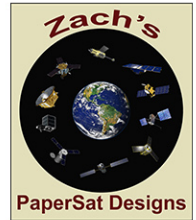
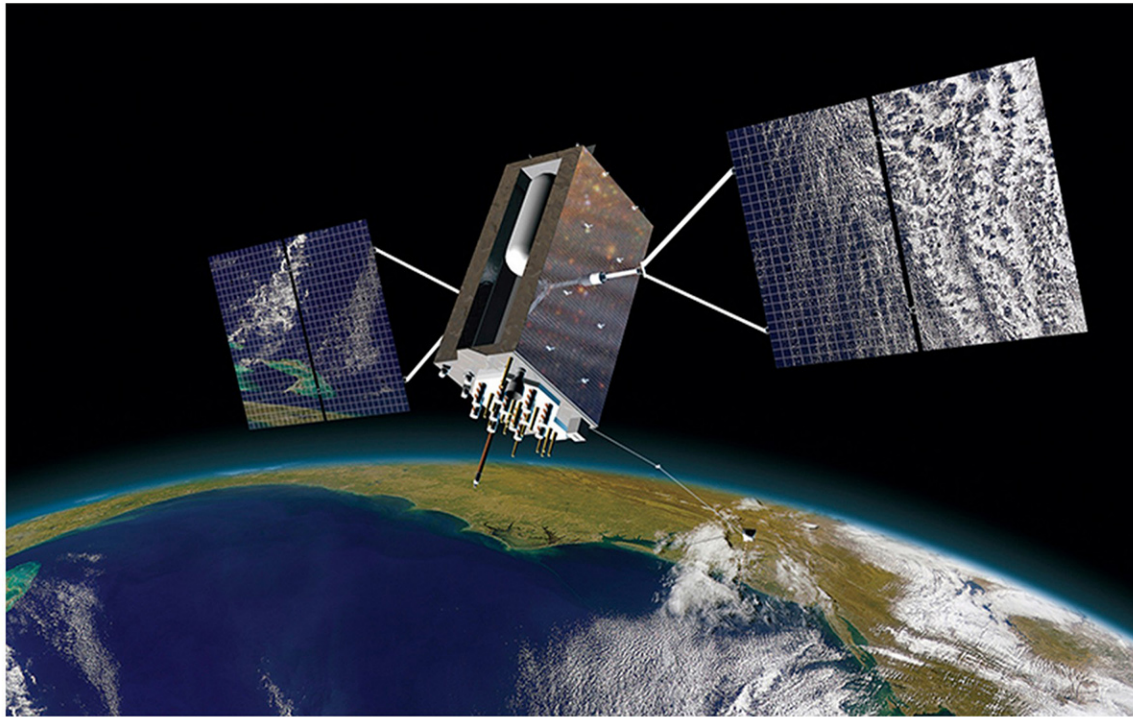


GPS Block III Satellite



GPS III

The world depends on GPS. With GPS – the military is safer, first responders are faster, industry is more productive and everyday living is simply easier. But as GPS becomes increasingly critical to our way of life, the demand is accelerating.

