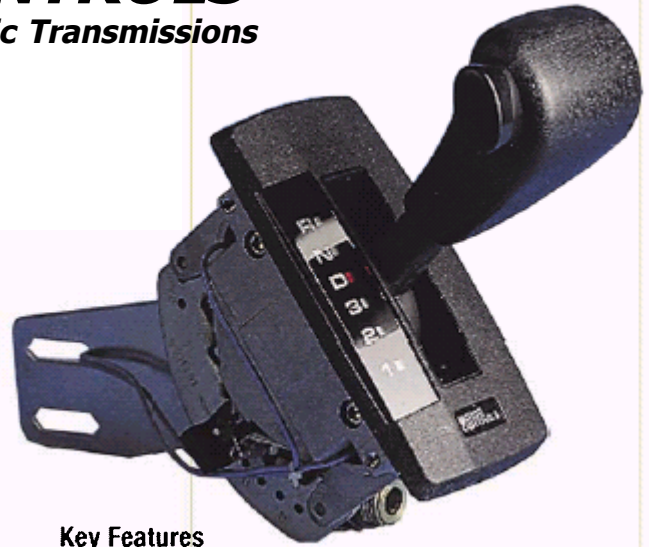


## MAXX CONTROLS

For Allison Automatic Transmissions

The MAXX control is designed to provide the most efficient mechanical control system available for automotive transmissions. Designed to be a modular system, the MAXX can be adapted to complement a wide range of transmissions and vehicles. Ergonomically styled, the MAXX compliments the cab with lasting style and performance.

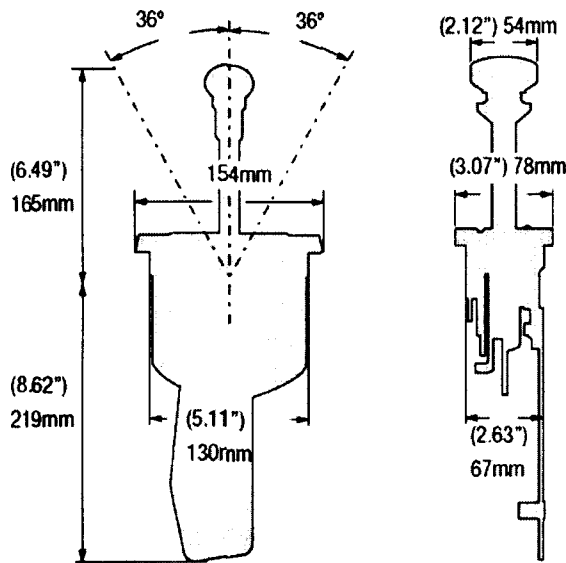


### Key Features

**Efficiency** - used in conjunction with TFXtreme cables, the MAXX control provides the highest efficiency cable shift control available.

**Ergonomics** - the MAXX system is a cleanly styled system that will complement the vehicles interior.

**Durability** - designed with cast aluminium housing and a steel insert, the rugged construction provides lasting performance.



Base MAXX part number by transmission, from chart below

Example Part Number: 301401-X14

First character indicates switch(es) and lamp voltage

X - No Switches	Used on 12 volt systems
N - Neutral Switch	
R - Reverse Switch	
B - Both Switches	
P - Park Switch	
E - No Switches	Used on 24 volt systems
F - Neutral Switch	
G - Reverse Switch	
H - Both Switches	
J - Park Switch	

Second character indicates cable hanger position. See chart on following pages for selecting position desired.

Unassembled hanger plate and attaching hardware will be packed with control if this character is "O"

Cable hanger can be changed readily to any other position without control disassembly.

Third character indicates cable attachment kit.

Use "4" for Type 43C or "6" for Type 63C cable.

## MAXX CONTROLS

### For Allison Automatic Transmissions

The system consists of three components - the MAXX Range Shift Selector, a Teleflex Morse push pull cable, and a transmission connection kit. The following steps should be followed to specify the correct system for a vehicle.

### How to specify a MAXX Control System

1. MAXX Range Shift Selector
  - a Choose the base part number for the specific transmission
  - b Choose the appropriate switches and bulb voltage

