25	86 stores found	Show first:	Favorited	Coupons	Sort by:	Unique lots 🔹	
			Sto	re name		Unique lots	Item count	Min. bu	Auto-select	
	Apply	Bricks on the Dollar (30070)	\$	94	532,755		Select			
			Č	Boston Red Blocks (8914) 🖬 🗲		93	33,889		Select	

ii. Check the subtotal price and if 1528/1528 assigned (100%) is shown. If you like what you see, click "Create carts".

Buy Wanted Lists FAQ and Help									
Selected Stores (3)				(1528/	/1528 assigned (100%)			
Store name	Country	Unique lots	Item count	Item price	Min. buy	Remove all			
bricklabtx (4442) 📾	USA 🔤	78	1,258	US \$89.03	US \$2.00	Edit Remove			
👔 Pennsylvania Bricks (1713) 👩	USA 🔤	10	83	US \$9.02	US \$2.00	Edit Remove			
🛞 BrickVibe (54942) 👼	USA 🔤	15	187	US \$17.96		Edit Remove			
Subtotal	3 domestic	98	1,528	US \$116.01	>	Create carts			

iii. For each cart, click "Checkout" and follow the on-screen instructions to finalize payment.

Buy Wanted Lists						FAQ and Help
Click the Check	out button next to each st	Review Carts ore to be redirected to the	e store's cart pa	ge, or buy anothe	r Wanted List.	
Store name	Country	Unique lots	Item count	Item price	Min. buy	\frown
bricklabtx (4442)	USA 📑	170	1,258	US \$89.03	US \$2.00	Checkout
Pennsylvania Bricks (1713) 🛢	USA 📑	20	83	US \$9.02	US \$2.00	Checkout
BrickVibe (54942)	USA 📑	30	187	US \$17.96		Checkout
Subtotal	3 domestic	98	1,528	US \$116.01		

iv. To navigate back to your carts to make payment for other stores/carts, hover over the cart icon in the top right corner of the screen and click "View All Carts".