Typical Component Parts for a TARC Rocket and Where to Find Them
Rocket component part TARC vendors:

Estes Industries: https://estesrockets.com/edu-tarc/

Apogee Rockets: https://www.apogeerockets.com (see the “TARC supplies” section)

Balsa Machining Service (BMS): https://www.balsamachining.com/tarc_parts.pdf

eRockets: http://www.erockets.biz/parts-for-rockets

Main Body Tube - typical choices are:
T-70/BT-70: 2.22 inch (56mm) outside diameter: Apogee (available with or without 3 fin slots); BMS (available with or without 4 fin slots); ASP (non-slotted)
T-80/BT-80: 2.60 inch (66mm) outside diameter: Apogee (available with or without 3 fin slots); BMS (available with or without 4 fin slots); Estes or ASP (non-slotted)

Shock Cord: 2-foot “200-400-pound” (breaking strength) Kevlar cord (available from Apogee, BMS, or eRockets) wrapped around engine mount, with 2-3 feet of ¼ inch sewing elastic tied to the end which is then tied to a screw eye in the transition piece to the egg capsule

Parachute: typical choice is nylon cloth parachutes
Sunward brand from Apogee; Topflight brand from BMS, ASP, or eRockets; or Semroc brand from eRockets

Parachute protection
9 x 9-inch reusable flameproof cloth blanket (Sunward, Madcow or Dinochutes brands) (Apogee and eRockets); Topflight brand (ASP)
Disposable flameproof paper wadding (Estes)
Nose Cone:
For T70 tubes: BNC70AJ or BNC70BB (BMS balsa); PNC-56A (Apogee plastic); or ASP (Balsa)
For T80 tubes: BNC80BB (BMS balsa) or PNC80BB (BMS plastic); NC-80B (Estes plastic); PNC-66A (Apogee plastic); or ASP (balsa)

Transition Section:
If upper and lower body tubes are the same diameter, transition section is cylindrical:
NB70 (for T70 tubes), NB80 (T80 tubes) (both BMS); “Semroc” brand balsa nose blocks (eRockets); balsa bulkheads (ASP)
If one tube is T-80 and the other is T-70, transition section is conical:
balsa TA7080 (BMS or ASP); blow mold plastic 70-80 transition (Apogee)

Fins: typical choices are 1/8-inch thickness balsa or 1/16 to 1/8 inch thickness plywood
Multiple precut shapes with through-the-wall tabs that fit in slotted body tubes (Apogee and BMS); or buy sheets of balsa at local craft store and cut your own

Rail Guide or Button: “1010” or “10/10” size
Buttons that screw on are available from Apogee, ASP, BMS, or eRockets; glue-on rail guides available from Apogee
**Engine Mount Tube:**
For 24mm engines: T50 (BMS or ASP); BT-50 (Estes or Apogee)
For 29mm engines: T52H (BMS); 29mm motor mount tube (Estes or Apogee); T-29 tube (ASP)

**Engine Retainer:**
Engine hook for Estes engines: 2.75” for D12, 3.75” for E12. Available from Apogee, BMS, or Estes. 4.9” for Estes 29mm engines available from ASP
Screw-on cap type for Aerotech & Cesaroni engines: Estes 24mm or 29mm plastic retainer sets (Estes, Apogee, or eRockets)

**Centering rings (use plywood types):**
For 24mm engines in T70: CR5070W (BMS); or from Apogee or ASP
For 24mm engines in T80: CR5080W (BMS); or from Apogee or ASP
For 29mm engines in T70: CR52H70W (BMS); or from Apogee or ASP
For 29mm engines in T80: CR52H80W (BMS); or from Apogee or ASP
For two 24mm engines clustered in T70: M2T5070W (BMS)