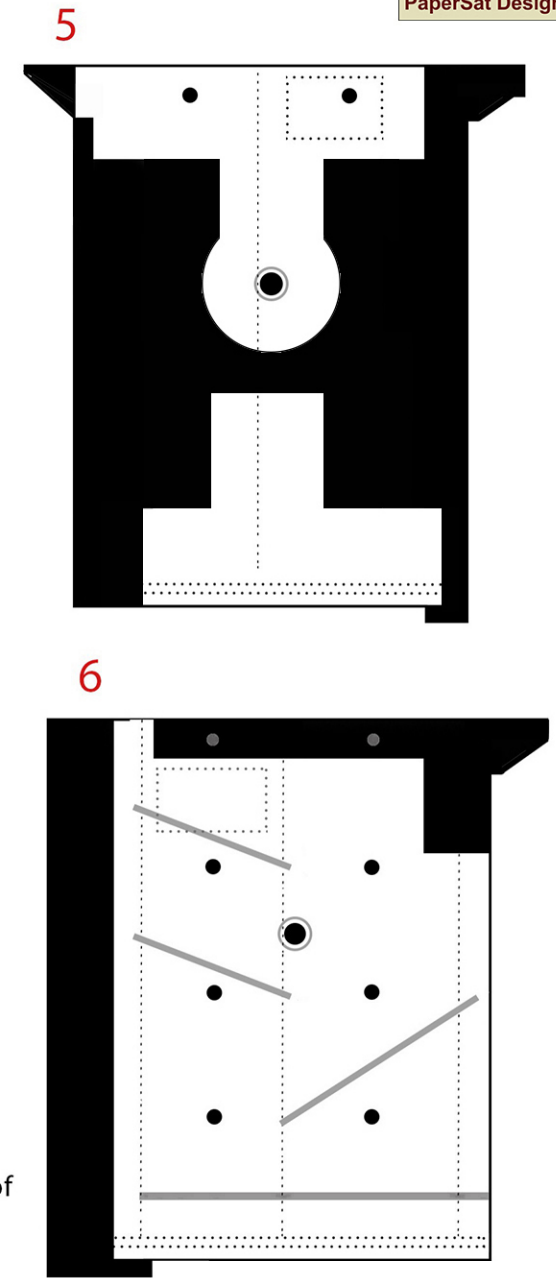
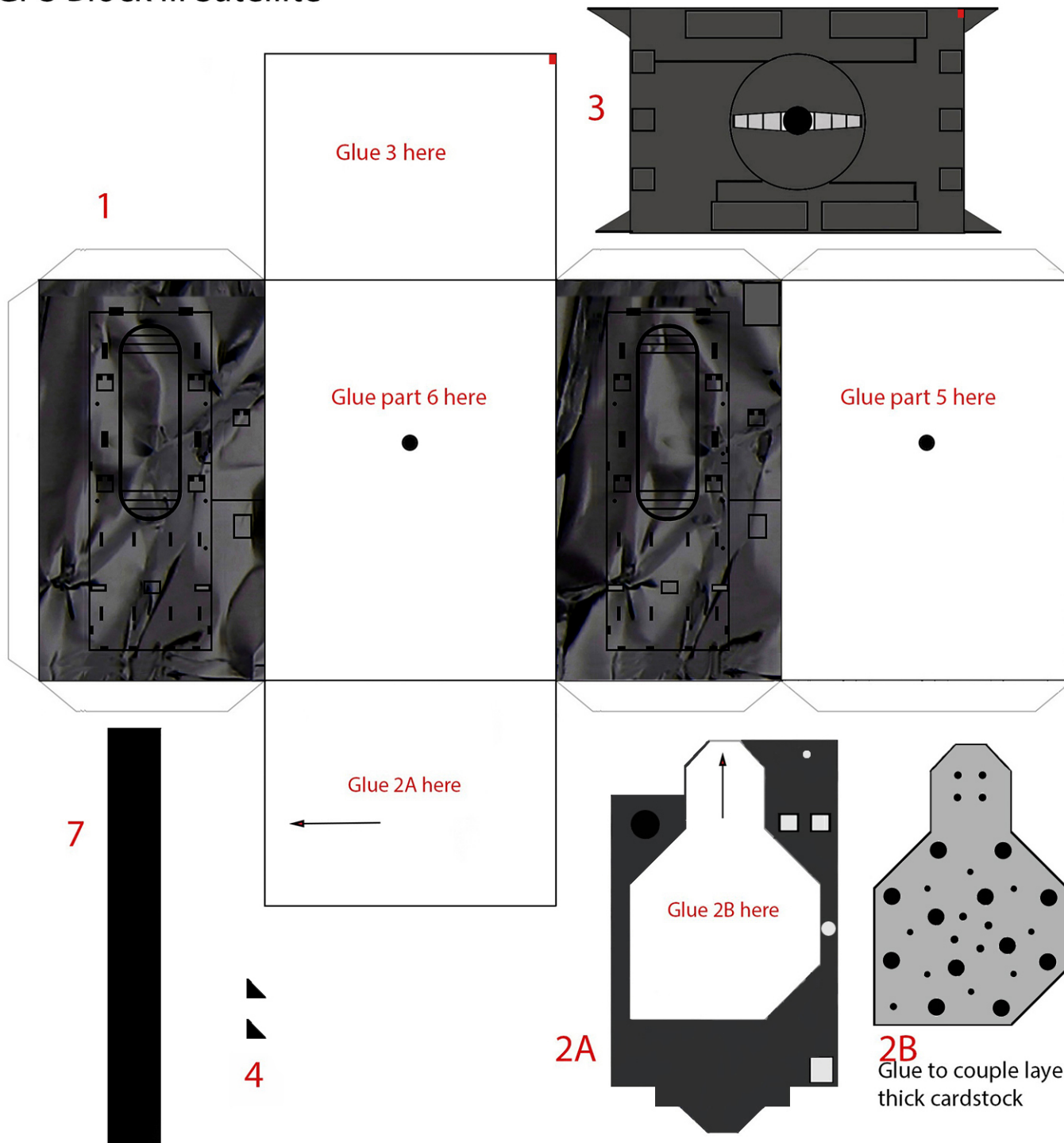
To meet the needs of more than one billion GPS users worldwide, the U.S. Air Force and Lockheed Martin are developing the next generation system, known as GPS III. GPS III will improve position, navigation and timing services and provide advanced anti-jam capabilities yielding superior system security, accuracy and reliability. The first GPS III satellites will deliver signals three times more accurate than current GPS spacecraft and provide three times more power for military users, while also enhancing the spacecraft's design life and adding a new civil signal designed to be interoperable with international global navigation satellite systems.



