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Performance

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**Wheels, Sprockets and Chain choices for
your RC30 Tribute build**



This document, outlines how components for your RC30 tribute build can be used with the TYGA Performance hub conversion. There are several factors to consider such as

Wheel size

Wheel type

Tyre availability

Gearing

Chain and sprocket size

Price and availability of components

These factors are interconnected and it is important to understand which components are compatible and suitable for your build. For example, in our opinion, the RC30 wheel is the most authentic look for your tribute build, but this type of wheel is also going to be expensive and difficult to find, and there are currently only two tyres available for this size (Dunlop Roadsmart IV and Shinko Stealth). Moreover, because the RC36-2 was fitted with a 17 inch wheel as standard, the larger wheel will affect gearing, so gearing will need to be considered too. For the above reasons, builders will look at other alternative types of Honda fitment wheels both in 17 and 18 inch diameters. This document outlines various suggestions when using 18 and 17 inch wheels.

Remember, this document is specifically focused on Honda wheels to use with the TYGA Performance hub conversion TYLY-0326



18" Wheel

For the gearing with an 18" wheel we recommend the following.

#530

For simplicity and to keep costs down, you can keep the standard RC36-2 #530 chain and 16T front sprocket, and then use our specially designed TYSR-0549-45T offset rear sprocket (#530), which bolts directly to the NC30 sprocket carrier. The final ratio with 16/45 and an 18" wheel is very close to the standard RC36-2 final ratio, so in theory, acceleration and top speed etc. are not noticeably changed from the stock bike.

#525

For owners who would prefer to use RC30 size chain and sprockets, we recommend a 15T #525 RC30 front sprocket (JT Sprockets stock this part) and one of our #525 TYSR-0201-42T rear sprockets. With an 18" wheel this again gives you a ratio very close to the standard RC36-2 ratio.

The RC30 front sprocket is a different design to the RC36-2 front sprocket and needs to be fitted with the flat side of the front sprocket located against the collar on the gearbox shaft. The overall width of the mounting hub of the RC30 sprocket is 1mm. less than the RC36-2 sprocket, so for positive location a 1mm. shim is necessary on the outside of the sprocket prior to fitting and tightening the sprocket bolt and washer.

The RC30 sprocket fitted in this way moves the chain 4mm. closer to the engine and then will line up with the TYST-0201-xxT rear sprocket that is fitted directly to the sprocket carrier. You will of course also need a new #525 chain to match these sprockets. There is however an issue worth mentioning. By moving the sprockets 4mm. inboard of the standard routing, the chain no long runs central to the chain slider, so either some modifications to the chain slider, or making a new slider is required.

We only offered parts up for measurements but made no modifications, so we will leave this to the discretion of the user. Ultimately, if you go for the #525 conversion described here or the special TYSR-0549-45T sprocket is a choice for the builder and will come down to what is available, budget and other considerations.



17" Wheel

For the gearing with a 17" wheel we recommend the following.

#530

For the gearing, we are starting with the same size wheel as the standard RC36-2, so the obvious choice is to keep the same gearing as standard. For this we have the special design TYSR-0549-43T offset rear sprocket (#530), which mates perfectly with the standard RC36-2 #530 chain and front sprocket.

#525

If you prefer the #525 style, then you would need an RC30 style 15T front sprocket and one of our TYSR-0201-40T or TYSR-0201-41T rear sprockets. Please see the 18" wheel article above for reference on the issues with this setup.

#520 chain/sprocket conversion

For those that are interested in a #520 chain/sprocket conversion, we do not have a solution for the front sprocket, so we did not test anything. However, if you find a solution for RC30 #520 front sprockets (15T or 16T) then these could be matched to our TYSR-0101-xxT rear sprockets to provide the ratios that you require.

If you have any other information on sprockets etc. that you think might be relevant to building an RC30 Tribute, then we would love to hear from you and will update the document as necessary to assist others.



Here's a quick guide showing some more specific choices and suggestions

<u>Model</u>	<u>Diameter</u>	<u>Width</u>	<u>Tyre size range for rim size</u>	<u>Wheel spacer, centre lock type</u>
RC30	18	5.5	170-180	taper type
NC30	18	4.5	140-170	flat type
RC45	17	6	180-210	taper type
NC35	17	4.5	140-180	flat type
MC28	17	4.5	140-180	flat type
PVM TYGA	17	5.5	160-180	taper type
PVM TYGA	17	5	160-180	taper type
TITAX TYGA	17	5.5	160-180	taper type
TITAX TYGA	17	5	160-180	taper type

Concerning the wheel spacer, center lock. There are two types available as can be seen above, with the choice of either OEM or TYGA parts.

	<u>OEM</u>	<u>TYGA</u>
taper type	92606-MR7-000	TYLY-0196
flat type	92606-MR8-000	TYLY-0096, 1096, 2096, 3096



Concerning the tyre and (more specifically) tyre width that you want to fit onto your chosen rim, we strongly recommend that you contact your local tyre supplier to check what they suggest for your application. We are not the tyre experts!

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