Allison Transmission Models	Pos. Strip	Lift Handle Part #	Push Button Handle Part #	Control Mounting	"Reverse" Position Toward
AT540 AT543 MT 643 (MT640) MT644 MT647	R N D 3 2 1	301401 301402 301403 301404	310556 310576 310579 310580	Right Hand Right Hand Left Hand Left Hand	Front Rear Front
MT 653 DR (MT 650)	R N 2-5 2-4 2 1	301405 301406 301407 301408		Right Hand Right Hand Left Hand Left Hand	Front Rear Front Rear
MT 654 CR CLT 654 HT 750 CRD CL (B)T 750 (Optional valve body)	R N 1-5 1-4 1-3 1-2 1	301409 301410 301411 301412		Right Hand Right Hand Left Hand Left Hand	Front Rear Front Rear
HT 740 HT 740 FS	R N 1-4 1-3 1-2 1	301413 301414 301415 301416		Right Hand Right Hand Left Hand Left Hand	Front Rear Front Rear
HT 750 DRD HT 754 CR	R N 2-5 2-4 2-3 2	301417 301418 301419 301420		Right Hand Right Hand Left Hand Left Hand	Front Rear Front Rear
V-730	R N D 2 1 1	301658 301659 301660 301661		Right Hand Right Hand Left Hand Left Hand	Front Rear Front Rear
1000 2000 2400	R N OD D 2 1	312188 312189	312192 312193	Right Hand Left Hand	Front Front
	P R N OD D 2 1	312186 312187	312190 312191	Right Hand Left Hand	Front Front

# MAXX CONTROLS

## For Allison Automatic Transmissions

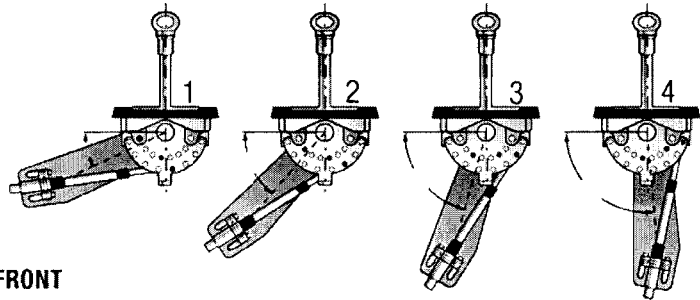
### 2. Select Cable Hanger Plate configuration

Select from the configurations below the ones that provides the correct cable outlet angle and sense of operation (push or pull into reverse) to suit your requirements.

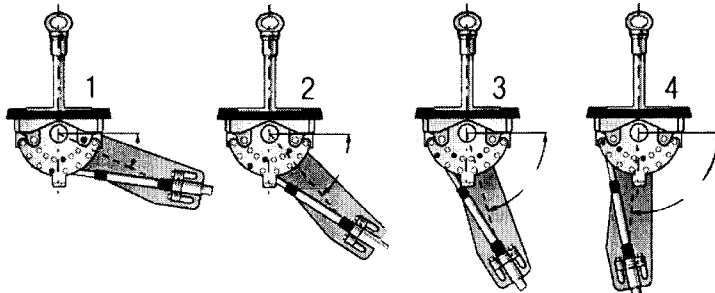
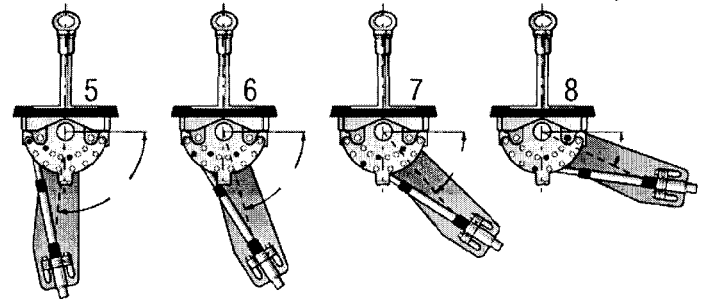
#### Cable Hanger Plate Positions Right Hand Mount

With Cable Hanger at 1-2-3-4  
Moving lever to the front "Pulls the Cable".

With Cable Hanger at 5-6-7-8  
Moving lever to the front "Pushes the Cable".



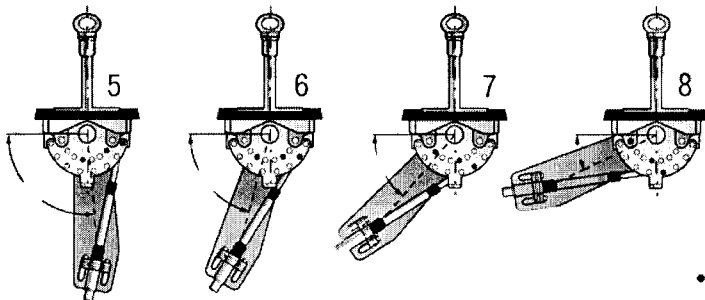
← FRONT



#### Left hand mount

With Cable Hanger at 1-2-3-4  
Moving lever to the front "Pulls the Cable".

With Cable Hanger at 5-6-7-8  
Moving lever to the front "pushes the Cable".