GPS III Specification

Customer	U.S. Air Force Space and Missile Systems Center
Mission	Highly accurate 3-D position, velocity and precise time
Orbit	Six orbit planes at 55° inclination
Altitude	10,898 nautical miles
Design life	15 years; 13-year MMD
Launch weight	8,553 lb
On-orbit weight	5,003 lb
Size	97 in wide, 70 in deep, 134 in high
Position accuracy	Under one meter, with daily updates from the control segment

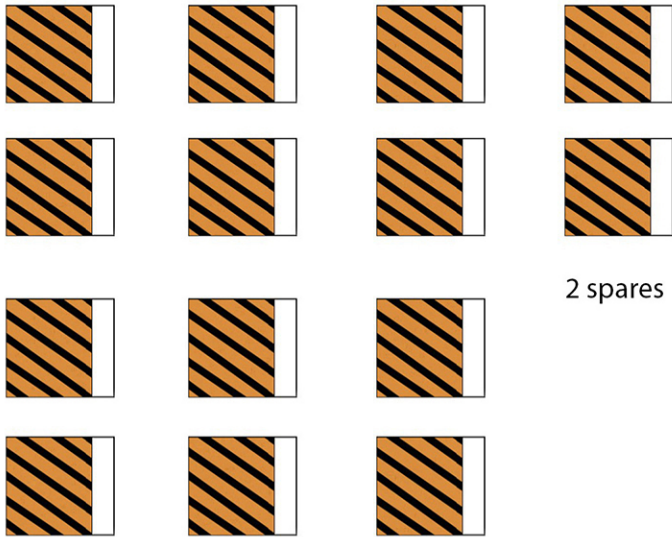
GPS Block III Satellite



GPS Block III Satellite



10



2 spares

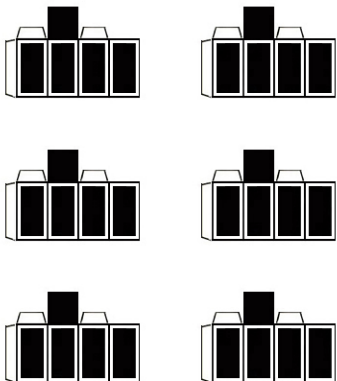
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9

