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Lock Up Clutch Controls

At this point we presume you have CO2 controls on your car as most do and it is necessary to have this in place to activate your lock up clutch..

There are three parts to your Lock Up Clutch control package.

First is to determine what the "trigger" event is and what the configuration options are.

Second is the actuation hardware on the bellhousing and the control valves.

Third is the actuation plumbing and electrical schematic.

Trigger events can be manual, or use an event to trigger the start of the lock up process. Some options are even timers that start of the trigger event.

A manual event is the simplest actuation which could be a push button on the steering wheel which is activated by the driver as their discretion.

Another trigger can be a shift event by using a pressure actuated switch that turns on when the CO2 in the transmission shift line is pressurized to make the gear change. Just install a T fitting in the line near the shift button and screw this switch in and connect one side to a switched power source and the other side to the Lock Up Release valve.

Switch - Pressure

Normally OFF – turns ON at $^\sim$ 52 psi Thread is 1/8" NPT with $^\prime$ " blade terminals PN 83730-45650 List Price \$ 65.00+ Racer Decal Discount \$ 46.35+

You can layer your event triggers by using the PN 83730-45650 switch to your CO2 shift control circuit and using a timer as well to allow the lock up to occur at a point later than the initial event trigger. If you want the event to occur in low gear (before second gear is activated) then use a micro switch on the clutch pedal or throttle pedal depending if your car leaves on a two step at wide open throttle or at a manually controlled start line RPM.

Timer and Mounting Base Assembly

PN 83751-00001 List Price \$ 299.50+ Racer Decal Discount \$ 275.00+





Another event trigger can be a RPM event by using a MSD 8950 for batter ignitions or a MSD 8957 for magneto ignitions or if you have a MSD 8973 you can use an event trigger available in that device as well. Your choices are only limited by your imagination but suffice it to say it is important to have a robust high flow pinch valve in your system which our very versatile 35775-00127 pinch valve certainly is.

The second part of your lock clutch package is the actuation hardware. In this part the driver has to prime the lock up control by charging the lock up cylinder.

Lock Up Clutch Actuation Valve

PN 35775-00127

List Price \$ 250.00+

Racer Decal Discount Price \$ 210.00+

Two required, one to allow the CO2 into the system to set the lock up cylinder into position. The other valve will release the pressure in the system to allow the lock up cylinder to release the secondary fingers on the clutch. The PRIMARY valve lets the CO2 in pressurizing the lock up LOWE Industries
Clutch Lock Up Actuation Valve PN 35775-00127
Normally Closed Opens when you feed it 12 volts.
Flows like a .175 jet with 1/4" BSP ports IN and OUT

cylinder and traps it holding the lock up fingers from engaging. The SECONDARY valve releases the CO2 and allows the lock up fingers to load the clutch increasing the plate load on the clutch disks.

Another option to consider is adding a jet to the release valve to allow the clutch to actuate smoothly by releasing the trapped CO2 at a rate that will not slam the lock up fingers into place.

Jet Holder to suit actuation valve above.

PN 35020-00051

List Price \$ 59.00+

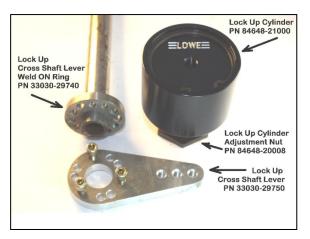
Racer Decal Discount \$ 45.00+

Lock up clutch levers will be available from your clutch manufacturer.

LOCK UP Cylinder

We use a LENCO type shift pod as a lock up cylinder for several reasons. First reason is that they work, second is that we have them in stock and finally they are easy to mount on the bellhousing. We can supply both the lock up cylinder and the lock up cylinder weld on bellhousing bracket with the special thread in the bracket to facilitate easy adjustment of the lock up cylinder.





Parts List

Switch - Pressure

Normally OFF – turns ON at $^\sim$ 52 psi Thread is 1/8" NPT with $\frac{1}{4}$ " blade terminals PN 83730-45650 List Price \$ 65.00+ Racer Decal Discount \$ 46.35+



Timer and Mounting Base Assembly

PN 83751-00001 List Price \$ 299.50+ Racer Decal Discount \$ 275.00+



Lock Up Clutch Actuation Valve

PN 35775-00127 List Price \$ 250.00+ Racer Decal Discount Price \$ 210.00+



Jet Holder to suit actuation valve above.

PN 35020-00051 List Price \$ 59.00+ Racer Decal Discount \$ 45.00+



Lock Up Cylinder

(modified LENCO type cylinder with double adjustment- shaft and housing) PN 84648-21000 List Price \$ 275.00 Racer Decal Discount \$ 240.00



Lock Up Cylinder Adjustment Lock Nut

PN 84648-20008 List Price \$ 85.00+ Racer Decal Discount \$ 70.00+



Lock Up Cylinder Weld on Mount

PN 33090-89006 List Price \$ + Racer Decal Discount \$ +

no photo currently available

Lock Up Cross Shaft Lever

PN 33030-29750 List Price \$ 97.00+ Racer Decal Discount \$ 85.00+



Lock up Cross Shaft Lever Weld on Ring

PN 33030-29740 List Price \$ 69.00+ Racer Decal Discount \$ 55.00+



Lock Up Arming Button

Switch- Push button with rubber boot over button PN 83730-96301 List \$ 32.50+ Racer Decal Discount \$ 22.50+



Switch Toggle Standard ON-OFF 20amp@12 volts

PN 83730-90029 List Price \$ 18.50+

Racer Decal Discount \$ 12.50+



With the system turned off you will have all the counterweight on the clutch working as the lock up cylinder is not activated and does not stop the secondary fingers from engaging. This will assist with your burn out even with a very light clutch when the system is activated.