FRONT →

### 3. Select Teleflex Morse Push-Pull Cable

Both the Range selector and the connection Kit require clamp type connections on the cable with a 3 inch travel. Select a cable to the length required. In most cases a 40 series cable will be adequate, but in cases where long length cable (eg. over 6 meters), very heavy loads, or extra endurance are required, a 60 series cable can be used. Special HD fittings kits are available for these cables

#### Apply these rules for routing cables:

- Bend radii should be as generous as practical with a minimum of 6" for 40 series and 10" for 60 series.
- Cable routing should be as straight as possible, the fewer the bends the better the system.
- Ensure cables are routed away from hot areas, or protect with a heat shield if necessary.
- Avoid sharp edges and do not force cables to accept unnatural paths by heavy clipping or anchorage's if at all possible.
- Cable Lengths are specified by rod-end to rod-end measurement.
- For tilt cab installations ensure the length is checked with the cab in the tilt as well as the normal position.

# MAXX CONTROLS

**For Allison Automatic Transmissions**

How to specify a MAXX Control System

### 4. Transmission Connection Kit:

Choose a connection kit for your transmission to match the MAXX Range Shift Selector and cable type you have selected. Refer to the table below.

Note: the direction of cable movement at the transmission arm must agree with the range selector

TRANSMISSION CONNECTION KITS		P/N
AT 540	Pull to Rev.-Rear oil pan mount	063872
	Pull to Rev.-Top front mount	063873
AT 545	Pull to Rev.-Top front mount	063874
AT 545N	Pull to Rev.-Rear oil pan mount	310185
MT 643, MT 644	Pull to Rev.-Top front mount	067544
MT653 DR MT647	Pull to Rev.-Top front mount	067776
MT 654 CR and	Pull to Rev.-Front oil pan mount	301116
CLT 654	Pull to Rev.-Top front mount	301118
	Pull to Rev.-Top front mount	301120
HT 740, HT 740 FS,	Pull to Rev.-Front oil pan mount	066734
HT 747		
HT 750 CRD,	Pull to Rev.-Top front mount	067420
HT 750 DRD	Pull to Rev.-Top front mount	067422
HT 754		
CLBT 750	Pull to Rev.-Top front mount	300676
60 Series	Pull to Rev.-Top front mount	300942
CLT 754	Pull to Rev.-Front oil pan mount	300943
V730	Pull to Rev.-Rear oil pan mount	300317
60 Series		
1000	Push or pull - Front or rear	312261
2000		
2400	Push to Rev.-Rear oil pan mount	315114

*\*H.D. kit required to use the above kits with 60 series cables.*

### 5. Modulator Control Assembly:

If using a diesel engine with an automatic transmission, the additional required component is the modulator. To specify the correct modulator, see modulator section of this catalog or contact us.

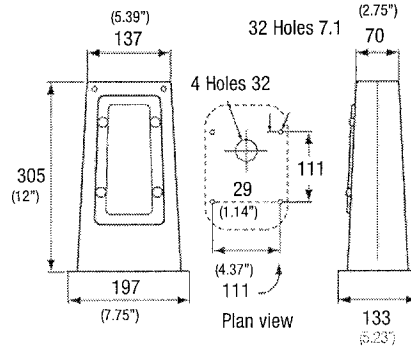


## Maxx Control Mounting Accessories & Service Parts Kits

### Mounting Stand

A prefabricated steel mounting stand with a satin black finish for floor mounting. An easily removed access panel simplifies installation and adjustment. Use only with cable hanger positions 4 and 5 on Maxx

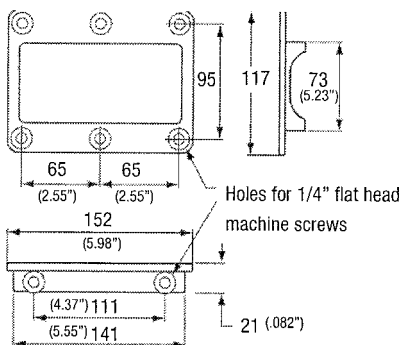
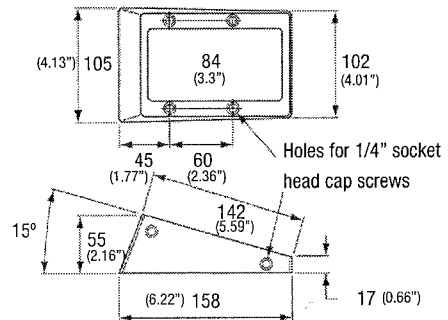
**Order Part # 044585**



### Mounting Wedge

Die cast aluminium wedge, with satin black finish. Mount control at 15° angle to mounting service. When used with the Maxx control, the wedge can be used with the cable hanger in any position except 1 and 8.

**Order Part # 046925**



### Mounting Flange

Cast aluminium mounting flange with satin black finish. Simplifies cutout required, ideal for use when converting vehicles. May be used with cable hanger plate in any position.

**Order Part # 046595**

Maxx service parts kits	Part Number
Pigtail assembly	045063-1
Spring clip retainers	050914-007
Cover assembly kit	302006
Switch kit	302007
Indicator band kit	302008
Hardware kit, Maxx control	302011
Knob	301164
Lever release lifter kit	302348
Insulated pigtail assembly	51826/004