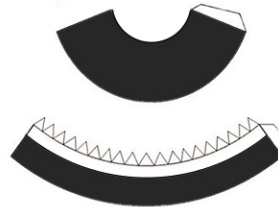


Color back Black

18

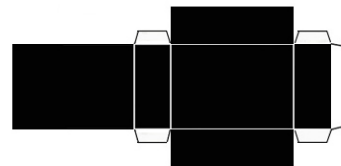
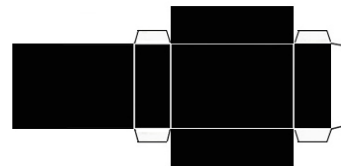
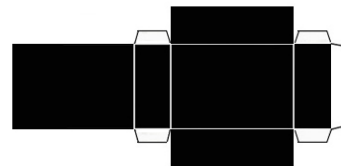
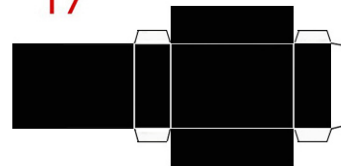


15



Color back black

17



19 Color back black

20

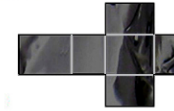


21



Color back black

16



22



Spare

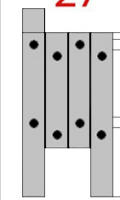
17b



Color back black

27

28



Antenna boom assembly

29



Punch small holes on the 8 SMALL DOTS ONLY for the antennas.

Glue 28 and 29 on cardstock.



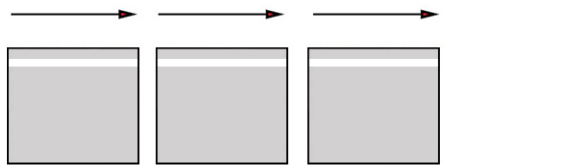
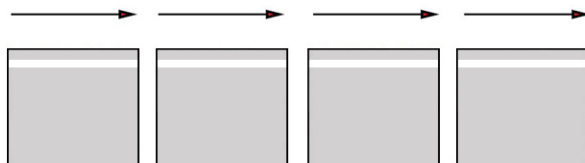
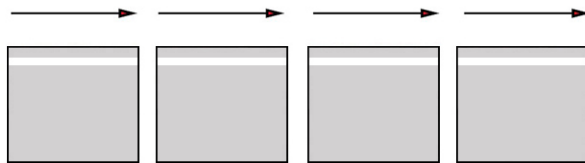
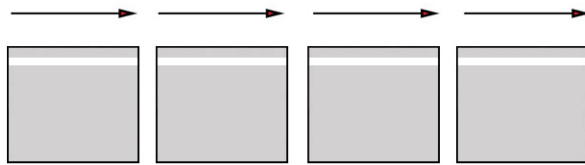
30

31

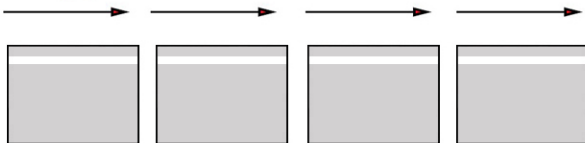
GPS Block III Satellite



11



12



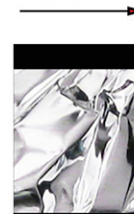
Print This page on regular paper

Roll 11, 12, 13, 14 to tight solid rods. Begin rolling around a tooth pic first, then finish by rolling through your finger and thumbs untill your form a solid rods, glue in place. Roll in the direction indicated by the arrows.

