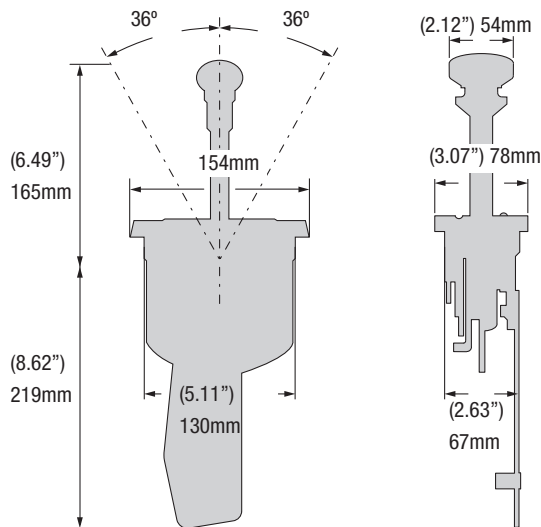
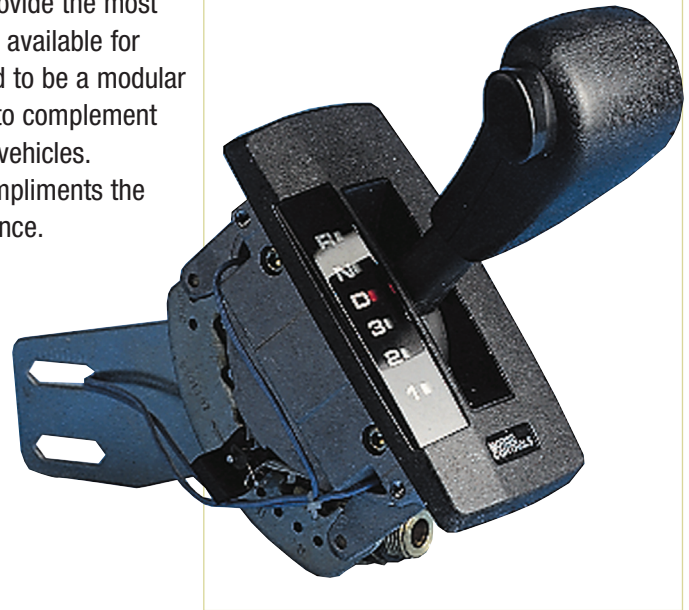




The MAXX control is designed to provide the most efficient mechanical control system available for automotive transmissions. Designed to be a modular system, the MAXX can be adapted to complement a wide range of transmissions and vehicles. Ergonomically styled, the MAXX compliments the cab with lasting 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 (see page 2). **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 "0" 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.



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.

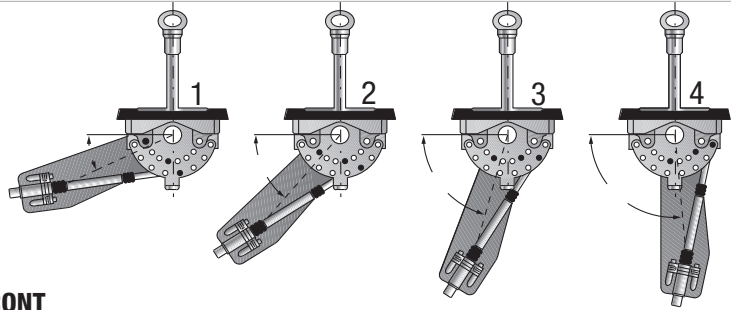
1. MAXX Range Shift Selector
  - a Choose the base part number for the specific transmission
  - b Choose the appropriate switches and bulb voltage

Maxx Range Shift Selector Part No's.		Lock in Neutral and Reverse			
Allison Automatic Transmissions					
Allison Transmission Models	Pos. Strip	Lift Handle	Push Button Handle	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 Rear
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
2500	R N D 4 2 1		316302	Right Hand	Front



### 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.

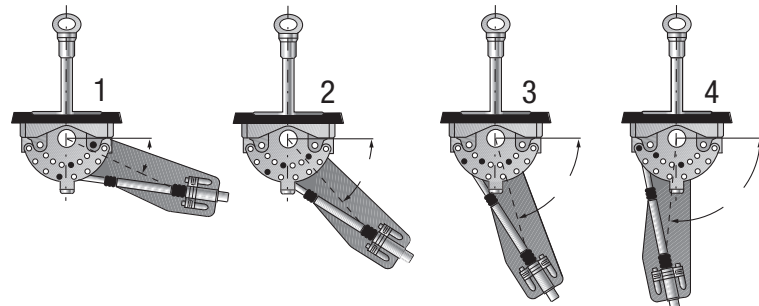
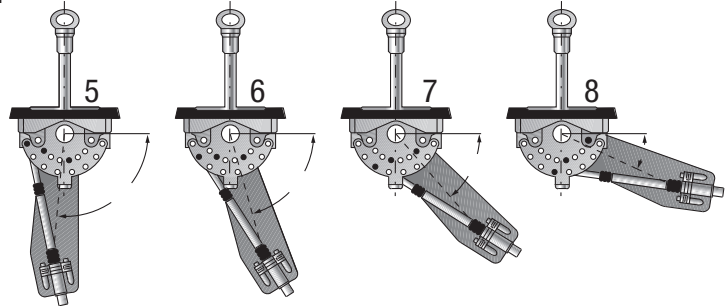


#### Cable Hanger Plate Positions Right Hand Mount

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

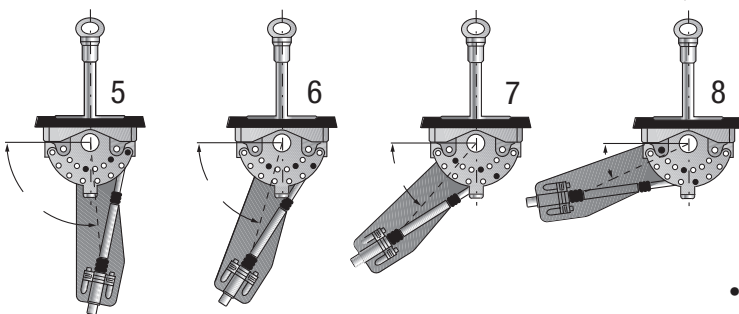


#### Left hand mount

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 75 mm 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 150mm for 40 series and 250mm 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.



**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 Pull to Rev.-Top front mount	063872 063873
AT 545 AT 545N	Pull to Rev.-Top front mount Pull to Rev.-Rear oil pan mount	063874 310185
MT 643, MT 644 MT653 DR MT647	Pull to Rev.-Top front mount Pull to Rev.-Top front mount	067544 067776
MT 654 CR and CLT 654	Pull to Rev.-Front oil pan mount Pull to Rev.-Top front mount Pull to Rev.-Top front mount	301116 301118 301120
HT 740, HT 740 FS, HT 747 HT 750 CRD, HT 750 DRD HT 754	Pull to Rev.-Front oil pan mount  Pull to Rev.-Top front mount Pull to Rev.-Top front mount	066734  067420 067422
CLBT 750 60 Series CLT 754	Pull to Rev.-Top front mount Pull to Rev.-Top front mount Pull to Rev.-Front oil pan mount	300676 300942 300943
V730 60 Series	Pull to Rev.-Rear oil pan mount	300317
1000 2000 2400 2500	Push or pull - Front or rear  Push to Rev.-Rear oil pan mount	312261  315114

Note: To connect any of the above kits for use with a 63C cable order conversion kit part No. 300462

**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, reference the MAXX Control Accessory - Modulator Valve Control Assembly technical sheet.