okay so with that I show the assembly

and we're back on the timeline

and we're now in Robonaut system power

and that is fantastic news thanks Dan

getting this back on track and for

everybody watching this is the first

humanoid robot we've had aboard the

international space station in space I

guess as well first one we've ever had

and it's Robonaut or are too and it's

specifically designed to have all the

same kinds of interfaces or to be able

to operate with all the interfaces that

humans would use on board space station
and in the near term we've got lots of check out operations to make sure that everything is functioning and all those systems are good very sophisticated fully articulated many many degrees of freedom and the the fingers the hands elbows wrists shoulders waist head and neck as well and allows a lot of different ways to command at this stage right now and most of the commanding we do right now is through automated scripts using as a dedicated program to do it down the road we'll be able to command it via virtual reality and I
suppose down the road as well there'll be some capability to do some artificial intelligence type operations with it where it would have the computing capacity on board to basically operate in a more or less for a more semi autonomous mode the kinds of things we think about using woven all fours to basically offload the crews from doing some of the more routine tasks on Space Station we got a crew at six up here and most of the time everybody's really really busy doing all the science that we do and having a
seventh crew member to add to the complement of six is a wonderful thing and ultimately I think also it would be a fantastic tool to have as a additionally VA crew member space walking through number outside and again we've got a lot of work in the near term for from a technological you know for a technology demonstration am going to get there but this is a great first step and then we are setting up for the next couple of scripts on the ground okay copy that and dan this is Huntsville we are ready for you to proceed to step 12 and once
you're ready we'll start with 13 a troll

is complete ready for 13 can we copy

okay step 13 looks good and I can verify

step 14 and we copy and concur

there is a handshake coming up in

between burbank and robonaut's we're

hoping to get it while we're still on

the air station hung him on space to

ground one for Dan and Robonaut we are a

go to proceed with steps for decimal

three at this time here's four decimal

three and you're ready as soon as I with

four decimal three complete and standing

by on that you're ready for four decimal
form that is a firm you are a go to

proceed to the end of the program very
good the first human humanoid handshake

in space

so man meets machine aboard the

International Space Station as

expedition 30 commander Dan Burbank

reaches out and shakes the hand of

Robonaut

firm handshake very nice nice job on the

programming and and all the engineering

quite an impressive quite an impressive

robot Thank You Robonaut is listening in

and they appreciate the words