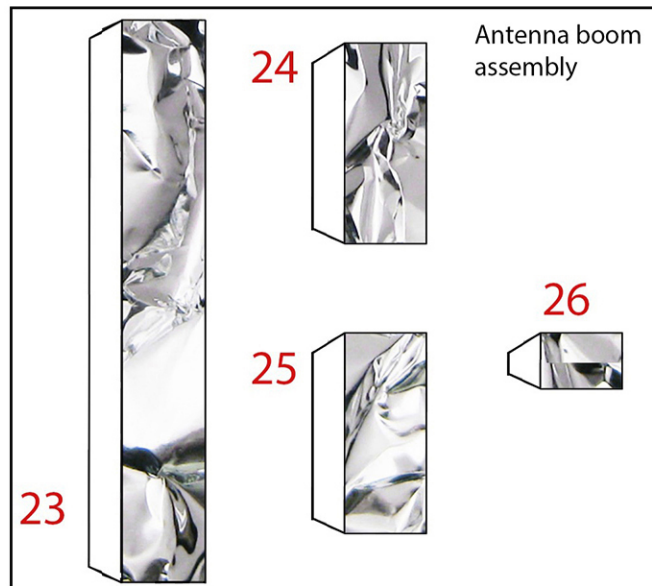
Light color lines on parts 11 and 12 indicates the top.

2 spares provided for Part 11.

13



14



Wrap 23 around a thick stiff copper wire about 70mm long

Wrap 24 around a thick stiff copper wire about 25 mm long.

25 is tightly wrapped into a tight cylinder or rod.

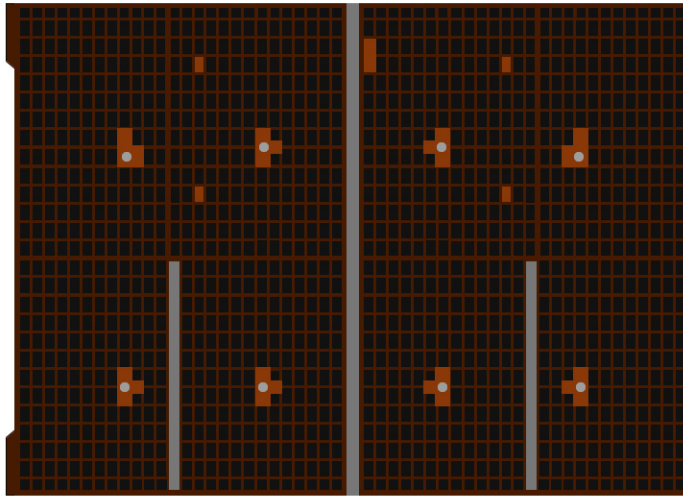
Wrap 26 around a short piece of toothpic.

GPS Block III Satellite

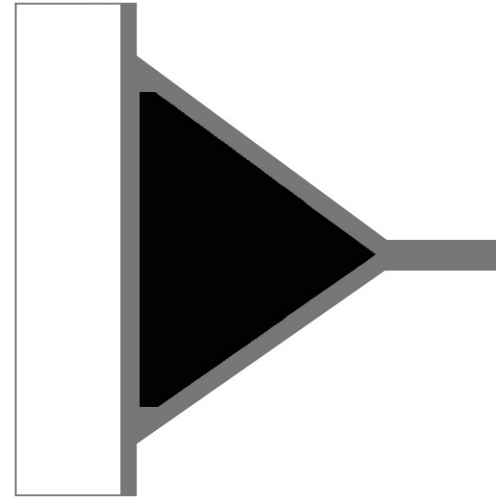


Solar Panels

32 Left

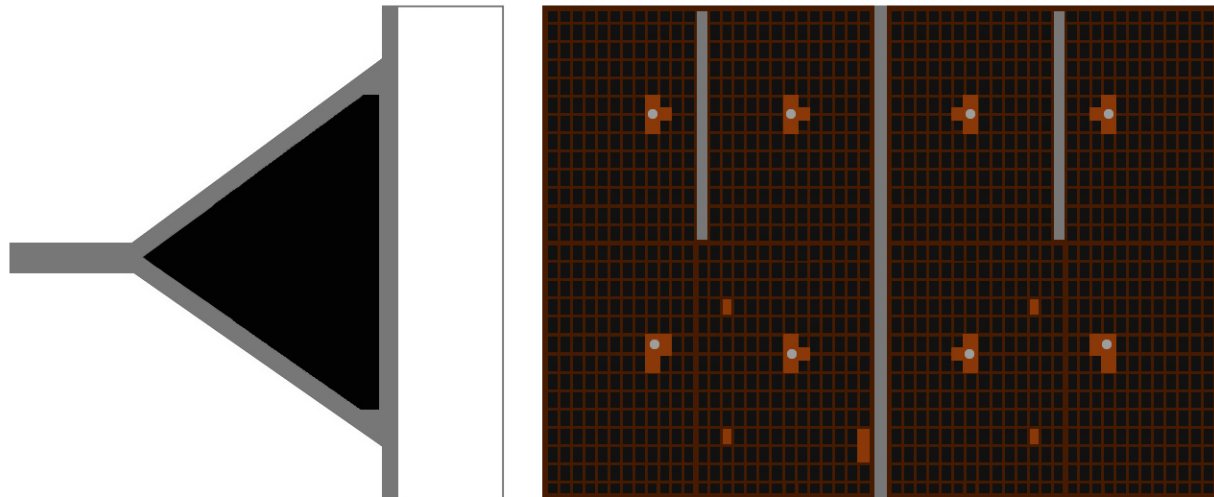


33



You will need stiff copper wire or long tooth pic about 8 inches long.

Right

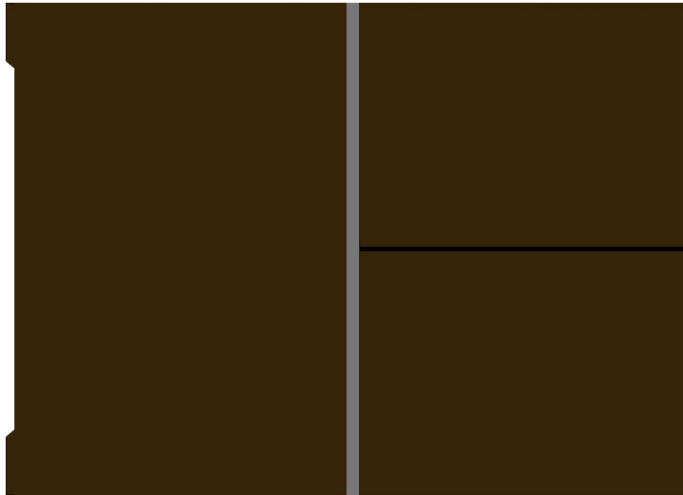


GPS Block III Satellite

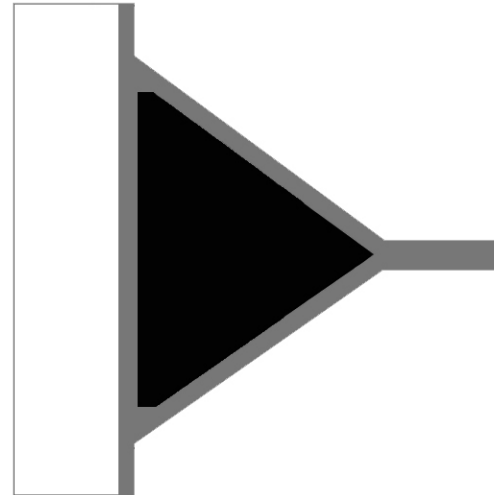


Solar Panels

34 Left



33



You will need stiff copper wire or long tooth pic about 8 inches long.

Right

